

TANKS AND EQUIPMENT DOMESTIC HOT WATER PRODUCTION AND STORAGE for individual and communal installation and industrial applications.



DOMESTIC HOT VATERPRODUCTION AND STORAGE

Proven quality, excellence in surface protection and maximum storage capacity.

apesa Solutions FOR YOUR COMFORT AND ECONOMY

TANKS FOR DOMESTIC HOT WATER PRODUCTION AND STORAGE 50 to 12000 litres for individual and communal installation and industrial applications

STAINLESS STEEL TANKS DHW PRODUCTION/STORAGE TANKS

GEISER INOX domestic range 60 to 1000 litres

SERIES



MASTER INOX large capacity 1500 to 6000 litres



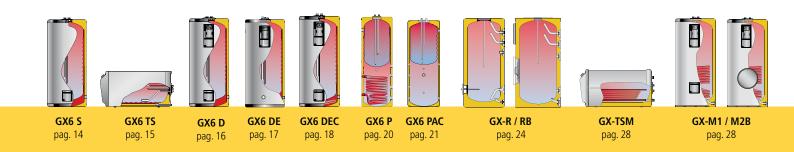
MODELS	CAPACITIES DHW / TOTAL (I.)	STAINLESS STEEL MATERIAL	STANDARD DHW PRODUCTION TYPE/SYSTEM	OPTIONAL DHW PRODUCTION SYSTEM
GX6 S GX6 TS GX6 D GX6 DE GX6 DEC GX6 P	60/90 to 500/600 150/175 to 200/235 60/90 to 500/600 90/140 to 712/1000 60/90 to 500/600 115/245 to 250/1000	AISI 316 L AISI 316 L AISI 316 L AISI 316 L AISI 316 L AISI 316 L	DOUBLE WALL DOUBLE WALL DOUBLE WALL DOUBLE WALL DOUBLE WALL + ELECTRIC HEATING ELEMENT DOUBLE WALL + COIL	ELECTRIC HEATING ELEMENT ELECTRIC HEATING ELEMENT ELECTRIC HEATING ELEMENT
GX6 PAC	115/245 to 250/1000	AISI 316 L	DOUBLE WALL	ELECTRIC HEATING ELEMENT
GXR GXRB	200 to 1000 800 to 1000	AISI 316 L AISI 316 L	STORAGE	PLATE EXCHANGER/ELECTRIC HEATING ELEMENTS PLATE EXCHANGER/ELECTRIC HEATING ELEMENTS
GXM1/M1B GXTSC GXTSM GXM2/M2B GXHL/HLB	200 to 1000 100 to 150 150 to 200 200 to 1000 200 to 1000	AISI 316 L AISI 316 L AISI 316 L AISI 316 L AISI 316 L	1 COIL 1 COIL 1 COIL 2 COILS OVERDIMENSIONED COIL	ELECTRIC HEATING ELEMENT

HYDRAULIC INSTALLATION EXAMPLES DHW PRODUCTION ELECTRIC HEATING REGULATION AND CONTROL THERMAL INSULATION CATHODIC PROTECTION / ACCESSORIES

MXVRB	1500 to 6000	AISI 316 L	STORAGE	PLATE EXCHANGER/ELECTRIC HEATING ELEMENTS
MXVSB	1500 to 6000	AISI 316 L	DETACHABLE COIL	ELECTRIC HEATING ELEMENT
MXVSSB	1500 to 6000	AISI 316 L	OVERDIMENSIONED DETACHABLE COIL	ELECTRIC HEATING ELEMENT
MXVS2B	2000/3500/5000/6000	AISI 316 L	2 DETACHABLE COILS	ELECTRIC HEATING ELEMENT
MXVSS2B	2000/3500/5000/6000	AISI 316 L	2 DETACHABLE COILS (LOWER ONE OVERDIMENSIONED)	ELECTRIC HEATING ELEMENT

DHW PRODUCTION ELECTRIC HEATING THERMAL INSULATION CATHODIC PROTECTION / ACCESSORIES / FINISHES IN ALUMINIUM ALUNOX HYDROMASTER SEMI-INSTANT DHW PRODUCTION UNITS

INDUSTRIAL CAPACITY STORAGE TANKS: 7000 to 12000 litres



		APPLICABLE ENE	RGY SOURCE			INDEX
HEAT PUMP	SOLAR COLLECTORS	GAS/FUEL OIL BOILER	SOLID FUELS BOILER	ELECTRIC HEATING ELEMENTS	SEVERAL COMBINED ENERGY SOURCES	PAGE
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VITREOUS ENAMELLED STEEL TANKS DHW PRODUCTION/STORAGE TANKS

SERIES

coral vitro domestic range 80 to 1500 litres



MASTER VITRO large capacity 1500 to 6000 litres



MODELS	CAPACITIES DHW / TOTAL (I.)	STEEL MATERIAL	STANDARD DHW PRODUCTION TYPE/SYSTEM	OPTIONAL DHW PRODUCTION SYSTEM	
CVR	200 to 1000	S275JR	STORAGE	PLATE EXCHANGER / ELECTRIC HEATING ELEMENTS	
CVRB	800 to 1500	S275JR STORAGE	S275JR STORAGE	STORAGE	PLATE EXCHANGER / ELECTRIC HEATING ELEMENTS
CVM1S	80 to 300	S275JR	COIL	ELECTRIC HEATING ELEMENTS	
CVM1M	90 to 160	S275JR	COIL	ELECTRIC HEATING ELEMENTS	
CVM1/M1B	200 to 1500	S275JR	COIL	ELECTRIC HEATING ELEMENTS	
CVM2/M2B	300 to 1000	S275JR	2 COILS	ELECTRIC HEATING ELEMENTS	
CVHL/HLB	200 to 1000	S275JR	OVERDIMENSIONED COIL	ELECTRIC HEATING ELEMENTS	
CVHLM / HLDUO	160 to 350	S275JR	OVERDIMENSIONED COIL	ELECTRIC HEATING ELEMENTS	
CVP	150/600 to 200/1000	S275JR	DOUBLE WALL + COIL	ELECTRIC HEATING ELEMENTS	
CVP-DUO	150/600 to 200/1000	S275JR	DOUBLE WALL + COIL	ELECTRIC HEATING ELEMENTS	

DHW PRODUCTION ELECTRIC HEATING REGULATION AND CONTROL THERMAL INSULATION CATHODIC PROTECTION / ACCESSORIES

MVVRB	1500 to 6000	S275JR	ACCUMULATION	ÉCHANGEUR À PLAQUES / RÉSISTANCES ÉLECTRIQUES
MVVSB	1500 to 6000	S275JR	DETACHABLE COIL	ELECTRIC HEATING ELEMENTS
MVVSSB	1500 to 6000	S275JR	OVERDIMENSIONED DETACHABLE COIL	ELECTRIC HEATING ELEMENTS
MVVS2B	2000/3500/5000/6000	\$275IR	2 DETACHABLE COILS	ELECTRIC HEATING ELEMENTS
MVVSS2B	2000/3500/5000/6000	S275JR	2 DETACHABLE COILS	ELECTRIC HEATING ELEMENTS
WIVV 3320	2000/3300/3000/0000	527551	(LOWER ONE OVERDIMENSIONED)	

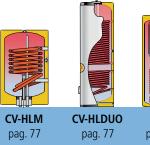
DHW PRODUCTION ELECTRIC HEATING THERMAL INSULATION CATHODIC PROTECTION / ACCESSORIES FINISHES IN ALUMINIUM ALUNOX

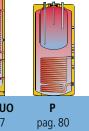
HYDROMASTER SEMI-INSTANT DHW PRODUCTION UNITS

INDUSTRIAL CAPACITY STORAGE TANKS IN COATED STEEL: 7000 to 12000 litres



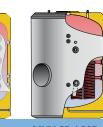
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GEISI don 30 to

INERTIA TANKS BUFFER TANKS FOR PRIMARY CIRCUITS

SERIES	MODELS	CAPACITIES (I.)	STEEL MATERIAL	STANDARD HW PRODUCTION TYPE/SYSTEM	OPTIONAL HW PRODUCTION SYSTEM
ER INERTIE	GI GIF	370 to 1500 30 to 1500	S235JR S235JR	STORAGE STORAGE	ELECTRIC HEATING ELEMENT ELECTRIC HEATING ELEMENT
mestic range o 1000 litres	GX4I/F	80 to 1000	AISI 304L	STORAGE	ELECTRIC HEATING ELEMENT
	GIS GIFS	370 to 1500 260 to 1500	S235JR S235JR	STORAGE / COIL STORAGE / COIL	ELECTRIC HEATING ELEMENT ELECTRIC HEATING ELEMENT
_	GL GLW	800 to 1500 800 to 1500	S235JR S235JR	STORAGE / STRATIFICATION COIL / STRATIFICATION	ELECTRIC HEATING ELEMENT ELECTRIC HEATING ELEMENT

THERMAL INSULATION ACCESSORIES

MASTER INERTIE large capacity 1500 to 6000 litres

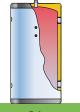


MVI	1500 to 5000	S235JR	STORAGE	ELECTRIC HEATING ELEMENTS
MVIB	1500 to 6000	S235JR	STORAGE	ELECTRIC HEATING ELEMENTS
MXV4I	1500 to 6000	aisi 304l	STORAGE	ELECTRIC HEATING ELEMENTS
MXV4IB	1500 to 6000	Aisi 304l	STORAGE	ELECTRIC HEATING ELEMENTS
MVIS	1500 to 5000	S235JR	COIL	ELECTRIC HEATING ELEMENT
MVISB	1500 to 5000	S235JR	COIL	ELECTRIC HEATING ELEMENT
MVL	2000 to 5000	S235JR	STORAGE / STRATIFICATION	ELECTRIC HEATING ELEMENT

THERMAL INSULATION ACCESSORIES

FINISHES IN ALUMINIUM ALUNOX

INDUSTRIAL CAPACITY INERTIA TANKS: 7000 to 12000 litres

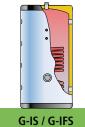


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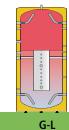
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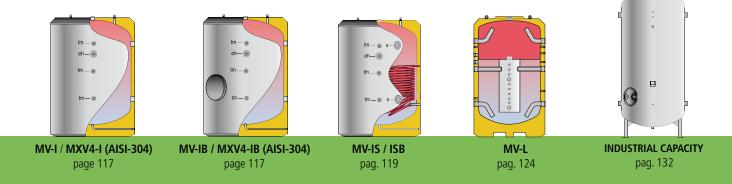
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Chromium-nickel-molibdenum **STAINLESS STEEL**, highly resistant to pitting caused by halogen elements such as the chlorine present in drinking water, is the material used to manufacture all of the models in our **"GEISER INOX" and "MASTER INOX "**series.

HYGIENIC MATERIAL: Easy to clean, it allows the use of very energetic washing and disinfecting means (e.g. anti-legionella treatments) without undergoing any changes. In DHW tanks made of stainless steel there is no accumulation of residues from sacrificial anodes because the tanks do not require cathodic protection in normal working conditions.

FOOD GRADE: Stainless steel is a non-toxic material that is commonly used in the food industry. In hygiene tests it is on a par with glass and porcelain and is thus considered ideal for use in the manufacture of tanks intended for the production and storage of domestic hot water.

MAXIMUM WORKING TEMPERATURE: It withstands the maximum DHW storage temperatures handled by this type of facilities (90°C) without undergoing any change. **LONG SERVICE LIFE:** Amongst the stainless steels used for these products, **AISI 316 L stainless steel** has one of the highest levels of corrosion resistance. By way of example AISI 316 L stainless steel withstands twice as much dissolved chloride in water content than AISI 304 L steel in the same working conditions.

Cathodic protection is not required. The "GEISER and MASTER INOX" series of storage tanks do not require cathodic protection in normal conditions of use for drinking water (European Directive 98/83/CE). In the case of water which is particularly aggressive due to its chemical composition, the storage tanks supplied with lapesa correx-up permanent, maintenance-free cathodic protection.

High mechanical strength: The stainless steel withstands the mechanical stress caused by sudden fluctuations in pressure, water hammer effects of pumps, etc. without any problems or risk of damage.

EXCEPTIONAL PRODUCT QUALITY: The best-kept secret. The process employed in the manufacture of our stainless steel storage tanks is the key to their success as products of proven quality.

The special welding procedures used in their manufacture and the subsequent pickling and passivation of metal surfaces, which is subject to strict quality controls, endows our products with a quality that puts them at the very highest market level.

This level of quality is underpinned by our products' worldwide presence for more than 30 years.

OPTIMIZED DESIGN. BEST VALUE FOR MONEY:

Design and features. The wide range of models in

our **"GEISER INOX and MASTER INOX"** series, leverages the many design options that stainless steel affords, endowing our products with the best performance features. Excellent product value-for-money comes from optimizing the design and the manufacturing process for each model.

Double-wall models with electric heating incorporated in the primary heating circuit, maintenance-free, specific high-performance models to ensure the best possible use of **RENEWABLE ENERGIES**, models for low-temperature, mixed, communal, individual or battery installations are only some of the possibilities provided by the variety of designs in our range.

The level of quality of a stainless steel tank mainly depends on the quality and execution of the manufacturing processes, well as on the design of the storage tank and the quality of the stainless steel used. The success of **lapesa** products is closely linked to the combination of these three aspects

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APPLICABLE DIRECTIVES AND STANDARDS:

Directive 2014/68/UE: European Pressure Equipment Directive. Royal Decree 865/2003 establishing hygiene-health criteria for the prevention and control of Legionnaires' disease. Regulation on thermal installations in buildings (RITE) and its accompanying technical instructions. UNE 100030:2005 IN STANDARD: Guide for the prevention and control of the proliferation and dissemination of legionella in installations. UNE 112076:2004 IN STANDARD: Prevention of corrosion in water circuits.

GEISER INOX

- Individual installations for the production/storage of DHW
- Single-family homes
- Gymnasiums and sports centres
- Clinics and hospitals
- Laboratories
- Restaurants, hotels, bars
- Laundries
- Schools and universities
- Solar and other renewable energy installations
- DHW centralized systems (battery installation)

MASTER INOX

- Individual production/storage installations with large DHW consumptions
- Collective housing
- Gymnasiums and sports centres
- Clinics and hospitals
- Laboratories
- Restaurants, cafeterias, bars
- Hotels
- Laundries
- Schools and universities
- Solar and other renewable energy installations
- Industrial installations (individual or battery installation)
- Large DHW consumptions (individual or battery installation)
- Centralized DHW systems in buildings (individual or battery installation)



DOUBLE WALL models - nothing but advantages!

The water contained in the surrounding tank or primary tank is heated by an external energy source (boiler, heat pump, solar collectors, etc.) that passes through this vessel and



transmits its thermal energy to the water contained in the inner tank or DHW storage tank.

> **DOUBLE-WALL TANKS:** This is the star product of the "GEISER INOX" series thanks its many advantages over conventional DHW production systems.

> The DOUBLE-WALL system basically consists of a combination of two tanks, one inside the other. DHW production takes place by the exchange of heat from the external or primary tank to the internal or secondary tank (DHW), throughout the whole of the tank's surface.

The water contained in the surrounding tank or primary tank is heated by an external energy source (boiler, heat pump, solar collectors, etc.) that passes through this vessel and transmits its thermal energy to the water contained in the inner tank or DHW storage tank.

DHW PRODUCTION/STORAGE TANKS GEISER INOX - **DOUBLE WALL**

lapesa

LONG-LASTING PRODUCT: Nickel-chromium-molybdenum

STAINLESS STEEL DHW storage tank, highly resistant to pitting caused by halogen elements such as chlorine in drinking water. This is the material used to manufacture all of the models in our "GEISER INOX" series.

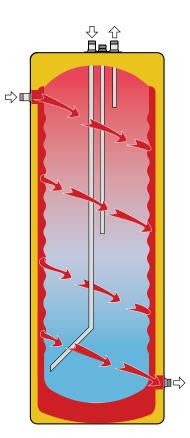
SELF-CLEANING EFFECT: Corrugated design of the DHW storage tank, in constant vertical movement depending on the fluctuations in the internal pressure, which helps to detach any limescale from the walls.

ANTI LEGIONELLA DESIGN: Totally uniform DHW storage temperature, with no cold zones inside the storage tank. The surround heating of DHW produces a uniform water storage temperature throughout the whole of the tank, which in turn allows it to be used to its full capacity.

MAINTENANCE-FREE: DHW tank without any internal heat exchange elements. It does not require cathodic protection in normal drinking water conditions. The models with electric heating have the heating element in the primary circuit so there is no risk of corrosion or lime scale.

LARGE DHW PRODUCTION CAPACITY: The heat exchange area is that of the total surface area of the DHW storage tank.

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mouldinjected insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 41)



DOUBLE WALL TANKS HEATING SYSTEM





FEATURES COMMON TO ALL "DOUBLE-WALL GEISER INOX" MODELS:

- DHW storage tanks in AISI 316 L stainless steel
- DHW capacities: 60, 100, 150, 200, 300 and 500 litres
- Maximum working pressure of DHW storage tank: 8 bar (10 bar optional)
- Maximum working temperature of DHW storage tank: 90 °C
- Maximum working pressure of surrounding tank (primary circuit): 3 bar
- Maximum working temperature of surrounding tank (primary circuit): **110 °C**
- Thermal insulation: **Rigid, mould-injected PU** (CFC/HCFC-free, 0.025 W/m°K)
- VERTICAL or HORIZONTAL installation. Up to 150 litres, ready for WALL MOUNTING (except TS models)

DHW PRODUCTION/STORAGE TANKS GEISER INOX - **DOUBLE WALL**

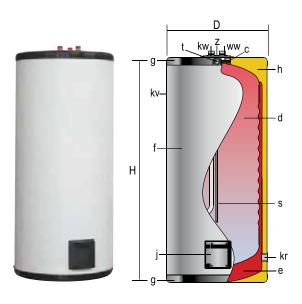
GEISER INOX "S"

DOUBLE-WALL storage tank for the production of DHW by heat exchange between the surrounding tank (primary circuit) and the internal tank (DHW), via an external energy source (boiler, solar panels, heat pump, etc.). Finish: RAL 9016 white external lining and RAL 7021 grey cover. For VERTICAL or HORIZONTAL installation. Designed for wall mounting, up to GX6 S190 model.

EQUIPMENT:

DHW thermometer on top cover. Brackets for wall mounting, up to GX6 S190 model.





- c inspection hole d - DHW tank
- d DHW tank
 e heating chamber
- f external lining
- g cover
- h thermal insulation

j - side hole

s - probe tube for sensors

t - thermometer

Total capacityI.82130191256365608DHW capacityI.60100150200300500Primary HW capacityI.2230415665108D: external diametermm.480480620620620770H: overall heightmm.7501155985124017251730kw: cold water inlet / drain"GAS/M3/43/43/411ww: DHW outlet"GAS/M3/43/43/411z: Recirculation"GAS/M3/43/43/411kv: primary input"GAS/F11111kr: primary return"GAS/F11111Heat exchange surfacem²0.81,21,21,62,43	GENERAL CHARACTERISTICS		GX6 S90	GX6 S130	GX6 S190	GX6 S260	GX6 S400	GX6 S600
H: overall height mm. 750 1155 985 1240 1725 1730 kw: cold water inlet / drain " GAS/M 3/4 3/4 3/4 3/4 1 1 ww: DHW outlet " GAS/M 3/4 3/4 3/4 3/4 1 1 z: Recirculation " GAS/M 3/4 3/4 3/4 3/4 1 1 kv: primary input " GAS/F 1 1 1 1 1 1/2 kr: primary return " GAS/F 1 1 1 1 1/2 1/2 Heat exchange surface m ² 0,8 1,2 1,2 1,6 2,4 3	DHW capacity	l.	60	100	150	200	300	500
ww: DHW outlet " GAS/M 3/4 3/4 3/4 3/4 1 1 z: Recirculation " GAS/M 3/4 3/4 3/4 3/4 1 1 kv: primary input " GAS/F 1 1 1 1 1 1 kr: primary return " GAS/F 1 1 1 1 1 1 Heat exchange surface m ² 0,8 1,2 1,2 1,6 2,4 3								
kr: primary return " GAS/F 1 1 1 1 1 1/2 Heat exchange surface m ² 0,8 1,2 1,2 1,6 2,4 3	ww: DHW outlet	" GAS/M	3/4	3/4	3/4	3/4	1	1 1 1
	kr: primary return	" GAS/F	1 1	1 1	I	1 1	1 1	1 1/2
Empty weight (approx.) Kg 34 50 63 76 105 149	Heat exchange surface Empty weight (approx.)	m² Kg	0,8 34	1,2 50	1,2 63	1,6 76	2,4 105	3 149

DHW PRODUCTION/STORAGE TANKS GEISER INOX - **DOUBLE WALL**

lapesa

GEISER INOX "TS"

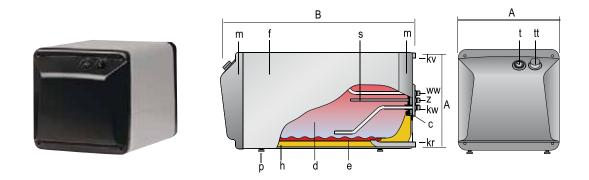
DOUBLE-WALL storage tank for the production of DHW by heat exchange between the surrounding tank (primary circuit) and the internal tank (DHW), via an external energy source (boiler, solar panels, heat pump, etc.). Specifically designed for **HORIZONTAL INSTALLATION**. Finish: RAL 9016 white external lining and black covers.

Able to withstand the weight of a boiler of up to 700 kg on top.

EQUIPMENT:

Thermometer & DHW regulation thermostat on front cover.





GENERAL CHARACTERISTICS		GX6 TS180	GX6 TS240
Total capacity	l.	175	233
DHW capacity	l.	150	200
Primary HW capacity	l.	25	33
A: heigth / width	mm.	630	630
B: length	mm.	1.000	1.225
kw: cold water inlet / drain ww: DHW outlet z: recirculation kv: primary input kr: primary return	" GAS/M " GAS/M " GAS/M " GAS/F " GAS/F	3/4 3/4 1 1	3/4 3/4 3/4 1 1
Heat exchange surface	m²	1,2	1,6
Empty weight (approx.)	Kg	66	85

c - inspection hole

d - DHW tank

e - heating chamber

f - external lining h - thermal insulation

m - side covers

p - leveling feet

- s probe tube for sensors
- t thermometer
- tt thermostat





DHW PRODUCTION/STORAGE TANKS GEISER INOX - **DOUBLE WALL**

GEISER INOX "D"

DOUBLE-WALL storage tank tank for the production of DHW by means of heat exchange between the surrounding tank (primary circuit) and the internal tank (DHW), via an external energy source (boiler, solar panels, heat pump, etc.). Equipped with side hole in primary circuit for **optional incorporation of electric heating element**. Finish: RAL 9016 white external lining and RAL 7021 grey cover. For VERTICAL or HORIZONTAL installation (under request, see page 18)

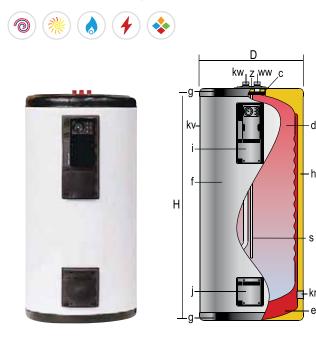
(except TS models)

Designed for wall mounting, up to GX6 D190 model.

EQUIPMENT:

"K" control panel, wired and mounted, with thermometer, dual safety and control thermostat, winter-summer switch and LEDs.

OPTIONAL: "KP1" control panel with analog time switch for electric heating. Brackets for wall mounting, up to model GX6 D190.



- c inspection hole
- d DHW tank
- e heating chamber f - external lining
- g cover
- h thermal insulation
- i control panel
- j side hole
- s probe tube for sensors
- t thermometer

GENERAL CHARACTERISTICS		GX6 D90	GX6 D130	GX6 D190	GX6 D260	GX6 D400	GX6 D600
Total capacity	l.	82	130	191	256	365	608
DHW capacity	l.	60	100	150	200	300	500
Primary HW capacity	l.	22	30	41	56	65	108
D: external diameter	mm.	480	480	620	620	620	770
H: overall height	mm.	750	1155	985	1240	1725	1730
kw: cold water inlet / drain	" GAS/M	3/4	3/4	3/4	3/4	1	1
ww: DHW outlet	" GAS/M	3/4	3/4	3/4	3/4	1	1
z: Recirculation	" GAS/M	3/4	3/4	3/4	3/4	1	1
kv: primary input	" GAS/F	1	1	1	1	1	1 1/2
kr: primary return	" GAS/F	1	1	1	1	1	1 1/2
Heat exchange surface	m ²	0,8	1,2	1,2	1,6	2,4	3
Control panel	model	K	K	K	K	K	K
Empty weight (approx.)	Kg	36	52	65	78	107	151

DHW PRODUCTION/STORAGE TANKS **GEISER INOX - DOUBLE WALL**

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GEISER INOX "DE"

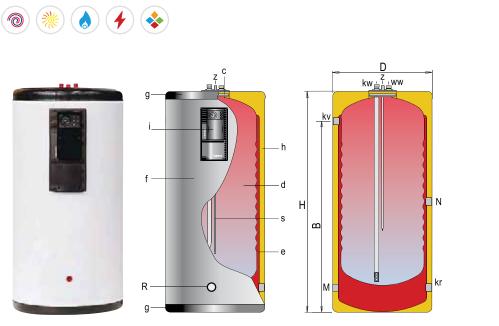
DOUBLE-WALL storage tank for the production of DHW by means of heat exchange between the surrounding tank (primary circuit) and the internal tank (DHW), via an external energy source (boiler, solar panels, heat pump, etc.). Equipped with side threaded connection in primary circuit for optional incorporation of an "RI"-type THREADED electric heating element.

Finish: RAL 9016 white external lining and RAL 7021 grey cover. For VERTICAL installation.

EQUIPMENT:

"K" control panel, wired and mounted, with thermometer, dual safety and control thermostat, winter-summer switch and LEDs.

OPTIONAL: "KP1" control panel with analog time switch for electric heating.



c - Top inspection hole

- d DHW tank
- e Heating chamber
- f Outer lining g - Cover
- h Thermal insulation i - Control panel
- s Probe tube for sensors

GENERAL CHARACTERISTICS		GX6 DE140	GX6 DE180	GX6 DE215	GX6 DE260	GX6 DE400	GX6 DE600	GX6 DE1000
Total capacity DHW capacity Primary HW capacity	I. I. I.	138 92 46	176 127 49	214 161 53	252 196 56	355 265 90	574 433 141	955 712 243
D: external diameter H: overall height	mm. mm.	560 1030	560 1280	560 1530	560 1780	620 1725	770 1730	950* 2250
kw: cold water inlet / drain ww: DHW outlet z: Recirculation kv: primary input kr: primary return R: connection for electric heating element N: primary side connection M: primary side connection	" GAS/M " GAS/M " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F	3/4 3/4 1 1 2 - 1	3/4 3/4 1 1 2 1 1	3/4 3/4 1 1 2 1 1	3/4 3/4 1 1 2 1 1	1 1 1 1/2 1 1/2 2 1 1/2 1 1/2 1 1/2	1 1 1 1/2 1 1/2 2 1 1/2 1 1/2 1 1/2	1 1 1 1/2 1 1/2 2 - 1 1/2
Heat exchange surface	m²	0,9	1,2	1,6	1,9	2,2	2,8	4
Control panel	model	К	K	К	К	K	К	К
Empty weight (approx.)	Kg	50	67	90	97	106	150	239

(*) Insulation system allows passing through 800 mm wide doors.



DHW PRODUCTION/STORAGE TANKS GEISER INOX - **DOUBLE WALL**

GEISER INOX "DEC"

DOUBLE-WALL storage tank for the production of DHW by means of heat exchange between the surrounding tank (primary circuit) and the internal tank (DHW), via an external energy source (boiler, solar panels, heat pump, etc.).

Equipped with side hole in primary circuit, with **factory-mounted** electric heating element.

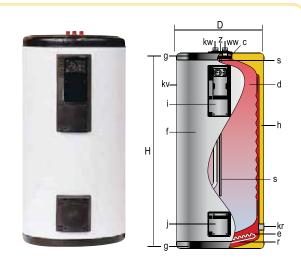
Finish: RAL 9016 white external lining and RAL 7021 grey cover.

EQUIPMENT:

Full electric heating unit, factory-mounted and wired, comprising electric heating element and "K" control panel, with thermometer, dual safety and control thermostat, winter-summer switch and LEDs.

Brackets for wall mounting, up to model GX6 DEC190. OPTIONAL: "KP1" control panel with analog time switch for electric heating.





c - Inspection hole d - DHW tank e - Heating chamber f - External lining g - Cover h - Thermal insulation i - Control panel

j - Side hole

s - Probe tube for sensors r - Electric heating element

GENERAL CHARACTERISTICS		GX6 DEC90	GX6 DEC130	GX6 DEC190	GX6 DEC260	GX6 DEC400	GX6 DEC600
Total capacity DHW capacity Primary HW capacity	l. l. l.	82 60 22	130 100 30	191 150 41	256 200 56	365 300 65	608 500 108
D: external diameter H: overall height	mm. mm.	480 750	480 1155	620 985	620 1240	620 1725	770 1730
kw: cold water inlet / drain ww: DHW outlet z: Recirculation kv: primary input kr: primary return	" GAS/M " GAS/M " GAS/M " GAS/F " GAS/F	3/4 3/4 3/4 1 1	3/4 3/4 3/4 1 1	3/4 3/4 3/4 1 1	3/4 3/4 3/4 1 1	1 1 1 1	1 1 1 1/2 1 1/2
Heat exchange surface	m²	0,8	1,2	1,2	1,6	2,4	3
Control panel	model	К	K	K	К	K	K
Electric heating element (factory mounted)	kW	1,5	2,2	2,2	2,5	2,5	4,5
Empty weight (approx.)	Кд	37	53	67	80	109	153

WALL INSTALLATION: Double wall "GEISER INOX" models up to 190 litres total capacity can be WALL-MOUNTED. The necessary anchors are supplied with the tanks (see installation and mounting instructions).

VERTICAL POSITION: All double wall "GEISER INOX" tanks are supplied ready to be installed in VERTICAL position, with the hydraulic connections of their inner (DHW) tank on the top flange.

HORIZONTAL POSITION*: All double wall "GEISER INOX" tanks can be installed in HORIZONTAL position (except "DE), with a special plate for the hydraulic connections of the inner (DHW) tank mounted on factory upon request. The specific type of horizontal installation must be chosen, either "HORIZONTAL LEFT" or "HORIZONTAL RIGHT", according

to the position of the hydraulic connections of the inner (DHW) tank. 2 + 2

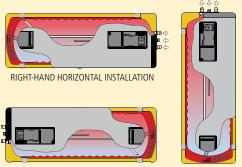
ELECTRIC HEATING IN HORIZONTAL INSTALLATION:

The electric heating elements for HORIZONTAL installation must be ordered specifically according to the tank orientation:

- Electric heating element RC..I for horizontal left tank orientation.
- Electric heating element RC..D for horizontal right tank orientation.

For VERTICAL installations, both types of electric heating elements are valid.

*If the decision for installing a tank in horizontal position occurs after the reception of a standard model, a specific KIT of "plate with DHW hydraulic connections for horizontal installation" can be supplied, and installed in tank on site.



LEFT-HAND HORIZONTAL INSTALLATION

VERTICAL INSTALLATION

nothing but advantages!

Models DOUBLE WALL

- STAINLESS STEEL STORAGE TANK
- LARGE DHW PRODUCTION
 CAPACITY
- SELF-CLEANING EFFECT
- ANTI-LEGIONELLA DESIGN
- MAXIMUM STORAGE
 CAPACITY
- MAINTENANCE-FREE



lapesa



DHW PRODUCTION/STORAGE TANKS **GEISER INOX - DOUBLE WALL**

GEISER INOX "P"

"DOUBLE-WALL" tanks termed "MULTIFUNCTIONAL" are known as such since several different energy sources can be installed for one single tank. Just like in the previous systems, DHW production is carried out by heat exchange between the primary (external) circuit and the DHW (internal) tank via several external energy sources (boiler, solar panels, heat pump, electric heating element, etc.) simultaneously coupled to the tank.

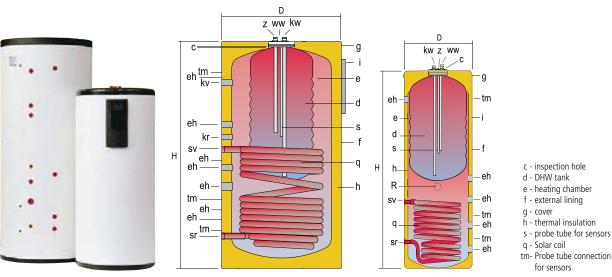
These tanks have a large capacity primary circuit that acts as a thermal inertia buffer (for solid fuel or biomass boilers and/ or heat pump), which houses a coil with a large heat exchange surface, specially designed for solar energy. Tanks for VERTICAL installation on floor.

The P800 and P1000 models incorporate an insulation system, which allows pass through doors of 800 mm. wide. Finish: RAL 9016 white external lining and RAL 7021 grey cover.

EQUIPMENT:

"S" panel with DHW thermometer. OPTIONAL: "K", "KP1", "BC" control panels (see REGULATION AND CONTROL chapter, page: 40)





GX6 P600...P1000

GX6 P300...P400



GENERAL CHARACTERISTICS		GX6 P300	GX6 P400	GX6 P600	GX6 P800	GX6 P1000
Total capacity	l.	244	341	605	770	970
DHW capacity	I.	116	147	215	200	250
Primary HW capacity	I.	128	194	390	570	720
D: external diameter	mm.	560	620	770	950	950
H: overall height	mm.	1770	1725	1730	1840	2250
kw: cold water inlet / drain ww: DHW outlet z: DHW recirculation kv: primary input kr: primary return sv: coil inlet sv: coil return eh: side connection R: electric element connection	" GAS/M " GAS/M " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F	3/4 3/4 - - 1 1 1 1 1/4 2	3/4 3/4 - 1 1 1 1/4 2	3/4 3/4 1 1/4 1 1/4 1 1 1 1 1/4 2	3/4 3/4 1 1/4 1 1/4 1 1 1 1 1/4 2	3/4 3/4 1 1/4 1 1/4 1 1 1 1 1/4 2
Heat exchange surface	m²	1,7	1,8	2,4	2,7	2,7
Control panel	model	S	S	S	S	S
Empty weight (approx.)	Kg	88	127	185	245	290

DHW PRODUCTION/STORAGE TANKS GEISER INOX - **DOUBLE WALL**



GEISER INOX "PAC"

"DOUBLE WALL" tanks specifically designed for the application of **RENEWABLE ENERGIES** (installation with heat pump, solid fuel or biomass boilers).

These tanks have a large capacity primary circuit that acts as an inertia buffer, combining both functions **-inertia buffer and DHW tank-.**

Just like the previous systems, DHW production is carried out by heat exchange between the primary circuit (external) tank and the DHW (internal) tank.

Tanks for VERTICAL installation on floor.

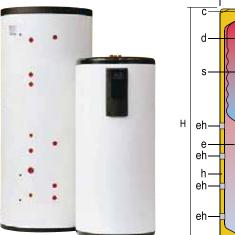
Ready to incorporate an electric heating element.

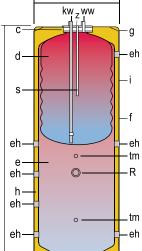
The PAC800 and PAC1000 models incorporate an insulation system, which allows pass through doors of 800 mm. wide. Finish: RAL 9016 white external lining and RAL 7021 grey cover.

EQUIPMENT:

"S" panel with DHW thermometer. Optional: "K", "KP1", "BC" control panels (see REGULATION AND CONTROL chapter, page: 40)







D

c - inspection hole

d - DHW tank e - heating chamber

f - external lining

g - cover

h - thermal insulation i - control panel

s - probe tube for sensors

tm- connection for sensors

probe tube

5 770	970
7 200 8 570	250 720
	950 2250
4 3/4 4 3/4 /4 1 1/4	3/4 3/4 3/4 1 1/4 2
-	S 262
77 73 3/- 3/- 3/- 1/- 2 S	70 950 730 1840 3/4 3/4 3/4 3/4 3/4 3/4 1/4 1 1/4 2 2



STORAGE models, energy savings!

Designed to provide maximum energy storage capacity, with overdimensioned rigid, mould-injected PU thermal insulation, these models maintain the DHW storage temperature for a long time without the need for any additional energy input, affording users continued savings throughout the storage tank's service life.

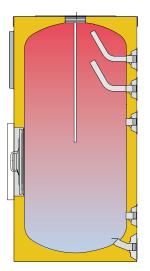
STORAGE TANKS: Designed to provide an extraordinary storage capacity that translates directly into real savings.

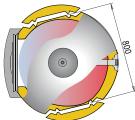
The overdimensioned, rigid, mould-injected PU thermal insulation maintains the DHW storage temperature over long periods of time without requiring additional energy input. This means less start-ups and adjustments of external energy sources, which in turn translates into less energy consumption.

Storage tanks without their own heat exchange system, designed for the installation of plate heat exchangers and/or electric immersion elements as the heating source.



DHW PRODUCTION/STORAGE TANKS GEISER INOX - **STORAGE**





Detail of pre-cut insulation on 800 and 1000 litre tanks allowing access through 800 mm wide doors.

LONG-LASTING PRODUCT: Nickel-chromium-molybdenum STAINLESS STEEL DHW storage tank, highly resistant to pitting caused by halogen elements such as chlorine in drinking water. This is the material used to manufacture all of the mo-

dels in our "GEISER INOX" series.

EASY TO MAINTAIN: With access to tank interior through side and top holes, for inspection and cleaning. Models RB, with a ND400 manhole on the side of the tank.

EASY TO INSTALL: Their dimensions facilitate access to enclosed spaces (even the models with capacities greater than 800 litres), with a detachable system for the insulation on the two opposite sides of the tank, allowing access through 800 mm wide entrances.

ELECTRIC HEATING: Ready for installation with Incoloy, low charge density electric immersion elements or with ceramic heating elements (see ELECTRIC HEATING chapter, page: 38).

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mouldinjected insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 41).

Lapesa storage tanks have minimal heat losses and are thus considered to be one of the products with the greatest storage capacity on the market.





FEATURES COMMON TO ALL "GEISER INOX STORAGE" MODELS:

- DHW storage tanks in AISI 316 L stainless steel
- Capacities: 200, 300, 500, 800 and 1000 litres
- Maximum working pressure of DHW storage tank: 8 bar (10 bar optional)
- Maximum working temperature of DHW storage tank: 90 °C
- Thermal insulation: Rigid, mould-injected PU (CFC/HCFC-free, 0.025 W/m°K)
- Tanks for VERTICAL installation on floor.

DHW PRODUCTION/STORAGE TANKS GEISER INOX - **STORAGE**

GEISER INOX "R"

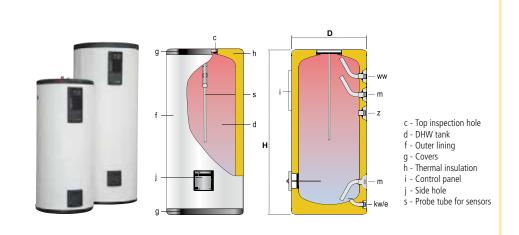
Tanks for **DHW STORAGE.** DHW production is by means of an external heat exchange system (plate heat

exchanger). They can be fitted with immersion electric elements or ceramic electric elements. Tanks of more than 800 litre capacities include an insulation system that allows them to pass through 800 mm wide doors.

Finish: RAL 9016 white external lining and RAL 7021 grey cover.

EQUIPMENT: control panel "S" with thermometer.





GENERAL CHARACTERIS	STICS	GX-200-R	GX-300-R	GX-500-R	GX-800-R	GX-1000-R
Total capacity	I.	200	300	500	800	1000
D: external diameter H: overall height	mm. mm.	620 1205	620 1685	770 1690	950 1840	950 2250
kw: cold water inlet / drain ww: DHW outlet z: recirculation m: plate exchanger connection	" GAS/M " GAS/M " GAS/M " GAS/M	1 1 1/4" 1 1/4" 1 1/4"	1 1 1/4" 1 1/4" 1 1/4"	1 1 1/4" 1 1/4" 1 1/4"	1 1/4" 1 1/2" 1 1/2" 1 1/2"	1 1/4" 1 1/2" 1 1/2" 1 1/2"
Empty weight (approx.)	Kg	50	64	102	147	170

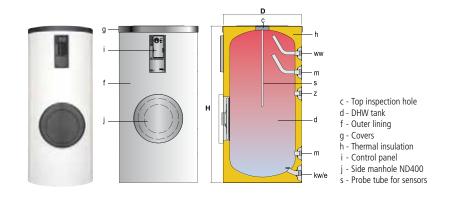
GEISER INOX "RB" -

Tanks for **DHW STORAGE.** DHW production is by means of an external heat exchange system (plate heat exchanger).

The "RB" models include a ND 400 side manhole. They can be fitted with immersion electric elements or ceramic electric elements. The 800 and 1000 litre capacity tanks include an insulation system that allows them to pass through 800 mm wide doors. Finish: RAL 9016 white external lining and RAL 7021 grey cover.

EQUIPMENT: control panel "S" with thermometer





GENERAL CHARACTERIS	TICS	GX-800-RB	GX-1000-RB
Total capacity	l.	800	1000
D: external diameter H: overall height	mm. mm.	950 1840	950 2250
kw: cold water inlet / drain ww: DHW outlet z: recirculation m: plate exchanger connection	" GAS/M " GAS/M " GAS/M " GAS/M	1 1/4" 1 1/2" 1 1/2" 1 1/2"	1 1/4" 1 1/2" 1 1/2" 1 1/2"
Side manhole	mm.	ND400	ND400
Empty weight (approx.)	Kg	178	201

Availability of all the necessary hot water at the lowest energy cost.

apesa Solutions CONVENIENCE AND SAVINGS.



Models with COIL, production and efficiency!

Tanks with high-efficiency, internal heat exchange coils for high DWH production demands at peak flow. Their overdimensioned, rigid, mould-injected PU thermal insulation maintains DHW storage temperature for long periods without the need for any additional energy input, providing users with continued savings throughout the life of the storage tank.



STORAGE TANKS WITH COIL:

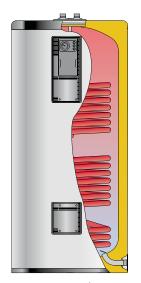
Tanks with high-efficiency, internal heat exchange coils for high DWH production demands at peak flow.

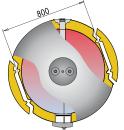
Models with one or two coils for the production of DHW using one or two energy sources, with the option of adding backup electric heating elements.

Overdimensioned, rigid, mouldinjected PU thermal insulation maintains the DHW storage temperature over long periods of time without requiring additional energy input. This means less start-ups and adjustments of external energy sources, which translates into energy savings.

DHW PRODUCTION/STORAGE TANKS GEISER INOX - **COIL**







Detail of pre-cut insulation on 800 and 1000 litre tanks to allow access through 800 mm wide doors.

LONG-LASTING PRODUCT: Nickel-chromium-molybdenum STAIN-LESS STEEL DHW storage tank, highly resistant to pitting caused by

halogen elements such as chlorine in drinking water. This is the material used to manufacture all of the models in our "GEISER INOX" series.

ANTI-LEGIONELLA DESIGN: The shape of the heat exchange coil is ideal for heating the lowest zone of the storage tank, preventing cold zones and thus the proliferation of bacteria such as Legionella.

EASY TO MAINTAIN: With access to tank interior through side and top holes, for inspection and cleaning.

In models with capacities of more than 800 litres there is a ND400 manhole on the side of the tank.

EASY TO INSTALL: Their dimensions facilitate access to enclosed spaces (even models with capacities greater than 800 litres), with a detachable system for insulation on the two opposite sides of the tank, allowing access through 800 mm wide entrances.

ELECTRIC HEATING: Ready for installation with Incoloy, low charge density electric immersion elements or with ceramic heating elements (see ELECTRIC HEATING chapter, page: 38).

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mould-injected insulation that minimizes heat losses of stored DHW (see DHW PRO-DUCTION chapter, page: 32).

"Exchange capacity and heat efficiency", for installations with high demands of domestic hot water production, with the best response capacity.





FEATURES COMMON TO ALL "GEISER INOX COIL" MODELS:

- DHW storage tanks in AISI 316 L stainless steel
- Capacities: 200, 300, 500, 800 and 1000 litres
- Maximum working pressure of DHW storage tank: 8 bar (10 bar optional)
- Maximum working pressure of coil/s: 25 bar
- Maximum working temperature of DHW storage tank: 90 °C
- Maximum working temperature of coil/s: 200 °C
- Thermal insulation: Rigid, mould-injected PU (CFC/HCFC-free, 0.025 W/m°K)
- Tanks for VERTICAL installation on floor (except TSM models, only HORIZONTAL).

DHW PRODUCTION/STORAGE TANKS GEISER INOX - COIL

GEISER INOX "M1"

Storage tanks with **"ONE COIL"** for the production of DHW using an external energy source (boiler, solar panels, heat pump, etc.).

They can be fitted with immersion electric elements or ceramic electric elements (See ELECTRIC HEATING chapter, page: 38). 800 and 1000 l. tank models, include an insulation system that allows them to pass through 800 mm wide doors.

Tank models M1B include a ND400 side manhole.

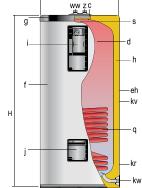
Finish: RAL 9016 white external lining and RAL 7021 grey cover.

EQUIPMENT:

Side control panel with "ST" thermometer and control thermostat (except GX-150-M1).







D

c - Top inspection hole d - DHW tank f - Outer lining

g - Cover h - Thermal insulation i - Control panel

G

GENERAL CHARACTER	RISTICS	GX-150-M1	GX-200-M1	GX-300-M1	GX-500-M1	GX-800-M1	GX-1000-M1	GX-800-M1B	GX-1000-M1B
DHW capacity	l.	150	200	300	500	800	1000	800	1000
D: external diameter H: overall height	mm. mm.	560 1265	620 1205	620 1685	770 1690	950 1840	950 2250	950 1840	950 2250
kw: cold water inlet / drain ww: DHW outlet z: recirculation eh: side connection kv: primary input kr: primary return	" GAS/M " GAS/M " GAS/M " GAS/M " GAS/M " GAS/M	1 1 - 3/4 3/4	1 1 1 1/2 1 1	1 1 1 1/2 1 1	1 1 1 1/2 1 1	1 1/4 1 1/2 1 1/2 1 1/2 1 1 1			
Heating coil surface Empty weight (approx.)	m² Kg	0,8 44	1,1 60	1,4 85	1,8 117	2,8 164	3,4 189	2,8 195	3,4 220

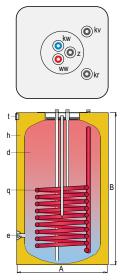
NOTE: Models M1B, with side manhole ND400

GEISER INOX "TSC" NEW

Storage tank with **"ONE COIL"** for the production of DHW using an external energy source (boiler, solar panels, heat pump, etc.). All the connections are placed at the top of the tank Finishing with external lining and top cover in white color RAL 9016

EQUIPMENT: Thermometer in top cover.





GENERAL CHARACTE	GX-100-TSC	GX-150-TSC	
DHW capacity	l.	102	148
D: external diameter	mm.	510	510
H: overall height	mm.	870	1210
kw: cold water inlet / drain	" GAS/M	3/4	3/4
ww: DHW outlet	" GAS/M	3/4	3/4
z: recirculation DHW	" GAS/M	3/4	3/4
kv: primary input	" GAS/M	3/4	3/4
kr: primary return	" GAS/M	3/4	3/4
e: drain	" GAS/F	1/2	1/2
Heating coil surface	m²	0,7	1,3
Empty weight (approx.)	Kg	35	47

j - Side hole q - Heating coil s - Probe tube for sensors

DHW PRODUCTION/STORAGE TANKS GEISER INOX - **COIL**

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GEISER INOX "TSM"

Storage tanks with **"ONE COIL"** for the production of DHW using combined external energy sources (boiler, solar panels, heat pump, etc.).

Specifically designed for HORIZONTAL INSTALLATION, a boiler of up to 700 Kg can be installed on top.

EQUIPMENT: thermometer and DHW control thermostat on front cover.

, E	3		A
		m z kv kw kw	
		d - DHV f - Oute m- Side h - Ther q - Heat s - Prob p - Leve	r lining covers mal insulation cing coil e tube for sensors ling feet mometer

GENERAL CHARACTERISTICS		GX-150-TSM	GX-200-TSM
DHW capacity	l.	150	200
A: Height / width B: Length	mm. mm.	630 1000	630 1255
kw: cold water inlet / drain ww: DHW outlet z: recirculation kv: primary input kr: primary return	" GAS/M " GAS/M " GAS/M " GAS/M " GAS/M	3/4 3/4 3/4 3/4 3/4	3/4 3/4 3/4 3/4 3/4
Heating coil surface	m ²	0,7	0,9
Empty weight (approx.)	Kg	51	70

GEISER INOX "M2"

Storage tanks with **"TWO COILS"** for the production of DHW using combined external energy sources (boiler, solar panels, heat pump, etc.).

They can be fitted with immersion electric elements or ceramic electric elements (See ELECTRIC HEATING chapter, page: 38). 800 and 1000 I. tank models, include an insulation system that

allows them to pass through 800 mm wide doors. Tank models M2B include a ND400 side manhole.

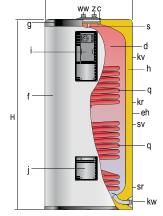
Finish: RAL 9016 white external lining and RAL 7021 grey cover.

EOUIPMENT:

Side control panel with "ST" thermometer and control thermostat.







D

c - Top inspection hole d - DHW tank

f - Outer lining

g - Cover h - Thermal insulation

GENERAL CHARACTERIST	ICS	GX-300-M2	GX-400-M2	GX-500-M2	GX-800-M2	GX-1000-M2	GX-800-M2B	GX-1000-M2B
DHW capacity	l.	300	400	500	800	1000	800	1000
D: external diameter H: overall height	mm. mm.	620 1685	770 1525	770 1690	950 1840	950 2250	950 1840	950 2250
kw: cold water inlet / drain ww: DHW outlet z: recirculation eh: side connection kv, kr: upper coil connections sv, sr: lower coil connections	" GAS/M " GAS/M " GAS/M " GAS/M " GAS/M " GAS/M	1 1 1 1/2 1 1	1 1 1 1/2 1 1	1 1 1 1/2 1 1	1 1/4 1 1/2 1 1/2 1 1/2 1 1 1	1 1/4 1 1/2 1 1/2 1 1/2 1 1 1	1 1/4 1 1/2 1 1/2 1 1/2 1 1/2 1 1	1 1/4 1 1/2 1 1/2 1 1/2 1 1 1
Upper coil heating surface Lower coil heating surface Empty weight (approx.)	m² m² Kg	1,1 1,4 93	0,9 1,8 120	1,2 1,8 126	1,3 2,8 175	1,3 3,4 200	1,3 2,8 206	1,3 3,4 231

NOTE: M2B models, with side manhole ND400

i - Control panel j - Side hole q - Heating coil

s - Probe tube for sensors

DHW PRODUCTION/STORAGE TANKS GEISER INOX - COIL

GEISER INOX "HL"

Storage tanks with **HIGH PERFORMANCE COIL**, with high thermal exchange surface, for the production of DHW using combined external energy sources (boiler, solar panels, heat pump, etc.).

They can be fitted with immersion electric elements (See ELECTRIC HEATING chapter, page: 38).

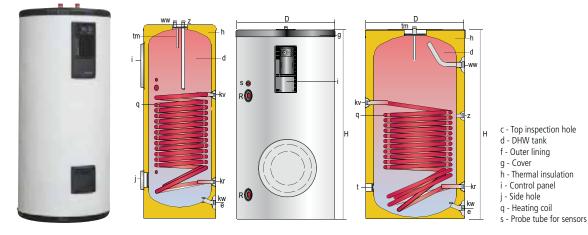
Tank models of 800 L or higher, include a ND400 side manhole and an insulation system that allows them to pass through 800 mm wide doors.

Finish: RAL 9016 white external lining and RAL 7021 grey cover.

EQUIPMENT:

Models "HLB" with side manhole ND400. Side control panel with thermometer.





GENERAL CHARACTERISTIC	CS	GX-200-HL	GX-300-HL	GX-500-HL	GX-800-HLB	GX-1000-HLB
DHW capacity	l.	200	300	500	800	1000
D: external diameter	mm.	620	620	770	950	950
H: overall height	mm.	1205	1685	1690	1840	2250
kw: cold water inlet / drain	" GAS/M	1	1	1	1 1/4	1 1/4
ww: DHW outlet	" GAS/M	1	1	1	1 1/2	1 1/2
z: recirculation	" GAS/M	1	1	1	1 1/2	1 1/2
eh: side connection	" GAS/M	2	2	2	2	2
kv: primary input	" GAS/M	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
kr: primary return	" GAS/M	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Heating coil surface	m ²	2,4	3,1	4,8	5,7	6,4
Empty weight (approx.)	Kg	63	83	120	221	258

NOTE: HLB models, with side manhole ND400

DHW PRODUCTION/STORAGE TANKS GEISER INOX - STAINLESS STEEL

lapesa

LONG-LASTING PRODUCT:

Nickel-chromium-molybdenum STAINLESS STEEL DHW storage tank,

highly resistant to pitting caused by halogen elements such as chlorine in drinking water. This is the material used to manufacture all of the models in our "GEISER INOX" series.

HYGIENIC MATERIAL:

Easy to clean, allows the use of strong washing and disinfecting methods (e.g. anti-legionella treatment). In DHW tanks made of stainless steel there is no accumulation of residues from sacrificial anodes because the tanks do not require cathodic protection in normal working conditions.

FOOD GRADE:

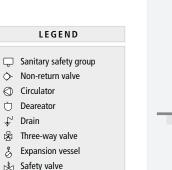
Stainless steel is a non-toxic material that is commonly used in the food industry. In hygiene tests it is on a par with glass and porcelain and is thus considered ideal for use in the manufacture of tanks intended for the production and storage of domestic hot water.

🖝 ANTI LEGIONELLA DESIGN:

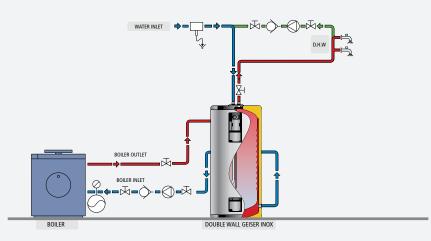
The surround heating of DHW produces a uniform water storage temperature throughout the whole of the tank, avoiding cold zones and allowing to use the full capacity of the tank. In models equipped with heat exchange coil, the stored water is heated from the lowest zone of the tank, therefore hot water can be stored in the complete tank volume.

EFFECTIVE SAVING:

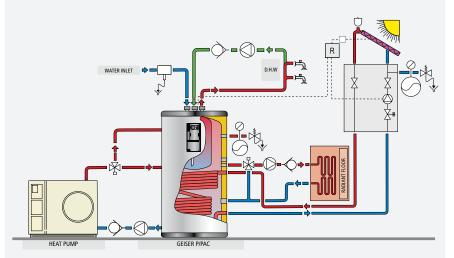
Rigid, mould-injected PU thermal insulation maintains the DHW storage temperature over long periods of time, therefore reducing heat losses. Tanks adapted to requirements of ErP Directive.



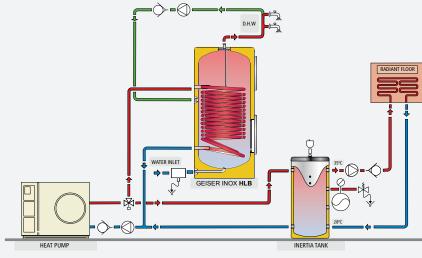
EXAMPLES OF INSTALLATION "GEISER INOX"



EXAMPLE OF INSTALLATION: DOUBLE WALL GEISER INOX



EXAMPLE OF INSTALLATION: GEISER INOX P/PAC



EXAMPLE OF INSTALLATION: GEISER INOX HL/HLB

DHW PRODUCTION - GEISER INOX

Link (m,n) Link (m,n) <thlink (m,n)<="" th=""> Link (m,n) Link (m,</thlink>		PRIMARY INPUT TEMPERATURE °C		5	5 °C	70 °C		8	0 °C	90 °C	
View of the section of the s		tank model		ĸw	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)	ĸw	DHW (l/h)
CX6 SID/DEC 190 3 0 2.1 2.2 9.1 30 7.8 7.8 CX6 SID/DEC 190 3 9 2.1 2.0 4.42 2.7 6.61 33 8.81 CX6 SID/DEC 200 3 1 2.71 2.0 6.51 33 8.82 4.43 7.86 8.81 CX6 SID/DEC 200 2 11 2.71 2.0 6.51 33 8.82 4.41 1080 CX6 SID/DEC 200 2 11 2.71 2.9 6.61 33 8.82 4.41 1080 CX6 SID/DEC 400 4 19 4.64 38 9.35 1000 53 11020 CX6 SID/DEC 600 2 2.0 9.01 2.1 107 4.66 2.9 2.00 2.0 2.00 2.0 2.00 2.0 2.00 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 <t< td=""><td></td><td></td><td>2</td><td>5</td><td>123</td><td>11</td><td>271</td><td>14</td><td>344</td><td>18</td><td>443</td></t<>			2	5	123	11	271	14	344	18	443
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GX-1000-M2** 4 18 443 38 935 50 1230 61 1501 6 20 492 42 1033 56 1378 68 1673 GX-150-TSM 2 9 221 19 468 25 615 32 787 GX-150-TSM 4 10 246 22 541 30 738 37 910 6 11 271 24 591 32 787 41 1009 6 11 271 24 591 31 763 39 960 GX-200-TSM 4 14 344 30 738 38 935 47 1157	low										
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GX-1000-M2** 4 18 443 38 935 50 1230 61 1501 6 20 492 42 1033 56 1378 68 1673 GX-150-TSM 2 9 221 19 468 25 615 32 787 GX-150-TSM 4 10 246 22 541 30 738 37 910 6 11 271 24 591 32 787 41 1009 6 11 271 24 591 31 763 39 960 GX-200-TSM 4 14 344 30 738 38 935 47 1157	onu										
GX-1000-M2** 4 18 443 38 935 50 1230 61 1501 6 20 492 42 1033 56 1378 68 1673 GX-150-TSM 2 9 221 19 468 25 615 32 787 GX-150-TSM 4 10 246 22 541 30 738 37 910 6 11 271 24 591 32 787 41 1009 6 11 271 24 591 31 763 39 960 GX-200-TSM 4 14 344 30 738 38 935 47 1157	onti	** upper coil									
GX-1000-M2** ** upper coil 4 18 443 38 935 50 1230 61 1501 6 20 492 42 1033 56 1378 68 1673 6 20 492 42 1033 56 1378 68 1673 6 20 492 42 1033 56 1378 68 1673 6 20 221 19 468 25 615 32 787 6 11 271 24 591 32 787 41 1009 6 11 271 24 591 31 763 39 960 6X-200-TSM 4 14 344 30 738 38 935 47 1157	<u>[</u> <u></u>		2	15	369		763	41	1009	50	1230
A C C A A A C C A C <thc< th=""> <thc< th=""> <thc< th=""> <thc< th=""></thc<></thc<></thc<></thc<>			4	18			935	50		61	1501
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2 11 271 24 591 31 763 39 960 GX-200-TSM 4 14 344 30 738 38 935 47 1157		GV-120-121									
GX-200-TSM 4 14 344 30 738 38 935 47 1157											
		GX-200-TSM				30					1157
6 15 369 33 812 42 1033 52 1280			6	15	369	33	812	42	1033	52	1280

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DHW PRODUCTION - GEISER INOX

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	PRIMARY INPUT TEMPI	ERATURE °C	70 °C		8	0 °C	90 °C	
	tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)
60°C]	GX6 S/D/DEC 90	2 3 5	7 8 9	121 138 155	11 12 13	189 207 224	16 17 18	276 293 310
GEISER INOX - DOUBLE WALL [Continuous flow DHW production (liters/hour) 10°C - 60°C]	GX6 S/D/DEC 130	2 3 5	13 14 16	224 241 276	20 21 23	344 362 396	27 29 32	465 500 551
GEISER INOX - DOUBLE WALL ow DHW production (liters/hour)	GX6 S/D/DEC 190	2 3 5	13 15 16	224 258 276	20 22 24	344 379 413	27 29 32	465 500 551
 - DOUE duction (I 	GX6 S/D/DEC 260	2 3 5	18 20 22	310 344 379	27 29 32	465 500 551	35 39 43	603 672 741
SER INOX DHW pro	GX6 S/D/DEC 400	2 4 6	23 27 29	396 465 500	36 42 46	620 723 792	47 55 60	810 947 1033
GEI Dus flow	GX6 S/D/DEC 600	2 4 6	27 32 34	465 551 586	42 48 52	723 827 896	57 66 72	982 1137 1240
[Continue	GX6 TS180	2 3 5	12 13 14	207 224 241	18 20 21	310 344 362	25 27 29	431 465 500
	GX6 TS240	2 3 5	15 16 17	258 276 293	23 25 27	396 431 465	31 33 35	534 568 603
	GX-150-M1	2 3 5	15 17 18	258 293 310	23 25 28	396 431 482	29 32 36	500 551 620
	GX-200-M1	2 3 5	21 24 28	362 413 482	31 35 40	534 603 689	40 45 52	689 775 896
0°C]	GX-300-M1/M2* *lower coil	2 4 6	24 30 33	413 517 568	36 44 49	620 758 844	47 58 65	810 999 1120
10°C - 60°C]	GX-500-M1/M2* * lower coil	2 4 6	30 37 40	517 637 689	44 55 61	758 947 1051	57 70 78	982 1206 1344
oll ers/hour)	GX-800-M1/M2* * lower coil	3 5 8	44 51 58	758 878 999	63 74 83	1085 1275 1430	83 98 112	1430 1688 1929
GEISER INOX - COIL HW production (liters)	GX-1000-M1/M2* * lower coil	3 5 8	57 68 78	982 1171 1344	83 99 115	1430 1705 1981	109 132 153	1878 2274 2635
GEISER II HW produ	GX-300-M2** ** upper coil	2 4 6	18 22 24	310 379 413	30 36 40	517 620 689	38 46 51	655 792 878
Is flow Dh	GX-500-M2** ** upper coil	2 4 6	21 26 29	362 448 500	34 41 45	586 706 775	44 53 59	758 913 1016
GEISER INOX - COIL [Continuous flow DHW production (liters/hour)	GX-800-M2** ** supper coil	2 4 6	21 26 29	362 448 500	34 41 45	586 706 775	44 53 59	758 913 1016
0	GX-1000-M2** ** upper coil	2 4 6	21 26 29	362 448 500	34 41 45	586 706 775	44 53 59	758 913 1016
	GX-150-TSM	2 4 6	13 16 17	224 276 293	20 24 26	344 413 448	27 32 34	465 551 586
	GX-200-TSM	2 4 6	17 21 24	293 362 413	25 30 34	431 517 586	33 40 44	568 689 758

STAINLESS STEEL TANKS

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DHW PRODUCTION - GEISER INOX

	PRIMARY INPUT TEMPERATURE °C		5	5 ℃	7	0 °C	80) °C	9	0 °C
	tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)
	GX6 DE 140	2 4 6	8 10 12	205 250 300	18 21 23	450 500 555	24 28 31	625 700 750	32 36 39	790 880 950
	GX6 DE 180	2 4 6	9 11 13	210 255 305	19 21 23	460 510 560	25 29 31	630 710 750	33 36 40	795 890 960
<mark>•</mark> C - 45°C]	GX6 DE 215	2 4 6	11 13 15	300 320 350	26 30 32	620 720 795	34 41 44	820 995 1090	45 53 56	1105 1300 1390
VALL /hour) 10 ⁶	GX6 DE 260	3 5 8	16 18 19	400 420 440	31 35 38	790 870 925	44 49 51	1070 1180 1270	54 59 65	1305 1405 1600
DOUBLE V tion (liters.	GX6 DE 400	3 5 8	19 20 21	450 495 510	36 41 44	900 1010 1050	50 55 60	1210 1350 1505	61 66 75	1510 1670 1860
GEISER INOX - DOUBLE WALL ow DHW production (liters/hour)	GX6 DE 600	3 5 8	21 22 24	550 580 600	41 45 50	1005 1120 1210	56 61 68	1370 1510 1660	71 81 90	1800 2000 2200
GEISER INOX - DOUBLE WALL [Continuous flow DHW production (liters/hour) 10°C - 45°C]	GX6 DE 1000	2 4 6	25 37 40	625 900 1000	45 58 65	1100 1400 1600	65 85 93	1600 2075 2300	95 118 132	2330 2900 3250
[Continuo	GX6 PAC/P 300	2 4 6	8 10 11	200 245 265	16 19 21	400 455 500	24 26 30	600 650 725	30 35 37	740 860 915
	GX6 PAC/P 400	2 4 6	8 10 11	200 245 265	17 20 22	425 485 545	25 27 32	610 690 775	33 35 40	805 860 980
	GX6 PAC/P 600	2 4 6	9 11 13	240 275 320	22 26 28	545 645 700	29 34 36	735 850 915	40 46 49	985 1150 1210
- 45°C]	GX-200-HL	2 4 6	25 32 35	614 776 872	47 60 69	1145 1484 1688	61 81 92	1511 1987 2272	78 100 114	1909 2473 2810
COIL (J/h) 10°C -	GX-300-HL	2 4 6	30 40 46	749 986 1127	58 76 86	1432 1861 2118	75 98 112	1850 2416 2755	95 126 144	2348 3095 3543
GGEISER INOX - COIL [Continuous flow DHW production (I/h) 10°C - 4	GX-500-HL	2 4 6	39 53 62	969 1314 1519	73 93 105	1786 2293 2595	94 124 141	2317 3040 3470	115 154 178	2829 3795 4371
GGEIS us flow DHM	GX-800-HLB	3 5 8	56 67 78	1383 1660 1919	101 125 148	2479 3076 3635	125 154 181	3080 3791 4457	152 182 211	3728 4478 5181
[Continuo	GX-1000-HLB	3 5 8	58 69 80	1428 1704 1961	106 129 152	2603 3187 3732	131 159 187	3212 3924 4590	158 192 224	3891 4722 5501

DHW PRODUCTION - GEISER INOX

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	PRIMARY INPUT TEMP	erature °C	7	70 °C	80) °C	90 °C		
	tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)	
	GX6 DE 140	2 4 6	12 15 16	205 255 275	20 22 24	345 375 405	26 31 32	455 525 555	
	GX6 DE 180	2 4 6	13 16 17	225 260 275	21 22 24	355 390 415	26 31 33	460 530 555	
C - 60°C]	GX6 DE 215	2 4 6	19 22 24	315 385 410	30 34 36	520 585 605	37 44 47	645 755 810	
VALL /hour) 10 ⁶	GX6 DE 260	3 5 8	22 25 26	345 430 455	34 37 40	600 650 700	45 50 55	760 855 950	
OUBLE V tion (liters	GX6 DE 400	3 5 8	25 28 30	440 490 505	40 44 47	695 750 805	51 57 61	890 1000 1055	
GEISER INOX - DOUBLE WALL [Continuous flow DHW production (liters/hour) 10°C - 60°C]	GX6 DE 600	3 5 8	29 32 35	500 550 600	45 50 55	780 860 910	61 70 76	1070 1200 1300	
GEISE us flow DH	GX6 DE 1000	2 4 6	32 41 46	580 700 800	55 68 75	950 1180 1300	82 105 112	1400 1740 1910	
[Continuo	GX6 PAC/P 300	2 4 6	11 14 15	200 225 250	18 21 23	310 360 385	25 30 32	425 515 550	
	GX6 PAC/P 400	2 4 6	13 15 18	230 255 305	21 24 25	360 395 425	26 31 34	460 525 560	
	GX6 PAC/P 600	2 4 6	14 18 19	250 310 320	24 28 30	400 480 520	31 37 40	530 635 690	
. 60°C]	GX-200-HL	2 4 6	34 43 49	585 745 842	50 81 74	864 65 1279	67 86 97	1155 1478 1671	
COIL (I/h) 10°C -	GX-300-HL	2 4 6	43 55 62	747 945 1065	62 80 90	1072 1377 1556	83 108 123	1434 1858 2114	
GGEISER INOX - COIL [Continuous flow DHW production (I/h) 10°C - 6	GX-500-HL	2 4 6	55 68 76	946 1175 1312	80 101 114	1373 1747 1972	101 133 152	1748 2296 2625	
GGEIS us flow DHM	GX-800-HLB	3 5 8	76 92 107	1303 1586 1844	105 126 147	1801 2175 2532	133 157 180	2292 2707 3100	
[Continuo	GX-1000-HLB	3 5 8	80 95 110	1385 1644 1896	109 131 151	1882 2260 2609	139 166 191	2392 2855 3297	

STAINLESS STEEL TANKS

DHW PRODUCTION - GEISER INOX

GEISER INOX - models DOUBLE WALL - S/D/DE/DEC/P/PAC - (DHW production - peak flow -)

		GX6 S/D/DEC 90	GX6 S/D/DEC 130	GX6 S/D/DEC 190	GX6 S/D/DEC 260	GX6 S/D/DEC 400	GX6 S/D/DEC 600
Peak flow 40°C	L/10'	120	203	315	380	575	900
Peak flow 45°C	L/10'	102	175	270	325	490	770
Peak flow 60°C	L/10'	72	122	190	225	344	539
Peak flow 40°C	L/60'	590	1000	1132	1545	2135	2755
Peak flow 45°C	1/60'	495	840	954	1290	1790	2310
Peak flow 60°C	L/60'	295	515	590	755	1075	1400
Continuous flow 40°C	Ltrs/h	565	960	980	1400	1875	2225
Continuous flow 45°C	Ltrs/h	470	800	820	1160	1560	1850
Continuous flow 60°C	Ltrs/h	265	470	480	635	875	1040
Heating time (from 10 to 75°C)	Min	28	31	45	47	50	56
Primary flow	m³/h	5	5	5	6	6	6

Primary input temperature 85℃

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	GX6 DE140	GX6 DE180	GX6 DE215	GX6 DE260	GX6 DE400	GX6 DE600
Peak flow 40°C L/10'	203	315	475	530	575	900
Peak flow 45°C L/10'	175	270	415	440	490	770
Peak flow 60°C L/10'	122	190	250	265	344	539
Peak flow 40°C L/60'	935	1190	1675	1875	2175	2790
Peak flow 45°C L/60'	785	1000	1415	1565	1820	2345
Peak flow 60°C L/60'	465	605	795	925	1100	1435
Continuous flow 40°C Ltrs/h	880	1050	1440	1620	1920	2270
Continuous flow 45°C Ltrs/h	735	880	1200	1350	1600	1890
Continuous flow 60°C Ltrs/h	415	500	653	790	905	1075
Heating time (from 10 to 75°C) Min	31	41	37	37	50	56
Primary flow m ³ /h	2,6	3,5	4,2	5,5	6,4	7,2
Primary input temperature 85°C						

		GX6 P300	GX6 P400	GX6 P600	GX6 P800	GX6 P1000
Peak flow 40°C	L/10'	251	320	465	433	540
Peak flow 45°C	L/10'	215	275	400	370	465
Peak flow 60°C	L/10'	150	190	280	260	325
Peak flow 40°C	L/60'	965	1080	1360	1495	1875
Peak flow 45°C	L/60'	815	910	1150	1250	1570
Peak flow 60°C	L/60'	500	555	710	785	970
Continuous flow 40°C	Ltrs/h	860	915	1075	1275	1600
Continuous flow 45°C	Ltrs/h	720	760	900	1060	1325
Continuous flow 60°C	Ltrs/h	420	440	520	630	775
Heating time (from 10 to 75°C)	Min	40	48	55	47	48
Primary flow	m³/h	3	3	3	5	5

Primary input temperature 85℃

		GX6 PAC300	GX6 PAC400	GX6 PAC600	GX6 PAC800	GX6 PAC1000	
Peak flow 40°C	L/10'	250	315	600	433	540	
Peak flow 45°C	L/10'	215	270	515	370	465	
Peak flow 60°C	L/10'	150	190	360	260	325	
Peak flow 40°C	L/60'	1050	1165	1650	1495	1875	
Peak flow 45°C	L/60'	880	975	1390	1250	1570	
Peak flow 60°C	L/60'	525	585	870	785	970	
Continuous flow 40°C	Ltrs/h	960	1020	1260	1275	1600	
Continuous flow 45°C	Ltrs/h	800	850	1050	1060	1325	
Continuous flow 60°C	Ltrs/h	450	475	610	630	775	
Heating time (from 10 to 75°C)	Min	40	48	54	47	48	
Primary flow	m³/h	5	5	5	5	5	
Primary input temperature 85°C	-00	Part 10	S 8				

DHW PRODUCTION - GEISER INOX

DOUBLE WALL COIL **GEISER INOX**, DHW production - peak flow -**TS** models **TSM** models GX6 TS180 GX6 TS240 GX-150-TSM GX-200-TSM Peak flow 40°C L/10' 238 320 410 303 Peak flow 45°C L/10' 204 260 275 350 Peak flow 60°C L/10' 143 182 195 245 Peak flow 40°C L/60' 994 1238 1185 1510 Peak flow 45°C 834 995 1270 L/60' 1039 Peak flow 60°C L/60' 505 629 610 775 Continuous flow 40°C 1040 908 1122 1325 Ltrs/h Continuous flow 45°C Ltrs/h 757 935 865 1105 Continuous flow 60°C Ltrs/h 435 537 500 635 Heating time (from 10 to 75°C) Min 44 46 37 42 Primary flow m³/h 5 6 5 6 Primary input temperature 85℃

GEISER INOX - models with COIL - M1/M2/HL - (DHW production - peak flow -)

							•			41-2
		GX-150 M1	GX-200 M1	GX-300 M1	GX-400 M1	GX-500 M1	GX-800 M1	GX-1000 M1	GX-800 M1B	GX-1000 M1B
Peak flow 40°C	L/10'	315	425	600	823	1007	1690	1995	1692	1995
Peak flow 45°C	L/10'	270	364	515	705	863	1450	1710	1450	1710
Peak flow 60°C	L/10'	190	255	360	494	604	1015	1195	1015	1197
Peak flow 40°C	L/60'	1265	1840	2310	2865	3050	4610	5950	4610	5950
Peak flow 45°C	L/60'	1060	1530	1910	2410	2570	3860	5000	3860	5000
Peak flow 60°C	L/60'	645	930	1170	1475	1580	2370	3110	2370	3110
Continuous flow 40°C	Ltrs/h	1140	1700	2050	2450	2450	3500	4750	3500	4750
Continuous flow 45°C	Ltrs/h	950	1400	1675	2050	2050	2900	3950	2900	3950
Continuous flow 60°C	Ltrs/h	550	810	975	1175	1175	1625	2300	1625	2300
Heating time (from 10 to 75°C)	Min	35	37	45	40	50	52	58	52	58
Primary flow	m³/h	5	6	6	6	6	8	8	8	8 🛼
Primary input temperature 85℃									1	

								A	1/3-16-1
LOWER COIL		GX-300 M2	GX-400 M2	GX-500 M2	GX-800 M2	GX-1000 M2	GX-800 M2B	GX-1000 M2B	1
Peak flow 40°C	L/10'	600	823	1007	1692	1995	1692	1995	2.5
Peak flow 45°C	L/10'	515	705	863	1450	1710	1450	1710	100
Peak flow 60°C	L/10'	360	494	604	1015	1197	1015	1197	2:75
Peak flow 40°C	L/60'	2310	2865	3050	4610	5950	4610	5950	1.124.0
Peak flow 45°C	L/60'	1910	2410	2570	3860	5000	3860	5000	Difter
Peak flow 60°C	L/60'	1170	1475	1580	2370	3110	2370	3110	1
Continuous flow 40°C	Ltrs/h	2050	2450	2450	3500	4750	3500	4750	1000
Continuous flow 45°C	Ltrs/h	1675	2050	2050	2900	3950	2900	3950	2020
Continuous flow 60°C	Ltrs/h	975	1175	1175	1625	2300	1625	2300	2-50
Heating time (from 10 to 75°C)	Min	45	40	50	52	58	52	58	1
Primary flow	m³/h	6	6	6	8	8	8	8	3 Qzi
Primary input temperature 85℃						California de	per :		ELS.

						100	0 00 22 2 V
		GX-200 HL	GX-300 HL	GX-500 HL	GX-800 HLB	GX-1000 HLB	51 0E 50
Peak flow 40°C	L/10'	580	800	1200	1770	2115	De C
Peak flow 45°C	L/10'	490	675	1015	1505	1800	DO A BY
Peak flow 60°C	L/10'	320	455	690	1035	1245	Yes a start
Peak flow 40°C	L/60'	3285	4135	5310	6780	7315	1 0 CAP
Peak flow 45°C	L/60'	2695	3395	4375	5590	6040	200 00
Peak flow 60°C	L/60'	1625	2079	2690	3455	3760	Salar Alas
Continuous flow 40°C	Ltrs/h	3115	3850	4790	5890	6170	and a hand
Continuous flow 45°C	Ltrs/h	2540	3150	3920	4820	5045	and a second of the
Continuous flow 60°C	Ltrs/h	1475	1840	2300	2820	2955	5 0 F
Heating time (from 10 to 75°C)	Min	26	32	39	45	54	00 100
Primary flow	m³/h	6	6	6	8	8	0
Primary input temperature 85°C			3	0	14		0

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ELECTRIC HEATING - GEISER INOX

2.2

GEISER INOX "DOUBLE WALL" (models D/DEC)

		AISI 321 flar	ged electric heating elements, specific for primary hea	ting circuit
electric element model	KW	V	installed as standard on tank models	optional application to tank models
	4.5	220		
RC-15/15-D	1,5	230	GX6 DEC90	GX6 D/DEC-90/130
RC-15/15-I	1,5	230		GX6 D/DEC-90/130
RC-16/22-D	2,2	230	GX6 DEC130	GX6 D/DEC-90/130
RC-16/22-I	2,2	230		GX6 D/DEC-90/130
RC-17/22-D	2,2	230	GX6 DEC190	GX6 D/DEC-190/600
RC-17/22-I	2,2	230		GX6 D/DEC-190/600
RC-18/25-D	2,5	230	GX6 DEC260/400	GX6 D/DEC-190/600
RC-18/25-I	2,5	230		GX6 D/DEC-190/600
RC-08/45-D	4,5	230	GX6 DEC600	GX6 D/DEC-600
RC-50D	5,0	400		GX6 D/DEC-600
RC-75D	7,5	400		GX6 D/DEC-600

GEISER INOX "DOUBLE WALL" (models DE/P/PAC)

Threaded immersion electric heating elemens, specific for primary heating circuit.								
electric element model	KW	V	length L*	optional application to tank models				
RI 4/2-22	2,2	3-230 / 3-400	260	GX6 DE-140/1000, GX6 P/PAC-300/1000				
RI 4/2-54	5,4	3-230 / 3-400	345	GX6 DE-140/1000, GX6 P/PAC-300/1000				
RI 4/2-72	7,2	3-230 / 3-400	445	GX6 DE-215/1000, GX6 P/PAC-400/1000				
RI 4/2-90	9,0	3-230 / 3-400	505	GX6 DE-400/1000, GX6 P/PAC-400/1000				
RI 4/2-120	12,0	3-230 / 3-400	680	GX6 DE 600/1000, GX6 P/PAC-600/1000				

GEISER INOX "SINGLE WALL" (STORAGE and COIL tank models)

Backup heating, Incoloy immersion electric heating elements.							
electric element model*	KW	V	length L*	optional application to tank models			
RB-25	2,5	230/400	310	GX-2001000-R/M1/M2			
RB-50	5	230/400	310	GX-2001000-R - GX-4001000-M1/M2			
RB-75	7,5	230/400	440	GX-5001000-R - GX-8001000-M1/M2			
RB-100	10.0	230/400	580	GX-8001000-R			

(*) In GEISER models with Correx-up cathodic protection, please consult options to install electric kit "RB-25/50/75/100" in lateral inspection opening

Ceramic electric heating elements, sheathed in stainless steel plate. Stainless steel plate set + ceramic electric element, for side hole mounting.

electric element model	KW	V		length L*	opt	onal application to tank models		
RCER-12	1,2	230/400		300		GXR/M1/M2		
RCER-15	1,5	230/400		300		GXR/M1/M2		
RCER-20	2,0	230/400		400		GXR/M1/M2		
RCER-24	2,4	230/400		400		GXR/M1/M2		
electric element model	KW	Backup V	heating, Incoloy ir IP	nmersion electric heat thread	ing elements. length L*	optional application to tank models		
RA2/2-15 RA3/2-25 RA3/2-25T(*) RA3/2-50	1,5 2,5 2,5 5,0	230 230 230 230/400	40 40 65 40	1"M 1 1/2"M 1 1/2"M 1 1/2"M	650 540 350 690	GX6 PAC** GX-2001000-M1/M2 GX-2001000-M1/M2 GX-4001000-M1/M2		

(*) Model RA 3/2-25T, incorporates regulation and safety thermostat in an IP65 head. (**) For PAC models, on special upper plate.

GEISER INOX "SINGLE WALL" (800 and 1000 litres STORAGE models "RB", with side manhole ND400)

Incoloy threaded immersion electric heating elements for ND400 side manhole on models GX-800/1000-RB. ND400 stainless steel plate set with 2"F bushings + selected type and number of electric elements. Number of electric elements per plate on side manhole ND400: 3,4,5,6,7 or 8 units.

electric element model	KW	V	IP	thread	length L*	optional application to tank models
RA4/2-60	6,0	230/400	40	2"	797	GX-800/1000-RB
RA4/2-120D	12,0	230/400	40	2"	680	GX-800/1000-RB

Ceramic electric heating elements sheathed in stainless steel plate for ND400 side manhole on models GX-800/1000-RB. Stainless steel plate set with sleeves for ceramic electric elements + selected number of electric elements. Number of electric elements per plate on side manhole ND400: 3,4,5,6,7 or 8 units.

electric element model	KW	V	length L*	optional application to tank models
RCER-45	4,5	230/400	800	GX-800/1000-RB

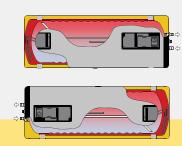
ELECTRIC HEATING - GEISER INOX

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"RC" HEATING ELEMENT: Flanged heating element for GEISER INOX "DOUBLE WALL". Models D/DEC.



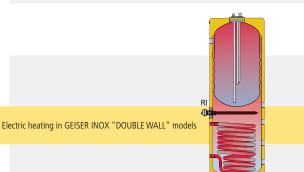


VERTICAL/HORIZONTAL INSTALLATION

Electric heating element RC...l. for left horizontal position. Electric heating element RC...D. for right horizontal position. Both types of electric elements are valid for VERTICAL installations.



"RI" HEATING ELEMENTS: Threaded immersion heating elements for primary heating circuit, for GEISER INOX "DOUBLE WALL". Models P/DE/PAC.





"RB" HEATING ELEMENT: Flanged heating element for GEISER INOX "SINGLE WALL", STORAGE AND COIL models.



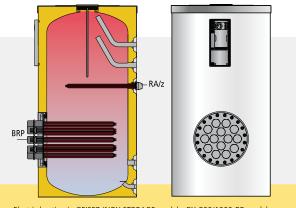
"RCER" HEATING ELEMENT: Flanged, sheathed ceramic heating element for GEISER INOX "SINGLE WALL", STORAGE AND COIL models.



"RA" HEATING ELEMENT: Threaded heating elements for backup heating in GEISER INOX "SINGLE WALL", STORAGE and COIL models







Electric heating in GEISER INOX STORAGE models, GX-800/1000-RB models

REGULATION AND CONTROL - GEISER INOX



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"lapesa" control panels are integrated into the different types of tanks in the **"GEISER INOX"** series.

They are supplied fully wired and mounted on the tank.

The panels include all the necessary components to control the temperature of the DHW stored in the tank and for the thermostatic control of the installation's heating equipment.

Any of the standard control panels fitted in tanks can be replaced by another type of control panel, if the installation so requires.

CONTROL PANEL COMPONENTS:

- [Te°] Thermometer: 0 120°C
- [TL°] Control thermostat: 0 75°C
- [TL°] Safety thermostat: 90°C
- */ Switch: winter summer
- Power on LED: green
- Primary pump LED: amber
- Electric heating element LED: red
- [P] Analog time switch: electric heating element.



COMPONENTS ON CONTROL PANELS

CONTROL PANEL		INCORPORATED COMPONENTS							
Denomination	Thermometer	Regulation thermostat	Safety thermostat	Switch ON/ OFF	SWITCH SUMMER/ WINTER	LEDS	Analog time switch	Regulation	Standard installed on tank models "GEISER INOX"
"S" PANEL	YES								GX6 S/P/PAC GXR/RB/HL/HLB
"ST" PANEL	YES	YES						hydraulic primary circuit	GXM1/M2
"K" PANEL	YES	YES	YES	YES	YES	YES		hydraulic primary circuit / electric heating element	GX6 D/DE/DEC
"KP1" PANEL	YES	YES	YES	YES	YES	YES	YES	hydraulic primary circuit / electric heating element with time programming	-



THERMAL INSULATION - GEISER INOX

The **"GEISER INOX"** series are thermally insulated at the factory by direct mould-injection with CFC and HCFC-free PU material.

This system guarantees a perfectly regular insulation thickness with optimum material density. The thicknesses indicated in the table refer to the circular tank body, but the insulation is much thicker on the top part (up to four times greater). Because the top part of the tank has better thermal protection, heat losses are much lower than those specified by the most stringent regulations, such as the DIN 4753/8 standard.



• Minimal heat loss!

lapesa

- For hot and cold water!
- No condensation on tank body!
- Compact block, no joints!

TABLE OF THERMAL INSULATION: GEISER INOX SERIES

Minimum thickness of equivalent insulation with other insulating materials (mm)

GEISER INOX			W/m ºK	thickness PU (mm.)	losses EN 12897 (W)	(EU 812/2013)	Flexible polyurethane foam* k= 0,040 W/m °K	Rockwool* k= 0,034 - 0,042 W/m °K	Fiberglass* k= 0,035 - 0,046 W/m °K
		GX6-S/D/DEC 90	PU	40	45	В	65	55 - 70	55 -75
GEISER INOX		GX6-S/D/DEC 130	PU	40	50	В	65	55 - 70	55 - 75
GEISER INOX		GX6-S/D/DEC 190	PU	40	58	В	65	55 - 70	55 -75
GEISER INOX		GX6-S/D/DEC 260	PU	40	63	В	65	55 - 70	55 - 75
GEISER INOX		GX6-S/D/DEC 400	PU	40	99	С	65	55 - 70	55 -75
GEISER INOX		GX6-S/D/DEC 600	PU	40	103	С	65	55 - 70	55 - 75
GEISER INOX		GX6-DE 140	PU	55	49	В	65	55 - 70	55 - 75
GEISER INOX	1	GX6-DE 180	PU	55	53	В	65	55 - 70	55 -75
GEISER INOX	WALL	GX6-DE 215	PU	55	56	В	65	55 - 70	55 - 75
GEISER INOX	Ē	GX6-DE 260	PU	55	61	В	65	55 - 70	55 -75
GEISER INOX	DOUBLE	GX6-DE 400	PU	40	99	С	65	55 - 70	55 - 75
GEISER INOX	B	GX6-DE 600	PU	40	103	С	65	55 - 70	55 - 75
GEISER INOX		GX6-TS 180	PU	45/160	52	В	75/260	65/220 - 80/280	65/220-85/300
GEISER INOX		GX6-TS 240	PU	45/160	57	В	75/260	65/220 - 80/280	65/220-85/300
GEISER INOX		GX6-P/PAC 300	PU	40	62	В	65	55 - 70	55 -75
GEISER INOX		GX6-P/PAC 400	PU	40	99	C	65	55 - 70	55 -75
GEISER INOX		GX6-P/PAC 600	PU	40	103	C	65	55 - 70	55 - 75
GEISER INOX		GX6-P/PAC 800	PU	80	87	В	130	110 - 140	115 - 160
GEISER INOX		GX6-P/PAC/DE 1000	PU	80	113	С	130	110 -140	115 - 160
GEISER INOX		GX-150-M1	PU	55	41	В	100	85 - 105	85 - 120
GEISER INOX		GX-200-R/M1/M2/HL	PU	60	44	В	100	85 - 105	85 - 120
GEISER INOX		GX-300-R/M1/M2/HL	PU	60	62	В	100	85 - 105	85 - 120
GEISER INOX	B	GX-400-R/M1/M2	PU	60	75	В	100	85 - 105	85 - 120
GEISER INOX	STORAGE	GX-500-R/M1/M2/HL	PU	60	81	В	100	85 - 105	85 - 120
GEISER INOX	STC	GX-800-R/M1/M2	PU	80	87	В	130	110 - 140	115 - 160
GEISER INOX		GX-800-RB/M1B/M2B/HLB	PU	80	95	В	130	110 - 140	115 - 160
GEISER INOX	COIL	GX-1000-R/M1/M2/HL	PU	80	113	С	130	110 - 140	115 - 160
GEISER INOX	-	GX-1000-RB/M1B/M2B/HLB	PU	80	123	С	130	110 - 140	115 - 160
GEISER INOX		GX-150-TSM	PU	45/160	55	В	75/260	65/220 - 80/280	65/220-85/300
GEISER INOX		GX-200-TSM	PU	45/160	59	В	75/260	65/220 - 80/280	65/220-85/300

(*) Detachable systems can lose up to 25% of the insulating capacity overall, so that in that case the insulation thickness will increased proportionally

CATHODIC PROTECTION - GEISER INOX



The "GEISER INOX" series do not require cathodic protection in normal conditions of use with drinking water (European Directive 98/83/CE). However, depending on the installation site, drinking water conditions may differ greatly from the potability requirements established by current regulations. In this case, and taking as a reference a chloride content limit of 150 mg/l, we recommend incorporating a permanent, maintenance-free "lapesa correx-up" cathodic protection system in the storage tank.

"lapesa correx-up"

permanent cathodic protection system.

Totally automatic! Maintenance free!



"lapesa correx-up" permanent cathodic protection system: Maintenance-free permanent cathodic protection unit. These anodes do not wear out and they emit the necessary electric current automatically, providing the tank with cathodic protection via an individual potentiostat for each anode, connected to the mains electricity.



ACCESSORIES - GEISER INOX

EXTERNAL LININGS External linings for "GEISER INOX" tanks. Standard external lining: WHITE / RAL 9016. ALUNOX EXTERNAL LINING

External aluminium sheet lining. ALUNOX external lining is supplied ready-mounted on the tank, over the PU insulation.





WHITE: RAL 9016



GREY: RAL 7045



BLUE: RAL 5015

ACCESSORIES - GEISER INOX



SAFETY GROUP.

- Safety group set at 7 bar and 3/4" connection.
- Set of safety valve, non-return valve, stopcock and connection from trap to drain.

ELECTRIC HEATING ELEMENT. DOUBLE-WALL MODELS.

Electric heating element in AISI 321, specifically for "GEISER INOX" DOUBLE-WALL tanks, "**D" and "DEC"** models. Characteristics and power range: page: 38 -ELECTRIC HEATING-



THREADED ELECTRIC HEATING ELEMENT, STORAGE AND COIL MODELS.

Low charge density, threaded immersion electric element in Incoloy for "GEISER INOX" STORAGE and COIL tanks, "R", "RB", "M1" and "M2" models.

Characteristics and power range: page: 38 -ELECTRIC HEATING-

FLANGED ELECTRIC HEATING ELEMENT, STORAGE AND COIL MODELS.

Low charge density, flanged immersion electric element, in Incoloy, for "GEISER INOX" STORAGE and COIL tanks, **"R", "M1" and "M2"** models.





CERAMIC ELECTRIC HEATING ELEMENT, STORAGE AND COIL MODELS.

Sheathed ceramic electric element for "GEISER INOX" STORAGE and COIL tanks, **"R", "M1" and "M2"** models.

Characteristics and power range: page: 38 -ELECTRIC HEATING-



THREADED ELECTRIC HEATING ELE-MENT, DOUBLE WALL MODELS.

Electric element in AISI 321 specifically for "GEISER INOX" DOUBLE-WALL tanks, "DE", "P" and "PAC" models Characteristics and power ratings: page: 38 -ELECTRIC HEATING-



CATHODIC PROTECTION SYSTEM. "lapesa correx-up" permanent cathodic protection unit for

"GEISER INOX" tanks in installations with aggressive water.

REGULATION AND CONTROL PANELS.

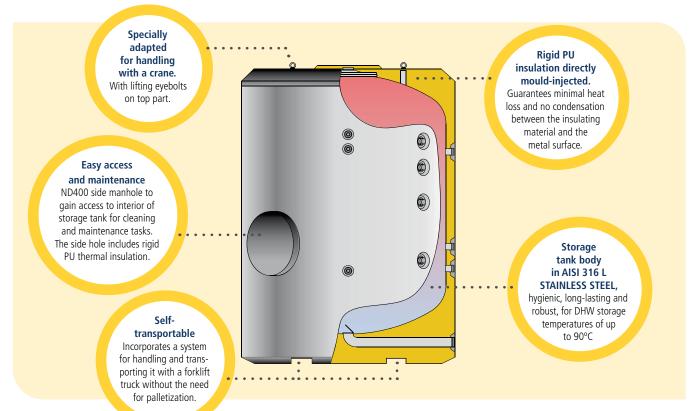
Regulation and control panels for "GEISER INOX" tanks. Characteristics / applications: page: 40 -REGULATION AND CONTROL-





STORAGE models, energy savings!

Designed to provide extraordinary storage capacity that translates directly into real savings. Their overdimensioned rigid, mould-injected PU thermal insulation maintains DHW storage temperature for long periods, providing users with continued savings throughout the life of the storage tank.



MAIN ADVANTAGES - MASTER INOX - STORAGE

DHW PRODUCTION/STORAGE TANKS MASTER INOX - **STORAGE**

lapesa

LARGE CAPACITY STORAGE TANKS: Designed to provide an extraordinary storage capacity that translates directly into real savings.

- CAPACITIES from 1500 to 6000 litres -

Storage tanks ready for installation with plate heat exchanger and/or electric heating elements as the heating source.

MAXIMUM STORAGE CAPACITY: Extra thick, rigid PU insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 60)

LONG-LASTING PRODUCT: Nickel-chromiummolybdenum STAINLESS STEEL DHW storage tank, highly resistant to pitting caused by halogen elements such as chlorine in drinking water. This is the material used to manufacture all of the models in our **"MASTER INOX"** series.

ELECTRIC HEATING: Ready to be fitted with Incoloy, low charge density electric immersion elements or with sheathed ceramic heating elements (see ELECTRIC HEATING chapter, page: 58) **EASY TO MAINTAIN:** With access to tank interior through ND400 side manhole, for inspection and cleaning.



EASY TO HANDLE AND TRANSPORT: Our "MAS-TER" storage tanks are designed for easy handling and transport to the place of installation.

They have an integrated system for handling and transporting by forklift truck, which facilitates handling operations enormously as there is no need to palletize the product which, given its weight and size, would make handling difficult.

The tanks are also equipped with lifting eyebolts on the top part so that if they have to be placed in a high area they can be lifted with an overhead hoist.



TRANSPORT SYSTEM: Openings/ducts under the tank for easier handling with pallet trucks (from 1500 litres or more).





FEATURES COMMON TO ALL "MASTER INOX" STORAGE MODELS:

- DHW storage tanks in AISI 316 L stainless steel
- Capacities: 1500, 2000, 2500, 3000, 3500, 4000, 5000 and 6000 litres
- Maximum working pressure of DHW storage tank: 8 bar (optional: 10 and 12 bar)
- Maximum working temperature of DHW storage tank: 90 °C
- Thermal insulation: Rigid, mould-injected PU (CFC/HCFC-free, 0.025 W/m°K)
- Tanks for VERTICAL installation on floor. (OPTIONAL, HORIZONTAL position please consult us-)

lapesa storage tanks have minimal heat losses and for this reason are considered to be one of the products with the greatest storage capacity on the market.



CE



DHW PRODUCTION/STORAGE TANKS MASTER INOX - **STORAGE**

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MASTER INOX "RB"

DWH STORAGE tanks, from **1500 to 6000** litre capacity.

DHW production is by an external heat exchange system (plate heat exchanger)

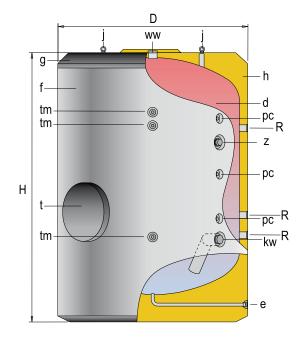
They can be fitted with immersion electric elements or ceramic electric elements as the main and/or backup heating system. With ND400 side manhole for access to interior of tank for inspection, cleaning treatments and maintenance.

Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole

As an option, PVC padded external lining and set of trims, or ALUNOX aluminium sheet lining can be supplied (see ACCESSORIES chapter, page: 61







t -	Manhole ND400
-1	DUNA to al.

d - DHW tank f - External lining

g - Top cover

h - Thermal insulation

j - Lifting eyes

GENERAL CHARACTERISTIC	CS .	MXV-1500-RB	MXV-2000-RB	MXV-2500-RB	MXV-3000-RB	MXV-3500-RB	MXV-4000-RB	MXV-5000-RB	MXV-6000-RB
DHW capacity	I.	1500	2000	2500	3000	3500	4000	5000	6000
D: external diameter H: overall height Diagonal	mm. mm. mm.	1360 1830 2281	1360 2280 2655	1660 2015 2611	1660 2305 2841	1660 2580 3068	1910 2310 2998	1910 2710 3316	1910 3210 3735
kw: cold water inlet ww: DHW outlet z: recirculation e: drain R: side connection pc: "lapesa correx up" connection tm: probe tube connection for sensors	" GAS/M " GAS/M " GAS/M " GAS/M " GAS/F " GAS/F	2 2 1 1/2 1 2 3/4 1/2	2 2 1 1/2 1 2 3/4 1/2	2 3 2 1 2 3/4 1/2	2 3 2 1 2 3/4 1/2	3 3 2 1 2 3/4 1/2	3 3 2 1 2 3/4 1/2	3 3 2 1 2 3/4 1/2	3 2 2 2 3/4 1/2
Empty weight (approx.) Note: The 6000 litre model includes supp	Kg ort legs	265	305	450	485	520	600	670	730

STAINLESS STEEL TANKS



DHW PRODUCTION/STORAGE TANKS

MASTER INOX - STAINLESS STEEL

Models with COILS production and efficiency!

Designed to provide great energy storage capacity with an exclusive, high-efficiency DHW production system. Modular heat exchange unit, comprising a set of detachable collectors and coils for DHW production via an external energy source.



LARGE CAPACITY TANKS FOR DWH PRODUCTION AND

STORAGE: Designed for extraordinary energy storage capacity that directly translates into real savings, with an exclusive high-efficiency DHW production system.

- CAPACITIES from 1500 to 6000 litres -

The overdimensioned, rigid, mould-injected PU thermal insulation maintains the DHW storage temperature over long periods of time without requiring additional energy input. This means less start-ups and adjustments of external energy sources, which in turn translates into less energy consumption.

Storage tanks that incorporate a heat exchange system comprising a set of collectors and coils that are detachable from the inside of the storage tank, for DHW production via an external energy source (see DHW PRODUC-TION chapter, page: 54)

LONG-LASTING PRODUCT: Nickel-chromium-molybdenum STAINLESS STEEL DHW storage tank, highly resistant to pitting caused by halogen elements such as chlorine in drinking water. This is the material used to manufacture all of the models in our **"MASTER INOX"** series.

DHW PRODUCTION/STORAGE TANKS MASTER INOX - **COILS**

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ANTI-LEGIONELLA DESIGN: The design of the complete range of "MASTER INOX" tanks adheres to all of the "Treatment and Prevention of Legionellosis" criteria specified in current UNE standards and EC Directives and, in particular, in the R.D. 865/2003 and the RITE (Regulations on Thermal Installations in Buildings).

The anti-legionella design applies to the storage: tank unit and its internal DHW production system.

LARGE DHW PRODUCTION CAPACITY: A set of separate collectors and coils, made of STAIN-LESS STEEL, are mounted inside the storage tank, allowing the heat exchange surface to be dimensioned in accordance with the power required (up to 10 m² in the 5000 litre model), adapted to traditional energy sources or to the use of renewable energies.

This exclusive **lapesa** DHW production system for large capacity tanks saves on installation space and allows total or partial maintenance of the unit, guaranteeing the continuous service of the installation.

EASY TO MAINTAIN: With access to tank interior through a ND400 side manhole for inspection and cleaning of the storage tank and/or coil system.

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mould-injected insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 60).

ELECTRIC HEATING: Ready to be fitted with Incoloy, low charge density electric immersion elements or with sheathed ceramic heating elements, as backup electric heating (see ELECTRIC HEATING chapter, page: 58).

EASY TO HANDLE AND TRANSPORT: Our "MAS-TER" storage tanks are designed for easy handling and transport to the place of installation.

They have an integrated system for handling and transporting by forklift truck, which facilitates handling operations enormously, as there is no need to palletize the product which, given its weight and size, would make handling difficult.

The tanks are also equipped with lifting eyebolts on the top part so that if they have to be placed in a high area they can be lifted with an overhead hoist.



TRANSPORT SYSTEM: Openings/ducts under the tank for easier handling with pallet trucks (from 1500 litres or more).



FEATURES COMMON TO ALL "MASTER INOX" COILS MODELS:

- DHW storage tanks in AISI 316 L stainless steel
- Capacities: 1500, 2000, 2500, 3000, 3500, 4000, 5000 and 6000 litres
- Maximum working pressure of DHW storage tank: 8 bar (optional: 10 and 12 bar)
- Maximum working temperature of DHW storage tank: 90 °C
- Maximum pressure of set of coils: 25 bar
- Maximum temperature of set of coils: **110 °C** (up to 200 °C with special high temperature seals)
- Thermal insulation: Rigid, mould-injected PU (CFC/HCFC-free, 0.025 W/m°K)
- Tanks for VERTICAL installation on floor. (OPTIONAL, HORIZONTAL position please consult us-)

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DHW PRODUCTION/STORAGE TANKS MASTER INOX - COILS



DHW PRODUCTION/STORAGE TANKS MASTER INOX - **COILS**

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MASTER INOX "SB"

DWH PRODUCTION/STORAGE tanks, from 1500 to 6000 litre capacity.

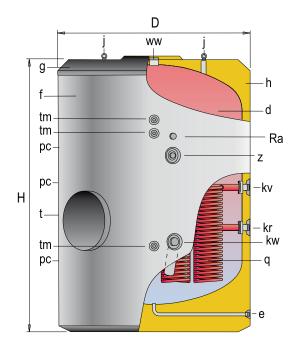
With **detachable coils system** for DHW production via an external energy source.

They can be fitted with immersion electric elements or ceramic electric elements on the top part of the tank, as backup heating.

With ND400 side manhole for access to interior of tank for inspection, cleaning treatments and maintenance tasks. Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole

As an option PVC padded external lining and set of trims, special outdoor lining or ALUNOX aluminium sheet lining can be supplied. (page: 61)







- t Manhole ND400
- d DHW tank
- f External lining g - Top cover
- h Thermal insulation
- j Lifting eyes
- q Detachable coils system

GENERAL CHARACTERISTICS MXV-1500-SB MXV-2000-SB MXV-2500-SB MXV-3000-SB MXV-3500-SB MXV-4000-SB MXV-5000-SB MXV-6000-SB DHW capacity 2000 2500 3000 3500 4000 5000 6000 1500 D: external diameter 1360 1360 1660 1660 1660 1910 1910 1910 mm H: overall height mm. 1830 2280 2015 2305 2580 2310 2710 3210 Diagonal 2281 2655 2611 2841 3068 2998 3316 3735 mm. kw: cold water inlet " GAS/M 3 2 2 2 2 3 3 3 ww: DHW outlet " GAS/M 2 2 3 3 3 3 3 3 z: recirculation " GAS/M 1 1/2 1 1/2 2 2 2 2 2 2 e[.] drain " GAS/M 2 1 1 1 1 1 1 1 R: side connection " GAS/F 2 2 2 2 2 2 2 2 " GAS/F 3/4 3/4 3/4 3/4 3/4 3/4 3/4 3/4 pc: "lapesa correx up" connection " GAS/F tm: probe tube connection for sensors 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 " GAS/M 2 2 2 2 ky: primary input 2 2 2 2 kr: primary return " GAS/M 2 2 2 2 2 2 2 2 3,4 Coils set heating surface 2,8 4,8 5 6,7 6,7 8,4 m 8,4 Empty weight (approx.) 305 345 485 535 575 650 720 805 Kg Note: The 6000 litre model includes support legs

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DHW PRODUCTION/STORAGE TANKS MASTER INOX - COILS

MASTER INOX "SSB"

DWH PRODUCTION/STORAGE tanks, from 1500 to 6000 litre capacity.

Set of OVERDIMENSIONED coils for DHW production, specifically designed for the application of RENEWABLE ENERGIES, in particular, **SOLAR ENERGY**.

Heat exchange surfaces in the whole range comply with RITE requirements for SOLAR installations.

They can be fitted with immersion electric elements or ceramic electric elements on the top part of the tank, as backup heating.

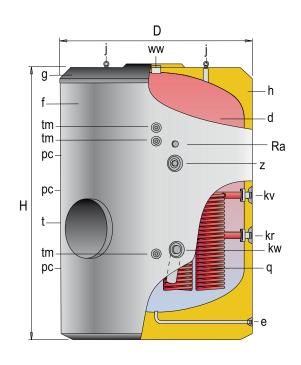
With ND400 side manhole for access to interior of tank for inspection, cleaning treatments and maintenance.

Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole.

Optional supply of PVC padded external lining and set of trims, special lining for exterior or ALUNOX aluminium sheet lining (page: 61)







t - Manhole ND400

d - DHW tank f - External lining

- g Top cover
- h Thermal insulation

j - Lifting eyes

q - Detachable coils system

GENERAL CHARACTERISTIC	cs	MXV-1500-SSB	MXV-2000-SSB	MXV-2500-SSB	MXV-3000-SSB	MXV-3500-SSB	MXV-4000-SSB	MXV-5000-SSB	MXV-6000-SSB
DHW capacity	I.	1500	2000	2500	3000	3500	4000	5000	6000
D: external diameter H: overall height Diagonal	mm. mm. mm.	1360 1830 2281	1360 2280 2655	1660 2015 2611	1660 2305 2841	1660 2580 3068	1910 2310 2998	1910 2710 3316	1910 3210 3735
kw: cold water inlet ww: DHW outlet z: recirculation e: drain R: side connection pc: "lapesa correx up" connection tm: probe tube connection for sensors kv: primary input	" GAS/M " GAS/M " GAS/M " GAS/F " GAS/F " GAS/F " GAS/F " GAS/M " GAS/M	2 2 1 1/2 1 2 3/4 1/2 2 2	2 2 1 1/2 1 2 3/4 1/2 2 2	2 3 2 1 2 3/4 1/2 2 2	2 3 2 1 2 3/4 1/2 2 2	3 2 1 2 3/4 1/2 2 2	3 2 1 2 3/4 1/2 2 2	3 2 1 2 3/4 1/2 2 2	3 2 2 3/4 1/2 2 2
kr: primary return Coils set heating surface	m ²	4,2	5,0	6,1	8,4	8,4	8,4	10,0	10,0
Empty weight (approx.) Note: The 6000 litre model includes supp	Kg ort legs	315	365	500	565	590	665	745	817

DHW PRODUCTION/STORAGE TANKS MASTER INOX - **COILS**

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MASTER INOX "S2B / SS2B"

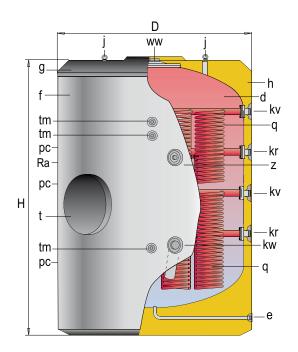
DWH PRODUCTION/STORAGE tanks, 2000, 3500, 5000 and 6000 litre capacity.

"SB" and SSB" base models with **TWO detachable coil systems** for DHW production via two combined external energy sources.

With ND400 side manhole for access to interior of tank for inspection, cleaning treatments and maintenance. Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole.

Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (page: 61)







t	-	N	lai	۱h	0	e	Ν	D2	10	0

- d DHW tank f - External lining
- g Top cover
- h Thermal insulation
- j Lifting eyes
- q Detachable coils system

GENERAL CHARACTERISTICS		MXV-2000 S2B / SS2B	MXV-3500 S2B / SS2B	MXV-5000 S2B / SS2B	MXV-6000 S2B / SS2B
DHW capacity	l.	2000	3500	5000	6000
D: external diameter H: overall height Diagonal	mm. mm. mm.	1360 2280 2655	1660 2580 3068	1910 2710 3316	1910 3210 3735
kw: cold water inlet ww: DHW outlet z: recirculation e: drain pc: "lapesa correx up" connection Ra: side connection tm: probe tube connection for sensors kv: primary input kr: primary return	" GAS/M " GAS/M " GAS/M " GAS/F " GAS/F " GAS/F " GAS/M " GAS/M	2 2 1 1/2 1 3/4 2 1/2 2 2	3 2 1 3/4 2 1/2 2 2	3 2 1 3/4 2 1/2 2 2	3 2 2 3/4 2 1/2 2 2
Lower coils set heating surface "S2B" Lower coils set heating surface "S2B" Upper coils set heating surface "S2B" / "SS2B" Empty weight (approx.) "S2B" / "SS2B"	m ² m ² m ² Kg	3,4 5,0 1,7/3,1 374 / 394	6,7 8,4 3,2/4,0 615 / 630	8,4 10,0 4,0/4,8 765 / 790	8,4 10,0 4,0/4,8 862 / 874
Note: The 6000 litre model includes support legs					

MAST	MASTER INOX - COILS - SB [Continuous flow DHW production (liters/hour) 10°C - 45°C]											
PRIMARY INPUT TEMP	ERATURE °C	55	5 °C	7	0 °C	8	0 °C	90 °C				
tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW DHW (I/h) KW DHW (I/h)		KW	DHW (l/h)					
MXV-1500-SB	3	39	960	72	1772	98	2411	119	2928			
	5	46	1132	85	2092	118	2904	143	3519			
	8	52	1280	98	2411	137	3371	166	4085			
MXV-2000-SB	3	44	1083	86	2116	109	2682	136	3347			
	5	51	1255	104	2559	133	3273	165	4060			
	8	58	1427	121	2977	154	3789	191	4700			
MXV-2500-SB	3	53	1304	92	2264	119	2928	146	3593			
	5	63	1550	113	2781	147	3617	180	4429			
	8	72	1772	132	3248	172	4232	211	5192			
MXV-3000-SB	3	61	1501	107	2633	141	3470	174	4282			
	5	74	1821	134	3297	178	4380	220	5414			
	8	86	2116	158	3888	212	5217	262	6447			
MXV-3500-SB	3	71	1747	132	3248	181	4454	224	5512			
	5	87	2141	165	4060	228	5610	284	6988			
	8	102	2510	196	4823	270	6644	340	8366			
MXV-4000-SB	3	71	1747	132	3248	181	4454	224	5512			
	5	87	2141	165	4060	228	5610	284	6988			
	8	102	2510	196	4823	270	6644	340	8366			
MXV-5000-SB	3	83	2042	156	3839	211	5192	263	6472			
	5	102	2510	197	4848	268	6595	337	8293			
	8	120	2953	234	5758	321	7899	406	9990			
MXV-6000-SB	3	83	2042	156	3839	211	5192	263	6472			
	5	102	2510	197	4848	268	6595	337	8293			
	8	120	2953	234	5758	321	7899	406	9990			

MASTER INOX - COILS - SSB [Continuous flow DHW production (liters/hour) 10°C - 45°C]

PRIMARY INPUT TEMP	PERATURE °C	5!	5 °C	7	0 °C	8) °C	90) °C
tank model	primary pump flow (m³/h)	KW	DHW (l/h)						
MXV-1500-SSB	3	53	1304	92	2264	119	2928	146	3593
	5	63	1550	113	2781	147	3617	180	4429
	8	72	1772	132	3248	172	4232	211	5192
MXV-2000-SSB	3	61	1501	107	2633	141	3470	174	4282
	5	74	1821	134	3297	178	4380	220	5414
	8	86	2116	158	3888	212	5217	262	6447
MXV-2500-SSB	3	64	1575	119	2928	161	3962	199	4897
	5	78	1919	149	3666	204	5020	251	6176
	8	90	2215	177	4355	243	5979	299	7357
MXV-3000-SSB	3	83	2042	156	3839	211	5192	263	6472
	5	102	2510	197	4848	268	6595	337	8293
	8	120	2953	234	5758	321	7899	406	9990
MXV-3500-SSB	3	83	2042	156	3839	211	5192	263	6472
	5	102	2510	197	4848	268	6595	337	8293
	8	120	2953	234	5758	321	7899	406	9990
MXV-4000-SSB	3	83	2042	156	3839	211	5192	263	6472
	5	102	2510	197	4848	268	6595	337	8293
	8	120	2953	234	5758	321	7899	406	9990
MXV-5000-SSB	3	100	2461	177	4364	243	5973	301	7401
	5	125	3076	226	5569	314	7715	392	9657
	8	148	3642	271	6677	379	9319	477	11732
MXV-6000-SSB	3	100	2461	177	4364	243	5973	301	7401
	5	125	3076	226	5569	314	7715	392	9657
	8	148	3642	271	6677	379	9319	477	11732

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MAST	MASTER INOX - COILS - SB [Continuous flow DHW production (liters/hour) 10°C - 60°C]										
PRIMARY INPUT TEMP	ERATURE °C		70) °C	80) °C	90 °C				
tank model	primary pump flow (m³/h)		KW	DHW (l/h)	ĸw	DHW (l/h)	KW	DHW (l/h)			
MXV-1500-SB	3 5 8		46 55 64	792 947 1102	73 89 103	1257 1533 1774	94 114 132	1619 1964 2274			
MXV-2000-SB	3 5 8		55 67 78	947 1154 1344	80 98 114	1378 1688 1964	107 131 152	1843 2256 2618			
MXV-2500-SB	3 5 8		59 72 85	1016 1240 1464	87 108 128	1499 1860 2205	115 143 168	1981 2463 2894			
MXV-3000-SB	3 5 8		68 86 102	1171 1481 1757	104 131 157	1791 2256 2704	137 174 209	2360 2997 3600			
MXV-3500-SB	3 5 8		85 106 126	1464 1826 2170	133 168 200	2291 2894 3445	177 226 270	3049 3893 4651			
MXV-4000-SB	3 5 8		85 106 126	1464 1826 2170	133 168 200	2291 2894 3445	177 226 270	3049 3893 4651			
MXV-5000-SB	3 5 8		100 127 151	1722 2188 2601	155 198 238	2670 3411 4100	208 268 323	3583 4616 5564			
MXV-6000-SB	3 5 8		100 127 151	1722 2188 2601	155 198 238	2670 3411 4100	208 268 323	3583 4616 5564			

MASTER INOX - COILS - SSB	[Continuous flow DHW]	production (liters/hour) 10°C - 60°C
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PRIMARY INPUT TEMP	ERATURE °C	70) °C	8	0 °C	9	0 °C
tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (I/h
MXV-1500-SSB	3	59	1016	87	1499	115	1981
	5	72	1240	108	1860	143	2463
	8	85	1464	128	2205	168	2894
MXV-2000-SSB	3	68	1171	104	1791	137	2360
	5	86	1481	131	2256	174	2997
	8	102	1757	157	2704	209	3600
MXV-2500-SSB	3	76	1312	118	2040	157	2697
	5	96	1654	151	2595	199	3429
	8	114	1969	180	3107	238	4103
MXV-3000-SSB	3	100	1722	155	2670	208	3583
	5	127	2188	198	3411	268	4616
	8	151	2601	238	4100	323	5564
MXV-3500-SSB	3	100	1722	155	2670	208	3583
	5	127	2188	198	3411	268	4616
	8	151	2601	238	4100	323	5564
MXV-4000-SSB	3	100	1722	155	2670	208	3583
	5	127	2188	198	3411	268	4616
	8	151	2601	238	4100	323	5564
MXV-5000-SSB	3	113	1948	179	3077	238	4094
	5	144	2477	232	3992	312	5368
	8	172	2964	281	4833	380	6540
MXV-6000-SSB	3	113	1948	179	3077	238	4094
	5	144	2477	232	3992	312	5368
	8	172	2964	281	4833	380	6540

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MASTER INOX - UPPER COIL⁽¹⁾ - S2B / SS2B [Continuous flow DHW production (liters/hour) 10°C - 45°C]										
ATURE °C	55 °C		70 °C		80 °C		90 °C			
primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)		
3	36	886	70	1722	92	2264	115	2830		
5	42	1033	83	2042	110	2707	136	3347		
8	48	1181	95	2338	127	3125	155	3814		
3	50	1230	92	2264	119	2928	147	3617		
5	60	1476	112	2756	145	3568	179	4405		
8	69	1698	131	3224	169	4159	208	5118		
3	58	1427	103	2535	136	3347	168	4134		
5	71	1747	129	3174	170	4183	210	5167		
8	82	2018	152	3740	202	4971	250	6152		
3	58	1427	103	2535	136	3347	168	4134		
5	71	1747	129	3174	170	4183	210	5167		
8	82	2018	152	3740	202	4971	250	6152		
	ATURE °C primary pump flow (m³/h) 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 3 5 8 5 8	ATURE °C 5 primary pump flow (m³/h) KW 3 36 5 42 8 48 3 50 5 60 8 58 5 71 8 58 5 71 8 58 5 71	ATURE °C 55 °C primary pump flow (m³/h) KW DHW (l/h) 3 36 886 5 42 1033 8 48 1181 3 50 1230 5 60 1476 69 1698 3 58 1427 5 71 1747 8 82 2018 3 58 1427 5 71 1747 8 58 1427 5 71 1747	ATURE °C 55 °C 7 primary pump flow (m³/h) KW DHW (l/h) KW 3 36 886 70 5 42 1033 83 8 48 1181 95 3 50 1230 92 5 60 1476 112 8 69 1698 131 3 58 1427 103 5 71 1747 129 8 58 1427 103 5 71 1747 129 8 58 1427 103 5 71 1747 129	ATURE °C 55 °C 70 °C primary pump flow (m³/h) KW DHW (l/h) KW DHW (l/h) 3 36 886 70 1722 5 42 1033 83 2042 8 48 1181 95 2338 3 50 1230 92 2264 5 60 1476 112 2756 8 69 1698 131 3224 3 58 1427 103 2535 5 71 1747 129 3174 8 82 2018 152 3740 3 58 1427 103 2535 5 71 1747 129 3174	ATURE °C 55 °C 70 °C 8 primary pump flow (m³/h) KW DHW (l/h) Interportintating the temp (left) atin	ATURE °C 55 °C 70 °C 80 °C primary pump flow (m³/h) KW DHW (l/h) KW DHW (l/h) KW DHW (l/h) 3 36 886 70 1722 92 2264 5 42 1033 83 2042 110 2707 8 48 1181 95 2338 127 3125 3 50 1230 92 2264 119 2928 5 60 1476 112 2756 145 3568 8 9 1698 131 3224 169 4159 3 58 1427 103 2535 136 3347 5 71 1747 129 3174 170 4183 8 2018 152 3740 202 4971 3 58 1427 103 2535 136 3347 5 71 1747 129	ATURE °C 55 °C 70 °C 80 °C 9 primary pump flow (m³/h) KW DHW (l/h) KW DHW (l/h) KW DHW (l/h) KW DHW (l/h) KW Mage Mage		

(1) DHW productions for the lower coils of S2B models correspond to the productions of the SB models, see page 54.

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MASTER INOX - SERPENTÍN⁽²⁾ SUPERIOR - S2B / SS2B [Continuous flow DHW production (liters/hour) 10°C - 60°C]

PRIMARY INPUT TEMPERA	ATURE °C	70) °C	80	°C	90 °C	
tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)
MXV-2000-S2B/SS2B	3	43	741	67	1154	88	1516
	5	53	913	82	1412	108	1860
	8	62	1068	96	1654	126	2170
MXV-3500-S2B/SS2B	3	58	999	86	1481	114	1964
	5	72	1240	106	1826	141	2429
	8	84	1447	125	2153	165	2842
MXV-5000-S2B/SS2B	3	66	1137	100	1722	132	2274
	5	83	1430	125	2153	167	2877
	8	98	1688	150	2584	199	3428
MXV-6000-S2B/SS2B	3	66	1137	100	1722	132	2274
	5	83	1430	125	2153	167	2877
	8	98	1688	150	2584	199	3428
(2) DHW productions for the lo	ower coils of SS2B models correspond to the produc	tions of the SSB m	odels, see page 55				





MASTER INOX - COILS models - SB - (DHW production - peak flow -)

		MXV1500 SB	MXV2000 SB	MXV2500 SB	MXV3000 SB	MXV3500 SB	MXV4000 SB	MXV5000 SB	MXV6000 SB
Peak flow 40°C	L/10'	2925	3900	4875	5850	6825	7800	9750	11800
Peak flow 45°C	L/10'	2500	3325	4175	5000	5850	6675	8350	10050
Peak flow 60°C	L/10'	1750	2325	2925	3500	4075	4675	5850	7075
Peak flow 40°C	L/60'	6675	8150	9625	11675	14240	15200	18500	20550
Peak flow 45°C	L/60'	5600	6850	8125	9825	12055	12875	15625	17340
Peak flow 60°C	L/60'	3400	4225	5050	6125	7450	8000	9750	10990
Continuous flow 40°C	Ltrs/h	4500	5100	5700	7000	8900	8900	10500	10500
Continuous flow 45°C	Ltrs/h	3725	4250	4750	5800	7450	7450	8750	8750
Continuous flow 60°C	Ltrs/h	2000	2300	2550	3150	4000	4000	4700	4700
Heating time (from 10 to 75°C)	Min	77	88	100	97	100	102	109	117
Primary flow	m³/h	8	8	8	8	8	8	8	8
Primary input temperature 85°C									

MASTER INOX - COILS models - SSB - (DHW production - peak flow -)

		MXV1500 SSB	MXV2000 SSB	MXV2500 SSB	MXV3000 SSB	MXV3500 SSB	MXV4000 SSB	MXV5000 SSB	MXV6000 SSB
Peak flow 40°C	L/10'	2925	3900	4875	5850	6825	7800	10840	12790
Peak flow 45°C	L/10'	2500	3325	4175	5000	5850	6675	9235	10910
Peak flow 60°C	L/10'	1750	2325	2925	3500	4075	4675	6325	7500
Peak flow 40°C	L/60'	7675	9725	11550	14600	15575	16550	21740	23690
Peak flow 45°C	L/60'	6450	8150	9735	12275	13125	13950	18010	19680
Peak flow 60°C	L/60'	3875	4950	5930	7400	7975	8575	11065	12240
Continuous flow 40°C	Ltrs/h	5700	7000	8010	10500	10500	10500	13080	13080
Continuous flow 45°C	Ltrs/h	4750	5800	6675	8750	8750	8750	10530	10530
Continuous flow 60°C	Ltrs/h	2550	3150	3605	4700	4700	4700	5690	5690
Heating time (from 10 to 75°C)	Min	60	65	65	65	76	87	102	110
Primary flow	m³/h	8	8	8	8	8	8	8	8
Primary input temperature 85°C									

Primary input temperature 85°C

MASTER INOX - COILS models - S2B / SS2B - (DHW production - peak flow -)

UPPER COIL		MXV2000 S2B	MXV3500 S2B	MXV5000 S2B	MXV6000 S2B	MXV2000 SS2B	MXV3500 SS2B	MXV5000 SS2B	MXV6000 SS2B
Peak flow 40°C	L/10'	3900	6825	9750	11800	3900	6825	10840	12790
Peak flow 45°C	L/10'	3325	5850	8350	10050	3325	5850	9235	10910
Peak flow 60°C	L/10'	2325	4075	5850	7075	2325	4075	6325	7500
Peak flow 40°C	L/60'	8150	14240	18500	20550	9725	15575	21740	23690
Peak flow 45°C	L/60'	6850	12055	15625	17340	8150	13125	18010	19680
Peak flow 60°C	L/60'	4225	7405	9750	10990	4950	7975	11065	12240
Continuous flow 40°C	Ltrs/h	5100	8900	10500	10500	7000	10500	13080	13080
Continuous flow 45°C	Ltrs/h	4250	7450	8750	8750	5800	8750	10530	10530
Continuous flow 60°C	Ltrs/h	2300	4000	4700	4700	3150	4700	5690	5690
Heating time (from 10 to 75°C)	Min	88	98	109	117	65	76	102	110
Primary flow	m³/h	8	8	8	8	8	8	8	8
Primary input temperature 85°C									

STAINLESS STEEL TANKS

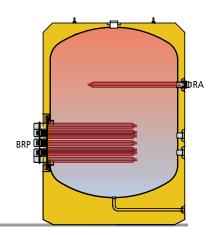
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ELECTRIC HEATING - MASTER INOX



The MASTER INOX models can be fitted with electric heating elements:

- "RB/EB" STORAGE models": MAIN ELECTRIC HEATING and/or BACKUP ELECTRIC HEATING
- Models "SB/SSB" with COILS: BACKUP ELECTRIC HEATING



MASTER INOX threaded immersion heating elements , in INCOLOY, for electric heating:

1	Electric heating element model	KW	V	Thread	Integrated control	IP	length L*	MAIN HEATING and/or BACKUP HEATING	BACKUPHEATING	
h	RA4/2-60H	6,0	230/400	2" M	-	40	797	MXV15006000-RB/EB	MXV15006000-SB/SSB	
	RA4/2-90H	9,0	230/400	2"M	-	40	1115	MXV15006000-RB/EB	MXV15006000-SB/SSB	
	RA4/2-120DH	12,0	230/400	2"M	-	40	680	MXV15006000-RB/EB	MXV15006000-SB/SSB	
	RA4/2-120DHT	12,0	230/401	2"M	thermostat*	05	680	MXV15006000-RB/EB	MXV15006000-SB/SSB	
	RA4/2-125DHT	12,5	230/400	2"M	Regulation and safety thermostat*	65	680	MXV15006000-RB/EB	MXV15006000-SB/SSB	
	RA4/2-150DH	15,0	230/400	2"M	-	40	820	MXV15006000-RB/EB	MXV15006000-SB/SSB	
	RA4/2-150DHT	15,0	230/400	2"M	Regulation and safety thermostat*	65	820	MXV15006000-RB/EB	MXV15006000-SB/SSB	·); ·
	RA4/2-250DH	25,0	230/400	2"M	-	40	1200	MXV15006000-RB/EB	MXV15006000-SB/SSB	and an interest
	RA4/2-250DHT	25,0	230/400	2"M	Regulation and safety thermostat*	65	1200	MXV15006000-RB/EB	MXV15006000-SB/SSB	

(*) Regulation thermostat: o - 75°C (adjusted to 60 °C) / Safety thermostat: 90 °C

HIGH ELECTRIC POWERS:

If high electric power storage tanks have to be installed, the electric heating elements can be grouped together in the ND400 manhole. The "RB" models can be fitted with up to 8 immersion elements in the ND400 side manhole, to obtain a maximum power of 200 KW For the 2000, 3500, 5000 and 6000 litre models an optional second ND400 manhole can be included to group together up to 16 electric heating elements, for a maximum power of 400 KW.

SPECIAL MANUFACTURE:

The "SB" and "SSB" models can only incorporate electric heating elements in the ND400 manhole if it is moved to the top part of the storage tank, above the set of coils. In this case the electric heating would act as backup heating. As an option, the 2000, 3500, 5000 and 6000 litre models can also include a second ND400 manhole.

In all of the cases the system is supplied with a protective box for the set of heating elements in stainless steel, with a lid.

MXV "RB" Models with threaded immersion heating elements, in ND400 manhole

Tank models MXV "RB"	Number of heating elements on MH ND400	Number of heating elements on 2nd MH ND400 (OPTIONAL)
MXV1500RB	3, 4, 5, 6, 7 u 8	
MXV2000RB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8
MXV2500RB	3, 4, 5, 6, 7 u 8	
MXV3000RB	3, 4, 5, 6, 7 u 8	
MXV3500RB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8
MXV4000RB	3, 4, 5, 6, 7 u 8	-
MXV5000RB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8
MXV6000RB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8

ELECTRIC HEATING - MASTER INOX

MXV "SB/SSB" models with threaded immersion heating elements, in ND400 (SPECIAL MANUFACTURE)

(ONLY BACKUP HEATING)

(OPTION 1) Manhole moved to top of tank.

(OPTION 2) Second manhole on top part of tank							
Tank models MXV "SB/SSB"	Number of heating elements on MH ND400 (OPTION 1)	Number of heating elements on 2nd MH ND400 (OPTION 2)					
MXV1500SB/SSB	3, 4, 5, 6, 7 u 8	-					
MXV2000SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8					
MXV2500SB/SSB	3, 4, 5, 6, 7 u 8	-					
MXV3000SB/SSB	3, 4, 5, 6, 7 u 8	-					
MXV3500SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8					
MXV4000SB/SSB	3, 4, 5, 6, 7 u 8	-					
MXV5000SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8					
MXV6000SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8					



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MASTER INOX" sheathed CERAMIC HEATING ELEMENTS on stainless steel plate for ND400

ND400 stainless steel plate with sheaths for ceramic heating elements + no. of heating elements selected. NUMBER OF HEATING ELEMENTS per plate in ND400: 3, 4, 5, 6, 7 or 8 optional application on models MXV

Heating element modelKWVlength L*MAIN and/or BACKUP HEATINGBACKUP HEATINGRCER-454,5230/400800 1000MXV-15006000-RBMXV-2000/3500/5000/6000-SB/SSB							
MXV-15006000-RB MXV-2000/3500/5000/6000-SB/SSB		KW	V	length L*		BACKUP HEATING	
	RCER-45	4,5	230/400	800	MXV-1500- 6000-BB	MXV/_2000/3500/5000/6000_SR/SSR	
	RCER-60	6,0	230/400	1000	INIXV-13000000-NB	NIX 4-2000/2000/2000/0000-20/220	



ELECTRIC HEATING WITH CERAMIC HEATING ELEMENTS. "DRY" SYSTEM

The "dry" system with ceramic electric heating elements means that there is no need to drain the storage tank when fitting/removing or replacing the heating elements.

This system consists of a ND400 stainless steel plate with blind sheaths in the same material that house the ceramic heating elements. With a maximum of 8 units per ND400 plate, this system provides a maximum of 48 KW of electric power.

SPECIAL MANUFACTURE: As an option, the storage tank can be equipped with a second ND400 manhole. In this case, maximum installable power would be 96 KW (only valid for 2000, 3500, 5000 and 6000 litre "RB" models).

In all of the cases the system is supplied with a protective box for the set of heating elements in stainless steel, with a lid.

MXV "RB" models with ceramic ELECTRIC HEATING ELEMENTS, in ND400 manhole

Tank models MXV "RB"	Number of heating elements on MH ND400	Number of heating elements on 2nd MH ND400 (OPTIONAL)		
MXV1500RB	3, 4, 5, 6, 7 u 8	_		
MXV2000RB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8		
MXV2500RB	3, 4, 5, 6, 7 u 8	-		
MXV3000RB	3, 4, 5, 6, 7 u 8	_		
MXV3500RB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8		
MXV4000RB	3, 4, 5, 6, 7 u 8	-		
MXV5000RB 3, 4, 5, 6, 7 u 8		3, 4, 5, 6, 7 u 8		
MXV6000RB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8		



MXV "SB/SSB" models with ceramic ELECTRIC HEATING ELEMENTS, in ND400 manhole

(ONLY BACKUP HEATING)

(OPTION 1) Manhole moved to top of tank. (OPTION 2) Second manhole on top part of tank

(or not z) second manifold on top part of tank							
Tank models MXV "SB/SSB"	Number of heating elements on MH ND400 (OPTION 1)	Number of heating elements on 2nd MH ND400 (OPTION 2)					
MXV1500SB/SSB	3, 4, 5, 6, 7 u 8	-					
MXV2000SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8					
MXV2500SB/SSB	3, 4, 5, 6, 7 u 8	_					
MXV3000SB/SSB	3, 4, 5, 6, 7 u 8	-					
MXV3500SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8					
MXV4000SB/SSB	3, 4, 5, 6, 7 u 8	_					
MXV5000SB/SSB 3, 4, 5, 6, 7 u 8		3, 4, 5, 6, 7 u 8					
MXV6000SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8					



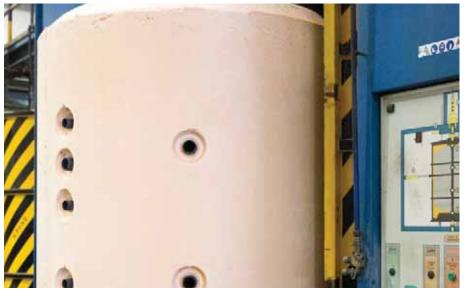
THERMAL INSULATION - MASTER INOX

10.00



The **"MASTER INOX"** series of tanks are thermally insulated at the factory by direct mould-injection with CFC and HCFC-free PU material.

This system guarantees a perfectly regular insulation thickness with optimum material density. The thicknesses indicated in the table refer to the circular tank body, but the insulation is much thicker on the top part (up to four times greater). Because the top part of the tank has better thermal protection, heat losses are much lower than those specified by the most stringent regulations, such as the DIN 4753/8 standard.



Rigid, mould-injected PU insulating material.

- Minimal heat loss!
- For hot and cold water!
- No condensation on tank body!
- Compact block, no joints!

Minimum thickness of equivalent TABLE OF THERMAL INSULATION: MASTER INOX SERIES insulation with other insulating materials (mm) ErP Thermal Static heat Flexible Insulation Rockwool* Fiberglass* k= 0,035 - 0,046 polyurethane insulation losses k= 0,034 - 0,042 Serie Туре Model thickness k= 0.025 EN 12897 foam* W/m °K PU (mm.) W/m °K (EU 812/2013) W/m °K (W) k= 0.040 W/m °K MVV-1500-RB/SB/SSB PU 110 - 140 115 - 155 MASTER INOX 80 154 C 130 MASTER INOX MVV-2000-RB/SB/SSB/S2B/SS2B PU 80 174 С 130 110 - 140 115 - 155 MASTER INOX MVV-2500-RB/SB/SSB ΡIJ 80 194 130 110 - 140 ß C 115 - 155 STORA MASTER INOX MVV-3000-RB/SB/SSB ΡIJ 80 215 130 C 110 - 140 115 - 155 MASTER INOX MVV-3500-RB/SB/SSB/S2B/SS2B ΡIJ 80 232 130 C 110 - 140 115 - 155 0 MASTER INOX MVV-4000-RB/SB/SSB ΡIJ 80 245 130 C 110 - 140 115 - 155 MASTER INOX MVV-5000-RB/SB/SSB/S2B/SS2B PU 80 266 С 130 110 - 140 115 - 155 MASTER INOX MVV-6000-RB/SB/SSB/S2B/SS2B PU 80 280 С 130 110 - 140 115 - 155

(*) Detachable systems can lose up to 25% of the insulating capacity overall, so that in that case the insulation thickness will increased proportionally

CATHODIC PROTECTION - MASTER INOX

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The "MASTER INOX" series do not require cathodic protection in normal conditions of use with drinking water (European Directive 98/83/CE).

However, depending on the installation site, drinking water conditions may differ greatly from the drinking water requirements established by current regulations. In this case, and taking as the reference a 150 mg/l chloride content limit, we recommend fitting a permanent, maintenancefree **"lapesa correx-up"** cathodic protection system in the storage tank.

"lapesa correx-up" permanent cathodic protection system:

Totally automatic!

Maintenance free!



 KIT C.P. lapesa correx-up
 Applicable to MASTER INOX tanks models:

 KITPCTIMX2A
 MXV1500RB...3000RB

 KITPCTIMX3A
 MXV3000RB...5000RB

 KITPCTIMX4A
 MXV2000SB/SSB/EB

 KITPCTIMX5A
 MXV3000SB/SSB/EB...4000SB/SSB/EB

 MXV5000SB/SSB/EB
 MXV5000SB/SSB/EB

"lapesa correx-up" permanent cathodic protection system: Maintenance-free permanent cathodic protection unit. These anodes do not wear out and they emit the necessary electric current automatically, providing the tank with cathodic protection via an individual potentiostat for each anode, connected to the mains electricity.



ACCESSORIES - MASTER INOX



EXTERNAL LINING

External lining for "MASTER INOX" tanks with top cover, ND400 side manhole cover and trims for hydraulic connections. Standard external lining: GREY / RAL 7042.

Capacity (I)	Standard (KIT reference)	Fireproof (KIT reference)	Weatherproof (KIT reference)
1500	FME1500	FME1500	FME1500/EX
2000	FME2000	FME2000	FME2000/EX
2500	FME2500	FME2500	FME2500/EX
3000	FME3000	FME3000	FME3000/EX
3500	FME3500	FME3500	FME3500/EX
4000	FME4000	FME4000	FME4000/EX
5000	FME5000	FME5000	FME5000/EX
6000	FME6000	FME6000	FME6000/EX

ALUNOX EXTERNAL LINING

External aluminium sheet lining. ALUNOX external lining is supplied ready-mounted on the tank, over the PU insulation.

Capacity	Aluminium lining
(I)	ALUNOX - Ref.
1500	FME1500/ALUNOX-B
2000	FME2000/ALUNOX-B
2500	FME2500/ALUNOX-B
3000	FME3000/ALUNOX-B
3500	FME3500/ALUNOX-B
4000	FME4000/ALUNOX-B
5000	FME5000/ALUNOX-B







2"M THREADED ELECTRIC HEATING ELEMENT.

Low charge density, threaded, immersion electric element in Incoloy for **"MASTER INOX" STORAGE and COIL** tanks.

Characteristics and power range: page: 54 -ELECTRIC HEATING-

Electric element model	KW	V	Thread	Integrated control
RA4/2-60	6,0	230/400	2"M	-
RA4/2-90	9,0	230/400	2"M	-
RA4/2-120D	12,0	230/400	2"M	-
RA4/2-120DT	12,0	230/401	2"M	Regulation and safety thermostat
RA4/2-125DT	12,5	230/400	2"M	Regulation and safety thermostat
RA4/2-150D	15,0	230/400	2"M	_
RA4/2-150DT	15,0	230/400	2"M	Regulation and safety thermostat
RA4/2-250D	25,0	230/400	2"M	-
RA4/2-250DT	25,0	230/400	2"M	Regulation and safety thermostat

(*) Regulation thermostat 0 -75 °C (adjusted to 60 °C) / Safety thermostat 90 °C

CERAMIC ELECTRIC HEATING ELEMENT, STORAGE AND COIL MODELS.

Sheathed ceramic electric heating element for "MASTER INOX" STORAGE AND COIL tanks, "RB" models in ND400 Characteristics and power range: page: 54 -ELECTRIC HEATING-

Heating element	KW	v
RCER-45	4,5	230/400
RCER-60	6,0	230/400





ND 400 PLATES FOR INSTALLATION OF ELECTRIC HEATING ELEMENTS ON ND400 SIDE MANHOLE.

ND 400 plate and protective hood in stainless steel, with 2" threaded connections to install immersion electric heating elements in ND400 side manhole.



ND 400 PLATES FOR INSTALLATION OF CERAMIC ELECTRIC HEATING ELEMENTS IN ND400 SIDE MANHOLE.

ND 400 plate and protective hood in stainless steel, for the installation of sheathed ceramic electrical heating elements ("dry" system) in ND400 side manhole.



TBH2VAINAS TBH4VAINAS TBH5VAINAS TBH6VAINAS TBH7VAINAS TBH8VAINAS

(*) Heating elements not included

DUAL CONTROL AND SAFETY THERMOSTAT

Dual control 0-75° (set at 60°C) and safety 95°C thermostat KIT, with 1/2" x 100 mm threaded sheath and 3/4"-1/2" reduction.

кп

KIT MASTER double thermostat



0-16 BAR PRESSURE GAUGE

KIT pressure gauge

KIT

KIT comprising 0-16 bar

3/4"-1/2" reduction and 1/2"-1/4" reduction

pressure gauge with



0-120°C THERMOMETER

KIT comprising 0-120°C thermometer with 1/2 " x 100 mm threaded sheath and 3/4"-1/2" reduction KIT

KIT MASTER thermometer



P & T PRESSURE AND TEMPERATURE SAFETY VALVE

 $\ensuremath{{}^{\circ}}\xspace$ P & T pressure and temperature safety valve, 8 bar, 92°C

KIT 3/4" P&T valve KIT 1 1/4" P&T valve KIT

ACCESSORIES - MASTER INOX

PLATE EXCHANGERS

COMPACT PLATE EXCHANGERS		Ref.	Number of plates	Flow rate at 50°C (l/h)	Power (kW) ⁽³⁾	Pressure drop (meters H ₂ 0)	A x B x F mm	E mm	C mm	D mm	Connections
Max. working temperature	135 / 155°C ⁽¹⁾	LPIC-01	20	1.000	45	< 3	73 x 192 x 42,32	20,1	40	154	3/4"
Max working pressure	16 / 25 bar ⁽²⁾	LPIC-02	20	2.000	90	< 6	73 x 315 x 42,32	20,1	40	278	3/4"
Applications	Fluid/Fluid	LPIC-03	20	3.000	140	< 6	119 x 289 x 48,8	45	72	243	1"
Chassis	AISI 316	LPIC-04	30	4.000	185	< 6	119 x 289 x 71,2	45	72	243	1"
		LPIC-05	40	5.000	235	< 6	119 x 289 x 93,6	45	72	243	1"
Plates	AISI 316	LPIC-07	40	7.000	325	< 8	119 x 376 x 93,6	45	63	320	1-1/4"
Connections	AISI 316	LPIC-10	60	10.000	465	< 8	119 x 376 x 136,4	45	63	320	1-1/4"
Additional features	Thermal Insulation	LPIC-12	70	12.000	560	< 8	119 x 376 x 160,8	45	63	320	1-1/4"

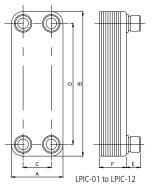
(1) Maximum working temperature for LPIC-01 and LPIC-02 models 135°C, for rest of models 155°C

(2) Maximum working pressure for LPIC-01 and LPIC-02 models 16 bar, for rest of models 25 bar

(3) Power defined according to: Primary 90/60°C and secondary 10/50°C

Optional: Other pressures, temperatures or fluids





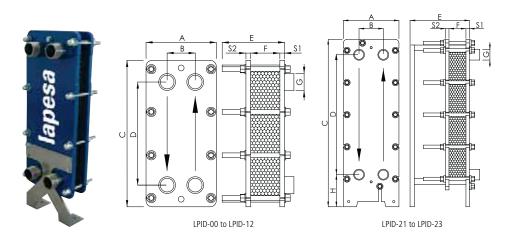
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Number of plates Flow rate at 50°C (l/h) Power (kW)⁽³⁾ Pressure drop (meters H₂0) AxCxF E(max) В D н G DETTACHABLE PLATE EXCHANGERS Ref. mm mm mm mm mm mm Max. working temperature 110°C LPID-00 1.000 48 204 x 490 x 13,25 86 381 1-1/4" 5 < 3 290 10 bar LPID-01 1.300 60 204 x 490 x 18,55 86 381 1-1/4" Max. working pressure 7 < 3 290 Fluid/Fluid LPID-02 11 2.600 120 < 3 204 x 490 x 29,15 290 86 381 1-1/4" Applications Chassis Carbon steel LPID-03 3.200 148 204 x 490 x 34,45 290 86 381 1-1/4" 13 < 3 Plates AISI 316 LPID-04 4.200 195 204 x 490 x 45,05 1-1/4" 17 < 3 290 86 381 Connections AISI 316 LPID-05 5.200 240 204 x 490 x 55,65 1-1/4" 21 < 3 290 86 381 Gaskets EPDM LPID-07 6.600 305 204 x 490 x 71,55 1-1/4" 27 < 3 290 86 381 Thermal Insulation Additional features LPID-10 8.600 400 204 x 490 x 98,05 1-1/4" 37 < 3 290 86 381 Support leg (4) LPID-12 10.000 465 1-1/4" 45 < 3 204 x 490 x 119,25 290 86 381 LPID-21 23 15.700 725 < 3 312 x 963 x 80,5 960 140 690 2" 185 LPID-22 29 20.500 950 < 3 960 690 185 2" 312 x 963 x 101.5 140 LPID-23 25.000 185 2" 35 1155 < 3 312 x 963 x 122.5 960 140 690

(3) Power defined according to: Primary 90/60°C and secondary 10/50°C

(4) For models LPID-00 to LPID-12

Optional: Other pressures, temperatures or fluids Chassis and plates in AISI-304, AISI-316 or Titanium



DATA REQUIRED TO PROVIDE A QUOTE FOR A CUSTOM PLATE EXCHANGER

To provide a specific offer of the most suitable plate heat exchanger for each particular case, the following details on the primary and secondary circuits are required: • Primary and secondary circuit flows

- Input/output temperatures of the primary and secondary circuits
- Physical properties of the liquids (if they are neither water nor steam), density and specific heat.
- Required working pressure
- Pressure drop



VITREOUS ENAMELLING (protective surface treatment of steel): Vitreous enamelling for domestic hot water storage tanks is by far the most suitable lining of all those that exist on the market for this type of product made of carbon steel that requires special protection of the metal surfaces in contact with water.

MAXIMUM BONDING-MOLECULAR INTERACTION: Applying a sophisticated "surface treatment" to the metal surface together with an automated process for the application of the enamel, results in much more than just a good mechanical adherence of the lining. During the curing process a **molecular interaction** occurs between the steel surface and the enamel coat applied.

This **maximum bonding** of the enamel coat to the steel surface and the high degree of **impermeability** of the vitreous enamelling, guarantee the durability of the product and prevents the kind of deterioration that can occur with other types of coatings, such as the detachment or blistering of the protective coat.

FOOD GRADE: Vitreous enamelling is a food-quality, impermeable lining with a porcelain look that protects the metal surface of the storage tank in contact with water.

All internal linings in DHW tanks must, by law, be "food grade" (Royal Decree 891/2006 and EC Regulation 1935/2004).

Our vitreous enamelling, in addition to food grade certification at the test temperature specified in current regulations (22°C), has **food grade certification at 120°C**, which guarantees its maximum quality at extreme working temperatures.

MAXIMUM WORKING TEMPERATURE: It withstands the maximum DHW storage temperatures that these types of installation (95°) handle, without any deterioration or detachment thanks to its capacity of molecular interaction with the steel surface.

This treatment is carried out by applying an enamel (inorganic chemical product) by either a "dry" or "wet" method (depending on the type of tank and its internal geometry), and then carrying out curing in an oven at 850°C.

DHW PRODUCTION/STORAGE TANKS

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DESIGN AND INTERNAL GEOMETRY: The design of our "CORAL VITRO" and "MASTER VITRO" storage tanks is based on the DIN/4753 T3 standard along with the company's own input based on **lapesa**'s extensive experience in this type of product.

SPECIFIC DESIGN: Design mainly focused on guaranteeing the optimum end quality of the vitreous enamelling treatment applied to the internal metal surface in contact with DHW to prevent any cause of defects in the lining.

THREADED CONNECTIONS: Threaded connections to the tank in our vitreous enamelled tanks are external or male thread connections in order to totally protect the inner surface of the hydraulic connections in contact with DHW. A threaded bush with an internal or female thread could not be enamelled on its inner face as this is the thread face and part of the surface may be left unprotected and thus exposed to the effects of corrosion.

ANTI-LEGIONELLA DESIGN: Our "CORAL VITRO" and "MASTER VITRO" series of storage tanks with incorporated heat exchange systems are designed to prevent cold zones inside the storage tank and thus the possible proliferation of bacteria such as Legionella.



"CORAL VITRO" coil.



APPLICABLE DIRECTIVES AND STANDARDS:

Directive 2014/68/UE: European Pressure Equipment Directive. Royal Decree 865/2003 that establishes hygiene-health criteria for the prevention and control of Legionnaires' disease. Regulation on thermal installations in buildings (RITE) and its accompanying technical instructions. UNE 100030:2005 IN STANDARD: Guide for the prevention and control of the proliferation and dissemination of legionella in installations. UNE 112076:2004 IN STANDARD: Prevention of corrosion in water circuits.

CORAL VITRO (80 TO 1500 LITRES):

- Individual installations for the production/storage of DHW
- Single-family homes
- Gymnasiums and sports centres
- Clinics and hospitals
- Laboratories
- Restaurants, cafeterias, bars
- Laundries
- Schools and universities
- Solar and other renewable energy installations
- DHW centralized systems (battery installation

MASTER VITRO (1500 TO 6000 LITRES):

- Individual installations for production/storage with large DHW consumptions
- Collective housing
- Gymnasiums and sports centres
- Clinics and hospitals
- Laboratories
- Restaurants, cafeterias, bars
- Hotels
- Laundries
- Schools and universities
- Solar and other renewable energy installations
- Industrial installations (individual or battery installation)
- Large DHW consumptions (individual or battery installation)
- Centralized DHW systems in buildings (individual or battery installation)



DHW PRODUCTION/STORAGE TANKS

CORAL VITRO - VITREOUS ENAMELLED STEEL

STORAGE models, energy savings!

Designed to provide maximum energy storage capacity, with overdimensioned rigid, mould-injected PU thermal insulation, these models maintain the DHW storage temperature for a long time without the need for any additional energy input, affording users continued savings throughout the life of the storage tank.



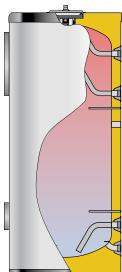
STORAGE TANKS: Designed to provide an extraordinary storage capacity that translates directly into real savings.

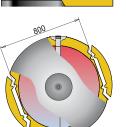
The overdimensioned, rigid, mould-injected PU thermal insulation maintains the DHW storage temperature over long periods of time without requiring additional energy input. This means less start-ups and adjustments of external energy sources, which in turn translates to less energy consumption.

Storage tanks without their own heat exchange system, ready for the installation of plate heat exchangers and/or electric immersion elements as the heating source.

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DHW PRODUCTION/STORAGE TANKS CORAL VITRO - **STORAGE**





Detail of pre-cut insulation on 800 and 1000 litre tanks for access through 800 mm wide doors.

LONG-LASTING PRODUCT: VITREOUS ENAMELLED STEEL storage tank according to DIN 4753 T3: **Food grade impermeable** lining with a porcelain look that protects the metal surface of the storage tank in contact with water

EASY TO MAINTAIN: With access to tank interior through side and top holes, for inspection and cleaning. Models RB have a ND400 manhole on the side of the tank.

EASY TO INSTALL: Their dimensions facilitate access to enclosed spaces, even the models with capacities of 800 and 1000 litres, with a removable system for the insulation on the two opposite sides of the tank, allowing them access through 800 mm wide entrances.

CATHODIC PROTECTION: All of the CORAL VITRO models include cathodic protection which consists of magnesium anodes and an anode charge meter for control and maintenance purposes.

As an option these tanks can be fitted with "lapesa correx-up" permanent cathodic protection.

ELECTRIC HEATING: Ready to be fitted with Incoloy, low charge density electric immersion elements or with ceramic heating elements (see ELECTRIC HEATING chapter, page: 86)

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mould-injected insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 89)

lapesa storage tanks have minimal heat losses and for this reason are considered to be one of the products with the greatest storage capacity on the market.





FEATURES COMMON TO ALL "CORAL VITRO" STORAGE MODELS:

- VITREOUS ENAMELLED STEEL DHW storage tanks according to DIN 4753 T3
- Capacities: 200, 300, 500, 800,1000 and 1500 litres
- Maximum working pressure of DHW storage tank: 8 bar (10 bar optional)
- Maximum working temperature of DHW storage tank: 90 °C
- Thermal insulation: Rigid, mould-injected PU (CFC/HCFC-free, 0.025 W/m°K)
- External lining: RAL 9016 WHITE padded PVC external lining with zip fastener, RAL 7045 GREY cover
- Cathodic protection: Magnesium anodes with anode charge meter on cover
- Tanks for VERTICAL installation on floor.

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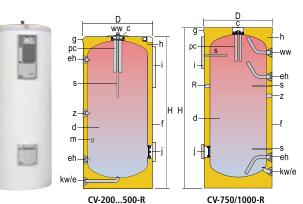
DHW PRODUCTION/STORAGE TANKS CORAL VITRO - STORAGE

CORAL VITRO "R"

Tanks for DHW STORAGE. DHW production is by an external heat exchange system (plate heat exchanger) They can be fitted with immersion electric elements or ceramic electric elements. Tanks of 800 litre and 1000 litre capacities include an insulation system that allows access through 800 mm wide doors. Cathodic protection with magnesium anodes and anode charge meter.

Finish: RAL 9016 white padded external lining and RAL 7035 grey cover (1500 litre model - black cover)

EQUIPMENT: Control panel "T" with thermometer (except model CV1500R).



CV-200...500-R

c - Top inspection hole

- d DHW tank
- f Outer lining
- g Cover
- h Thermal insulation
- i Control panel j - Inspection hole
- s Probe tube for sensors
- pc- Cathodic protection anode
- e Drain

GENERAL CHARACTERISTICS		CV-200-R	CV-300-R	CV-500-R	CV-800-R	CV-1000-R	CV-1500-R
DHW capacity	I.	200	300	500	800	1000	1500
D: external diameter H: overall height	mm. mm.	620 1205	620 1685	770 1690	950 1840	950 2250	1160 2320
kw/e: cold water inlet / drain ww: DHW outlet z: recirculation m: Probe tube connection for sensors eh: plate exchanger connection R: side connection	" GAS/M " GAS/M " GAS " GAS/M " GAS/M " GAS	1 1 1/4 M 3/4 1 1/4 -	1 1 1/4 M 3/4 1 1/4 -	1 1 1/4 M 3/4 1 1/4 -	1 1/4 1 1/2 1 1/2 H - 1 1/2 1 1/2 H	1 1/4 1 1/2 1 1/2 H - 1 1/2 1 1/2 H	1 1/2 1 1/2 1 1/2 M 3/4 2 2M
Empty weight (approx.)	Kg	70	90	130	170	200	343

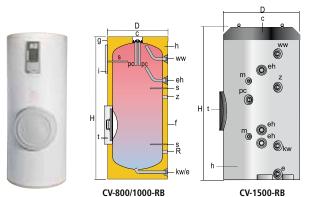
CORAL VITRO "RB"

Tanks for DHW STORAGE. DHW production is by an external heat exchange system (plate heat exchanger) The "RB" models include a ND 400 side manhole. They can be fitted with immersion electric elements or ceramic electric elements. Tanks with a capacity of 800 and 1000 litres include an insulation system that allows access through 800 mm wide doors. Cathodic protection with magnesium anodes and anode charge meter. Finish: RAL 9016 white padded external lining and RAL 7035 grey cover (1500 litre model - black cover)

EQUIPMENT:

Control panel "T" with thermometer (except model CV1500RB).





CV-800/1000-RB

- c Top inspection hole
- d DHW tank
- f Outer lining a - Cover
- h Thermal insulation
- i Control panel
- Side hole ND400
- s Probe tube for sensors
- pc- Cathodic protection anode
- . e Drain

CV 800 PD CV 1000 PD CV 1500 PD

GENERAL CHARACTERISTIC	LS	CV-800-RB	CV-1000-RB	CV-1500-RB
DHW capacity	l.	800	1000	1500
D: external diameter H: overall height	mm. mm.	950 1840	950 2250	1160 2320
kw/e: cold water inlet / drain ww: DHW outlet z: recirculation m: Probe tube connection for sensors eh: plate exchanger connection R: side connection	" GAS/M " GAS/M " GAS " GAS/M " GAS/M " GAS/F	1 1/4 1 1/2 1 1/2 F - 1 1/2 1 1/2	1 1/4 1 1/2 1 1/2 F - 1 1/2 1 1/2	1 1/2 1 1/2 1 1/2 M 3/4 2 -
Side manhole	ND mm.	ND400	ND400	ND400
Empty weight (approx.)	Kg	170	230	373



CORAL VITRO

Service, comfort and savings, with the best quality-price ratio.





Models with COIL, production and efficiency!

Tanks with high-efficiency, internal heat exchange coils for high DWH production demands at peak flow. Their overdimensioned, rigid, mould-injected PU thermal insulation maintains DHW storage temperature for long periods without the need for any additional energy input, providing users with continued savings throughout the life of the storage tank.



STORAGE TANKS WITH COIL: Tanks with highefficiency, internal heat exchange coils for high DWH production demands at peak flow.

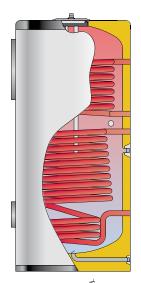
Models with one or two coils for the production of DHW using one or two energy sources, with the option of adding backup electric heating elements.

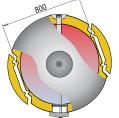
Overdimensioned, rigid, mould-injected PU thermal insulation maintains the DHW storage temperature over long periods of time without requiring additional energy input. This means less start-ups and adjustments of external energy sources, which translates to energy savings.

LONG-LASTING PRODUCT: VITREOUS ENAME-LLED STEEL storage tank according to **DIN 4753 T3** Food grade impermeable lining with a porcelain look that protects the metal surface of the storage tank in contact with water



DHW PRODUCTION/STORAGE TANKS CORAL VITRO - **COIL**





Detail of pre-cut insulation on 800 and 1000 litre tanks for access through 800 mm wide doors.

ANTI-LEGIONELLA DESIGN: High-efficiency coils designed to heat from the lowest zone in the storage tank preventing cold storage zones inside the tank and thus the possibility of the proliferation of bacteria such as Legionella.

EASY TO MAINTAIN: With access to tank interior through side and top ports, for inspection and cleaning. In models M1B/M2B there is a ND400 manhole on the side of the tank.

EASY TO INSTALL: Their dimensions facilitate access to enclosed spaces, even the models with capacities of 800 and 1000 litres, with a detachable system for the insulation on the two opposite sides of the tank, allowing access through 800 mm wide entrances.

ELECTRIC HEATING: Ready to be fitted with Incoloy, low charge density electric immersion elements or with ceramic heating elements, with integrated control and regulation units. (See ELECTRIC HEATING chapter, page: 86).

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mould-injected insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 89).

lapesa storage tanks have minimal heat losses and for this reason are considered to be one of the products with the greatest storage capacity on the market.





FEATURES COMMON TO ALL "CORAL VITRO" COIL MODELS:

- VITREOUS ENAMELLED STEEL DHW storage tank according to DIN 4753 T3
- Capacities: 200, 300, 500, 800, 1000 and 1500 litres
- Maximum working pressure of DHW storage tank: 8 bar (10 bar optional)
- Maximum working pressure of coil/s: 25 bar
- Maximum working temperature of DHW storage tank: 90 °C
- Maximum working temperature of coil/s: 200 °C
- Thermal insulation: Rigid, mould-injected PU (CFC/HCFC-free, 0.025 W/m°K)
- External lining: RAL 9016 WHITE padded PVC external lining with zip fastener, RAL 7035 GREY cover
- Cathodic protection: Magnesium anodes with anode charge meter on cover
- Tanks for VERTICAL installation on floor.

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DHW PRODUCTION/STORAGE TANKS CORAL VITRO - COIL

CORAL VITRO "M1S"

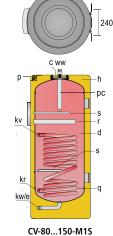
Storage tanks with **"ONE COIL"** for the production of DHW using an external energy source. Specialy designed for **DISTRIBUTED SOLAR ENERGY** installations. With sheath incorporated for backup ceramic electric heating element. Cathodic protection with magnesium anode and anode charge meter. Finish: RAL 9016 padded external lining and RAL 7035 grey cover. Designed for wall mounting for models up to 150 litres capacity.

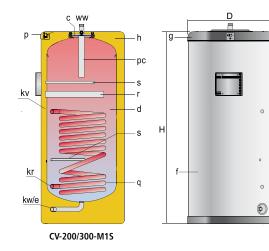
OPTIONAL EQUIPMENT:

KIT: ceramic heating element with dual control and safety thermostat for backup electric heating. Brackets for wall mounting, up to model CV-150-M1S.









GENERAL CHARACTERISTICS		CV-80-M1S	CV-110-M15	CV-150-M1S	CV-200-M1S	CV-300-M1S
DHW capacity	I.	80	110	150	200	300
D: external diameter H: overall height	mm. mm.	480 935	480 1155	560 1265	620 1205	620 1685
kw/e: cold water inlet / drain ww: DHW outlet kv: primary input kr: primary return	" GAS/M " GAS/M " GAS/F " GAS/F	3/4 3/4 1/2 1/2	3/4 3/4 1/2 1/2	3/4 3/4 1/2 1/2	1 1 1/2 1/2	1 1 1/2 1/2
Heating coil surface	m²	0,3	0,5	0,6	0,8	1,3
Empty weight (approx.)	Kg	43	51	65	72	91

- c Top inspection hole
- d DHW tank f - Outer lining
- g Cover
- q Heating coil
- h Thermal insulation
- s Probe tube for sensors
- r Electric element sheath p - Anode meter
- pc- Cathodic protection anode

DHW PRODUCTION/STORAGE TANKS CORAL VITRO - COIL

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Storage tanks with ONE COIL for the production of DHW using an external energy source, such as a boiler or solar pannels. ONLY WALL MOUNTING INSTALLATION, with connections on the lower part. Cathodic protection with magnesium anode and anode charge meter. Finish: RAL 9016 padded external lining and RAL 7035 grey cover.

EQUIPAMIENTO OPCIONAL:

Immersion electric heating element, 1500 W, with dual control and safety thermostat for backup electric heating.





C\	/	- N	/11	М

CARACTERÍSTICAS GENERALE	s	CV-90-M1M	CV-120-M1M	CV-160-M1M
DHW capacity	I.	90	110	150
D: external diameter	mm.	480	480	560
H: overall height	mm.	850	1155	1095
kw: cold water inlet / drain	" GAS/M	3/4	3/4	3/4
ww: DHW outlet	" GAS/M	3/4	3/4	3/4
kv: primary input	" GAS/H	1/2	1/2	1/2
kr: primary return	" GAS/H	1/2	1/2	1/2
R: connexion for electric heating element	" GAS/H	1-1/2	1-1/2	1-1/2
Heating coil surface	m²	0,3	0,6	0,8
Empty weight (approx.)	Kg	43	51	65

c - Top inspection hole

d - DHW tank

f - Outer lining g - Cover

h - Thermal insulation

p - Drain connexion

pc- Cathodic protection anode q - Coil

R - Electric element connexion

tm - Probe tube for sensors



DHW PRODUCTION/STORAGE TANKS CORAL VITRO - COIL

CORAL VITRO "M1"

Storage tanks with "ONE COIL" for the production of DHW using an external energy source (boiler, solar panels, heat pump, etc.).

They can be fitted with immersion electric elements or ceramic electric elements.

800 and 1000 litre capacity tanks include an insulation system that allows them to pass through 800 mm wide doors. "M1B" models with ND400 side manhole.

Vertical WALL installation up to the 150 liter model.

Cathodic protection with magnesium anodes and anode tester (CV-110 ... 500-M1), or with direct contact magnesium anodes (CV-800 ... 1500-M1 / M1B).

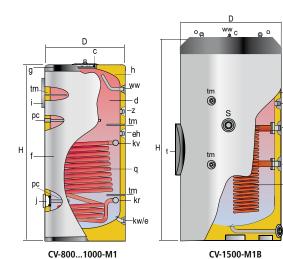
Finishing consisting of a white RAL 9016 jacket and a gray RAL 7035 top cover fitted at the factory (except CV1500M1B model fitted with gray RAL 7042 jacket delivered separately).

Optionally, immersion or ceramic electrical heating elements (see p. 86) regulated by means of a control panel for the capacities below 1,000 liters (see p. 88) or a double thermostat for the CV1500M1B (see p. 74).

EQUIPMENT:

Thermometer in "TS" side panel (except models CV1500M1 and CV1500M1B). Brackets for wall mounting, up to model CV-150-M1





c - Top inspection hole kw/e - Cold water inlet / drain

eh - Side connection f - Outer lining

d - DHW tank

- g Cover
- h Thermal insulation
- Control panel i
- Inspection hole
- Lifting eyes Ο
- pc Cathodic protection anode
- q Heating coil
- t Side manhole ND400
- tm Probe tube connection for sensors

kw/e

GENERAL CHARACTERI	STICS	CV 110-M1	CV 150-M1	CV 200-M1	CV 300-M1	CV 500-M1	CV 800-M1	CV 1000-M1	CV 1500-M1	CV 800-M1B	CV 1000-M1B	CV 1500-M1B
DHW capacity	Ι.	110	150	200	300	500	800	1000	1500	800	1000	1500
D: external diameter H: overall height	mm. mm.	480 1155	560 1265	620 1205	620 1685	770 1690	950 1840	950 2250	1160 2320	950 1840	950 2250	1160 2320
kw/e: cold water inlet / drain ww: DHW outlet z: recirculation eh: side connection kv: primary input kr: primary return	" GAS/M " GAS/M " GAS/M " GAS " GAS/F " GAS/F	3/4 3/4 - 1/2 1/2	3/4 3/4 - 1/2 1/2	1 1 1 - 1 1	1 1 2 M 1 1	1 1 2 M 1 1	1 1/4 1 1/2 1 1/2 1 1/2 H 1 1	1 1/4 1 1/2 1 1/2 1 1/2 H 1 1	1 1/2 1 1/2 1 1/2 2 M 1 1	1 1/4 1 1/2 1 1/2 1 1/2 H 1 1	1 1/4 1 1/2 1 1/2 1 1/2 H 1 1	1 1/2 1 1/2 1 1/2 2 M 1 1
Heating coil surface	m ²	0,6	0,8	1,4	1,8	2,0	2,7	3,3	4,0	2,7	3,3	4,0
Side manhole	ND mm.	-	-	-	-	-	-	-	-	ND400	ND400	ND400
Empty weight (approx.)	Kg	55	66	85	115	160	195	230	394	225	260	424

DHW PRODUCTION/STORAGE TANKS CORAL VITRO - **COIL**

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CORAL VITRO "M2"

Storage tanks with **"TWO COILS"** for the production of DHW using two combined external energy sources (boiler, solar panels, heat pump, etc.).

They can be fitted with immersion electric elements or ceramic electric elements.

The 800 and 1000 litre capacity tanks include an insulation system that allows them to pass through 800 mm wide doors. "M2B" models with ND400 side manhole.

Cathodic protection with magnesium anodes and anode tester (CV-300 ... 500-M2), or with direct contact magnesium anodes (CV-800 ... 1000-M2 / M2B).

Finishing consisting of a white RAL 9016 jacket and a gray RAL 7035 top cover fitted at the factory.

Optionally, immersion or ceramic electrical heating elements (see p. 86) regulated by means of a control panel for the capacities below 1,000 liters (see p. 88).

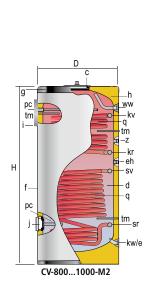
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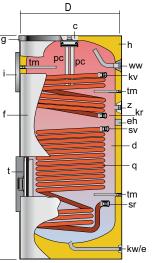
EQUIPMENT:

Thermometer in "TS" side panel (except models CV1500M2 and CV1500M2B).









c - Top inspection hole d - DHW tank

- kw/e Cold water inlet / drain
- eh Side connection
- f Outer lining

t

- g Cover
- h Thermal insulation
 - Control panel
- j Side hole pc - Cathodic protection anode
- q Heating coil

Side manhole ND400

tm - Probe tube connection for sensors

CV-800...1000-M2B

GENERAL CHARACTERISTICS CV-300-M2 CV-400-M2 CV-500-M2 CV-800-M2 CV-1000-M2 CV-1500-M2 CV-800-M2B CV-1000-M2B CV-1500-M2B DHW capacity ١. 300 400 500 800 1000 1500 800 1000 1500 620 770 770 950 950 1160 950 950 1160 D: external diameter mm H: overall height 1685 1690 1840 2250 mm. 1475 1840 2250 2320 2320 " GAS/M 1 1/2 1 1/4 kw/e: cold water inlet / drain 1 1/4 1 1/4 1 1/4 1 1/2 1 1 ww. DHW outlet " GAS/M 1 1/2 1 1 1 1 1/2 1 1/2 1 1/2 1 1/2 2 " GAS/M z: recirculation 1 1/2 1 1/2 1 1/2 1 1/2 1 1/2 3/4 1 1 1 2 M 1 1/2 H 1 1/2 H eh: side connection " GAS 2 M 2 M 1 1/2 H 2 M 1 1/2 H 2M kv, kr: upper coil connections " GAS/F 1 1 1 1 1 1 1 1 1 " GAS/F sv, sr: lower coil connections 1 1 1 1 1 1 1 1 1 Lower coil heating surface m² 1,8 1,5 2,0 2,7 3,3 4,0 2,7 3,3 3.4 Upper coil heating surface m³ 0,7 0,7 1,2 1,3 1,3 1,3 1,3 1,3 1,3 ND400 Side manhole ND mm _ ND400 ND400 _ Empty weight (approx.) 120 150 175 213 249 415 243 279 445 Kg

DHW PRODUCTION/STORAGE TANKS CORAL VITRO - COIL

CORAL VITRO "HL" -

Storage tanks with **ONE HIGH-PERFORMANCE COIL**, with a large heat exchange surface area for the production of DHW by means of low-temperature energy sources such as heat pumps or solar collectors with low solar radiation. They can be equipped with flanged immersion electric heating elements in the side hole.

800 and 1000 litre capacity tanks include an insulation system that allows them to pass through 800 mm wide doors. "HLB" models with ND400 side manhole.

Cathodic protection with magnesium anodes and anode charge meter.

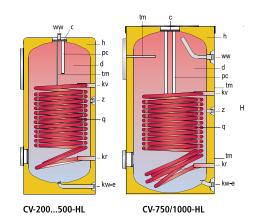
Finish: RAL 9016 white padded external lining and RAL 7035 grey cover.

EQUIPMENT:

Thermometer in "TS" side panel..







c - Top inspection hole

- d DHW tank
- f Outer lining
- g Cover
- h Thermal insulation
- i Control panel
- j Side hole
- q High performance heating coil tm- Probe tube connection for sensors
- pc- Cathodic protection anode

GENERAL CHARACTERIS	TICS	CV-200-HL	CV-300-HL	CV-400-HL	CV-500-HL	CV-750-HL	CV-1000-HL	CV-800-HLB	CV-1000-HLB
DHW capacity	l.	200	300	400	500	750	1000	800	1000
D: external diameter H: overall height	mm. mm.	620 1205	620 1685	770 1475	770 1690	950 1840	950 2250	950 1840	950 2250
kw/e: cold water inlet / drain ww: DHW outlet z: recirculation kv: primary input kr: primary return	" GAS/M " GAS/M " GAS/M " GAS/F " GAS/F	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1/4 1 1/2 1 1/2 1 1			
Heating coil surface	m²	2,4	3,1	4,8	4,8	5,7	6,1	5,7	6,1
Side manhole	ND mm.	-	-	-	-	-	-	ND 400	ND 400
Empty weight (approx.)	Kg	100	130	185	195	270	310	300	345



DHW PRODUCTION/STORAGE TANKS CORAL VITRO - **COIL**

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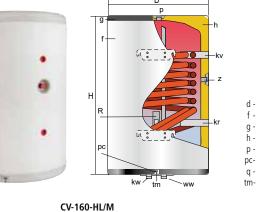
Storage tanks with **ONE HIGH-PERFORMANCE COIL**, with a large heat exchange surface area for the production of DHW by means of low-temperature energy sources such as **heat pumps, solar collectors or boilers**. Only **WALL MOUNTING** installation, with connexions on the lower part. Cathodic protection with magnesium anodes and anode charge meter. Finish: RAL 9016 white padded external lining and RAL 7035 grey cover.

OPTIONAL EQUIPMENT:

KIT: ceramic heating element with dual control and safety thermostat for backup electric heating element.



GENERAL CHARACTER	ISTICS	CV-160-HL/M
DHW capacity	I.	160
D: external diameter H: overall height	mm. mm.	620 969
kw: cold water inlet/drain ww: DHW outlet z: recirculation p: drain kv: primary input kr: primary return	"GAS/M "GAS/M "GAS/M "GAS/M "GAS/F "GAS/F	3/4 3/4 3/4 3/4 1 1
Heating coil surface	m ²	1,7
Empty weight (approx.)	kg	80





- d DHW tank
- f Outer lining
- g Cover h - Thermal insulation
- p Drain
- pc- Cathodic protection anode
- q High performance heating coil
- tm- Probe tube connection for sensors
- II- I Tobe tube connection for sen

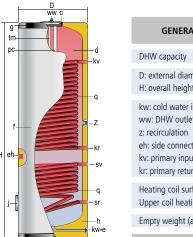
CORAL VITRO "HL-DUO"

Storage tanks with **TWO HIGH PERFORMANCE COILS** for the production of DHW using two combined external low temperature energy sources solar panel and heat pump. Cathodic protection with magnesium anodes and anode charge meter. Finish: RAL 9016 white padded external lining and RAL 7035 grey cover.

EQUIPMENT:

They can be equipped with an immersion threaded electrical heating element.





GENERAL CHARACTE	RISTICS	CV-350 HL/DUO
DHW capacity	I.	350
D: external diameter H: overall height	mm. mm.	620 1935
kw: cold water inlet / drain ww: DHW outlet z: recirculation eh: side connection kv: primary input kr: primary return	" GAS/M " GAS/M " GAS/M " GAS/F " GAS/F " GAS/F	1 1 1 1/2 1 1
Heating coil surface Upper coil heating surface	m ² m ²	1.3 3.5 164
Empty weight (approx.)	Kg	104



DOUBLE-WALL models, multifunctional storage tanks!

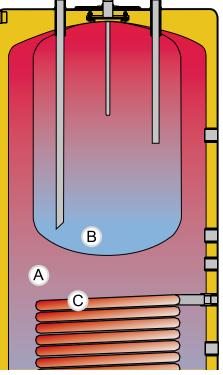
The water contained in the surrounding or primary tank is heated by an external energy source (boiler, heat pump, solar collectors, etc.) that passes through this vessel and transmits its thermal energy to the water contained in the inner tank or DHW storage tank.

DOUBLE-WALL TANKS: The DOUBLE-WALL system basically consists of a combination of two tanks, one inside the other. DHW production takes place by the exchange of heat from the external or primary tank to the internal or secondary tank (DHW), through the tank's entire surface.

The water contained in the surrounding or primary tank is heated by an external energy source (boiler, heat pump, solar collectors, etc.) that passes through this vessel or through the solar coil and transmits its thermal energy to the water contained in the inner tank or DHW storage tank.

LONG-LASTING PRODUCT: VITREOUS ENA-

MELLED STEEL storage tank according to **DIN 4753 T3**. Food grade impermeable lining with a porcelain look that protects the metal surface of the storage tank in contact with water.



(A) BUFFER TANK. (B) DHW TANK. (C) SOLAR COIL.

DHW PRODUCTION/STORAGE TANKS CORAL VITRO - **DOUBLE WALL**

MULTIFUNCTIONAL: Multifunctional design allowing several energy sources to be combined at the same time. Large thermal energy storage capacity in primary heating circuit as an inertia buffer. An electric heating element can be incorporated in the primary circuit (surrounding tank), which is free of limescale or corrosion.

INERTIA BUFFER + DHW STORAGE TANK: The combination of an inertia buffer and DHW double wall production/storage tank in one single product. Ideal for installations with HEAT PUMPS, BIOMASS BOILERS OR SOLAR COLLECTORS, or the combination of several energy sources.

ANTI-LEGIONELLA DESIGN: Totally uniform DHW storage temperature, with no cold zones inside the

storage tank. The surround heating of the DHW produces a uniform water storage temperature throughout the whole of the tank, which in turn allows it to be used to its full capacity.

EASY TO INSTALL: Their dimensions facilitate access to enclosed spaces (even the models with capacities greater than 800 litres), with a detachable system for the insulation on the two opposite sides of the tank, allowing them access through 800 mm wide entrances.

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mould-injected insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 89)



CE

FEATURES COMMON TO ALL "CORAL VITRO" DOUBLE WALL MODELS:

- VITREOUS ENAMELLED STEEL DHW storage tank according to DIN 4753 T3
- Capacities: 600/150, 800/150 and 1000/200 litres
- Maximum working pressure of DHW storage tank: 8 bar (10 bar optional)
- Maximum working temperature of DHW storage tank: 90 °C
- Maximum working pressure of surrounding tank (primary circuit): 3 bar
- Maximum working temperature of surrounding tank (primary circuit): 110 °C
- Thermal insulation: Rigid, mould-injected PU (CFC/HCFC-free, 0.025 W/m°K)
- External lining: RAL 9016 WHITE padded PVC external lining with zip fastener, RAL 7045 GREY cover
- Cathodic protection: **Magnesium anodes** with anode charge meter on cover
- Tanks for VERTICAL installation on floor.

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DHW PRODUCTION/STORAGE TANKS CORAL VITRO - **DOUBLE WALL**

CORAL VITRO "P"

"DOUBLE-WALL" tanks termed **"MULTIFUNCTIONAL"** are known as such because several different energy sources can be installed for one single tank.

The production of DHW is carried out by heat exchange between the primary (external) circuit and the DHW (internal) tank via several external energy sources (boiler, solar panels, heat pump, electric heating element, etc.) simultaneously coupled to the tank.

These tanks have a large capacity primary circuit acting as a thermal inertia buffer (for solid fuel or biomass boilers and/or heat pump), which houses a coil with a large heat exchange surface, specially designed for solar energy.

The DHW tank is equipped with cathodic protection with magnesium anodes.

Prepared for the installation of an electric heating element in the primary circuit.

Finish: RAL 9016 padded external lining and RAL 7035 grey covers.

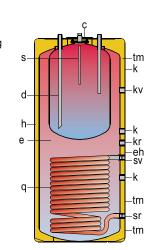
EQUIPMENT:

"TS" panel with DHW thermometer. OPTIONAL: "TD", "TPA" control panels (see REGULATION AND CONTROL chapter, page: 88).









c - Top inspection hole

- d DHW tank
- e Primary tank f - External lining
- g Cover
- h Thermal insulation
- i Thermometer
- s Probe tube for sensors
- q Solar coil tm- Primary connection for sensors

GENERAL CHARACTERIS	STICS	CV-600-P	СV-800-Р	CV-1000-P
Total capacity	l.	580	773	970
DHW capacity	I.	150	150	200
Primary HW capacity	I.	430	623	770
D: external diameter	mm.	770	950	950
H: overall height	mm.	1730	1840	2250
kw: cold water inlet ww: DHW outlet z: recirculation kv: primary input kr: primary return sv: coil inlet sv: coil return eh: side connection	" GAS/M " GAS/M " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F	1 1 1 1/4 1 1/4 1 1 2	1 1 1 1/4 1 1/4 1 1 2	1 1 1 1/4 1 1/4 1 1 2
k: side connection	" GAS/F	1 1/4	1 1/4	1 1/4
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2
Coil surface	m²	2,4	2,7	2,7
Control panel	model	TS	TS	TS
Empty weight (approx.)	Kg	170	260	290

DHW PRODUCTION/STORAGE TANKS CORAL VITRO - DOUBLE WALL



DOUBLE-WALL tanks termed MULTIFUNCTIONAL are known as such because several different energy sources can be installed on one single tank.

The production of DHW is carried out by heat exchange between the primary (external) circuit and the DHW (internal) tank via several external energy sources (boiler, solar panels, heat pump, electric heating element, etc.) simultaneously coupled to the tank.

These tanks have a large capacity primary circuit acting as a thermal inertia buffer (for solid fuel or biomass boilers and/or heat pump), which houses a coil with a large heat exchange surface, specially designed for solar energy.

The DHW tank is equipped with cathodic protection with magnesium anodes.

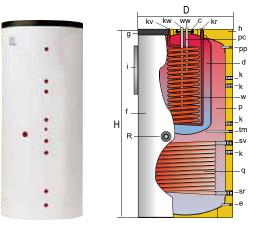
Prepared for the installation of an electric heating element in the primary circuit.

Finish: RAL 9016 padded external lining and RAL 7035 grey covers.

EQUIPMENT:

"T" panel with DHW thermometer. OPTIONAL: "TD", "TPA", "TBC" control panels (see REGULATION AND CONTROL chapter, page: 88).





c - Top inspection hole d - DHW tank

f - External lining

g - Cover

h - Thermal insulation

i - Control panel

p - Surrounding camera

pc- Cathodic protection

q - Solar coil

R - Electric heating element w - Supporting coil

GENERAL CHARACTER	RISTICS	CV-800-P/DUO	CV-1000-P/DUO
Total capacity	և	765	991
DHW capacity	և	176	228
Surrounding tank capacity	Լ	589	657
D: external diameter	mm.	950	950
H: overall height	mm.	1840	2250
kw: cold water inlet / drain ww: DHW outlet kv: primary input kr: primary return sv: coil inlet sr: coil outlet R: side connexion e: drain k: side connection pp: purge tm: sensor connexion	" GAS/M " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F mm	1'' 1'' 1'' 1'' 1'' 1-1/2'' 1/2'' 1/2'' 1/2'' Ø int 10 x 285	1" 1" 1" 1" 1" 1" 1-1/2" 1/2" 1/2" 0 int 10 x 285
Heating lower coil surface	m²	2,4	2,4
Heating upper coil surface	m²	1,3	1,3
Control panel	modelo	Т	T
Empty weight (approx.)	Kg	260	290

PRIMARY INPUT TEMPE	RATURE °C	5	5 °C	7	'0 °C	8	30 °C	9	0 °C
tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)
CV-110-M1	2 3 5	9 10 11	221 246 271	18 21 23	443 517 566	27 29 33	664 714 812	33 36 40	812 886 984
CV-150-M1	2 3 5	11 12 13	271 295 320	22 24 27	541 591 664	30 32 36	738 787 886	37 40 44	910 984 1083
CV-200-M1	2 3 5	14 15 17	344 369 418	29 33 38	714 812 935	39 44 50	960 1083 1230	48 54 62	1181 1329 1526
CV-300-M1/M2 * * lower coil	2 4 6	17 19 21	418 468 517	34 43 48	837 1058 1181	45 56 63	1107 1378 1550	57 70 77	1403 1722 1895
CV-400-M1/M2 * * lower coil	2 4 6	16 19 20	394 468 492	33 42 47	812 1033 1157	44 55 61	1083 1353 1501	55 67 75	1353 1649 1846
CV-500-M1/M2 * * lower coil	2 4 6	18 21 23	443 517 566	37 47 52	910 1157 1280	48 61 69	1181 1501 1698	61 75 84	1501 1846 2067
CV-800-M1/M2 * * lower coil	3 5 8	31 36 41	763 886 1009	55 65 73	1353 1599 1796	71 83 95	1747 2042 2338	86 102 116	2116 2510 2854
CV-1000-M1/M2 * * lower coil	3 5 8	35 42 48	861 1033 1181	64 74 84	1575 1821 2067	81 96 109	1993 2362 2682	98 116 133	2411 2854 3273
CV-1500-M1/M2 * lower coil	3 5 8	40 48 55	984 1181 1353	72 85 97	1772 2092 2387	94 112 129	2313 2756 3174	116 138 158	2854 3396 3888
CV-300/400-M2 ** * upper coil	2 4 6	9 11 12	221 271 295	19 23 25	468 566 615	25 31 34	615 763 837	32 39 43	787 960 1058
CV-500-M2 ** * upper coil	2 4 6	13 15 17	320 369 418	27 32 36	664 787 886	35 42 47	861 1033 1157	45 54 60	1107 1329 1476
CV-800/1000-M2 ** * upper coil	2 4 6	14 16 17	344 394 418	29 36 40	714 886 984	39 47 52	960 1157 1280	48 58 65	1181 1427 1599
CV-1500-M2 ** * upper coil	2 4 6	14 16 17	344 394 418	29 36 40	714 886 984	39 47 52	960 1157 1280	48 58 65	1181 1427 1599

CORAL VITRO - **COIL**, models **M1S** [Continuous flow DHW production (liters/hour) **10°C - 45°C**]

PRIMARY INPUT TEMP	PERATURE °C	5	5 °C	6	0 °C	7	0 °C	8	0 °C
tank model	primary pump flow (m³/h)	KW	DHW (l/h)						
CV-80-M1S	0,2	3	74	4	98	5	123	7	172
	0,6	5	123	6	148	8	197	10	246
	1	6	148	7	172	10	246	12	295
CV-110-M1S	0,2	4	98	5	123	7	172	9	221
	0,6	6	148	8	197	11	271	15	369
	1	7	172	10	246	13	320	18	443
CV-150-M1S	0,2	4	98	6	148	8	197	10	246
	0,6	7	172	9	221	12	295	18	443
	1	8	197	11	271	15	369	21	517
CV-200-M1S	0,4	7	172	9	221	13	320	18	443
	1	10	246	12	295	18	443	25	615
	1,5	11	271	14	344	20	492	28	689
CV-300-M15	0,4	9	221	12	295	16	394	21	517
	1	13	320	17	418	24	591	31	763
	1,5	15	369	20	492	27	664	36	886

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 NOTE: for further information, consult our technical product catalog.

PRIMARY INPUT TEMPE	RATURE °C	7	∕0 °C	8	0 °C	9	0 °C
tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)
CV-110-M1	2 3 5	13 15 16	224 258 276	22 24 26	379 413 448	28 30 33	482 517 568
CV-150-M1	2 3 5	16 17 19	276 293 327	24 26 29	413 448 500	31 34 37	534 586 637
CV-200-M1	2 3 5	22 25 29	379 431 500	32 36 41	551 620 706	41 46 52	706 792 896
CV-300-M1/M2 * * lower coil	2 4 6	25 31 34	431 534 586	37 45 49	637 775 844	48 59 65	827 1016 1120
CV-400-M1/M2 * * lower coil	2 4 6	25 30 33	431 517 568	36 43 48	620 741 827	47 57 63	810 982 1085
CV-500-M1/M2 * * lower coil	2 4 6	27 33 37	465 568 637	39 49 55	672 844 947	52 64 71	896 1102 1223
CV-800-M1/M2 * * lower coil	3 5 8	35 42 47	603 723 810	52 61 70	896 1051 1206	68 80 92	1171 1378 1585
CV-1000-M1/M2 * * lower coil	3 5 8	38 45 51	655 775 878	56 66 76	965 1137 1309	74 88 101	1275 1516 1740
CV-1500-M1/M2 * lower coil	3 5 8	53 61 69	913 1051 1189	78 90 102	1344 1550 1757	100 118 132	1722 2033 2274
CV-300/400-M2 ** * upper coil	2 4 6	13 16 18	224 276 310	20 24 27	344 413 465	27 33 36	465 568 620
CV-500-M2 ** * upper coil	2 4 6	19 23 25	327 396 431	28 34 37	482 586 637	38 45 50	655 775 861
CV-800/1000-M2 ** * upper coil	2 4 6	21 25 28	362 431 482	31 38 42	534 655 723	41 49 54	706 844 930
CV-1500-M1/M2 ** * upper coil	2 4 6	21 25 28	362 431 482	31 38 42	534 655 723	41 49 54	706 844 930

CORAL VITRO - COIL, models M1S [Continuous flow DHW production (liters/hour) 10°C - 60°C]

				•				
	PRIMARY INPUT TEMP	ERATURE °C	70	°C	80	°C	90	°C
	tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)
ę.	CV-80-M1S	0,2 0,6 1	4 6 7	69 103 121	6 8 10	103 138 172	-	-
	CV-110-M15	0,2 0,6 1	5 8 10	86 138 172	8 12 14	138 207 241	-	
E	CV-150-M1S	0,2 0,6 1	6 9 11	103 155 189	9 14 17	155 241 293	-	-
1	CV-200-M1S	0,4 1 1,5	10 13 15	172 224 258	15 20 23	258 344 396	-	-
1	CV-300-M1S	0,4 1 1,5	12 17 19	206 292 327	17 24 27	292 413 465	- -	-

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CORAL VITRO - COIL, models HL [Continuous flow DHW production (liters/hour) 10°C - 45°C]											
PRIMARY INPUT TEMP	ERATURE °C	55 °C		70 °C		8	0 °C	9	0 °C		
tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)		
CV-200-HL	2	24	591	44	1083	57	1403	72	1772		
	4	29	714	56	1378	74	1821	92	2264		
	6	33	812	63	1550	84	2067	104	2559		
CV-300-HL	2	29	714	54	1329	70	1722	88	2165		
	4	37	910	70	1722	90	2215	115	2830		
	6	42	1033	79	1944	102	2510	131	3224		
CV-400-HL	2	37	910	68	1673	88	2165	107	2633		
	4	50	1230	87	2141	115	2830	143	3519		
	6	58	1427	98	2411	131	3224	164	4036		
CV-500-HL	2	37	910	68	1673	88	2165	107	2633		
	4	50	1230	87	2141	115	2830	143	3519		
	6	58	1427	98	2411	131	3224	164	4036		
CV-800-HL	3	53	1304	94	2313	117	2879	141	3470		
	5	63	1550	116	2854	143	3519	169	4159		
	8	72	1772	136	3347	167	4109	194	4774		
CV-1000-HL	3	55	1353	99	2436	122	3002	147	3617		
	5	65	1599	120	2953	148	3642	178	4380		
	8	74	1821	140	3445	172	4232	206	5069		

CORAL VITRO - COIL, models HL [Continuous flow DHW production (liters/hour) 10°C - 60°C]

PRIMARY INPUT TEMP	PERATURE °C	70	°C	80	°C	90) °C
tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)
CV-200-HL	2	32	551	45	775	58	999
	4	42	723	58	999	76	1309
	6	47	817	67	1152	86	1477
CV-300-HL	2	47	810	60	1033	75	1292
	4	59	1016	78	1344	98	1688
	6	68	1171	88	1516	110	1895
CV-400-HL	2	50	861	67	1154	88	1516
	4	65	1120	86	1482	115	1981
	6	74	1275	98	1688	130	2239
CV-500-HL	2	50	861	67	1154	88	1516
	4	65	1120	86	1482	115	1981
	6	74	1275	98	1688	130	2239
CV-800-HL	3	74	1275	94	1619	118	2033
	5	90	1550	116	1998	141	2429
	8	105	1809	135	2325	165	2842
CV-1000-HL	3	75	1292	98	1688	120	2067
	5	94	1619	120	2067	149	2567
	8	110	1895	141	2429	172	2963



CORAL VITRO - COIL models - M1 - (DHW production - peak flow -)

		CV110M1	CV150M1	CV200M1	CV300M1	CV400M1	CV500M1	CV800M1	CV1000M1	CV1500M1
Peak flow 40°C	L/10'	170	230	435	605	835	1085	1625	1950	3140
Peak flow 45°C	L/10'	145	200	370	520	715	930	1395	1670	2695
Peak flow 60°C	L/10'	100	140	260	365	500	650	975	1170	1885
Peak flow 40°C	L/60'	1060	1160	1810	2330	2505	2960	4105	4935	6665
Peak flow 45°C	L/60'	885	975	1515	1960	2105	2490	3460	4160	5630
Peak flow 60°C	L/60'	525	615	930	1185	1295	1555	2140	2440	3565
Continuous flow 40°C	Ltrs/h	1070	1115	1650	2070	2005	2250	2975	3580	4230
Continuous flow 45°C	Ltrs/h	890	930	1375	1725	1670	1875	2480	2985	3525
Continuous flow 60°C	Ltrs/h	510	570	801	985	955	1085	1395	1525	2015
Heating time (from 10 to 75°C)	Min	29	35	43	48	53	56	63	70	81
Primary flow	m³/h	5	5	5	6	6	6	8	8	8

Primary input temperature 85℃

CORAL VITRO - COIL models - M2 / M2B - (DHW production - peak flow -)

LOWER COIL		CV300M2	CV400M2	CV500M2	CV800M2	CV1000M2	CV1500M2	CV800M2B	CV1000M2B	CV1500M2B
Peak flow 40°C	L/10'	605	835	1085	1625	1950	3140	1625	1950	3140
Peak flow 45°C	L/10'	520	715	930	1395	1670	2695	1395	1670	2695
Peak flow 60°C	L/10'	365	500	650	975	1170	1885	975	1170	1885
Peak flow 40°C	L/60'	2330	2505	2960	4105	4935	6665	4105	4935	6665
Peak flow 45°C	L/60'	1960	2105	2490	3460	4160	5630	3460	4160	5630
Peak flow 60°C	L/60'	1185	1295	1555	2140	2440	3565	2140	2440	3565
Continuous flow 40°C	Ltrs/h	2070	2005	2250	2975	3580	4230	2975	3580	4230
Continuous flow 45°C	Ltrs/h	1725	1670	1875	2480	2985	3525	2480	2985	3525
Continuous flow 60°C	Ltrs/h	985	955	1085	1395	1525	2015	1395	1525	2015
Heating time (from 10 to 75°C)	Min	48	53	56	63	70	81	63	70	81
Primary flow	m³/h	6	6	6	8	8	8	8	8	8

Primary input temperature 85°C

CORAL VITRO - COIL models - HL / HLB - (DHW production - peak flow -)

		CV200HL	CV300HL	CV400HL	CV500HL	CV800HL	CV1000HL	CV800HLB	CV1000HLB
	1/4.01	425	605	025	4005	4625	4050	4625	4050
Peak flow 40°C	L/10'	435	605	835	1085	1625	1950	1625	1950
Peak flow 45°C	L/10'	370	520	715	930	1395	1670	1395	1670
Peak flow 60°C	L/10'	260	365	500	650	975	1170	975	1170
Peak flow 40°C	L/60'	2750	3470	4455	4705	6065	6605	6065	6605
Peak flow 45°C	L/60'	2295	2910	3730	3945	5095	5550	5095	5550
Peak flow 60°C	L/60'	1355	1785	2140	2290	3080	3415	3080	3415
Continuous flow 40°C	Ltrs/h	2775	3440	4345	4345	5330	5585	5330	5585
Continuous flow 45°C	Ltrs/h	2310	2865	3620	3620	4440	4655	4440	4655
Continuous flow 60°C	Ltrs/h	1314	1705	1965	1965	2525	2696	2525	2696
Heating time (from 10 to 75°C)	Min	26	32	35	39	45	54	45	54
Primary flow	m³/h	6	6	6	6	8	8	8	8

Primary input temperature 85℃

CORAL VITRO - DOUBLE WALL models - P / C - (DHW production - peak flow -)

			CV600P	CV800P	CV1000P	CV600C	CV800C	CV1000C
1	Peak flow 40°C		315	315	420	315	315	420
	Peak flow 45°C L/10		270	270	360	270	270	360
	Peak flow 60°C L/10		185	185	255	185	185	255
A	Peak flow 40°C L/60		1160	1160	1490	1160	1160	1490
Q	Peak flow 45°C L/60		970	970	1245	970	970	1245
Ä	Peak flow 60°C L/60		585	585	765	585	585	765
	Continuous flow 40°C Ltrs/	ı I	1015	1015	1285	1015	1015	1285
-	Continuous flow 45°C Ltrs/	ı I	840	840	1060	840	840	1060
	Continuous flow 60°C Ltrs/	ı I	480	480	615	480	480	615
1	Heating time (from 10 to 75°C) Min		45	45	55	45	45	55
1	Primary flow m ³ /H		5	5	5	5	5	5

Primary input temperature 85°C

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LECTRIC HEATING - CORAL VITRO

CORAL VITRO "DOUBLE WALL" (models P y C)

Threaded immersion electric heating elemens, specific for primary heating circuit.

electric element model	KW	V	Ceramic electric heating elements	optional application to tank models
RI 4/2-22	2,2	230 / 400	260	CV-6001000P/C
RI 4/2-54	5,4	400	345	CV-6001000P/C
RI 4/2-72	7,2	400	445	CV-6001000P/C
RI 4/2-90	9,0	400	505	CV-6001000P/C
RI 4/2-120	12,0	400	680	CV-6001000P/C

CORAL VITRO "SINGLE WALL" (STORAGE and COIL tank models)

All CORAL VITRO DHW tanks, can be equipped with flanged electric heaters, whether for main DHW production as for backup heating. Applications of the heating elements with respect to the different tank models are summarized in the following table:

Incoloy, flanged immersion electric heating elements												
electric element model	KW	V		length L*		optior	nal application to tank models					
RB-25 RB-50 RB-75 RB-100	2,5 5 7,5 10.0	230 230/400 230/400 230/400	310 310 440 580			CV-2001000-R/M1/HL CV-3001000-M2 CV-2001000-R/M1/HL CV-3001000-M2 CV-2001000-R CV-800/1000-M1/M2/HL CV-5001000-R						
			Ceramic elec	tric heating el	ements							
electric element model	KW	optior	nal application to tank models									
RCER-12 RCER-15	1,2 1,5	230/400 230/400		300 300			CV-80300-M1S CV-80300-M1S					
Ceramic elect	tric heating el	- ceramic electric ele	ement, for side hole mounting									
electric element model	electric element model KW V length L*						nal application to tank models					
RCER-12 RCER-15 RCER-20 RCER-24	1,2 1,5 2,0 2,4	230/400 230/400 230/400 230/400		300 300 400 400		CV-1101000-R/M1/M2/HL CV-1101000-R/M1/M2/HL CV-2001000-R CV-4001000-M1/M2/HL CV-2001000-R CV-4001000-M1/M2/HL						
ceramic electric heatin	g elements	enamelled plate	e with 2 sheaths - ref	F.	heating elements	ments amount KW						
RCER-12 RCER-15 RCER-20 RCER-24			PLV2V 2 PLV2V 2 PLV2V 2 PLV2V 2 PLV2V 2			2,4 3,0 4,0 4,8						
		y.	threaded immer		5							
electric element model	KW	V	IP	Thread		length L*	optional application to tank models					
RA3/2-25 RA3/2-25T(*) RA3/2-50	2,5 2,5 5,0	230 230 230/400	40 1 1/2"M 65 1 1/2"M 40 1 1/2"M			540 CV-8001500-M1/M2/RB 350 CV-8001500-M1/M2/RB 690 CV-8001500-M1/M2/RB						

(*) Model RA 3/2-25T, incorporates regulation and safety thermostat in an IP65 head.

CORAL VITRO "SINGLE WALL" (models "RB", with side manhole ND400)

Incoloy threaded immersion electric heating elements for ND400 side manhole on models GX-800/1000-RB. ND400 stainless steel plate set with 2"F bushings + selected type and number of electric elements. Number of electric elements per plate on side manhole ND400: 3,4,5,6,7 or 8 units.

electric element model	KW	V	IP	Thread	length L*	optional application to tank models	
RA4/2-60	6,0	230/400	40	2"	797	CV-8001500-RB	
RA4/2-120D	12,0	230/400	40	2"	680	CV-8001500-RB	

Ceramic electric heating elements sheathed in stainless steel plate for ND400 side manhole on models GX-800/1000-RB. Stainless steel plate set with sleeves for ceramic electric elements + selected number of electric elements. Number of electric elements per plate on side manhole ND400: 3,4,5,6,7 or 8 units.

electric element model	KW	V	length L*	optional application to tank models
RCFR-45	45	230/400	800	CV-8001500-RB

ELECTRIC HEATING - CORAL VITRO



"RI" HEATING ELEMENTS: Threaded immersion heating elements for primary heating circuit, in CORAL VITRO "DOUBLE-WALL" models.



"RB" HEATING ELEMENTS: Flanged heating element for CORAL VITRO "SINGLE-WALL", STORAGE AND COIL models.



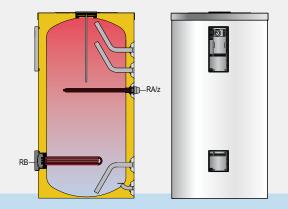
SHEATHED "RCER" HEATING ELEMENTS ON FLANGED PLATE: Flanged ceramic heating element for CORAL VITRO "SINGLE WALL", STORAGE AND COIL models.

Sheathed **ceramic** heating elements on vitreous enamelled steel plate for side hole. Vitreous enamelled steel plate + ceramic heating elements for mounting in side hole.



"RA" HEATING ELEMENTS: Threaded heating elements for backup heating in CORAL VITRO "SINGLE- WALL", STORAGE and COIL models

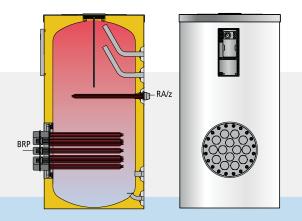




Electric heating in CORAL VITRO "DOUBLE-WALL", STORAGE and COIL models.

RI ∢¶n∎ 005

Electric heating in CORAL VITRO "SINGLE-WALL", STORAGE and COIL models.



Electric heating in CORAL VITRO "SINGLE-WALL", STORAGE models with manhole ND400

REGULATION AND CONTROL - CORAL VITRO

"lapesa" control panels are integrated into the different types of tanks in the "CORAL VITRO" series.

They are supplied fully wired and mounted on the tank. The panels include all the necessary components to control the temperature of the DHW stored in the tank and for the thermostatic control of the installation's heating equipment.

Any of the standard control panels fitted in tanks can be replaced by another type of control panel, if the installation so requires.



- [Te^o] Thermometer: 0 120°C
- [TL°] Control thermostat: 0 75°C
- [TL°] Safety thermostat: 90°C
- */° Switch: winter summer
- Power on LED: green
- Primary pump LED: amber
- Electric heating element LED: red
- [P] Analog time switch: electric heating element.



COMPONENTS ON CONTROL PANELS

CONTROL PANEL				IN	ICORPORATED (COMPONENTS			
Denomination	Thermometer	Regulation thermostat	Safety thermostat	Switch ON/OFF	SWITCH SUMMER/ WINTER	LEDS	Analog time switch	Regulation	Standard installed on tank models "CORAL VITRO"
"T" PANEL	YES								CVR/RB/P/HL
"TS" PANEL	YES	YES						hydraulic primary circuit	CVM1/M2
"TD" PANEL	YES	YES	YES	YES	YES	YES		hydraulic primary circuit / electric heating element	(*)
"TPA" PANEL	YES	YES	YES	YES	YES	YES	YES	hydraulic primary circuit / electric heating element with time programming	(*)

(*) Optional: Any of the standard control panels fitted in tanks can be replaced by another type of control panel, if the installation so requires.

THERMAL INSULATION - CORAL VITRO



The **"CORAL VITRO"** series are thermally insulated at the factory by direct mould-injection with CFC- and HCFC-free PU material.

Des

This system guarantees a perfectly regular insulation thickness with optimum material density. The thicknesses indicated in the table refer to the circular tank body, but the insulation is much thicker on the top part (up to four times greater). Because the top part of the tank has better thermal protection, heat losses are much lower than those specified by the most stringent regulations, such as the DIN 4753/8 standard.



Rigid, mould-injected PU insulating material

• Minimal heat loss!

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- For hot and cold water!
- No condensation on tank body!
- Compact block, no joints!

	TABLE OF THERMAL INSULAT	ION: SERI	E CORAL V	/ITRO			Minimum thickness of equivalent insulation with other insulating materials (mm)			
Serie	Model	Thermal insulation k= 0.025 W/m °K	Insulation thickness PU (mm.)	Static heat losses EN 12897 (W)	ErP (EU 812/2013)	Flexible polyurethane foam* k= 0,040 W/m °K	Rockwool* k= 0,034 - 0,042 W/m °K	Fiberglass* k= 0,035 - 0,046 W/m °K		
CORAL VITRO	CV-80-M1S	PU	45	46	В	75	65 - 80	65 - 90		
CORAL VITRO	CV-110-M1/M1S	PU	45	46	В	75	65 - 80	65 - 90		
CORAL VITRO	CV-150-M1/M1S/GS	PU	55	44	В	90	75 - 95	75 - 110		
CORAL VITRO	CV-200-R/M1/M1S/M2/HL/GS	PU	50	56	В	80	70 - 85	70 - 95		
CORAL VITRO	CV-300-R/M1/M1S/M2/HL/GS	PU	50	67	В	80	70 - 85	70 - 95		
CORAL VITRO	CV-400-M2/HL	PU	50	88	С	80	70 - 85	70 - 95		
CORAL VITRO	CV-500-R/M1/M2/HL/GS	PU	50	93	С	80	70 - 85	70 - 95		
CORAL VITRO	CV-600-P/C	PU	50	105	С	80	70 - 85	70 - 95		
CORAL VITRO	CV-800-R/M1/M2/HL/P/C	PU	80	89	В	130	110 - 140	115 - 160		
CORAL VITRO	CV-800-RB/M1B/M2B/HLB	PU	80	97	В	130	110 - 140	115 - 160		
CORAL VITRO	CV-1000-R/M1/M2/HL/P/C	PU	80	115	С	130	110 - 140	115 - 160		
CORAL VITRO	CV-1000-RB/M1B/M2B/HLB	PU	80	125	С	130	110 - 140	115 - 160		
CORAL VITRO	CV-1500-R/M1/M2	PU	80	156	С	130	110 - 140	115 - 160		
CORAL VITRO	CV-1500-RB/M1B/M2B	PU	80	169	С	130	110 - 140	115 - 160		

(*) Detachable systems can lose up to 25% of the insulating capacity overall, so that in that case the insulation thickness will increased proportionally

THODIC PROTECTION - CORAL VITRO



CATHODIC PROTECTION SYSTEM IN "CORAL VITRO" SERIES.

The CORAL VITRO series of tanks include, as a standard feature, a cathodic protection unit comprising magnesium anodes and an anode charge meter. In cathodic protection systems with sacrificial anodes, the anodes must be checked periodically for wear and replaced if necessary. The anode charge meter is a simple, convenient system for users to check the state of the anode. All you have to do is to check if the dial indicator is in the green zone (anode with sufficient charge) or the red zone (anode with insufficient charge = the anode needs to be replaced).

All DHW tanks made of carbon steel with an inner lining should be equipped with the cathodic protection system (DIN 4753) Cathodic protection units differ in terms of size and number of anodes depending on the model, the geometry and the capacity of the "CORAL VITRO" storage tank.



"LAPESA CORREX-UP" PERMANENT CATHODIC PROTECTION SYSTEM.

Totally automatic! "lapesa correx-up", cathodic protection system comprises special titanium anodes that emit the necessary current for the metal surface to be protected by means of an automatic potentiostat connect to the mains power supply.

Maintenance free! This cathodic protection system is permanent which means that, unlike sacrificial anodes, there is no wear and the anodes do not need to be replaced.



"lapesa correx-up" permanent cathodic protection system: Maintenance-free permanent cathodic protection unit. These anodes do not wear out and they emit the necessary electric current automatically, providing the tank with cathodic protection via an individual potentiostat for each anode, connected to the mains electricity.



ACCESSORIES - CORAL VITRO

EXTERNAL LINING:

External linings for "CORAL VITRO" tanks. Padded PVC lining with zip fastener, B2 class according to DIN 4102-1. Standard external lining: WHITE / RAL. Rest of colours OPTIONAL, according to availability and the quantities of product ordered.

ALUNOX EXTERNAL LINING

External aluminium sheet lining. ALUNOX external lining is supplied ready-mounted on the tank, over the PU insulation.



WHITE: RAL 9016



GREY: RAL 7045



BLUE: RAL 5015



ACCESSORIES - CORAL VITRO



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SAFETY GROUP :····

Safety group set at 7 bar and 3/4" connection. Set of safety valve, non-return valve, stopcock and connection from trap to drain. 3/4" valve KIT 1" valve KIT





THREADED ELECTRIC HEATING ELEMENT, STORAGE AND COIL MODELS.

Low charge density, threaded immersion electric element in Incoloy for "CORAL VITRO" STORAGE and COIL tanks, **"R"**, **"RB**", **"M1**" and **"M2**" models. Characteristics and power range: page: 86 -ELECTRIC HEATING-





FLANGED ELECTRIC HEATING ELEMENT, STORAGE AND COIL MODELS.

Low charge density, flanged immersion electric element in Incoloy for "CORAL VITRO" STORAGE and COIL tanks, "**R**", "**M1**" and "**M2**" models.



Sheathed ceramic electric element for "CORAL VITRO" STO-RAGE and COIL tanks, **"R"**, **"M1"** and **"M2"** models. Characteristics and power range: page: 86 -ELECTRIC HEATING-





"LAPESA CORREX-UP" CATHODIC PROTECTION SYSTEM.

"lapesa correx-up" permanent cathodic protection unit for "CORAL VITRO" tanks

CATHODIC PROTECTION SYSTEM "MAGNESIUM ANODES WITH CHARGE METER"

Cathodic protection by magnesium anodes for "CORAL VITRO" tanks.









DHW PRODUCTION/STORAGE TANKS

MASTER VITRO - VITREOUS ENAMELLED STEEL

STORAGE models, energy savings!

Tanks designed to provide an extraordinary energy storage capacity that directly translates into real savings. - Capacities from 1500 to 6000 litres.

LARGE CAPACITY STORAGE TANKS: Designed to provide an extraordinary storage capacity that translates directly into real savings.

- CAPACITIES from 1500 to 6000 litres -

Storage tanks ready for installation with plate heat exchanger and/or electric immersion heating elements as the heating source.

ELECTRIC HEATING: Ready for installation with Incoloy, low charge density electric immersion elements or with sheathed ceramic heating elements (see ELECTRIC HEATING chapter, page: 106).

LONG-LASTING PRODUCT: VITREOUS ENAME-LLED STEEL storage tank according to **DIN 4753 T3.**

Food grade impermeable lining with a porcelain look that protects the metal surface of the storage tank in contact with water.

FOOD GRADE LINING: Food grade lining according to Royal Decree 891/2006 and EC regulation 1935/2004. Lapesa has further certification of the food grade of the lining at 120°C.

MAXIMUM WORKING TEMPERATURE: It withstands maximum continuous working temperatures handled by this type of installation (95°C), without any deterioration or alteration to the lining.

EASY TO HANDLE AND TRANSPORT: Our "Master" storage tanks are designed for easy handling and transport to the place of installation.

They have an integrated system for handling and transporting by forklift truck, which facilitates handling operations enormously, as there is no need to palletize the product which, given its weight and size, would make handling difficult.

The tanks are also equipped with lifting eyebolts on the top part so that if they have to be placed in a high area they can be lifted with an overhead hoist.

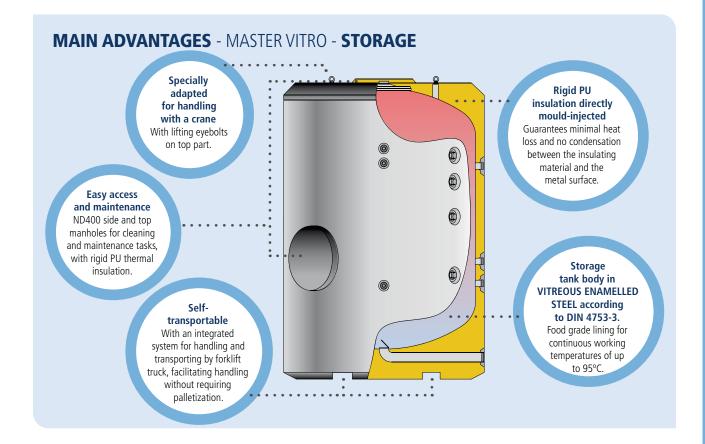


TRANSPORT SYSTEM: Openings/ducts under the tank to facilitate handling with pallet trucks (from 1500 litres onward).

DHW PRODUCTION/STORAGE TANKS MASTER VITRO - **STORAGE**

EASY TO MAINTAIN: With access to interior via two ND400 manholes, one in the side and the other on the top part, for inspection, cleaning and maintenance tasks.

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mould-injected insulation that minimizes heat losses of stored DHW(see HEAT INSULATION chapter, page: 108).



lapesa storage tanks have minimal heat losses and for this reason are considered to be one of the products with the greatest storage capacity on the market.





FEATURES COMMON TO ALL "MASTER VITRO" STORAGE MODELS:

- Vitreous enamelled steel DHW storage tanks according to DIN 4753/3
- Capacities: 1500, 2000, 2500, 3000, 3500, 4000, 5000 and 6000 litres
- Maximum working pressure of DHW storage tank: 8 bar (10 bar optional)
- Maximum working temperature of DHW storage tank: 95 °C
- Thermal insulation: Rigid, mould-injected PU (CFC/HCFC-free, 0.025 W/m°K)
- Tanks for VERTICAL installation on floor. (HORIZONTAL position optional, please consult us)

DHW PRODUCTION/STORAGE TANKS MASTER VITRO - STORAGE

MASTER VITRO "RB"

DWH "STORAGE" tanks, from 1500 to 6000 litre capacity.

DHW production is by an external heat exchange system (plate heat exchanger).

They can be fitted with immersion electric elements or ceramic electric elements as the main and/or backup heating system. With side and top ND400 manholes to access the interior of the storage tank for inspection, cleaning and maintenance tasks.

Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole.

EQUIPMENT:

"lapesa correx-up", permanent cathodic protection unit.

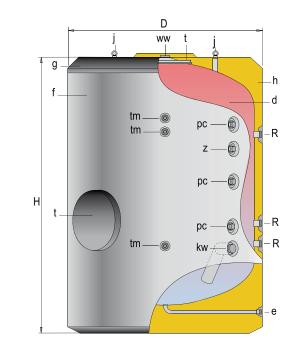
Optional: cathodic protection unit with magnesium anodes and anode charge meter.

Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (page: 109).



t - Manhole ND400 d - DHW tank f - Outer lining g - Top cover

h - Thermal insulation j - Lifting eyes





GENERAL CHARACTERISTIC	s	MVV-1500-RB	MVV-2000-RB	MVV-2500-RB	MVV-3000-RB	MVV-3500-RB	MVV-4000-RB	MVV-5000-RB	MVV-6000-RB
DHW capacity	I.	1500	2000	2500	3000	3500	4000	5000	6000
D: external diameter	mm.	1360	1360	1660	1660	1660	1910	1910	1910
H: overall height	mm.	1830	2280	2015	2305	2580	2310	2710	3210
Diagonal	mm.	2281	2655	2611	2841	3068	2998	3316	3735
kw: cold water inlet	" GAS/M	2	2	3	3	3	3	3	3
ww: DHW outlet	" GAS/M	2	2	3	3	3	3	3	3
z: recirculation	" GAS/M	1 1/2	1 1/2	2	2	2	2	2	2
e: drain	" GAS/M	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2
R: side connection	" GAS/M	2	2	2	2	2	2	2	2
pc: "lapesa correx up" connection	" GAS/M	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
tm: probe tube connection for sensors	" GAS/M	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Empty weight (approx.)	Kg	400	460	635	705	755	915	1030	1134
Note: The 6000 litre model includes support le	gs								

lapesa [94]

MASTER VITRO tanks designed to provide an extraordinary energy storage capacity that directly translates into real savings.

DHW PRODUCTION/STORAGE TANKS

MASTER VITRO - VITREOUS ENAMELLED STEEL

Models with COILS, production and efficiency!

Storage tanks that incorporate an exclusive heat exchange system comprising a set of collectors and coils in stainless steel that are detachable from the inside of the storage tank, for DHW production via an external energy source.

LARGE CAPACITY TANKS FOR DWH PRODUCTION AND STORAGE: Storage tanks with the exclusive, high-efficiency "lapesa" DHW production system.

- CAPACITIES from 1500 to 6000 litres -

The overdimensioned, rigid, mould-injected PU thermal insulation maintains the DHW storage temperature over long periods of time without requiring additional energy input. This means less start-ups and adjustments of external energy sources, which in turn translates to less energy consumption.

Storage tanks that incorporate an exclusive heat exchange system comprising a set of collectors and coils that are detachable from the inside of the storage tank, for DHW production via an external energy source (see DHW PRODUCTION chapter, page: 104).

LONG-LASTING PRODUCT: VITREOUS ENAMELLED STEEL storage tank according to **DIN 4753 T3**

Food grade impermeable lining with a porcelain look that protects the metal surface of the storage tank in contact with water.

FOOD GRADE LINING: Food grade lining according to Royal Decree 891/2006 and EC regulation 1935/2004. Lapesa has additional certification of the food grade of the lining at 120°C.

MAXIMUM WORKING TEMPERATURE: It withstands maximum continuous working temperatures handled by this type of installation (95°C), without any deterioration or alteration to the lining.

ANTI-LEGIONELLA DESIGN: The design of the complete range of "MASTER VITRO" tanks adheres to all of the "Treatment and Prevention of Legionellosis" criteria specified in current UNE standards and EC Directives and, in particular, in the R.D. 865/2003 and the RITE (Regulations on Thermal Installations in Buildings).

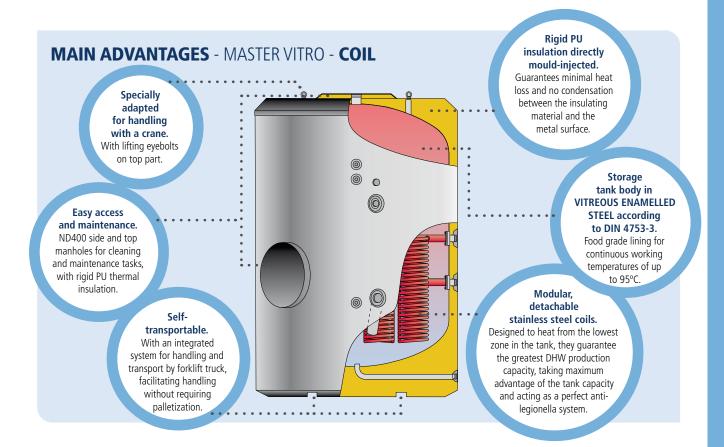
The anti-legionella design applies to the storage tank unit and its internal DHW production system.

LARGE DHW PRODUCTION CAPACITY: A set of separate collectors and coils, made of STAINLESS STEEL, are fitted inside the storage tank, allowing the heat exchange surface to be dimensioned in accordance with the power required (up to 10 m² in the 6000 litre model), adapted to traditional energy sources or to the use of renewable energies.

This exclusive lapesa DHW production system for large capacity tanks, saves on installation space and allows total or partial maintenance of the unit, guaranteeing the continuous service of the installation.

DHW PRODUCTION/STORAGE TANKS MASTER VITRO - **COILS**

lapesa



lapesa's exclusive modular stainless steel coils system for LARGE CAPACITY tanks allows the unit to be adapted to the thermal output required, also enabling interventions separate from the storage tank.



Modular coils "MASTER VITRO'

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FEATURES COMMON TO ALL "MASTER VITRO" MODELS WITH COILS:

- Vitreous enamelled steel DHW storage tanks according to DIN 4753/3
- Capacities: 1500, 2000, 2500, 3000, 3500, 4000, 5000 and 6000 litres
- Maximum working pressure of DHW storage tank: 8 bar (10 bar optional)
- Maximum working temperature of DHW storage tank: 90 °C
- Maximum pressure of set of coils: 25 bar
- Maximum temperature of set of coils: **110** °C (up to 200 °C with special high temperature seals)
- Thermal insulation: **Rigid, mould-injected PU** (CFC/HCFC-free, 0.025 W/m°K)
- Tanks for VERTICAL installation on floor (option of HORIZONTAL position please consult us)

DHW PRODUCTION/STORAGE TANKS MASTER VITRO - COILS

MASTER VITRO "SB"

DWH PRODUCTION/STORAGE tanks, from 1500 to 6000 litre capacity.

With detachable coils system for DHW production via an external energy source.

They can be fitted with immersion electric elements or ceramic electric elements on the top part of the tank, as backup heating.

With side and top ND400 manholes to access the interior of the storage tank for inspection, cleaning and maintenance tasks.

Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole.

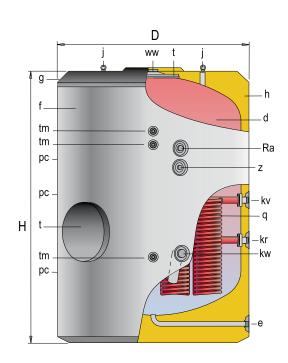
EQUIPMENT:

"lapesa correx-up" permanent cathodic protection unit.

Optional: cathodic protection unit with magnesium anodes and anode charge meter.

Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (page: 109).







- d DHW tank
- f Outer lining
- g Top cover h - Thermal insulation
- j Lifting eyes
- q Detachable coils system

GENERAL CHARACTERISTICS

MVV-1500-SB MVV-2000-SB MVV-2500-SB MVV-3000-SB MVV-3500-SB MVV-4000-SB MVV-5000-SB MVV-6000-SB

DHW capacity	l.	1500	2000	2500	3000	3500	4000	5000	6000	
D: external diameter	mm.	1360	1360	1660	1660	1660	1910	1910	1910	
H: overall height	mm.	1830	2280	2015	2305	2580	2310	2710	3210	
Diagonal	mm.	2281	2655	2611	2841	3068	2998	3316	3735	
kw: cold water inlet	" GAS/M	2	2	3	3	3	3	3	3	
ww: DHW outlet	" GAS/M	2	2	3	3	3	3	3	3	
z: recirculation	" GAS/M	1 1/2	1 1/2	2	2	2	2	2	2	
e: drain	" GAS/M	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	
Ra: backup heating element	" GAS/M	2	2	2	2	2	2	2	2	
pc: "lapesa correx up" connection	" GAS/M	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	
tm: probe tube connection for sensors	" GAS/M	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	
kv: primary input	" GAS/M	2	2	2	2	2	2	2	2	
kr: primary return	" GAS/M	2	2	2	2	2	2	2	2	
Coils set heating surface	m2	2,8	3,4	4,8	5	6,7	6,7	8,4	8,4	
Empty weight (approx.)	Kg	430	495	675	740	810	980	1110	1216	
Note: The 6000 litre model includes support legs										

DHW PRODUCTION/STORAGE TANKS MASTER VITRO - **COILS**

lapesa

MASTER VITRO "SSB"

DWH **PRODUCTION/STORAGE** tanks, from **1500** to **6000** litre capacity.

Set of **OVERDIMENSIONED detachable coils system** for DHW production, specifically designed for the application of RENEWABLE ENERGIES, in particular, **SOLAR ENERGY**.

Heat exchange surfaces in the whole range comply with RITE requirements for SOLAR installations.

They can be fitted with immersion electric elements or ceramic electric elements on the top part of the tank, as backup heating.

With side and top ND400 manholes to access the interior of the storage tank for inspection, cleaning and maintenance tasks.

Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole.

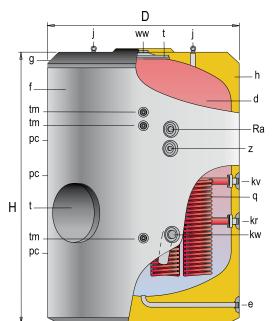
EQUIPMENT:

"lapesa correx-up" permanent cathodic protection unit.

Optional: cathodic protection unit with magnesium anodes and anode charge meter.

Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (page: 109).







- t Manhole ND400
- d DHW tank

f - Outer lining

- g Top cover h - Thermal insulation
- j Lifting eyes
- q Detachable coils system

GENERAL CHARACTERISTIC	:s	MVV-1500- SSB	MVV-2000- SSB	MVV-2500- SSB	MVV-3000- SSB	MVV-3500- SSB	MVV-4000- SSB	MVV-5000- SSB	MVV-6000- SSB
DHW capacity	I.	1500	2000	2500	3000	3500	4000	5000	6000
D: external diameter H: overall height Diagonal	mm. mm. mm.	1360 1830 2281	1360 2280 2655	1660 2015 2611	1660 2305 2841	1660 2580 3068	1910 2310 2998	1910 2710 3316	1910 3210 3735
kw: cold water inlet ww: DHW outlet z: recirculation e: drain Ra: backup heating element pc: "lapesa correx up" connection tm: probe tube connection for sensors kv: primary input	" GAS/M " GAS/M " GAS/M " GAS/M " GAS/M " GAS/M " GAS/M	2 2 1 1/2 1 1/2 2 1 1/2 3/4 2	2 2 1 1/2 1 1/2 2 1 1/2 3/4 2	3 2 1 1/2 2 1 1/2 3/4 2	3 2 2 1 1/2 3/4 2				
kr: primary return Coils set heating surface	" GAS/M m2	2 4,2	2 5,0	2 6,1	2 8,4	2 8,4	2 8,4	2 10,0	2 10,0
Empty weight (approx.) Note: The 6000 litre model includes support	Kg legs	445	510	685	765	825	995	1120	1228

DHW PRODUCTION/STORAGE TANKS MASTER VITRO - COILS

MASTER VITRO "S2B / SS2B"

DWH PRODUCTION/STORAGE tanks, 2000, 3500, 5000 and 6000 litre capacity.

"SB" and SSB" base models with TWO detachable coils systems for DHW production via two combined external energy sources.

With ND400 side manhole for access to interior of tank for inspection, cleaning treatments and maintenance. Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole.

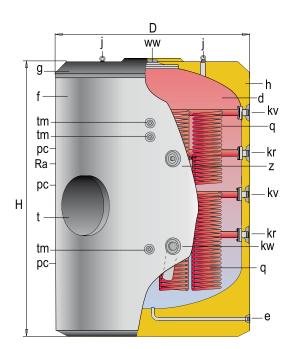
EQUIPMENT:

"lapesa correx-up" permanent cathodic protection unit.

Optional: cathodic protection unit with magnesium anodes and anode charge meter.

Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (page: 109).





d - DHW tank

- f Outer lining
- g Top cover h Thermal insulation
- j Lifting eyes t Manhole ND400

GENERAL CHARACTERISTICS		MVV-2000 S2B / SS2B	MVV-3500 S2B / SS2B	MVV-5000 S2B / SS2B	MVV-6000 S2B / SS2B
DHW capacity	l.	2000	3500	5000	6000
D: external diameter H: overall height Diagonal	mm. mm. mm.	1360 2280 2655	1660 2580 3068	1910 2710 3316	1910 3210 3735
kw: cold water inlet ww: DHW outlet z: recirculation e: drain pc: "lapesa correx up" connection Ra: side connection tm: probe tube connection for sensors kv: primary input kr: primary return	" GAS/M " GAS/M " GAS/M " GAS/M " GAS/M " GAS/M " GAS/M " GAS/M	2 2 1 1/2 1 1/2 1 1/2 3 3/4 2 2	3 2 1 1/2 1 1/2 3 3/4 2 2	3 2 1 1/2 1 1/2 3 3/4 2 2	3 2 2 1 1/2 3 3/4 2 2
Lower coils set heating surface "S2B" Lower coils set heating surface "SS2B" Upper coils set heating surface "S2B" / "SS2B" Empty weight (approx.) "S2B" / "SS2B"	m² m² m² Kg	3,4 5,0 1,7/3,1 524 / 544	6,7 8,4 3,2/4,0 855 / 870	8,4 10,0 4,0/4,8 1140 / 1160	8,4 10,0 4,0/4,8 1273/ 1285
Note: The 6000 litre model includes support legs	5				



MASTER VITRO

The best investment for your installation!

- unbeatable storage capacity
- high-performance service
- guarantee of quality

The large capacity tank that pays for itself!



MASTER VITRO - COILS - SB [Continuous flow DHW production (liters/hour) 10°C - 45°C]										
PRIMARY INPUT TEMP	PERATURE °C	5	5 °C	7	0 °C	8	0 °C	90) °C	
tank model	primary pump flow (m³/h)	KW	DHW (l/h)							
MVV-1500-SB	3	39	960	72	1772	98	2411	119	2928	
	5	46	1132	85	2092	118	2904	143	3519	
	8	52	1280	98	2411	137	3371	166	4085	
MVV-2000-SB	3	44	1083	86	2116	109	2682	136	3347	
	5	51	1255	104	2559	133	3273	165	4060	
	8	58	1427	121	2977	154	3789	191	4700	
MVV-2500-SB	3	53	1304	92	2264	119	2928	146	3593	
	5	63	1550	113	2781	147	3617	180	4429	
	8	72	1772	132	3248	172	4232	211	5192	
MVV-3000-SB	3	61	1501	107	2633	141	3470	174	4282	
	5	74	1821	134	3297	178	4380	220	5414	
	8	86	2116	158	3888	212	5217	262	6447	
MVV-3500-SB	3	71	1747	132	3248	181	4454	224	5512	
	5	87	2141	165	4060	228	5610	284	6988	
	8	102	2510	196	4823	270	6644	340	8366	
MVV-4000-SB	3	71	1747	132	3248	181	4454	224	5512	
	5	87	2141	165	4060	228	5610	284	6988	
	8	102	2510	196	4823	270	6644	340	8366	
MVV-5000-SB	3	83	2042	156	3839	211	5192	263	6472	
	5	102	2510	197	4848	268	6595	337	8293	
	8	120	2953	234	5758	321	7899	406	9990	
MVV-6000-SB	3	83	2042	156	3839	211	5192	263	6472	
	5	102	2510	197	4848	268	6595	337	8293	
	8	120	2953	234	5758	321	7899	406	9990	

MASTER VITRO - COILS - SSB [Continuous flow DHW production (liters/hour) 10°C - 45°C]

		-							
PRIMARY INPUT TEMP	PERATURE °C	5	5 °C	7	0 °C	8	0 °C	9	0 °C
tank model	primary pump flow (m³/h)	KW DHW (l/h)		KW	KW DHW (l/h)		DHW (l/h)	KW	DHW (l/h)
MVV-1500-SSB	3	53	1304	92	2264	119	2928	146	3593
	5	63	1550	113	2781	147	3617	180	4429
	8	72	1772	132	3248	172	4232	211	5192
MVV-2000-SSB	3	61	1501	107	2633	141	3470	174	4282
	5	74	1821	134	3297	178	4380	220	5414
	8	86	2116	158	3888	212	5217	262	6447
MVV-2500-SSB	3	64	1575	119	2928	161	3962	199	4897
	5	78	1919	149	3666	204	5020	251	6176
	8	90	2215	177	4355	243	5979	299	7357
MVV-3000-SSB	3	83	2042	156	3839	211	5192	263	6472
	5	102	2510	197	4848	268	6595	337	8293
	8	120	2953	234	5758	321	7899	406	9990
MVV-3500-SSB	3	83	2042	156	3839	211	5192	263	6472
	5	102	2510	197	4848	268	6595	337	8293
	8	120	2953	234	5758	321	7899	406	9990
MVV-4000-SSB	3	83	2042	156	3839	211	5192	263	6472
	5	102	2510	197	4848	268	6595	337	8293
	8	120	2953	234	5758	321	7899	406	9990
MVV-5000-SSB	3	100	2461	177	4364	243	5973	301	7401
	5	125	3076	226	5569	314	7715	392	9657
	8	148	3642	271	6677	379	9319	477	11732
MVV-6000-SSB	3	100	2461	177	4364	243	5973	301	7401
	5	125	3076	226	5569	314	7715	392	9657
	8	148	3642	271	6677	379	9319	477	11732

MASTER VITRO - COILS - SB [Continuous flow DHW production (liters/hour) 10°C - 60°C]										
PRIMARY INPUT TEM	PERATURE °C		70) °C	8	0 °C	90) °C		
tank model	primary pump flow (m³/h)			DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)		
MVV-1500-SB	3 5 8		46 55 64	792 947 1102	73 89 103	1257 1533 1774	94 114 132	1619 1964 2274		
MVV-2000-SB	3 5 8		55 67 78	947 1154 1344	80 98 114	1378 1688 1964	107 131 152	1843 2256 2618		
MVV-2500-SB	3 5 8		59 72 85	1016 1240 1464	87 108 128	1499 1860 2205	115 143 168	1981 2463 2894		
MVV-3000-SB	3 5 8		68 86 102	1171 1481 1757	104 131 157	1791 2256 2704	137 174 209	2360 2997 3600		
MVV-3500-SB	3 5 8		85 106 126	1464 1826 2170	133 168 200	2291 2894 3445	177 226 270	3049 3893 4651		
MVV-4000-SB	3 5 8		85 106 126	1464 1826 2170	133 168 200	2291 2894 3445	177 226 270	3049 3893 4651		
MVV-5000-SB	3 5 8		100 127 151	1722 2188 2601	155 198 238	2670 3411 4100	208 268 323	3583 4616 5564		
MVV-6000-SB	3 5 8		100 127 151	1722 2188 2601	155 198 238	2670 3411 4100	208 268 323	3583 4616 5564		

MASTER VITRO - COILS - SSB [Continuous flow DHW production (liters/hour) 10°C - 60°C]

			•				
PRIMARY INPUT TEM	PERATURE °C	70) °C	8	0 °C	9) °C
tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)
MVV-1500-SSB	3	59	1016	87	1499	115	1981
	5	72	1240	108	1860	143	2463
	8	85	1464	128	2205	168	2894
MVV-2000-SSB	3	68	1171	104	1791	137	2360
	5	86	1481	131	2256	174	2997
	8	102	1757	157	2704	209	3600
MVV-2500-SSB	3	76	1312	118	2040	157	2697
	5	96	1654	151	2595	199	3429
	8	114	1969	180	3107	238	4103
MVV-3000-SSB	3	100	1722	155	2670	208	3583
	5	127	2188	198	3411	268	4616
	8	151	2601	238	4100	323	5564
MVV-3500-SSB	3	100	1722	155	2670	208	3583
	5	127	2188	198	3411	268	4616
	8	151	2601	238	4100	323	5564
MVV-4000-SSB	3	100	1722	155	2670	208	3583
	5	127	2188	198	3411	268	4616
	8	151	2601	238	4100	323	5564
MVV-5000-SSB	3	113	1948	179	3077	238	4094
	5	144	2477	232	3992	312	5368
	8	172	2964	281	4833	380	6540
MVV-6000-SSB	3	113	1948	179	3077	238	4094
	5	144	2477	232	3992	312	5368
	8	172	2964	281	4833	380	6540
and the							

lapesa

MASTER VITRO - UPPER COIL⁽¹⁾ - S2B / SS2B [Continuous flow DHW production (liters/hour) 10°C - 45°C]

PRIMARY INPUT TEMPERA	ATURE °C	55 °C		70 °C		80 °C		90 °C	
tank model	primary pump flow (m³/h)	KW	DHW (l/h)	ĸw	DHW (l/h)	KW	DHW (l/h)	ĸw	DHW (l/h)
	3	36	886	70	1722	92	2264	115	2830
MVV-2000-S2B/SS2B	5 8	42 48	1033 1181	83 95	2042 2338	110 127	2707 3125	136 155	3347 3814
	3	50	1230	92	2264	119	2928	147	3617
MVV-3500-S2B/SS2B	5 8	60 69	1476 1698	112 131	2756 3224	145 169	3568 4159	179 208	4405 5118
	3	58	1427	103	2535	136	3347	168	4134
MVV-5000-S2B/SS2B	5 8	71 82	1747 2018	129 152	3174 3740	170 202	4183 4971	210 250	5167 6152
1) DHW productions for the lower coils of S2B models correspond to the productions of the SB models see page 102									

(1) DHW productions for the lower coils of S2B models correspond to the productions of the SB models, see page 102.

MASTER VITRO - UPPER COIL⁽²⁾ - S2B / SS2B [Continuous flow DHW production (liters/hour) 10°C - 60°C]

PRIMARY INPUT TEMPERATURE °C		70	70 °C		80 °C		90 °C	
tank model	primary pump flow (m³/h)	KW	DHW (l/h)	KW	DHW (l/h)	KW	DHW (l/h)	
MVV-2000-S2B/SS2B	3	43	741	67	1154	88	1516	
	5	53	913	82	1412	108	1860	
	8	62	1068	96	1654	126	2170	
MVV-3500-S2B/SS2B	3	58	999	86	1481	114	1964	
	5	72	1240	106	1826	141	2429	
	8	84	1447	125	2153	165	2842	
MVV-5000-S2B/SS2B	3	66	1137	100	1722	132	2274	
	5	83	1430	125	2153	167	2877	
	8	98	1688	150	2584	199	3428	

(2) DHW productions for the lower coils of SS2B models correspond to the productions of the SSB models, see page 103.



MASTER VITRO - COILS models - SB - (DHW production - peak flow -)

		MVV1500 SB	MVV2000 SB	MVV2500 SB	MVV3000 SB	MVV3500 SB	MVV4000 SB	MVV5000 SB	MVV6000 SB
Peak flow 40°C	L/10'	2925	3900	4875	5850	6825	7800	9750	11800
Peak flow 45°C	L/10'	2500	3325	4175	5000	5850	6675	8350	10050
Peak flow 60°C	L/10'	1750	2325	2925	3500	4075	4675	5850	7075
Peak flow 40°C	L/60'	6675	8150	9625	11675	14240	15200	18500	20550
Peak flow 45°C	L/60'	5600	6850	8125	9825	12055	12875	15625	17340
Peak flow 60°C	L/60'	3400	4225	5050	6125	7450	8000	9750	10990
Continuous flow 40°C	Ltrs/h	4500	5100	5700	7000	8900	8900	10500	10500
Continuous flow 45°C	Ltrs/h	3725	4250	4750	5800	7450	7450	8750	8750
Continuous flow 60°C	Ltrs/h	2000	2300	2550	3150	4000	4000	4700	4700
Heating time (from 10 to 75°C)	Min	77	88	100	97	100	102	109	117
Primary flow	m³/h	8	8	8	8	8	8	8	8
Primary input temperature 85°C									

Primary input temperature 85℃

MASTER VITRO - COILS models - SSB - (DHW production - peak flow -)

		MVV1500 SSB	MVV2000 SSB	MVV2500 SSB	MVV3000 SSB	MVV3500 SSB	MVV4000 SSB	MVV5000 SSB	MVV6000 SSB
Peak flow 40°C	L/10'	2925	3900	4875	5850	6825	7800	9750	11775
Feak now 40 C	L/TU	2925	2900	4075	2020	0025	7600	9750	11/75
Peak flow 45°C	L/10'	2500	3325	4175	5000	5850	6675	8350	10370
Peak flow 60°C	L/10'	1750	2325	2925	3500	4075	4675	5850	7150
Peak flow 40°C	L/60'	7675	9725	11550	14600	15575	16550	18900	20940
Peak flow 45°C	L/60'	6450	8150	9735	12275	13125	13950	16000	18040
Peak flow 60°C	L/60'	3875	4950	5930	7400	7975	8575	10000	11320
Continuous flow 40°C	Ltrs/h	5700	7000	8010	10500	10500	10500	11000	11000
Continuous flow 45°C	Ltrs/h	4750	5800	6675	8750	8750	8750	9200	9200
Continuous flow 60°C	Ltrs/h	2550	3150	3605	4700	4700	4700	5000	5000
Heating time (from 10 to 75°C)	Min	60	65	65	65	76	87	102	110
Primary flow	m³/h	8	8	8	8	8	8	8	8
Primary input temperature 85°C									

rimary input temperature 85°C

MASTER VITRO - COILS models - S2B / SS2B - (DHW production - peak flow -)

LOWER COIL		MVV2000 S2B	MVV3500 S2B	MVV5000 S2B	MVV6000 S2B	MVV2000 SS2B	MVV3500 SS2B	MVV5000 SS2B	MVV6000 SS2B	
Peak flow 40°C	L/10'	3900	6825	10840	12790	3900	6825	10840	12790	
Peak flow 45°C	L/10'	3325	5850	9235	10910	3325	5850	9235	10910	
Peak flow 60°C	L/10'	2325	4075	6325	7500	2325	4075	6325	7500	
Peak flow 40°C	L/60'	8150	14240	21740	23690	9725	15575	21740	23690	
Peak flow 45°C	L/60'	6850	12055	18010	19680	8150	13125	18010	19680	
Peak flow 60°C	L/60'	4225	7405	11065	12240	4950	7975	11065	12240	
Continuous flow 40°C	Ltrs/h	5100	8900	13080	13080	7000	10500	13080	13080	
Continuous flow 45°C	Ltrs/h	4250	7450	10530	10530	5800	8750	10530	10530	
Continuous flow 60°C	Ltrs/h	2300	4000	5690	5690	3150	4700	5690	5690	
Heating time (from 10 to 75°C)	Min	88	98	102	110	65	76	102	110	
Primary flow	m³/h	8	8	8	8	8	8	8	8	
Primary input temperature 85°C										

Primary input temperature 85°C

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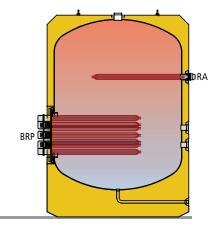
ELECTRIC HEATING - MASTER VITRO



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The MASTER VITRO models can be fitted with electric heating elements:

- "RB/EB" STORAGE models: MAIN ELECTRIC HEATING and/or BACKUP ELECTRIC HEATING
- Models with "SB/SSB" COILS : BACK-UP ELECTRIC HEATING



MASTER "VITRO" threaded immersion heating elements, in INCOLOY, for electric heating:

	Electric heating element model	KW	V	Thread	Integrated control	IP	Length L*	MAIN HEATING and/or BACKUP HEATING	BACKUPHEATING	<i>M</i>
6	RA4/2-60H	6,0	230/400	2" M	-	40	797	MVV15006000-RB/EB	MVV15006000-SB/SSB	
	RA4/2-90H	9,0	230/400	2"M	-	40	1115	MVV15006000-RB/EB	MVV15006000-SB/SSB	
è	RA4/2-120DH	12,0	230/400	2"M	-	40	680	MVV15006000-RB/EB	MVV15006000-SB/SSB	
	RA4/2-120DHT	12,0	230/401	2"M	Regulation and safety thermostat*	65	680	MVV15006000-RB/EB	MVV15006000-SB/SSB	#
	RA4/2-125DHT	12,5	230/400	2"M	Regulation and safety thermostat*	65	680	MVV15006000-RB/EB	MVV15006000-SB/SSB	
	RA4/2-150DH	15,0	230/400	2"M	-	40	820	MVV15006000-RB/EB	MVV15006000-SB/SSB	
	RA4/2-150DHT	15,0	230/400	2"M	Regulation and safety thermostat*	65	820	MVV15006000-RB/EB	MVV15006000-SB/SSB	
	RA4/2-250DH	25,0	230/400	2"M	-	40	1200	MVV15006000-RB/EB	MVV15006000-SB/SSB	Can A Can
	RA4/2-250DHT	25,0	230/400	2"M	Regulation and safety thermostat*	65	1200	MVV15006000-RB/EB	MVV15006000-SB/SSB	

(*) Regulation thermostat: o - 75°C (adjusted to 60 °C) / Safety thermostat: 90 °C

HIGH ELECTRIC POWERS:

If high electric power storage tanks have to be installed, the electric heating elements can be grouped together in the ND400 manhole. The "RB" models can be fitted with up to 8 immersion elements in the ND400 side manhole, to obtain a maximum power of 200 KW For the 2000, 3500, 5000 and 6000 litre models an optional second ND400 manhole can be included to group together up to 16 electric heating elements, for a maximum power of 400 KW.

SPECIAL MANUFACTURE: The "SB" and "SSB" models can only incorporate electric heating elements in the ND400 if it is moved to the top part of the storage tank, above the set of coils. In this case the electric heating would act as backup heating. As an option, the 2000, 3500, 5000 and 6000 litre models can also include a second ND400.

In all of the cases the system is supplied with a protective box for the set of heating elements in stainless steel, with a lid.

LOWER MANHOLE main heating UPPER MANHOLE backup heating Tank models Number of heating Number of heating elements on MH MVV "RB" elements on MH ND400 ND400 (OPTIONAL) MVV1500RB 3, 4, 5, 6, 7 u 8 MVV2000RB 3, 4, 5, 6, 7 u 8 3, 4, 5, 6, 7 u 8 MVV2500RB 3, 4, 5, 6, 7 u 8 -MVV3000RB 3, 4, 5, 6, 7 u 8 MVV3500RB 3, 4, 5, 6, 7 u 8 3, 4, 5, 6, 7 u 8 MVV4000RB 3, 4, 5, 6, 7 u 8 MVV5000RB 3, 4, 5, 6, 7 u 8 3, 4, 5, 6, 7 u 8 MVV6000RB 3, 4, 5, 6, 7 u 8 3, 4, 5, 6, 7 u 8

MVV "RB" models with threaded immersion heating elements, in MH ND400

ELECTRIC HEATING - MASTER VITRO

MVV "SB/SSB" models with threaded immersion heating elements, in MH ND400

1	RACKIIP	HEATING)
1	DACKUP	HEATING)

(OPTION 1) Manhole moved to top part of tank.

(OPTION 2) Second manhole on top part of tank									
Tank models MVV "SB/SSB"	Number of heating elements on MH ND400 (OPTION 1)	Number of heating elements on 2nd MH ND400 (OPTION 2)							
MVV1500SB/SSB	3, 4, 5, 6, 7 u 8	-							
MVV2000SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8							
MVV2500SB/SSB	3, 4, 5, 6, 7 u 8	-							
MVV3000SB/SSB	3, 4, 5, 6, 7 u 8	-							
MVV3500SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8							
MVV4000SB/SSB	3, 4, 5, 6, 7 u 8	-							
MVV5000SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8							
MVV6000SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8							



MASTER "VITRO" sheathed CERAMIC HEATING ELEMENTS on stainless steel plate for MH ND400

ND400 stainless steel plate with sheaths for ceramic heating elements + no. of heating elements selected. NUMBER OF HEATING ELEMENTS per plate in MH ND400: 3, 4, 5, 6, 7 or 8

Electric element model	KW	V	Length L*	MAIN and/or BACKUP HEATING	BACKUP HEATING
RCER-45	4,5	230/400	800	MVV15006000-RB	MVV15006000-SB/SSB
RCER-60	6,0	230/400	1000	MVV15006000-RB	MVV15006000-SB/SSB



ELECTRIC HEATING WITH CERAMIC HEATING ELEMENTS. "DRY" SYSTEM

With the "dry" system with ceramic electric heating elements there is no need to drain the storage tank when fitting/removing or replacing the heating elements.

This system consists of a ND400 stainless steel plate with blind sheaths in the same material that house the ceramic heating elements. With a maximum of 8 units per ND400 plate, this system provides a maximum of 48 KW of electric power.

As an option, the storage tank can be equipped with a second ND400 manhole. In this case, maximum installable power would be 96 KW (only valid for 2000, 3500, 5000 and 6000 litre "RB" models).

In all of the cases the system is supplied with a protective box for the set of heating elements in stainless steel, with a lid.

MVV "RB" models with ceramic electric heating elements, in ND400 MANHOLE

LOWER MA	NHOLE main heating	UPPER MANHOLE backup heating
Tank models MVV "RB"	Number of heating elements on MH ND400	Number of heating elements on 2nd MH ND400 (OPTIONAL)
MVV1500RB	3, 4, 5, 6, 7 u 8	_
MVV2000RB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8
MVV2500RB	3, 4, 5, 6, 7 u 8	_
MVV3000RB	3, 4, 5, 6, 7 u 8	_
MVV3500RB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8
MVV4000RB	3, 4, 5, 6, 7 u 8	_
MVV5000RB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8
MVV6000RB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8

MVV "SB/SSB" models with ceramic electric heating elements, in ND400 MANHOLE

(BACKUP HEATING ONLY)

(OPTION 1) Manhole moved to top part of tank. (OPTION 2) Second manhole on top part of tank

(•••••••••••••••••••••••••••••••••••••									
Tank models MVV "SB/SSB"	Number of heating elements on MH ND400 (OPTION 1)	Number of heating elements on 2nd MH ND400 (OPTION 2)							
MVV1500SB/SSB	3, 4, 5, 6, 7 u 8	_							
MVV2000SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8							
MVV2500SB/SSB	3, 4, 5, 6, 7 u 8	_							
MVV3000SB/SSB	3, 4, 5, 6, 7 u 8	_							
MVV3500SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8							
MVV4000SB/SSB	3, 4, 5, 6, 7 u 8	_							
MVV5000SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8							
MVV6000SB/SSB	3, 4, 5, 6, 7 u 8	3, 4, 5, 6, 7 u 8							

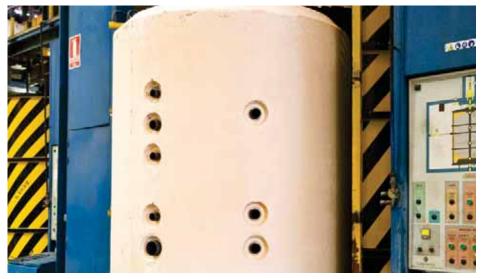


In all of the cases the system is supplied with a protective box for the set of heating elements in stainless steel, with a lid...

HERMAL INSULATION - MASTER VITRO

The **"MASTER VITRO"** series of tanks are thermally insulated at the factory by direct mould-injection with PU material CFC- and HCFC-free.

This system guarantees a perfectly regular insulation thickness with optimum material density. The thicknesses indicated in the table refer to the circular tank body, but the insulation is much thicker on the top part (up to four times greater). Because the top zone of the tank has better thermal protection, heat losses are much lower than those specified by the most stringent regulations, such as the DIN 4753/8 standard.



Rigid, mould-injected PU insulating material.

- Minimal heat loss!
- For hot and cold water!
- No condensation on tank body!
- Compact block, no joints!

TABLE OF THERMAL INSULATION: MASTER VITRO SERIES

Minimum thickness of equivalent insulation with other insulating materials (mm)

Serie	Туре	Model	Thermal insulation k= 0.025 W/m °K	Insulation thickness PU (mm.)	Static heat losses EN 12897 (W)	ErP	Flexible polyurethane foam* k= 0,040 W/m °K	Rockwool* k= 0,034 - 0,042 W/m °K	Fiberglass* k= 0,035 - 0,046 W/m °K
MASTER VITRO		MVV-1500-RB/SB/SSB	PU	80	154	С	130	110 - 140	115 - 155
MASTER VITRO		MVV-2000-RB/SB/SSB/S2B/SS2B	PU	80	174	С	130	110 - 140	115 - 155
MASTER VITRO	B	MVV-2500-RB/SB/SSB	PU	80	194	С	130	110 - 140	115 - 155
MASTER VITRO	ORA	MVV-3000-RB/SB/SSB	PU	80	215	С	130	110 - 140	115 - 155
MASTER VITRO	IL ST	MVV-3500-RB/SB/SSB/S2B/SS2B	PU	80	232	С	130	110 - 140	115 - 155
MASTER VITRO	0	MVV-4000-RB/SB/SSB	PU	80	245	С	130	110 - 140	115 - 155
MASTER VITRO		MVV-5000-RB/SB/SSB/S2B/SS2B	PU	80	266	С	130	110 - 140	115 - 155
MASTER VITRO		MVV-6000-RB/SB/SSB/S2B/SS2B	PU	80	280	С	130	110 - 140	115 - 155

(*) Detachable systems can lose up to 25% of the insulating capacity overall, so that in that case the insulation thickness will increased proportionally.

CATHODIC PROTECTION - MASTER VITR



"LAPESA CORREX-UP" PERMANENT CATHODIC PROTECTION SYSTEM.

MASTER VITRO tanks include a "lapesa correx-up" cathodic protection unit as a standard feature.

Totally automatic! "lapesa correx-up", cathodic protection system comprises special titanium anodes that emit the necessary current for the metal surface to be protected by means of an automatic potentiostat connect to the mains power supply.

Maintenance free! This cathodic protection system is permanent which means that, unlike sacrificial anodes, there is no wear and the anodes do not need to be replaced.



"lapesa correx-up" permanent cathodic protection system: Maintenance-free permanent cathodic protection unit. These anodes do not wear out and they emit the necessary electric current automatically providing the tank with cathodic protection via an individual potentiostat for each anode, connected to the mains electricity.



ACCESSORIES - MASTER VITRO



• EXTERNAL LINING

External lining for "MASTER VITRO" tanks with top cover, ND400 side manhole cover and trims for hydraulic connections. Standard external lining: GREY / RAL 7042.

Capacity	Standard	Fireproof	Weatherproof
	(1/17		
(I)	(KIT reference)	(KIT reference)	(KIT reference)
1500	FME1500	FME1500/M0	FME1500/EX
2000	FME2000	FME2000/M0	FME2000/EX
2500	FME2500	FME2500/M0	FME2500/EX
3000	FME3000	FME3000/M0	FME3000/EX
3500	FME3500	FME3500/M0	FME3500/EX
4000	FME4000	FME4000/M0	FME4000/EX
5000	FME5000	FME5000/M0	FME5000/EX
6000	FME6000	FME6000/M0	FME6000/EX

Ca

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ALUNOX EXTERNAL LINING

External aluminium sheet lining. ALUNOX external lining is supplied readymounted on the tank, over the PU insulation.

pacity (I)	Aluminium lining ALUNOX - Ref.
500	FME1500/ALUNOX-B
000	FME2000/ALUNOX-B
500	FME2500/ALUNOX-B
000	FME3000/ALUNOX-B
500	FME3500/ALUNOX-B
000	FME4000/ALUNOX-B
000	FME5000/ALUNOX-B







2" M THREADED ELECTRIC HEATING ELEMENT.

Low charge density, threaded, immersion electric element in Incoloy for **"MASTER VITRO" STORAGE and COIL** tanks.

Characteristics and powers: page: 108 -ELECTRIC HEATING-

Electric element model	KW	v	Thread	Integrated control
RA4/2-60	6.0	230/400	2"M	-
RA4/2-90	9,0	230/400	2"M	-
RA4/2-120D	12,0	230/400	2"M	-
RA4/2-120DT	12,0	230/401	2"M	Regulation and safety thermostat
RA4/2-125DT	12,5	230/400	2"M	Regulation and safety thermostat
RA4/2-150D	15,0	230/400	2"M	_
RA4/2-150DT	15,0	230/400	2"M	Regulation and safety thermostat
RA4/2-250D	25,0	230/400	2"M	-
RA4/2-250DT	25,0	230/400	2"M	Regulation and safety thermostat

(*) Regulation thermostat 0 -75 °C (adjusted to 60 °C) / Safety thermostat 90 °C

CERAMIC ELECTRIC HEATING ELEMENT, STORAGE AND COIL MODELS.

Sheathed ceramic electric heating element for "MASTER VITRO" STORAGE and COIL tanks, models "RB" Characteristics and powers: page: 106 -ELECTRIC HEATING-

Electric element model	KW	v
RCER-45	4,5	230/400
RCER-60	6,0	230/400





ND 400 PLATES FOR INSTALLATION OF ELECTRIC HEATING ELEMENTS IN ND400 SIDE MANHOLE.

ND 400 plate and protective hood in stainless steel, with 2" threaded connections to install immersion electric heating elements in ND400 side manhole.

ND400 plate set
TBH2CONEX
TBH4CONEX
TBH5CONEX
TBH6CONEX
TBH7CONEX
TBH8CONEX
(*) Heating elements not included



ND 400 PLATES FOR INSTALLATION OF ELECTRIC HEATING ELEMENTS IN ND400 SIDE MANHOLE. ND 400 plate and protective hood in stainless steel, for instalation of sheathed caramic electrical heating elements ("dry"

llation of sheathed ceramic electrical heating elements ("dry" system) in ND400 side manhole.

P & T PRESSURE AND TEMPERATURE SAFETY VALVE

P & T pressure and temperature safety valve, 8 bar, 92°C

TBH2VAINAS TBH4VAINAS TBH5VAINAS TBH5VAINAS TBH6VAINAS TBH7VAINAS TBH8VAINAS (*) Heating elements not included

ND400 plate set

DUAL CONTROL AND SAFETY THERMOSTAT Kit comprising dual control 0-75°C (set at 60°C) and safety (95°C) thermostat, with 1/2" x 100 mm threaded sheath and 3/4"-1/2" reduction

x 100 mm threaded sheath and 3/4"-1/2" i

KIT MASTER double thermostat

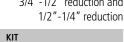


• **0-120°C THERMOMETER** KIT comprising 0-120°C thermometer with 1/2 " x 100 mm threaded sheath and 3/4"-1/2" reduction

КІТ

KIT pressure gauge





KIT pressure gauge







lapesa [110]

ACCESSORIES - MASTER VITRO

PLATE EXCHANGERS

COMPACT PLATE	EXCHANGERS	Ref.	Number of plates	Flow rate at 50°C (l/h)	Power (kW) ⁽³⁾	Pressure drop (meters H ₂ 0)	A x B x F mm	E mm	C mm	D mm	Connections
Max. working temperature	135 / 155°C ⁽¹⁾	LPIC-01	20	1.000	45	< 3	73 x 192 x 42,32	20,1	40	154	3/4"
Max working pressure	16 / 25 bar (2)	LPIC-02	20	2.000	90	< 6	73 x 315 x 42,32	20,1	40	278	3/4"
Applications	Fluid/Fluid	LPIC-03	20	3.000	140	< 6	119 x 289 x 48,8	45	72	243	1"
Chassis	AISI 316	LPIC-04	30	4.000	185	< 6	119 x 289 x 71,2	45	72	243	1"
		LPIC-05	40	5.000	235	< 6	119 x 289 x 93,6	45	72	243	1"
Plates	AISI 316	LPIC-07	40	7.000	325	< 8	119 x 376 x 93,6	45	63	320	1-1/4"
Connections	AISI 316	LPIC-10	60	10.000	465	< 8	119 x 376 x 136,4	45	63	320	1-1/4"
Additional features	Thermal Insulation	LPIC-12	70	12.000	560	< 8	119 x 376 x 160,8	45	63	320	1-1/4"

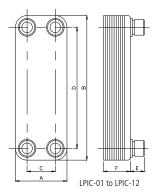
(1) Maximum working temperature for LPIC-01 and LPIC-02 models 135°C, for rest of models 155°C

(2) Maximum working pressure for LPIC-01 and LPIC-02 models 16 bar, for rest of models 25 bar

(3) Power defined according to: Primary 90/60°C and secondary 10/50°C

Optional: Other pressures, temperatures or fluids



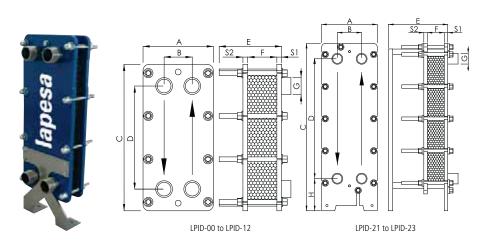


DETTACHABLE PLATE	EXCHANGERS	Ref.	Number of plates	Flow rate at 50°C (l/h)	Power (kW) ⁽³⁾	Pressure drop (meters H ₂ 0)	A x C x F mm	E(max) mm	B mm	D mm	H mm	G mm
Max. working temperature	110°C	LPID-00	5	1.000	48	< 3	204 x 490 x 13,25	290	86	381	-	1-1/4"
Max. working pressure	10 bar	LPID-01	7	1.300	60	< 3	204 x 490 x 18,55	290	86	381	-	1-1/4"
Applications	Fluid/Fluid	LPID-02	11	2.600	120	< 3	204 x 490 x 29,15	290	86	381	-	1-1/4"
Chassis	Carbon steel	LPID-03	13	3.200	148	< 3	204 x 490 x 34,45	290	86	381	-	1-1/4"
Plates	AISI 316	LPID-04	17	4.200	195	< 3	204 x 490 x 45,05	290	86	381	-	1-1/4"
Connections	AISI 316	LPID-05	21	5.200	240	< 3	204 x 490 x 55,65	290	86	381	-	1-1/4"
Gaskets	EPDM The arrest language time	LPID-07	27	6.600	305	< 3	204 x 490 x 71,55	290	86	381	-	1-1/4"
Additional features	Thermal Insulation Support leg ⁽⁴⁾	LPID-10	37	8.600	400	< 3	204 x 490 x 98,05	290	86	381	-	1-1/4"
		LPID-12	45	10.000	465	< 3	204 x 490 x 119,25	290	86	381	-	1-1/4"
		LPID-21	23	15.700	725	< 3	312 x 963 x 80,5	960	140	690	185	2"
		LPID-22	29	20.500	950	< 3	312 x 963 x 101,5	960	140	690	185	2"
		I PID-23	35	25 000	1155	< 3	312 x 963 x 122 5	960	140	690	185	2"

(3) Power defined according to: Primary 90/60°C and secondary 10/50°C

(4) For models LPID-00 to LPID-12

Optional: Other pressures, temperatures or fluids Chassis and plates in AISI-304, AISI-316 or Titanium



DATA REQUIRED TO PROVIDE A QUOTE FOR A CUSTOM PLATE EXCHANGER

To provide a specific offer of the most suitable plate heat exchanger for each particular case, the following details on the primary and secondary circuits are required: • Primary and secondary circuit flows

- Input/output temperatures of the primary and secondary circuits
- Physical properties of the liquids (if they are neither water nor steam), density and specific heat.
- Required working pressure
- Pressure drop



BUFFER TANKS FOR PRIMARY CIRCUITS

GEISER INERTIA / MASTER INERTIA energy storage!

The **GEISER INERTIA and MASTER INERTIA** series of buffer tanks are designed for use exclusively in closed heating or cooling circuits. These storage tanks in carbon steel include all of the hydraulic connections required for energy storage or heat inertia installations and, especially for the application of **RENEWABLE ENERGIES** where energy storage is a key factor in the efficient operation of the system.

GEISER INERTIA (50 to 1500 litres): (Individual or battery installation) • Installations with solar energy • Installations with biomass boilers • Installations with heat pumps

- Combined energy storage installations
- Cooling installations

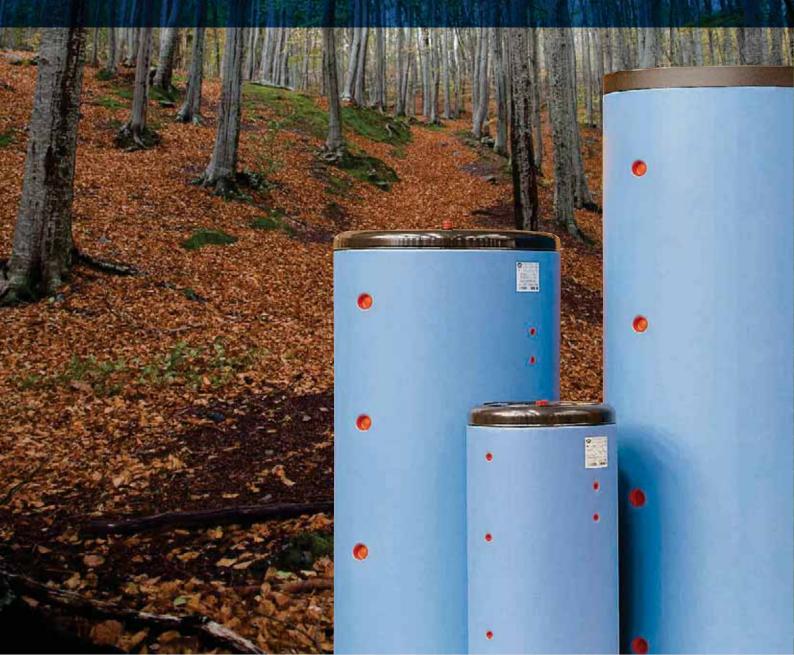
MASTER INERTIA (1.500 to 6000 litres):

(Individual or battery installation)

- Energy storage and distribution facilities
- Centralized thermal solar energy systems
- Centralized systems with heat pump
- Centralized systems with biomass boiler
- Centralized instant DHW production systems
- Centralized combined energy storage systems
 Cooling installations

ENERGY BUFFER TANKS for installations that require correct energy management, especially for systems that use renewable energy sources such as:

BIOMASS, HEAT PUMP or SOLAR ENERGY



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BUFFER TANKS FOR PRIMARY CIRCUITS

GEISER / MASTER INERTIA

Inertia buffer tanks, energy storage!

Inertia buffer tanks for closed heating or cooling circuits that act as the installation energy regulator.

Models with or without internal exchanger and models with own heat stratification system complete our range of **GEISER/MASTER INERTIA**, from 30 to 6000 litres storage capacity.



PRIMARY BUFFER TANKS Energy buffer tanks from **30** to **6000** litres capacity, for closed heating or cooling circuits.

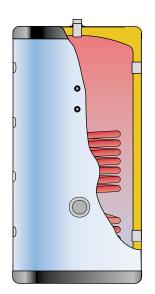
For installations that require correct energy management, especially for systems that use renewable energy sources such as: **BIOMASS**, **HEAT PUMP or SOLAR ENERGY.**

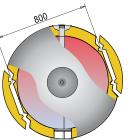
Designed to provide an extraordinary storage capacity that translates directly into real savings. The overdimensioned, rigid, mould-injected PU thermal insulation maintains the DHW storage temperature over long periods of time without requiring any additional energy input. This means less start-ups and adjustments of external energy sources, with less energy consumption and a more economical cost.

MODELS WITH COILS: Versions with heating coils as the intermediate thermal exchange system, for systems without their own heat exchanger.

Ready for installation with electric heating elements to provide back-up electric heating.

BUFFER TANKS FOR PRIMARY CIRCUITS GEISER / MASTER INERTIA - **STORAGE**





Detail of pre-cut insulation on 800 and 1000 litre tanks to pass through 800 mm wide doors.

MODELS WITH THERMAL STRATIFICATION SYSTEM: Versions that incorporate thermal stratification for perfect energy management of the installation.

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mould-injected insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 126).

Lapesa buffer tanks have minimal heat losses and for this reason are considered to be one of the products with the greatest storage capacity on the market.

EASY TO INSTALL AND MAINTAIN: GEISER INERTIA 800 and 1000 litre models are designed with a detachable insulation system on the two opposite sides of the tank to allow them to pass through 800 mm wide accesses.

The MASTER INERTIA "IB" and "ISB" models include a ND400 side manhole to access the interior of the tank to carry out inspection, cleaning and maintenance tasks.

EASY TO HANDLE AND TRANSPORT: Our "MASTER INERTIA" buffer tanks are designed for easy handling and transport to the place of installation.

They have an integrated system for handling and transporting by forklift truck, which facilitates handling operations enormously, as there is no need to palletize the product which, given its weight and size, would make handling difficult.

The tanks are also equipped with lifting eyebolts on the top part so that if they have to be placed in a high area they can be lifted with an overhead hoist.





FEATURES COMMON TO ALL "GEISER INERTIA/MASTER INERTIA" MODELS:

- Carbon steel inertia buffer tank.
- GEISER INERTIA capacities: 30, 50, 80, 140, 200, 240, 370, 600, 800, 1000 and 1500 litres.
- MASTER INERTIA capacities: **1500**, **2000**, **2500**, **3000**, **3500**, **4000**, **5000** and **6000** litres.
- Maximum working pressure of buffer tank: 6 bar
- Maximum working pressure, coil (models "IS" and "IFS"): 25 bar
- Maximum working temperature of buffer tank: 110 °C
- Maximum working temperature, coil (models "IS" and "IFS"): 200 °C
- Thermal insulation: Rigid, mould-injected PU (CFC/HCFC-free, 0.025 W/m°K)
- Tanks for VERTICAL installation on floor (option of HORIZONTAL position please consult us)

BUFFER TANKS FOR PRIMARY CIRCUITS GEISER INERTIA - **STORAGE**

GEISER INERTIA "I / IF"

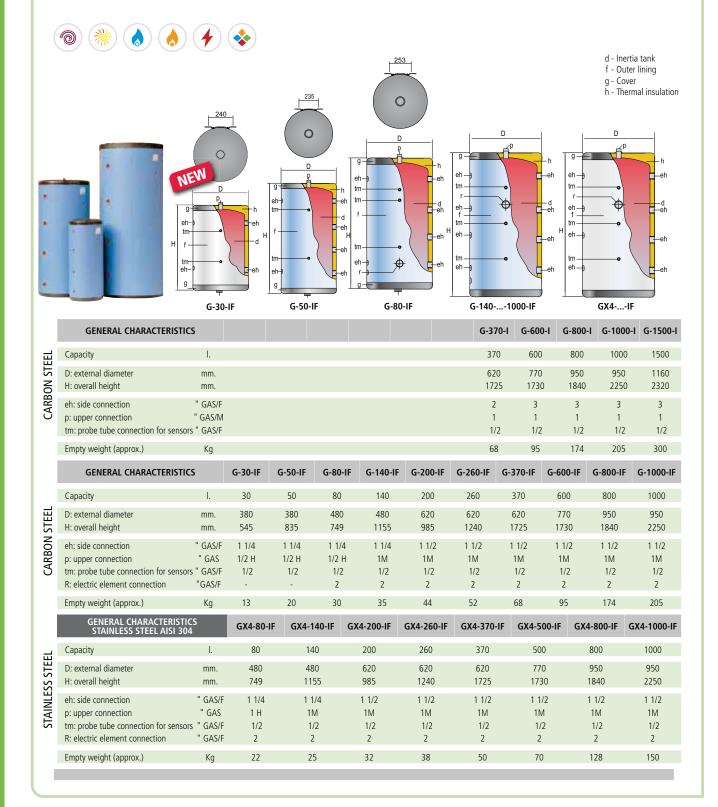
INERTIA buffer tanks from 30 to 1500 litres capacity, for closed heating or cooling circuits.

30, 50 and 80 litre models - for wall-mounting.

From 140 litre model onwards - for vertical installation on floor.

Ready for a backup electric immersion element to be fitted (up to 1000 litre model).

The 800 and 1000 litre capacity tanks include an insulation system that allows them to pass through 800 mm wide doors. Standard finish with RAL 5015 padded external lining and RAL 7021 grey cover (for model G-30-IF with white lining). For models of 1500 litre of capacity, set grey padded external lining RAL 7042 and black cover, supplied separately.



BUFFER TANKS FOR PRIMARY CIRCUITS MASTER INERTIA - **STORAGE**

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MASTER INERTIA "I / IB"

INERTIA buffer tanks from 1500 to 6000 litres capacity, for closed heating or cooling circuits.

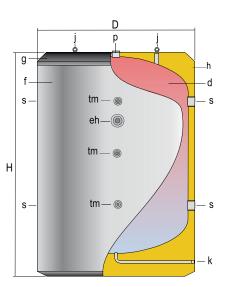
Ready to be fitted with a backup electric immersion element.

Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole.

Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (see ACCESSORIES chapter, page: 127).

IB MODELS: With side ND400 manhole to access inside the storage tank for inspection, cleaning and maintenance tasks.







d - Buffer tank

f - Outer lining

g - Top cover h - Thermal insulation

STAINLESS STEEL

j - Lifting eyebolts

G	ENERAL CHARACTERISTIC	s	MV-1500 I/IB	MV-2000 I/IB	MV-2500 I/IB	MV-3000 I/IB	MV-3500 I/IB	MV-4000 I/IB	MV-5000 I/IB	MV-6000 IB
Capacity		Ι.	1500	2000	2500	3000	3500	4000	5000	6000
D: external	diameter	mm.	1360	1360	1660	1660	1660	1910	1910	1910
H: overall h	neight	mm.	1830	2280	2015	2305	2580	2310	2710	3210
Diagonal		mm.	2281	2655	2611	2841	3068	2998	3316	3735
s: side con	nection	" GAS/F	4	4	4	4	4	4	4	4
eh: electric	element connection	" GAS/F	2	2	2	2	2	2	2	2
p: upper co	onnection	" GAS/F	2	2	2	2	2	2	2	2
k: drain co	nnection	" GAS/M	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2
tm: probe	tube connection for sensors	" GAS/F	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Empty wei	ght (approx.) "I / IB"	Kg	273 / 298	353 / 378	503 / 528	540 / 565	576 / 601	893 / 918	970 / 995	1090
Side hole	(only in IB model)		DN400	DN400						
C		c	MXV4-1500	MXV4-2000	MXV4-2500	MXV4-3000	MXV4-3500	MXV4-4000	MXV4-5000	MXV4-6000

GENERAL CHARACTERISTICS		MXV4-1500	MXV4-2000	MXV4-2500	MXV4-3000	MXV4-3500	MXV4-4000	MXV4-5000	MXV4-6000
STAINLESS STEEL AISI 304		I/IB	IB						
Capacity	l.	1500	2000	2500	3000	3500	4000	5000	6000
D: external diameter	mm.	1360	1360	1660	1660	1660	1910	1910	1910
H: overall height	mm.	1830	2280	2015	2305	2580	2310	2710	3210
Diagonal	mm.	2281	2655	2611	2841	3068	2998	3316	3735
s: side connection	" GAS/F	4	4	4	4	4	4	4	4
eh: electric element connection	" GAS/F	2	2	2	2	2	2	2	2
p: upper connectionr	" GAS/F	2	2	2	2	2	2	2	2
k: drain connection	" GAS/M	1	1	1	1	1	1	1	1
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Empty weight (approx.) "I / IB"	Kg	273 / 298	353 / 378	503 / 528	540 / 565	576 / 601	893 / 918	970 / 995	1090
Side hole (only in IB model)		DN400							

INERTIA BUFFER TANK

BUFFER TANKS FOR PRIMARY CIRCUITS GEISER INERTIA - COIL

GEISER INERTIA "IS / IFS"

INERTIA buffer tanks, **260** to **1500** litre capacity, for closed heating or cooling circuits, with integrated intermediate heating **COIL**.

From 260 litre model onwards - for vertical installation on floor.

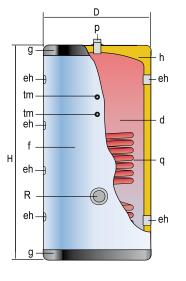
Ready to be fitted with a backup electric immersion element.

Up to 1000 litre model, standard finish with RAL 5015 blue padded external lining and RAL 7021 grey cover.

The 800 and 1000 litre capacity tanks include an insulation system that allows them to pass through 800 mm wide doors. External lining is optional for the 1500 litre model and is supplied separately (RAL 7042 grey external lining and black cover).







d - Buffer tank

f - Outer lining g - Cover

h - Thermal insulation

q - Heating coil

GENERAL CHARACTERIST	ICS	G-370-IS	G-600-IS	G-800-IS	G-1000-IS	G-1500-IS
DHW capacity	l.	370	600	800	1000	1500
D: external diameter	mm.	620	770	950	950	1160
H: overall height	mm.	1725	1730	1840	2250	2320
eh: side connection	" GAS/F	2	3	3	3	3
p: upper connection	" GAS	1M	1M	1M	1M	1M
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2	1/2	1/2
R: electric element connection	" GAS/F	2	2	2	2	2
Heating coil surface	m ²	1,32	1,83	2,70	2,70	3,00
Empty weight (approx.)	Kg	86	123	199	231	339

GENERAL CHARACTERISTICS		G-260-IFS	G-370-IFS	G-600-IFS	G-800-IFS	G-1000-IFS	G-1500-IFS
DHW capacity	l.	260	370	600	800	1000	1500
D: external diameter	mm.	620	620	770	950	950	1160
H: overall height	mm.	1240	1725	1730	1840	2250	2320
eh: side connection	" GAS/F	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
p: upper connection	" GAS	1M	1M	1M	1M	1M	1M
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2	1/2	1/2	1/2
R: electric element connection	" GAS/F	2	2	2	2	2	2
Heating coil surface	m2	1,32	1,32	1,83	2,70	2,70	3,00
Empty weight (approx.)	Kg	70	86	123	199	231	339

BUFFER TANKS FOR PRIMARY CIRCUITS MASTER INERTIA - **COIL**

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MASTER INERTIA "IS / ISB"

d - Buffer tank

f - Outer lining g - Top cover h - Thermal insulation j - Lifting eyes q - Coil t - Manhole ND400

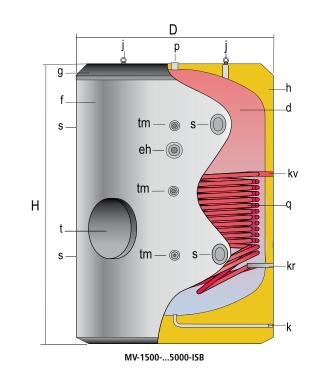
INERTIA buffer tanks, **1500** to **5000** litre capacity, for closed heating or cooling circuits, with integrated intermediate heating **COIL**.

Ready to be fitted with an electric immersion element for backup heating.

Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam. Models ISB, with insulating piece in same material on the ND400 side manhole.

With side ND400 manhole to access the interior of the storage tank for inspection, cleaning and maintenance tasks. Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (see ACCESSORIES chapter, page: 127).





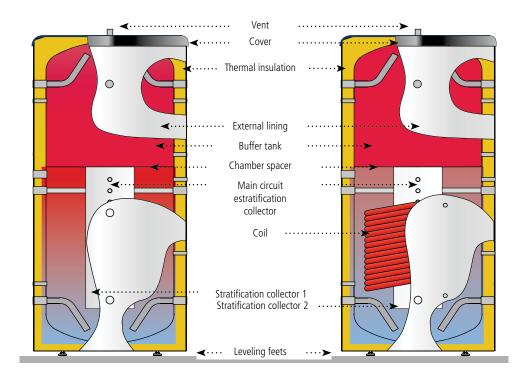


GENERAL CHARACTERISTI	cs	MV-1500-IS	MV-2000-IS	MV-2500-IS	MV-3000-IS	MV-3500-IS	MV-4000-IS	MV-5000-IS
Capacity	l.	1500	2000	2500	3000	3500	4000	5000
D: external diameter H: overall height Diagonal	mm. mm. mm.	1360 1830 2281	1360 2280 2655	1660 2015 2611	1660 2305 2841	1660 2580 3068	1910 2310 2998	1910 2710 3316
s: side connection eh: electric element connectio p: upper connectionr k: drain connection tm: probe tube connection for sensors kv, kr: coil connections	" GAS/F " GAS/F " GAS/F " GAS/M " GAS/F " GAS/F	4 2 1 1/2 1/2 1	4 2 1 1/2 1/2 1	4 2 1 1/2 1/2 1	4 2 2 1 1/2 1/2 1	4 2 2 1 1/2 1/2 1	4 2 2 1 1/2 1/2 1	4 2 1 1/2 1/2 1
Heating coil surface	m ²	3,1	3,1	5,7	5,7	6,1	6,1	6,1
Empty weight (approx.) "IS / ISB"	Kg	344 / 369	388 / 423	565 / 590	601 / 626	640 / 665	953 / 978	1030 / 1055
Side hole (models "ISB")	DN	ND400	ND400	ND400	ND400	ND400	ND400	ND400

INERTIA BUFFEI



INERTIA BUFFER TANKS with THERMAL STRATIFICATION energy management!



PRIMARY CIRCUIT BUFFER TANKS Energy buffer tanks from **800** to **5000** litres capacity, for closed heating circuits, with integrated **THERMAL STRATI-FICATION** system.

For installations that require correct energy management, especially for systems that use renewable energy sources such as: **BIOMASS, HEAT PUMP or SOLAR ENERGY**, or several simultaneously combined energy sources.

Models with coil (LW) as the intermediate heat exchange system.

Designed to provide an extraordinary storage capacity that translates directly into real savings.

The overdimensioned, rigid, mould-injected PU thermal insulation maintains the DHW storage temperature over long periods of time without requiring any additional energy input. This means less start-ups and adjustments of external energy sources, with less energy consumption and a more economical cost.

BUFFER TANKS FOR PRIMARY CIRCUITS

THERMAL STRATIFICATION SYSTEM: Integrated thermal stratification system to install up to three different energy sources simultaneously. Three separate stratification collectors take the hot water returns to the corresponding temperature levels inside the buffer tank.

MULTIFUNCTIONAL: Stratification allows different water temperature levels to be used directly for different purposes. The top zone of the tank is kept at the maximum temperature for instant domestic hot water production or to heat radiators, whilst at the same time the water at a lower temperature can be used for underfloor heating systems.

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mould-injected insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 126).

Lapesa buffer tanks have minimal heat losses and for this reason are considered to be one of the products with the greatest storage capacity on the market.

EASY TO HANDLE AND TRANSPORT: Our "MASTER INERTIA" buffer tanks are designed for easy handling and transport to the place of installation.

They have an integrated system for handling and transporting by forklift truck, which facilitates handling operations enormously, as there is no need to palletize the product which, given its weight and size, would make handling difficult. The tanks are also equipped with lifting eyebolts on the top part so that if they have to be placed in a high area they can be lifted with an overhead hoist. The 800 and 1000 litre models are designed with a detachable insulation system on the two opposite sides of the tank to allow them to pass through 800 mm wide accesses.



Thermal stratification of water stored in inertia buffer tanks allows correct management of energy, taking maximum advantage of it for each specific case and at the lowest economic cost!



FEATURES COMMON TO ALL MODELS: "GEISER INERTIA / MASTER INERTIA STRATIFICATION":

- Carbon steel inertia buffer tanks.
- GEISER INERTIA capacities: 800, 1000 and 1500 litres.
- MASTER INERTIA capacities: 2000, 2500, 3000, 3500, 4000 and 5000 litres.
- Maximum working pressure of buffer tank: 6 bar
- Maximum working pressure, coil ("LW" models): 25 bar
- Maximum working temperature of buffer tank: 110 °C
- Maximum working temperature, coil ("LW" models): 200 °C
- Thermal insulation: Rigid, mould-injected PU (CFC/HCFC-free, 0.025 W/m°K)
- Tanks for VERTICAL installation on floor.



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BUFFER TANKS FOR PRIMARY CIRCUITS GEISER INERTIA - **STRATIFICATION**

GEISER INERTIA "L"

INERTIA buffer tanks from **800** to **1500** litres capacity, for closed heating circuits, with integrated **THERMAL STRATIFI-CATION** system.

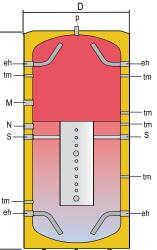
Tanks for VERTICAL installation on floor.

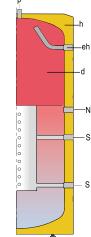
Up to 1000 litre model, standard finish with RAL 5015 blue padded external lining and RAL 7021 grey cover. The 800 and 1000 litre capacity tanks include an insulation system that allows them to pass through 800 mm wide doors. Optional supply of aluminium sheet lining ALUNOX (see chapter ACCESSORIES, page: 127).

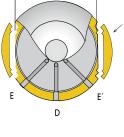




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800





tm- Probe tube connection for sensors

GENERAL CHARACTERIST	cs		G-800-L	G-1000-L	G-1500-L
Capacity	l.		800	1000	1500
D: external diameter H: overall height	mm. mm.		950 1840	950 2250	1160 2320
eh: side connection R: side connection N: side connection p: upper connection tm: probe tube connection for sensors S: collector connection	" GAS/F " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F		1 1/2 2 1 1/2 3/4 1/2 1 1/2	1 1/2 2 1 1/2 3/4 1/2 1 1/2	1 1/2 2 1 1/2 3/4 1/2 1 1/2
Empty weight (approx.)	Kg		175	200	260

BUFFER TANKS FOR PRIMARY CIRCUITS GEISER INERTIA - STRATIFICATION

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GEISER INERTIA "LW"

INERTIA buffer tanks from 800 to 1500 litres capacity, for closed heating circuits, with integrated THERMAL STRATIFI-**CATION** system and **SOLAR COIL.**

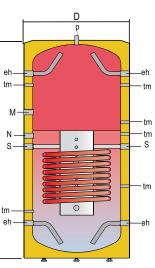
Tanks for VERTICAL installation on floor.

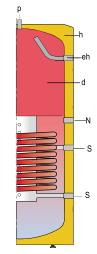
Up to 1000 litre model, standard finish with RAL 5015 blue padded external lining and RAL 7021 grey cover. The 800 and 1000 litre capacity tanks include an insulation system that allows them to pass through 800 mm wide doors. Optional supply of aluminium sheet lining ALUNOX (see chapter ACCESSORIES, page: 127).

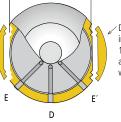




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800

Detail of pre-cut insulation on 800 and 1000 litre tanks allowing access through 800 mm wide doors.



h - Thermal insulation s - Collector inlet

q - Coil tm- Probe tube connection for sensors

GENERAL CHARACTERISTI	CS	G-800-LW	G-1000-LW	G-1500-LW
Capacity	l.	800	1000	1500
D: external diameter	mm.	950	950	1160
H: overall height	mm.	1840	2250	2320
eh: side connection	" GAS/F	1 1/2	1 1/2	1 1/2
R: side connection	" GAS/F	2	2	2
N: side connection	" GAS/F	1 1/2	1 1/2	1 1/2
p: upper connection	" GAS/F	3/4	3/4	3/4
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2
S: collector connection	" GAS/F	1 1/2	1 1/2	1 1/2
sv, sr: coil connections	" GAS/F	1	1	1
Empty weight (approx.)	Kg	245	295	365



BUFFER TANKS FOR PRIMARY CIRCUITS MASTER INERTIA - **STRATIFICATION**

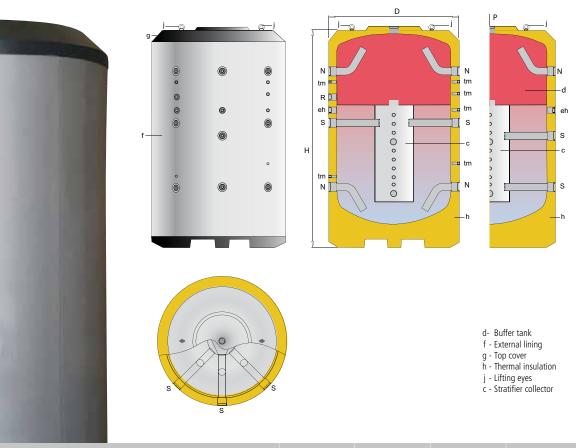
MASTER INERTIA "L"

INERTIA buffer tanks from **2000** to **5000** litres capacity, for closed heating circuits, with integrated **THERMAL STRATI-FICATION** system.

Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam.

Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (see ACCESSORIES chapter, page: 127).



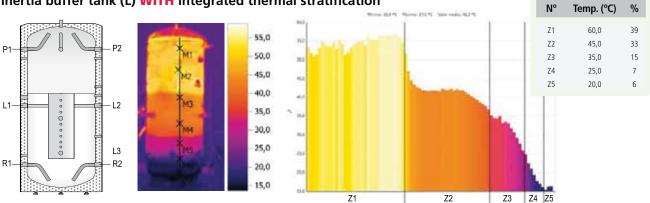


GENERAL CHARACTERISTICS		MV-2000-L	MV-3000-L	MV-4000-L	MV-5000-L
DHW capacity	l.	2000	3000	4000	5000
D: external diameter H: overall height Diagonal	mm. mm. mm.	1360 2280 2655	1660 2305 2841	1910 2310 2998	1910 2710 3316
eh: side connection R: side connection N: side connection p: upper connection tm: probe tube connection for sensors S: collector connection	" GAS/F " GAS/F " GAS/F " GAS/F " GAS/F " GAS/F	2 2 3 2 1/2 3	2 2 3 2 1/2 3	2 2 3 2 1/2 3	2 2 3 2 1/2 3
Empty weight (approx.)	Kg	428	616	965	1080

BUFFER TANKS FOR PRIMARY CIRCUITS

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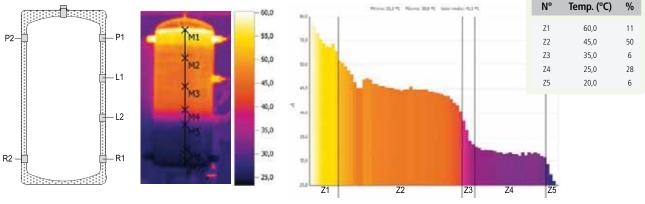
Thermal camera images comparing an "L" buffer tank with thermal stratification and a normal inertia model. Independent tests.



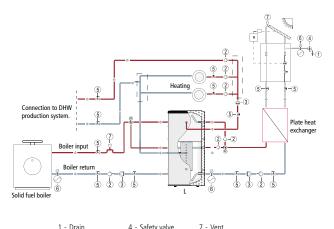
Inertia buffer tank (L) WITH integrated thermal stratification

- Input of water to L2 tank: 40 °C
- Extraction of water from R1 tank: 15 °C •
- Continuous flow during test: 500 l/h ٠
- ٠ Volume of water during test: 140 litres

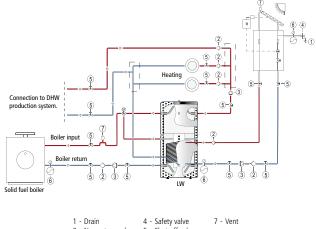
Inertia buffer tank WITHOUT integrated thermal stratification



- Input of water to L2 tank: 40°C
- Extraction of water from R1 tank: 15°C .
- Continuous flow during test: 500 l/h •
- Volume of water during test: 140 litres •



BUFFERING ENERGY CENTER (LW) Connection to DHW production system through plate heat exchanger or DHW tank.



- Non-return valve 5 2 3 - Pump

Shut-off valve

6 Expansion vessel

BUFFERING ENERGY CENTER (L)

Connection to DHW production system through plate heat exchanger or DHW tank.

4 - Safety valve 5 - Shut-off valve Non-return valve 3 - Pump 6 - Expansion vessel

THERMAL INSULATION - INERTIA



The **"GEISER INERTIA AND MASTER INERTIA"** series of tanks are thermally insulated at the factory by direct mould-injection with CFC-free and HCFC-free PU material.

This system guarantees a perfectly regular insulation thickness with optimum material density.

The thicknesses indicated in the table refer to the circular tank body, but the insulation is much thicker on the top part (up to four times greater).

Because the top zone of the tank has better thermal protection, heat losses are much lower than those specified by the most stringent regulations, such as the DIN 4753/8 standard.



Rigid, mould-injected PU insulating material.

- Minimal heat loss!
- For hot and cold water!
- No condensation on tank body!
- Compact block, no joints!

TABLE OF THERMAL INSULATION: GEISER INERTIA / MASTER INERTIA SERIES

Minimum thickness of equivalent insulation with other insulating materials(mm)

Serie	Tank model	Thermal insulation k= 0.025 W/m °K	Insulation thickness PU (mm.)	Static heat losses EN 12897 (W)	ErP (EU 812/2013)	Flexible polyurethane foam* k= 0,040 W/m °K	Rockwool* k= 0,034 - 0,042 W/m °K	Fiberglass* k= 0,035 - 0,046 W/m °K
GEISER INERTIA	G-50-IF	PU	40	37	В	65	55 - 70	55 - 75
GEISER INERTIA	G-80-IF and GX4-80-I/F	PU	40	45	В	65	55 - 70	55 - 75
GEISER INERTIA	G-140-IF and GX4-140-I/F	PU	40	60	С	65	55 - 70	55 - 75
GEISER INERTIA	G-200-IF and GX4200-I/F	PU	40	60	В	65	55 - 70	55 - 75
GEISER INERTIA	G-260-I/IF/IFS and GX4-260-I/F	PU	40	83	С	65	55 - 70	55 - 75
GEISER INERTIA	G-370-I/IF/IS/IFS and GX4-370-I/F	PU	40	85	С	65	55 - 70	55 - 75
GEISER INERTIA	GX4-500-I/F	PU	60	81	В	65	55 - 70	55 - 75
GEISER INERTIA	G-600-I/IF/IS/IFS	PU	40	95	С	65	55 - 70	55 - 75
GEISER INERTIA	G-800-I/IF/IS/IFS/L*/LW*	PU	80	99/*87	C/*B	130	110 - 140	115 - 160
GEISER INERTIA	GX4-800-I/F	PU	80	99	С	130	110 - 140	115 - 160
GEISER INERTIA	G-1000-I/IF/IS/IFS/L/LW	PU	80	114	С	130	110 - 140	115 - 160
GEISER INERTIA	GX4-1000-I/F	PU	80	114	С	130	110 - 140	115 - 160
GEISER INERTIA	G-1500-I/IF/IS/IFS/L/LW	PU	80	156	С	130	110 - 140	115 - 160
MASTER INERTIA	MV-1500-I/IB*/ISB*/L/LW	PU	80	145/*154	С	130	110 - 140	115 - 155
MASTER INERTIA	MV-2000-I/IB*/ISB*/L/LW	PU	80	164/*174	С	130	110 - 140	115 - 155
MASTER INERTIA	MV-2500-I/IB*/ISB*/L/LW	PU	80	183/*194	С	130	110 - 140	115 - 155
MASTER INERTIA	MV-3000-I/IB*/ISB*/L/LW	PU	80	203/*215	С	130	110 - 140	115 - 155
MASTER INERTIA	MV-3500-I/IB*/ISB*/L/LW	PU	80	218/*232	С	130	110 - 140	115 - 155
MASTER INERTIA	MV-4000-I/IB*/ISB*/L/LW	PU	80	231/*245	С	130	110 - 140	115 - 155
MASTER INERTIA	MV-5000-I/IB*/ISB*/L/LW	PU	80	250/*265	С	130	110 - 140	115 - 155
MASTER INERTIA	MV-6000-IB	PU	80	250/*280	С	130	110 - 140	115 - 155
(*) Detachable insula	ation systems can lose up to 25% of the in	nsulating capac	ity overall, so tha	t in that case th	e insulation thickn	ess will increased pro	portionally.	

ACCESSORIES - INERTIA



THREADED IMMERSION HEATING ELEMENTS FOR PRIMARY HEATING CIRCUIT

Threaded immersion heating elements for primary heating circuit

Reference	Electric element model	KW	V	Length L*	Optional application to tank models
G003806	RI 4/2-22	2,2	3-230 / 3-400	260	G-801500-IF/IFS
G003807	RI 4/2-54	5,4	3-230 / 3-400	345	G-801500-IF/IFS
G003808	RI 4/2-72	7,2	3-230 / 3-400	445	G-2001500-IF/IFS
G003809	RI 4/2-90	9,0	3-230 / 3-400	505	G-2001500-IF/IFS
G003810	RI 4/2-120	12,0	3-230 / 3-400	680	G-6001500-IF/IFS



Des

Threaded immersion heating elements for primary heating circuit.

GEISER INERTIA EXTERNAL LININGS



External linings for "GEISER INERTIA" tanks. Padded PVC lining with zip fastener, B2 class according to DIN 4102-1. Standard external lining: BLUE / RAL 5015. Rest of colours OPTIONAL, according to availability and the quantities of product ordered.





BLUE: RAL 5015

WHITE: RAL 9016





Capacity (I)	Standard category (ref KIT)	Class M0 (KIT reference)	Weatherproof (KIT reference)
800	FME800	FME800/M0	FME800/EX
1000	FME1000	FME1000/M0	FME1000/EX
1500	FME1500	FME1500/M0	FME1500/EX
2000	FME2000	FME2000/M0	FME2000/EX
2500	FME2500	FME2500/M0	FME2500/EX
3000	FME3000	FME3000/M0	FME3000/EX
3500	FME3500	FME3500/M0	FME3500/EX
4000	FME4000	FME4000/M0	FME4000/EX
5000	FME5000	FME5000/M0	FME5000/EX
6000	FME6000	FME6000/M0	FME6000/EX

ALUNOX EXTERNAL LINING

External aluminium sheet lining. ALUNOX external lining is supplied ready-mounted on the tank, over the PU insulation.

Capacity (I)	ALUNOX EXTERNAL LINING WITHOUT MANHOLE	ALUNOX EXTERNAL LINING WITH MANHOLE
800	FME800/ALUNOX	FME800/ALUNOX-B
1000	FME1000/ALUNOX	FME1000/ALUNOX-B
1500	FME1500/ALUNOX	FME1500/ALUNOX-B
2000	FME2000/ALUNOX	FME2000/ALUNOX-B
2500	FME2500/ALUNOX	FME2500/ALUNOX-B
3000	FME3000/ALUNOX	FME3000/ALUNOX-B
3500	FME3500/ALUNOX	FME3500/ALUNOX-B
4000	FME4000/ALUNOX	FME4000/ALUNOX-B
5000	FME5000/ALUNOX	FME5000/ALUNOX-B





INDUSTRIAL CAPACITY DHW STORAGE TANKS 7000 to 12000 litres

lapesa has a range of DHW storage tanks with capacities of more than 7000 litres for special installations and industrial applications, made in STAINLESS STEEL or COATED STEEL.

lapesa has a range of DHW storage tanks with capacities of **more than 7000 litres** for special installations and industrial applications. DHW storage and production tanks made in **STAINLESS STEEL** or **COATED STEEL.**

This range of tanks can be fitted with our system of detachable stainless steel coils, adapting the heat exchange area to the installation's thermal power.

They are also designed to incorporate electric heating elements, both for back-up heating and as main heating. Our "dry" electric heating system with ceramic heating elements can be integrated in the ND400 side manhole, allowing the heating elements to be replaced without having to drain the storage tank.

The main options available for these storage tanks are **"lapesa correx-up"** permanent cathodic protection units or detachable insulation in 50 or 100 mm-thick glassfibre with PVC external lining (separate supply).

INDUSTRIAL CAPACITY DHW STORAGE TANKS

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EQUIPMENT

WITH COILS:

MXV and **MV** models can be fitted with one or two sets of **lapesa** detachable stainless steel coils, up to 10 m² of exchange area per set, adapting to the thermal power of the external source and the requirements of the installation.



WITH ELECTRIC HEATING ELEMENTS:

The ND400 side manhole can be fitted with low charge density Incoloy electric heating elements to achieve a maximum power of 200 Kw. The equipment option with our "dry" system with ceramic heating elements allows to achieve a maximum power of 48 Kw.

As a special manufacturing option, this range of storage tanks can include a second ND400 side manhole to obtain up to 400 Kw with immersion heating elements and 96 Kw electric power with ceramic heating elements.





INDUSTRIAL CAPACITY STORAGE TANKS 7000 to 12000 litres

- Industrial applications
- Food industry
- Textile industry
- Large storage volume facilities
- Centralized DHW facilities
- Energy management centres
- Specific projects

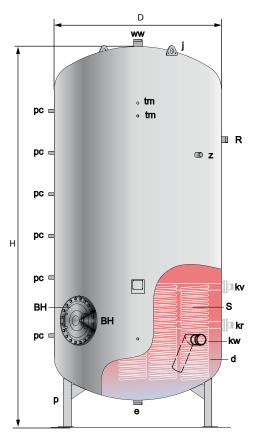




INDUSTRIAL CAPACITY DHW STORAGE TANKS

DHW TANKS: STAINLESS STEEL

- Capacity: 7000 to 12000 litres.
- Material: AISI 304 L or AISI 316 L stainless steel.
- Working pressure: **8 bar** (optional: 10, 12 bar).
- Maximum working temperature: **90°C.**
- ND400 side manhole.
- Internal surface treatment: chemical pickling and passivation.
- Installation: vertical (horizontal as an option).
- OPTIONAL: lapesa detachable coils system for DHW production.
- OPTIONAL: "lapesa correx-up" permanent cathodic protection unit.
- OPTIONAL: immersion or ceramic electric heating elements.
- OPTIONAL: thermal insulation, flexible PVC external lining with 50 or 100 mm thick glass fibre, supplied separately.



BH - Manhole ND400

d - DHW tank

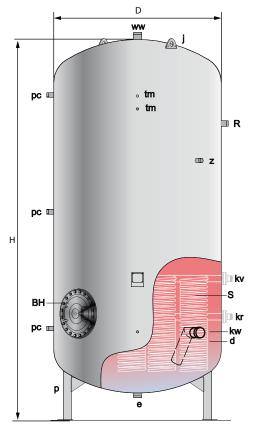
j - Lifting lugs

p - Support legs S - Heating coils (OPTIONAL)

GENERAL CHARACTERISTICS		MXV-7000-RB	MXV-8000-RB	MXV-10000-RB	MXV-12000-RB
DHW capacity	l.	7000	8000	10000	12000
D: external diameter H: overall height	mm. mm.	1750 3633	1750 4058	1750 4808	1750 5808
kw: cold water inlet / drain ww: DHW outlet z: recirculation R: side connection pc: "lapesa correx up" connection tm: probe tube connection for sensors Empty weight (approx.) Side manhole	" GAS/M " GAS/M " GAS/M " GAS/F " GAS/M " GAS/F Kg ND	3 3 1 1/2 2 3/4 1/2 677 ND400	3 3 1 1/2 2 3/4 1/2 757 ND400	3 3 1 1/2 2 3/4 1/2 887 ND400	3 3 1 1/2 2 3/4 1/2 1059 ND400
COILS OPTION (heat exchange surface 10 M ²)		MXV-7000-SB	MXV-8000-SB	MXV-10000-SB	MXV-12000-SB
kv: primary input kr: primary return	" GAS/M " GAS/M	2 2	2 2	2 2	2 2
Empty weight (approx.)	Kg	760	860	990	1162

DHW TANKS: COATED STEEL

- Capacity: 7000 to 12000 litres.
- Material: S275JR carbon steel.
- Interior treatment: SA 2 ½ interior shotblasting with 400 micra food grade epoxy coating.
- Working pressure: 8 bar (optional: 10, 12 bar).
- Maximum working temperature: **75°C**.
- ND400 side manhole.
- External treatment: rust prevention primer.
- Installation: vertical (horizontal as an option).
- OPTIONAL: Lapesa detachable coils system for DHW production.
- OPTIONAL: "lapesa correx-up" permanent cathodic protection.
- OPTIONAL: immersion or ceramic electric heating elements.
- OPTIONAL: thermal insulation, flexible PVC external lining with 50 or 100 mm thick glass fibre, supplied separately.



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BH - Manhole ND400

d - DHW tank

j - Lifting lugs

p - Support legs

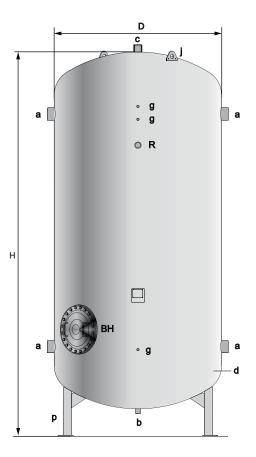
S - Heating coils (OPTIONAL)

GENERAL CHARACTERISTICS		MV-7000-RB	MV-8000-RB	MV-10000-RB	MV-12000-RB
DHW capacity	l.	7000	8000	10000	12000
D: external diameter H: overall height	mm. mm.	1750 3633	1750 4058	1750 4808	1750 5808
kw: cold water inlet / drain ww: DHW outlet z: recirculation e: drain R: side connection pc: "lapesa correx up" connection tm: probe tube connection for sensors Empty weight (approx.) Side manhole	" GAS/M " GAS/M " GAS/M " GAS/M " GAS/F " GAS/M " GAS/F Kg ND	3 3 2 2 2 1 1/2 3/4 1010 ND400	3 2 2 2 1 1/2 3/4 1057 ND400	3 2 2 2 1 1/2 3/4 1205 ND400	3 2 2 2 1 1/2 3/4 1437 ND400
COILS OPTION (heat exchange surface 10 M ²)		MV-7000-SB	MV-8000-SB	MV-10000-SB	MV-12000-SB
kv: primary input kr: primary return	" GAS/M " GAS/M	2 2	2 2	2 2	2 2
Empty weight (approx.)	Kg	1113	1160	1308	1540

INDUSTRIAL CAPACITY INERTIA BUFFER TANKS

TANKS: INERTIA

- Capacity: 7000 to 12000 litres. •
- Material: S275JR carbon steel. •
- Working pressure: 6 bar.
- Maximum working temperature: **110°C.**
- ND400 side manhole.
- Internal treatment: free of particles.
- External treatment: rust prevention primer. ٠
- ٠ Installation: vertical (horizontal as an option).
- OPTIONAL: electric heating elements. ٠
- OPTIONAL: thermal insulation, flexible PVC external lining with 50 or 100 mm thick glass fibre, supplied separately. •



BH - Manhole ND400 d - DHW tank

j - Lifting lugs p - Support legs

GENERAL CHARACTER	RISTICS	MV-7000-IB	MV-8000-IB	MV-10000-IB	MV-12000-IB
Capacity	l.	7000	8000	10000	12000
D: external diameter H: overall height	mm. mm.	1750 3652	1750 4090	1750 5013	1750 5835
a: side connection b: lower connection c: upper connectionr R: side connection g: conexión sensores Side manhole	" GAS/F " GAS/F " GAS/F " GAS/F " GAS/F ND	4 1 1/4 2 2 3/4 ND400	4 1 1/4 2 2 3/4 ND400	4 1 1/4 2 2 3/4 ND400	4 1 1/4 2 2 3/4 ND400
Empty weight (approx.)	Kg	1005	1044	1243	1420

INDUSTRIAL CAPACITY STORAGE TANKS

1060

E

C

D

5

905







HYDROMASTER from 40 to 1000 kW Equipment for semi-instantaneous production of DHW

DHW PRODUCTION CAPACITY:

Wide range of equipment for semiinstantaneous production of DHW, power ratings from **40 to 1000 kW**.

COMFORT:

Immediate availability of DHW, in combination with storage tanks **"RB".**

LONG USEFUL LIFE:

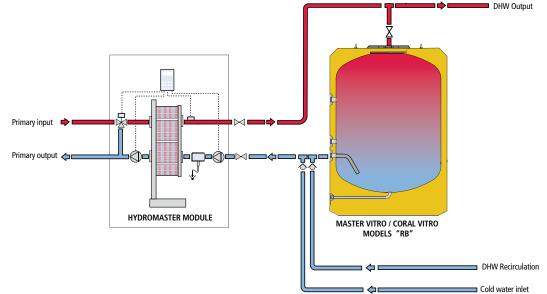
High performance plate heat exchanger in **stainless steel AISI-316.**

ANTI-LEGIONELLA FUNCTION:

Integrated programming for the periodical anti-legionella treatment via thermal shock.

REDUCED SPACE:

Ideal for installations in reduced space, with high requirements for DHW production.



EXAMPLE OF HYDRAULIC SCHEME

EQUIPMENTS FOR SEMI-INSTANTANEOUS PRODUCTION OF DHW

lapesa

HYDROMASTER

COMPONENTS:

- 1- Plate heat exchanger AISI-316L with heat insulation
- 2- Circulation pump for primary circuit high performance type (class A) with variable speed
- **3- Circulation pump for secondary circuit** high performance type (class A) with variable speed
- 4- Three way valve with servomotor in primary circuit
- 5- Multifunction screen for programming and data display. Electric box IP55, 240V 50Hz monophasic
- 6- Frame made of steel with RAL 5010 blue finishing
- 7- Safety valve 7 bar with thermometer in secondary circuit
- 8- Probe DHW
- 9- Purge
- 10- Drain

FEATURES:

- Anti-legionella programming via thermal shock
- ECO mode for automatic stop of primary circuit pumps
- BOOST mode for prompt power increase in DS model

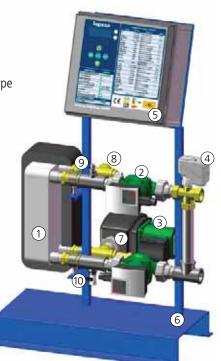
OPTIONAL:

- Models ECO including heat exchanger with detachable plates
- Expanded control unit with MODBUS, LON and BACNET connections
- Power rating up to 1000kW available
- Other primary temperatures, please consult

HYDROMASTER MODELS SS - DS - DD

Primary 80/45°C Secondary 55/10°C	Power (kW)	Plate heat exchanger	Length (mm)	Width (mm)	Height (mm)
HMSI40SS80 ECO	40	Compact	588	490	985
HMSI70SS80 ECO	70	Compact	588	490	985
HMSI110SS80 ECO	110	Compact	588	490	985
HMSI170SS80 ECO	170	Compact	588	490	985
HMSI240SS80	240	Detachable	700	525	1030
HMSI310SS80	310	Detachable	700	525	1030
HMSI400SS80	400	Detachable	700	525	1030
HMSI470SS80	470	Detachable	700	525	1030

SS model: Single pump on primary side, single pump on secondary side. Semi-instantaneous DHW production DS model: Double pump on primary side, single pump on secondary side. Semi-instantaneous DHW production DD model: Double pump on primary side, double pump on secondary side. Semi-instantaneous DHW production Instantaneous DHW production: please consult



All offers and agreements shall be based exclusively on the following conditions; any other conditions by customers shall not be binding unless expressly agreed in writing.

GENERAL

GENERAL Agreements shall only be binding if confirmed in writing by Lapesa. The customer shall be responsible for the accuracy of the documentation that he provides, especially that of samples and drawings. Data, drawings, representations and descriptions of performances that appear in our catalogues, price lists or documentation pertaining to the offer, give approximate values usual within the sector unless it is specifically indicated in the order confirmation that they are binding. Conditions specified by buyers in orders that are not in accordance with our general sales conditions or, if relevant with the special conditions for each pro-duct shall be deemed invalid unless they have been agreed to by us and express mention is made of them in the written order acceptance. Orders that have been accepted may not be cancelled by customers if said orders are special productions and the materials required to produce them have been acquired; nor may they be cancelled after 5 working days from our acceptance of the order or if the materials have been dispatched.

DELIVERY TIMES AND DELIVERY TERMS

Delivery times are considered to be approximate unless a firm date of delivery has been indicated. The delivery time shall be counted from the date on which the order confirmation is sent or the date on which the deposit payment, if required, is received and shall be considered to have been fulfilled when the merchandise leaves our factory or warehouse on the date agreed or when its availability for dispatch to the customer has been notified. In the event that the contract were to be subsequently modified by the customer in such a way that this were to affect the delivery

date, it may be prolonged in a reasonably correlative way. In the case of supplies for which prior notification must be given, these must be collected or their delivery authorised within a period of 15 days from our notification to the customer indicating that the material is available, otherwise the material will be incorporated into Lapesa's stocks and may be used as required by Lapesa. Lapesa shall inform customers of the conditions and the period in which the merchandise

NAY.

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and may be used as required by Lapesa. Lapesa shall inform customers of the conditions and the period in can be supplied. Delays in delivery due to force majeure or deriving from extraordinary or unforeseen causes that cannot be avoided by Lapesa will not give rise to any type of penalty nor the cancella-tion by the customer of the order that has involuntarily been delayed. The buyer may not reject partial supplies. Delivery is carried out ex Lapesa works or ex Lapesa warehouse pro-vided that no other agreement has been made and without any commitment regarding the most economical way of carrying out the delivery. Unloading operations are for the customer's ac-count unless otherwise agreed. In the event of supplies that are sent carriage forward the risks are transferred to the customer at the time that the mer-

risks are transferred to the customer at the time that the mer-chandise is handed over to the person responsible for transporting it.

PRICE

PRICE The prices that are shown in our price list are ex-works or ex-warehouse, plus the corresponding value added tax in force at the time, delivery and packaging costs, if a different type of packaging to that usually provided is required. The prices in the price tariffs may be modified by Lapesa at any time. Said modification shall affect all those orders pending delivery at the date of the modification. If the customer were not to accept the new price he shall be entitled to cancel the order within the 10 days following the notification of the price increase. Any discount that is agreed presupposes on-time fulfilment of all obligations to us, including those deriving from other contracts.

PAYMENT TERMS

PAYMENT TERMS All invoices shall be paid at sight, upon delivery of the merchandise, unless the buyer has been allowed credit, in which case they shall be paid in the periods expressly indica-

ted. If a buyer is allowed credit payment shall be carried out by accepted domiciled letter of ex-

A a buyer is allowed text payment shall be carried out by accepted domined letter of ex-change, except in the case of special agreements. If the date of payment is exceeded Lapesa shall add the corresponding interests to the unpaid amou-nt as well as the com arising from non-payment or the bill return. The first sales operations with a customer will always be a sight terms. If after signing a contract, Lapesa were to come to know facts that imply a substantial worsening in the financial conditions of the customer and which could endanger its right to good consideration, Lapesa may suspend deli-very of the conder unlest the customer pays first. very of the goods unless the customer pays first.

GUARANTEE

Our products are guaranteed against all manufacturing defects for the period, and according to the conditions, expressly indicated for each product in its corresponding catalogue or guarantee, provided that they are used and installed in normal conditions, in accordance with the regulations in force or the specific installation

Our guarantee only covers manufacturing defects, never operating or installation defects and thus replacement of material free of charge for the buyer will be carried out within the terms established in current legislation and the terms specified in the product guarantee.

OWNERSHIP

Lapesa reserves the right of ownership of the merchandise supplied up to the time that all of the obligations deriving from the commercial relationship have been fulfilled, including the obligations that may arise in the future from the same contract or from other contracts signed with the customer.

RETURNS

No returns are allowed without our prior consent.

If a return is authorised the merchandise shall be sent by the customer carriage paid to the factory or warehouse speci-

All costs of reception of materials, inspection and testing and repair if relevant shall be discounted from the amount to be paid into the customer's account, deducting an amount of no less than 10%.

CUSTOMER SERVICE

All claims and communications indicating the intention to return merchandise, other than those covered by the guarantee, must be notified to Lapesa's customer service department within 10 days from the data of delivery of the materials. Once Lapesa has decided on the admissibility or inadmissibility of such claims, it will proceed accordingly.

JURISDICTION

The place in which the contracting parties shall comply with their obligations will be Zaragoza. The competent jurisdiction for all types of discrepancies arising from the contract or concerning its validity provi-ded that this are licit shall be the local courts or tribunals of Zaragoza. The law in force at the site of our registered offices shall be applicable.

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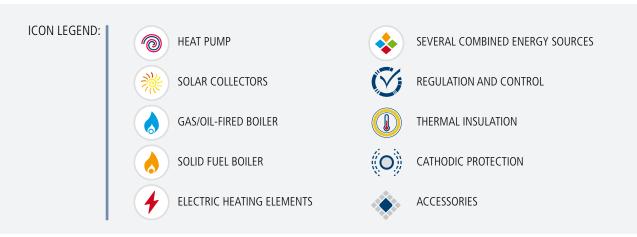
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WORLDWIDE PROJECTS

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