

THERMOHYDRAULICS

NEW

ACFE **for outdoor installation**

Thermal flywheel
for air conditioning / heating systems
with embossed aluminium sheet





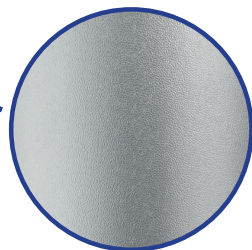
ACFE for outdoor intallation



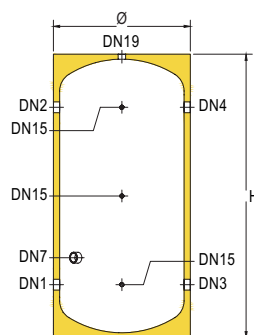
**Thermal flywheel for air conditioning / heating systems
with embossed aluminium sheet**
(94 - 747 litri)



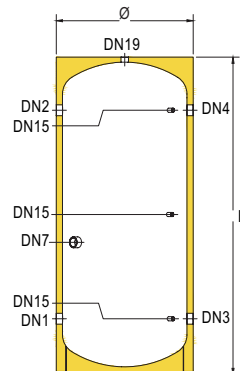
Embossed
aluminium sheet



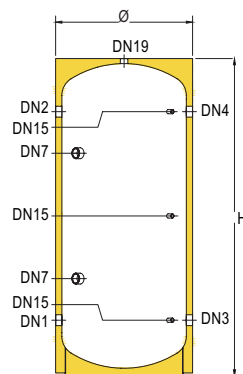
ACFE 100



ACFE 200 - 500



ACFE 800 - 1000



LEGEND

DN1: Output to source | **DN2:** Input from source | **DN3:** Input from system | **DN4:** Output to system | **DN7:** Predisposition for heating element |
DN15: Sensor | **DN19:** Auxiliary connection



2 YEARS WARRANTY



HOT WATER STORAGE TANK



FOR CHILLED WATER



NOT FOR DRINKING WATER



FOR AIR CONDITIONING
SYSTEMS



FOR HEATING SYSTEMS



SUITABLE FOR HEAT PUMP



-10°C / +95°C

P_{MAX} 10 BAR

REFERENCE REGULATIONS

- Directive 2014/68/UE – ART. 4.3, with exemption from CE marking.
- Regulation EN 12897:2020.
- Designed and built in accordance with the requirements of 2009/125/EC and Regulation 814/2013.
- Labelling in accordance with the requirements of 2017/1369/EU and Delegated Regulation 812/2013 (EU).

INSTALLATIONS

Use as thermal flywheel for indoor and outdoor installations of air conditioning and heating systems to optimize the thermal inertia and increase the volume of cooled/heated water.

INSULATION

Polyurethane foam free of CFC and HCFC.
Finish in embossed aluminium sheet

DIMENSIONAL DATA

MODEL	CODE	ENERGY LABEL	CAP. litri	Ø mm	H mm	PM mm	Notes
ACFE-100	A480L38 GL355	B	96	510	960	1090	
ACFE-200	A480L47 GL355	B	195	610	1185	1350	
ACFE-300	A480L51 GL375	B	282	650	1655	1800	
ACFE-500	A480L55 GL355	C	494	760	1720	1900	
ACFE-800	A480L60 GL375	C	747	940	1790	2050	
ACFE-1000	A480L62 GL375	C	868	940	2040	2270	

PM: pivot measurement

CONNECTION HEIGHTS (mm)

MODEL	DN1	DN2	DN3	DN4	DN7		DN15		
ACFE-100	235	715	235	715	-	315	475	715	235
ACFE-200	255	915	255	915	-	505	585	915	255
ACFE-300	260	1360	260	1360	-	585	810	1360	260
ACFE-500	320	1390	320	1390	-	730	855	1390	320
ACFE-800	340	1410	340	1410	1250	500	875	1410	340
ACFE-1000	340	1660	340	1660	1460	550	1000	1660	340

CONNECTION SIZES

MODEL	DN1	DN2	DN3	DN4	DN7	DN15	DN19
ACFE-100	G1½"	G1½"	G1½"	G1½"	G1½"	G½"	G1¼"
ACFE-200	G1½"	G1½"	G1½"	G1½"	G1½"	G½"	G1¼"
ACFE-300	G2"	G2"	G2"	G2"	G1½"	G½"	G1¼"
ACFE-500	G3"	G3"	G3"	G3"	G1½"	G½"	G1¼"
ACFE-800	G3"	G3"	G3"	G3"	G1½"	G½"	G1½"
ACFE-1000	G3"	G3"	G3"	G3"	G1½"	G½"	G1½"

CHARACTERISTICS OF INSULATION

MODEL	TYPE OF INSULATION	THICKNESS OF INSULATION mm	FINISHING
ACFE-100	Rigid polyurethane foam with 95% closed cells, CFC and HCFC free, fire resistance class B2 according to DIN 4102-1	55	Embossed aluminium sheet
ACFE-200		75	
ACFE-300		55	
ACFE-500		55	
ACFE-800		75	
ACFE-1000			

PROTECTION DEVICES

Accumulators shall be protected against the effects of overpressure by installing:

- **SAFETY VALVE** calibrated at a pressure lower than the maximum pressure of the tank
- **ELBI EXPANSION VESSEL** series **DP - DPV - ER - ERCE**

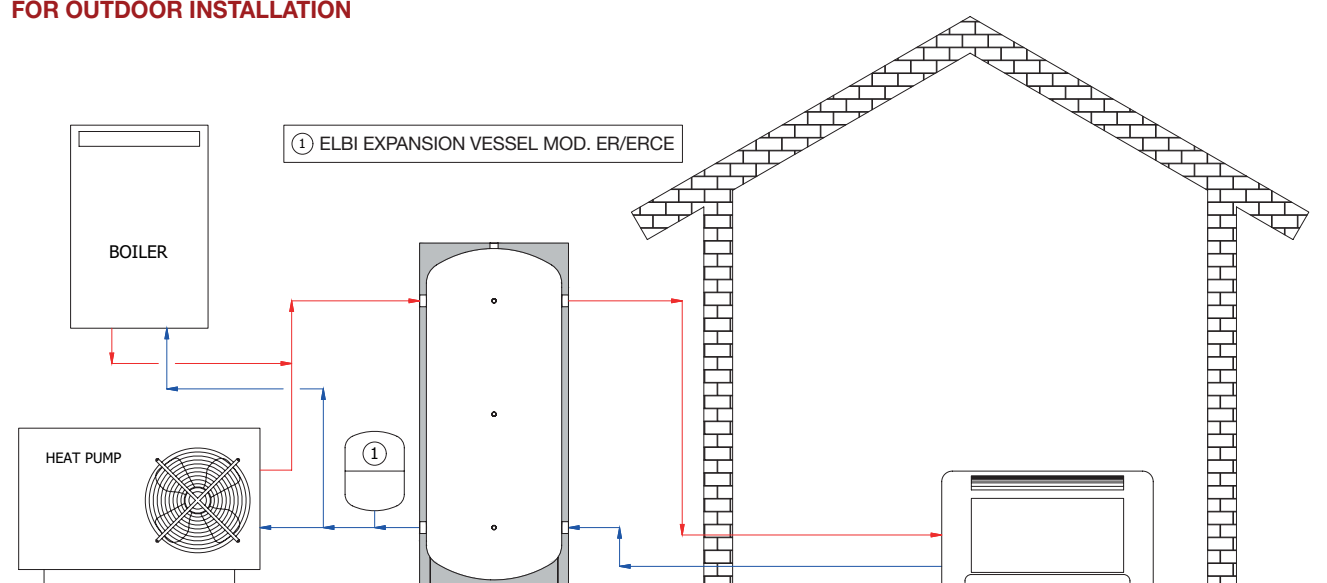
TABLE OF APPLICABILITY OF HEATING ELEMENTS

The minutes calculated refer to a Δ 30-60 °C of work resistance only (not taking into account integration of another generator).

CODE	POWER kw	POWER v	CONN.SIZE	LENGHT mm	APPLICABILITY					
					100	200	300	500	800	1000
HEATING ELEMENTS WITHOUT THERMOSTAT										
8601000	1	230	G1.1/4"	295	201 min.	✓	✓	✓	✓	✓
8601650	1.65	230	G1.1/4"	450	✗	248 min.	358 min.	✓	✓	✓
8602000	2	230	G1.1/4"	515	✗	✗	✗	✓	✓	✓
8602600	2.6	230	G1.1/4"	675	✗	✗	✗	✗	✓	✓
8602601	2.6	230	G1.1/4"	360	77 min.	157 min.	227 min.	✓	✓	✓
8603300	3.3	230	G1.1/4"	825	✗	✗	✗	✗	✗	✗
8603301	3.3	230	G1.1/4"	435	✗	124 min.	179 min.	314 min.	✓	✓
8604001	4	230	G1.1/4"	510	✗	✗	✗	259 min.	✓	✓
8705000	5	400	G1.1/2"	445	✗	82 min.	118 min.	207 min.	313 min.	✓
8706000	6	400	G1.1/2"	510	✗	✗	✗	173 min.	261 min.	303 min.
8708000	8	400	G1.1/2"	670	✗	✗	✗	✗	196 min.	228 min.
8710000	10	400	G1.1/2"	820	✗	✗	✗	✗	✗	✗
8712000	12	400	G1.1/2"	970	✗	✗	✗	✗	✗	✗
8717000	17	400	G2"	1200	✗	✗	✗	✗	✗	✗
HEATING ELEMENTS WITH THERMOSTAT										
8T01500	1.5	230	G1.1/2"	320	134 min.	273 min.	✓	✓	✓	✓
8T02000	2	230	G1.1/2"	320	101 min.	204 min.	296 min.	✓	✓	✓
8T02200	2.2	230	G1.1/2"	320	92 min.	186 min.	269 min.	✓	✓	✓
8T02500	2.5	230	G1.1/2"	320	81 min.	164 min.	237 min.	✓	✓	✓
8T03000	3	230	G1.1/2"	320	67 min.	136 min.	197 min.	345 min.	✓	✓
8T04000	4	400	G1.1/2"	400	✗	102 min.	148 min.	259 min.	✓	✓
8T05000	5	400	G1.1/2"	500	✗	✗	✗	207 min.	313 min.	✓
8T06000	6	400	G1.1/2"	600	✗	✗	✗	173 min.	261 min.	303 min.
8T09000	9	400	G1.1/2"	700	✗	✗	✗	✗	174 min.	202 min.
8T12000	12	400	G1.1/2"	850	✗	✗	✗	✗	✗	✗

The heating elements with thermostat are applicable only to vertical tanks or suspended tanks mounted in a vertical position.

EXAMPLE OF ACFE FOR OUTDOOR INSTALLATION



Illustrative diagram; for the construction of the system always refer to qualified technician

ACFE THERMAL FLYWHEEL FOR OUTDOOR INSTALLATION

The **ACFE for outdoor** installation is an inertial tank suitable for installation outdoors, even in heavy rain, and allows the installer and/ or end user not to have to sacrifice internal space for the installation of the tank, without compromising the efficiency of the system.

The **ACFE for outdoor** installation is designed to act as a thermal buffer, by collecting energy from heat sources (such as a biomass boiler, heat pump or solar heating system) and gradually releasing it, according to the needs of the heating system, reducing the cycles on/off of the generator, and balancing the differences between production and thermal demand.



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