

DEHUMIDIFICATION AND VENTILATION FOR SWIMMING POOLS, INDUSTRIES, LIGHT COMMERCIAL AND CELLARS



HiDew is proud to present a huge range of dehumidifiers for industrial processes, public and private pools, with a high efficiency heat recovery and air renewal system. Every HiDew dehumidifier and recovery system has been designed to respond to an increasingly demanding market in terms of technology, reliability, design, compactness, efficiency, sound level, simplicity and installation ease.

QUALITY FOR YOUR WELLBEING



HiDew

Dehumidifiers

Wall mounted dehumidifiers



DDS

P. 4

Wall mounted dehumidifiers for technical room



DCS

P. 6

Vertical floor-standing dehumidifiers



DVS

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Horizontal dehumidifiers for ducted installation



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Stand-alone unit with humidity and temperature control



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DDS

WALL MOUNTED DEHUMIDIFIERS



DDS series dehumidifiers with advanced control are completely autonomous and are conceived for wall-mounted or floor installation in small private swimming pools.

The pleasant design is also suitable for environments such as museums, libraries, archives, cellars and basements.

DDS models are thought to be installed in the room to be dehumidified.

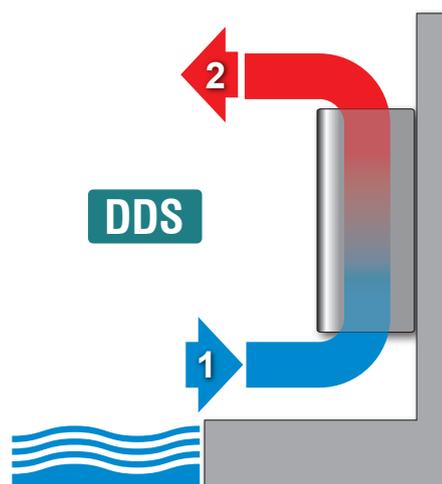
The sober but elegant look eases the installation in public and private ambiances, generally characterized by a sophisticated design. The series consists of 10 models, ranging from 46 up to 226 l/day.

With advanced control and temperature and humidity probes installed on board, DDS dehumidifiers independently manage the appropriate mode of operation, making installation particularly easy.

Modbus RS485 serial board included.

| Datasheet | | DDS | | | | | | | | | | |
|-----------------------------|---------|-----------------|-------|-------|------------------|-------|-------|------------------|-------|------------------|-------|-------|
| | | 040 | 050 | 060 | 070 | 090 | 100 | 160 | 190 | 210 | 230 | 300 |
| Dehumidifying capacity | L/Day | 46 | 52 | 62 | 68 | 89 | 98 | 165 | 186 | 211 | 226 | 290 |
| Refrigerant | Type | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| Air flow | m³/h | 350 | 450 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1500 | 1500 | 2000 |
| Available static pressure | Pa | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| Hot water coil capacity | kW | 3,7 | 4,5 | 4,8 | 6,1 | 6,8 | 7,5 | 10,1 | 11,5 | 14,5 | 14,5 | 17 |
| Electrical heaters capacity | kW | 1 | 1 | 1,5 | 2 | 3,2 | 3,2 | 4 | 4 | 7,2 | 7,2 | 7,2 |
| Power supply | V/ph/Hz | 230 / 1+N / 50 | | | | | | 400 / 3+N / 50 | | | | |
| Sound level | dB(A) | 43 | 45 | 46 | 47 | 48 | 49 | 51 | 53 | 54 | 55 | 57 |
| Dimensions W x D x H | mm | 850 x 280 x 780 | | | 1050 x 280 x 780 | | | 1350 x 330 x 850 | | 1550 x 330 x 850 | | |
| Weight | kg | 46 | 46 | 46 | 55 | 55 | 55 | 88 | 88 | 100 | 100 | 102 |

All the values refer to the following conditions: inlet air: 30°C - 80% RH; inlet/outlet water: 80/70°C



Options:

- Hot water coil with 3 ways valve
- Neutral air dehumidification mode
- Coils with epoxy coating
- Electrical heaters
- Modulating EC fans
- Hot gas defrost
- Silent version
- Kit for display at distance
- Feet kit for floor installation
- Stainless steel carpentry



DCS

WALL MOUNTED DEHUMIDIFIERS FOR TECHNICAL ROOM



HEATING



R-410A

OZONE FRIENDLY



DEHUMIDIFICATION



RS485

PROTOCOL

CONNECTION LINK



LOW NOISE



SCROLL COMP.



VARIABLE SPEED

DCS series dehumidifiers are completely autonomous and are conceived for wall-mounted installation in small private swimming pools.

DCS models are thought for the installation in a technical room adjacent to the ambience to dehumidify: in this case, the installation requires involves the addition of an air supply and return grille, with associated plenums.

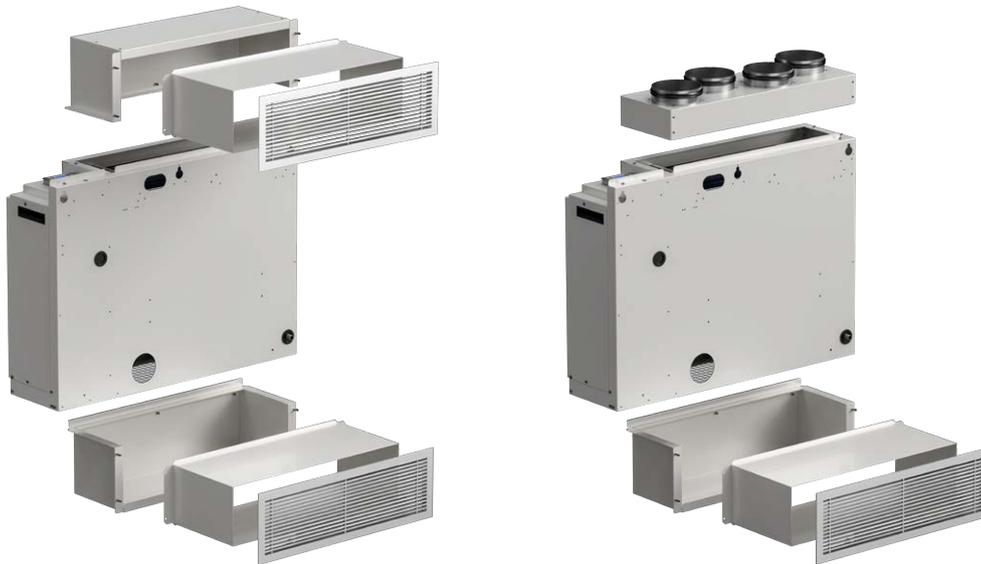
The series consists of 10 models, ranging from 46 up to 226 l/day.

With advanced control and temperature and humidity probes installed on board, DDS dehumidifiers independently manage the appropriate mode of operation, making installation particularly easy.

Modbus RS485 serial board included.

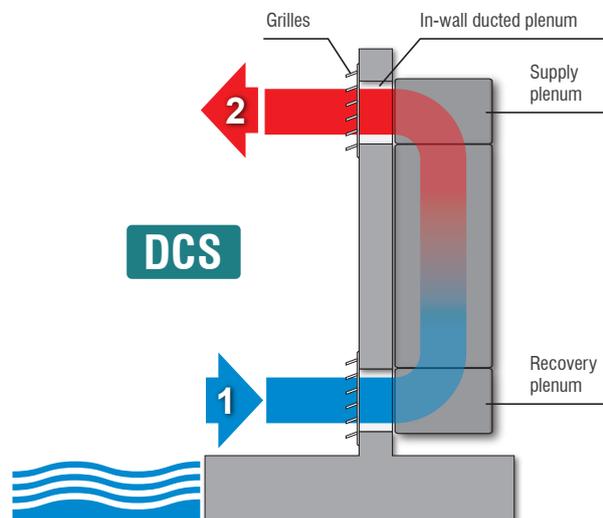
| Datasheet | | DCS | | | | | | | | | | |
|-----------------------------|---------|-----------------|-------|-------|------------------|-------|-------|------------------|-------|------------------|-------|-------|
| | | 040 | 050 | 060 | 070 | 090 | 100 | 160 | 190 | 210 | 230 | 300 |
| Dehumidifying capacity | L/Day | 46 | 52 | 62 | 68 | 89 | 98 | 165 | 186 | 211 | 226 | 290 |
| Refrigerant | Type | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| Air flow | m³/h | 350 | 450 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1500 | 1500 | 2000 |
| Available static pressure | Pa | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| Hot water coil capacity | kW | 3,7 | 4,5 | 4,8 | 6,1 | 6,8 | 7,5 | 10,1 | 11,5 | 14,5 | 14,5 | 17 |
| Electrical heaters capacity | kW | 1 | 1 | 1,5 | 2 | 3,2 | 3,2 | 4 | 4 | 7,2 | 7,2 | 7,2 |
| Power supply | V/ph/Hz | 230 / 1+N / 50 | | | | | | 400 / 3+N / 50 | | | | |
| Sound level | dB(A) | 43 | 45 | 46 | 47 | 48 | 49 | 51 | 53 | 54 | 55 | 57 |
| Dimensions W x D x H | mm | 803 x 257 x 764 | | | 1003 x 256 x 745 | | | 1302 x 306 x 834 | | 1503 x 306 x 834 | | |
| Weight | kg | 46 | 46 | 46 | 55 | 55 | 55 | 88 | 88 | 100 | 100 | 102 |

All the values refer to the following conditions: inlet air: 30°C - 80% RH; inlet/outlet water: 80/70°C



Options:

- Hot water coil with 3 ways valve
- Neutral air dehumidification mode
- Coils with epoxy coating
- Electrical heaters
- Modulating EC fans
- Hot gas defrost
- Silent version
- Kit for display at distance
- In-wall ducted plenum
- Supply and recovery air plenum
- Supply and recovery air grilles
- Stainless steel carpentry



DVS

VERTICAL FLOOR-STANDING DEHUMIDIFIERS



DVS series dehumidifiers are completely autonomous and are conceived for a vertical installation in private swimming pools.

The pleasant design is perfectly suitable also to other locations, such as museums, libraries, archives and cellars.

DVS models are thought for an installation directly in the room that needs to be dehumidified and the sober, but elegant, look eases the installation in public and private venues, generally characterized by a sophisticated design.

The series consists of 8 models, ranging from 52 up to 230 l/day.

With advanced control and temperature and humidity probes installed on board, DVS dehumidifiers independently manage the appropriate mode of operation, making installation particularly easy.

Modbus RS485 serial board included.

| Datasheet | | DVS | | | | | | | |
|-----------------------------|---------|------------------|-------|-------|-------|------------------|-------|----------------|-------|
| | | 050 | 070 | 090 | 100 | 160 | 190 | 210 | 230 |
| Dehumidifying capacity | L/Day | 52 | 67 | 92 | 99 | 161 | 182 | 213 | 225 |
| Refrigerant | Type | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| Air flow | m³/h | 450 | 600 | 700 | 800 | 1000 | 1200 | 1400 | 1400 |
| Available static pressure | Pa | 250 | 200 | 175 | 150 | 100 | 90 | 40 | 40 |
| Hot water coil capacity | kW | 5,2 | 6,1 | 6,8 | 7,5 | 10,4 | 11,9 | 13,3 | 13,3 |
| Electrical heaters capacity | kW | 1,5 | 2 | 3 | 3 | 4 | 4 | 4 | 4 |
| Power supply | V/ph/Hz | 230 / 1+N / 50 | | | | | | 400 / 3+N / 50 | |
| Sound level | dB(A) | 45 | 46 | 47 | 48 | 50 | 52 | 53 | 54 |
| Dimensions W x D x H | mm | 550 x 330 x 1700 | | | | 750 x 330 x 1700 | | | |
| Weight | kg | 80 | 80 | 80 | 80 | 140 | 140 | 160 | 160 |

All the values refer to the following conditions: inlet air: 30°C - 80% RH; inlet/outlet water: 80/70°C

Options:

- Hot water coil with 3 ways valve
- Coils with epoxy coating
- Electrical heaters
- Hot gas defrost
- Silent version
- Cable for display at distance
- Display mounted on board
- Kit rectangular flange, top supply
- Kit rectangular flange, back supply



DOS

HORIZONTAL DEHUMIDIFIERS FOR DUCTED INSTALLATION



The **DOS** series dehumidifiers are completely autonomous, and are designed for use in private swimming pools where a ducted machine for under ceiling installation is required.

DOS dehumidifiers are perfect for all wet environments such as museums, libraries, archives, cellars.

The series consists of 8 models, from 52 up to 225 L/day.

With advanced control and temperature and humidity probes installed on board, DOS dehumidifiers independently manage the appropriate mode of operation, making installation particularly easy.

Modbus RS485 serial board included.

| Datasheet | | DOS | | | | | | | |
|-----------------------------|---------|------------------|-------|-------|-------|-------------------|-------|----------------|-------|
| | | 050 | 070 | 090 | 100 | 160 | 190 | 210 | 230 |
| Dehumidifying capacity | L/Day | 52 | 67 | 92 | 99 | 161 | 182 | 213 | 225 |
| Refrigerant | Type | R410A | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| Air flow | m³/h | 450 | 600 | 700 | 800 | 1000 | 1200 | 1500 | 1500 |
| Available static pressure | Pa | 250 | 200 | 175 | 150 | 230 | 200 | 150 | 150 |
| Hot water coil capacity | kW | 5,2 | 6,1 | 6,8 | 7,5 | 10,4 | 11,9 | 13,3 | 13,3 |
| Electrical heaters capacity | kW | 1,5 | 2 | 3 | 3 | 4 | 4 | 4 | 4 |
| Power supply | V/ph/Hz | 230 / 1+N / 50 | | | | | | 400 / 3+N / 50 | |
| Sound level | dB(A) | 45 | 46 | 47 | 48 | 50 | 52 | 53 | 54 |
| Dimensions W x D x H | mm | 1105 x 800 x 410 | | | | 1105 x 1050 x 510 | | | |
| Weight | kg | 84 | 84 | 84 | 84 | 147 | 147 | 168 | 168 |

All the values refer to the following conditions: inlet air: 30°C - 80% RH; inlet/outlet water: 80/70°C

Options:

- High efficiency air filter, Class G4
- Hot water coil with 3 ways valve
- Coils with epoxy coating
- Electrical heaters
- Hot gas defrost
- Silent version
- Cable for display at distance
- Kit supply flange for circular ducts
- Kit extraction flange for circular ducts
- Stainless steel carpentry

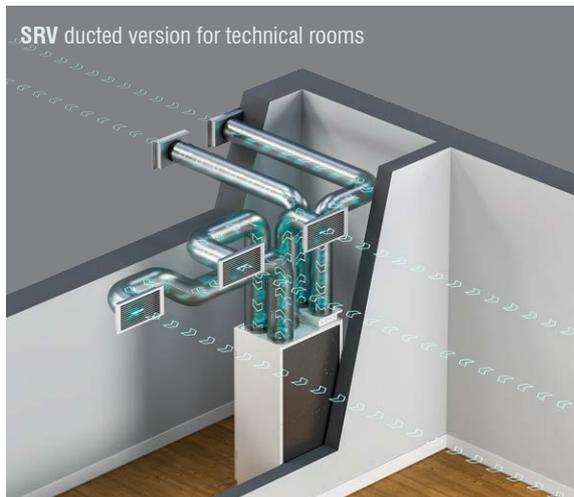
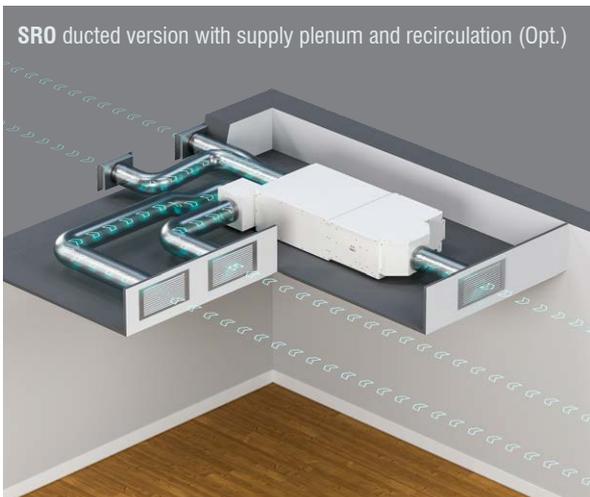


SRO **SRV**

**COMPACT DEHUMIDIFIERS
WITH HEAT RECOVERY**



The **SRO** range of dehumidifiers with integrated heat recovery are totally autonomous and are designed for use in small swimming pools, spas, and high latent load civil, residential and commercial environments where 24 h/day operation is required. SRO models are designed for suspended ceiling installation in the room to be treated or inside a technical compartment. **SRV** models, on the other hand, are designed exclusively for basement installation within a technical compartment. In any case, the installation involve ducting to prevent mixing of air flows. Being equipped with a cross-flow heat recovery unit, the units are able to provide not only dehumidification but also fresh air supply from outside (up to 50 percent of the nominal flow rate). The available advanced control can read the temperature and humidity values in the room and activate the most appropriate mode: dehumidification, dehumidification + cooling, dehumidification + heating, heating/cooling.



| Datasheet | | SRO 050 | SRV 050 |
|---|---------|------------------|--------------|
| Dehumidifying capacity | L/Day | 50 | 50 |
| Refrigerant | type | RA410 | RA410 |
| Nominal air flow | m³/h | 500 | 500 |
| Fresh air flow | m³/h | 0 - 250 | 0 - 250 |
| Available static pressure | Pa | 200 | 200 |
| Heat recovery system efficiency | % | 70 | 70 |
| Cold water coil capacity | W | 2 | 2 |
| Hot water coil capacity | kW | 4,5 | 4,5 |
| Electrical heater capacity | kW | 3 | 3 |
| Power supply | V/ph/Hz | 230 / 1+N / 50 | |
| Sound level (2 m from the source, free field) | dB(A) | 44 | 44 |
| Dimensions W x D x H | mm | 1545 x 810 x 375 | 700x515x1510 |
| Weight | kg | 83 | 93 |

All values refer to the following conditions: dehumidification capacity calculated at: 30°C/80% RH;
chilled water coil water +7°C, ambient 26°C/65% RH;
hot water coil water +70/80°C, ambient 30°C

Included:

- Motorized dampers for outdoor air control
- 2 m shielded display connection cable
- On-board temperature and humidity probe
- Automatic heat recovery defrosting
- Modbus RS485

Options:

- On-board mounted display (SRV)
- Free cooling-heating
- High efficiency filters
- 5, 10 or 20 m shielded cable
- Silenced version
- Hot/cold water coil with 3 ways valve
- Electrical heaters
- Hot gas defrost
- Epoxy-treated coils
- Supply and recirculation plenum 1 x Ø 200 (SRO)
- Additional temperature and humidity probe on outside air side



ID SP

**DEHUMIDIFIERS FOR
INDUSTRY AND SWIMMING POOLS**



- HEATING
- R-410A
OZONE FRIENDLY
- SCROLL COMP.
- ENERGY SAVING
- VARIABLE SPEED
- DEHUMIDIFICATION
- AIR FILTERS
- RS485
PROTOCOL
CONNECTION LINK

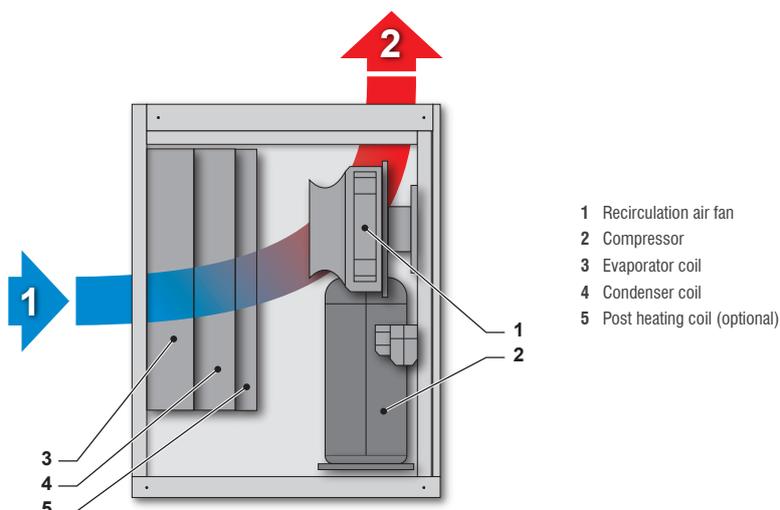
The **ID** and **SP** all-recirculating range dehumidifiers are designed for use in high latent load environments requiring 24hrs/day operation.

They are typically installed in environments such as public and private swimming pools, dairies, basements, ironing shops, curing cellars, warehouses and wherever a lack of humidity control can damage the structure or the product.

| Datasheet | | ID SP | | | | | | | | | |
|-------------------------|---------|-----------------|------|------|------|-----------------|----------------|------|------------------|------|------|
| | | 0100 | 0130 | 0160 | 0190 | 0210 | 0260 | 0300 | 0350 | 0450 | 0580 |
| Dehumidifying capacity | L/Day | 100 | 128 | 157 | 190 | 210 | 268 | 302 | 358 | 452 | 581 |
| Air flow | m³/h | 900 | 1200 | 1600 | 1600 | 2000 | 2800 | 2800 | 3800 | 4000 | 4800 |
| Hot water coil capacity | kW | 5,5 | 9,8 | 9,8 | 9,8 | 16,5 | 17 | 17 | 26,5 | 26,5 | 27 |
| Power supply | V/ph/Hz | 230 / 1+N / 50 | | | | | 400 / 3+N / 50 | | | | |
| Dimensions W x D x H | mm | 550 x 700 x 900 | | | | 850 x 700 x 900 | | | 850 x 830 x 1350 | | |
| Weight | kg | 100 | 100 | 105 | 110 | 120 | 130 | 140 | 220 | 230 | 240 |

| Datasheet | | ID SP | | | | | | | | | |
|-------------------------|---------|--------------------|------|--------------------|-------|--------------------|-------|-------|--------------------|-------|--------------------|
| | | 0750 | 0950 | 1100 | 1400 | 1500 | 1700 | 1900 | 2200 | 3000 | 4500 |
| Dehumidifying capacity | L/Day | 760 | 955 | 1120 | 1380 | 1480 | 1710 | 1870 | 2180 | 2960 | 4650 |
| Air flow | m³/h | 7000 | 8200 | 11000 | 12500 | 13000 | 15000 | 15000 | 17000 | 25000 | 35000 |
| Hot water coil capacity | kW | 48 | 55 | 76 | 83 | 98 | 107 | 107 | 118 | 168 | 235 |
| Power supply | V/ph/Hz | 400 / 3+N / 50 | | | | | | | | | |
| Dimensions W x D x H | mm | 1400 x 1000 x 1350 | | 1950 x 1000 x 1640 | | 2500 x 1000 x 1640 | | | 3390 x 1000 x 1640 | | 4430 x 1000 x 1640 |
| Weight | kg | 410 | 430 | 650 | 720 | 780 | 840 | 900 | 950 | 1250 | 1550 |

All the values refer to the following conditions: inlet air: 30°C - 80% RH; inlet/outlet water: 80/70°C



- 1 Recirculation air fan
- 2 Compressor
- 3 Evaporator coil
- 4 Condenser coil
- 5 Post heating coil (optional)

| Options: | STANDARD CONTROL (*) | ADVANCED CONTROL |
|--|----------------------|------------------|
| Filter holder frame for suction ducting | X | X |
| Mechanical hygrostat | X | -- |
| Electronic chrono – hygrostat | X | -- |
| Hot water coil with 3 ways valve standard or oversized | X | X |
| Chilled water coil with 3 ways valve standard or oversized | X | X |
| Electrical heaters | X | X |
| Silent version -2 dB(A) | X | X |
| Soft-start | X | X |
| Manometers | X | X |
| Hot gas defrost | X | X |
| De-superheater for swimming pool water | X | X |
| Centrifugal fan with high prevalence | X | X |
| Electronic radial fans | (**) | X |
| Contact for 0-10 V electrical heaters control | -- | X |
| Contact for 0-10 V humidifier control | -- | X |
| ACF - Automatic Control Flow | -- | X |
| Clock card – time scheduling | -- | INCLUDED |
| Dirty filters sensor | -- | X |
| Remote user terminal including 20 m cable | -- | X |
| TH probe for duct installation | -- | X |
| Serial board Modbus, Bacnet, Konnex | -- | X |
| Ethernet™ interface card™ (***) | -- | X |
| Version for outdoor installation | X | X |
| Panels thermal insulation, thickness 20 mm | X | X |
| Panels thermal insulation, thickness 40 mm | X | X |
| Pivoting wheels | X | X |
| Mirror version (access on the left) | -- | -- |

X Available.

-- Not available.

(*) Available for models up to 0950.

(**) Adjustment with potentiometer.

(***) Protocols available: SNMP v1 & v2c, BACnet / IP, BACnet Ethernet e Modbus TCP / IP



IT ST

DEHUMIDIFIERS FOR INDUSTRY AND SWIMMING POOLS WITH TEMPERATURE CONTROL



The **IT** and **ST** all-recirculating range dehumidifiers are conceived for the use in high latent load environments requiring 24hrs/day operation.

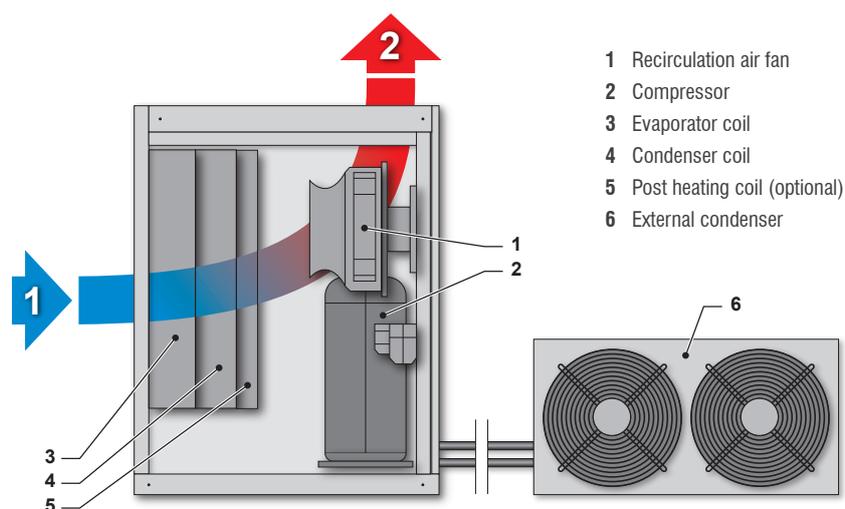
Thanks to the temperature control function, with an external condenser, these units grant a full control, not only of the humidity, but also of the ambient temperature.

Therefore, these units are suitable for those applications in which the contemporary control of both parameters is required, such as swimming pools, food storage, salami and cheese seasoning processes and wherever the non-control of temperature and humidity can damage the goods.

| Datasheet | | IT ST | | | | | | | | | |
|-------------------------|---------|-----------------|------|------|------|-----------------|----------------|------|------------------|------|------|
| | | 0100 | 0130 | 0160 | 0190 | 0210 | 0260 | 0300 | 0350 | 0450 | 0580 |
| Dehumidifying capacity | L/Day | 100 | 128 | 157 | 190 | 210 | 268 | 302 | 358 | 452 | 581 |
| Air flow | m³/h | 900 | 1200 | 1600 | 1600 | 2000 | 2800 | 2800 | 3800 | 4000 | 4800 |
| Cooling power | kW | 4,9 | 6,5 | 8 | 10 | 11 | 15 | 16 | 19 | 23 | 30 |
| Hot water coil capacity | kW | 5,5 | 9,8 | 9,8 | 9,8 | 16,5 | 17 | 17 | 26,5 | 26,5 | 27 |
| Power supply | V/ph/Hz | 230 / 1+N / 50 | | | | | 400 / 3+N / 50 | | | | |
| Dimensions W x D x H | mm | 550 x 700 x 900 | | | | 850 x 700 x 900 | | | 850 x 830 x 1350 | | |
| Weight | kg | 100 | 100 | 105 | 110 | 120 | 130 | 140 | 220 | 230 | 240 |

| Datasheet | | IT ST | | | | | | | | | |
|-------------------------|---------|--------------------|------|--------------------|-------|--------------------|-------|-------|--------------------|-------|--------------------|
| | | 0750 | 0950 | 1100 | 1400 | 1500 | 1700 | 1900 | 2200 | 3000 | 4500 |
| Dehumidifying capacity | L/Day | 760 | 955 | 1120 | 1380 | 1480 | 1710 | 1870 | 2180 | 2960 | 4650 |
| Air flow | m³/h | 7000 | 8200 | 11000 | 12500 | 13000 | 15000 | 15000 | 17000 | 25000 | 35000 |
| Cooling power | kW | 38 | 50 | 56 | 66 | 75 | 86 | 96 | 110 | 148 | 277 |
| Hot water coil capacity | kW | 48 | 55 | 76 | 83 | 98 | 107 | 107 | 118 | 168 | 235 |
| Power supply | V/ph/Hz | 400 / 3+N / 50 | | | | | | | | | |
| Dimensions W x D x H | mm | 1400 x 1000 x 1350 | | 1950 x 1000 x 1640 | | 2500 x 1000 x 1640 | | | 3390 x 1000 x 1640 | | 4430 x 1000 x 1640 |
| Weight | kg | 410 | 430 | 650 | 720 | 780 | 840 | 900 | 950 | 1250 | 1550 |

All the values refer to the following conditions: inlet air: 30°C - 80% RH; inlet/outlet water: 80/70°C; outdoor air: 30°C - 50% RH.



| Options: | STANDARD CONTROL (*) | ADVANCED CONTROL |
|--|----------------------|------------------|
| Filter holder frame for suction ducting | X | X |
| Modulating gas valve to control supply temperature | -- | X |
| Mechanical hygrostat | X | -- |
| Electronic chrono – hygrostat | X | -- |
| Hot water coil with 3 ways valve standard or oversized | X | X |
| Electrical heaters | -- | X |
| Silent version -2 dB(A) | X | X |
| Soft-start | X | X |
| Manometers | X | X |
| Hot gas defrost | X | X |
| De-superheater for swimming pool water | X | X |
| Centrifugal fan with high prevalence | X | X |
| Electronic radial fans | (**) | X |
| Contact for 0-10 V humidifier control | -- | X |
| Contact for 0-10 V electrical heaters control | -- | X |
| ACF - Automatic Control Flow | -- | X |
| Clock card – time scheduling | -- | INCLUDED |
| Dirty filters sensor | -- | X |
| Remote user terminal including 20 m cable | -- | X |
| TH probe for duct installation | -- | X |
| Serial board Modbus, Bacnet, Konnex | -- | X |
| Ethernet™ interface card™ (***) | -- | X |
| Version for outdoor installation | X | X |
| Panels thermal insulation, thickness 20 mm | X | X |
| Panels thermal insulation, thickness 40 mm | X | X |
| Pivoting wheels | X | X |
| Mirror version (access on the left) | -- | -- |

X Available.

-- Not available.

(*) Available for models up to 0950.

(**) Adjustment with potentiometer.

(***) Protocols available: SNMP v1 & v2c, BACnet / IP, BACnet Ethernet e Modbus TCP / IP



SPR

DEHUMIDIFIERS FOR SWIMMING POOLS WITH HIGH-EFFICIENCY HEAT RECOVERY SYSTEM



HEAT RECOVERY
 HEATING
 R-410A OZONE FRIENDLY
 SCROLL COMP
 VARIABLE SPEED
 DEHUMIDIFICATION
 AIR FILTERS
 RS485 PROTOCOL CONNECTION LINK

SPR units are the ideal answer to the needs of swimming pools where dehumidification is not sufficient, but a high indoor air exchange is needed, without, however, wasting indoor heat to the outside.

The high-efficiency recuperator, guarantees efficiencies of up to 80%.

SPR units represent the state of the art in terms of efficiency, reliability and sound power output, thanks in part to the use of energy-efficient electronic radial fans with built-in inverters.

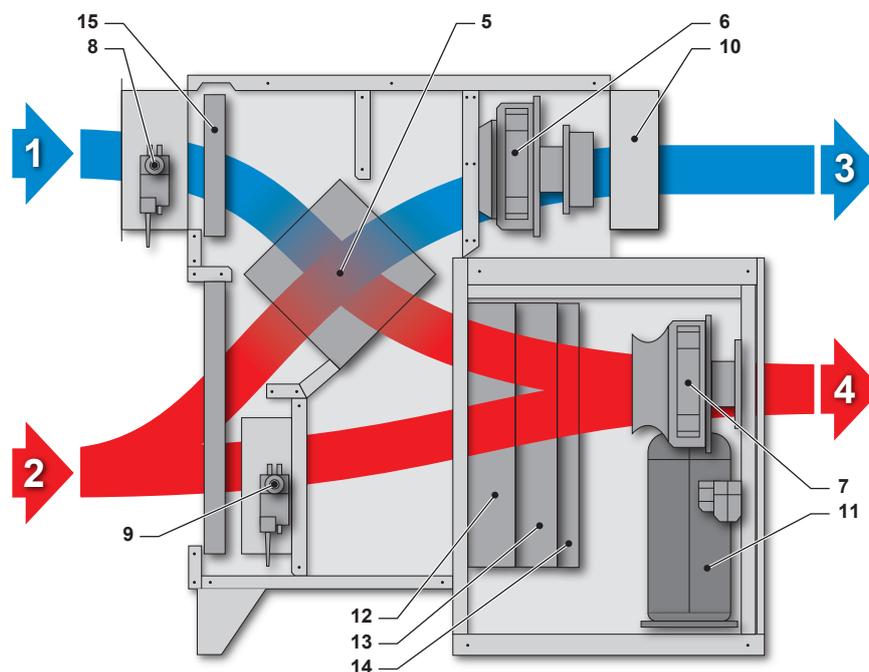
In addition, sophisticated control software, developed in-house, makes it possible to set, measure and control the air flow rate, consequently eliminating any problems arising from miscalculation of ductwork pressure drops, thus making dehumidifier installation and system commissioning extremely simple and fast, consequently reducing the time and cost of the installation itself.

| Datasheet | | SPR | | | | | | | | | |
|-------------------------------------|---------|-------------------|----------|----------|----------|-------------------|----------------|----------|-------------------|----------|----------|
| | | 0100 | 0130 | 0160 | 0190 | 0210 | 0260 | 0300 | 0350 | 0450 | 0580 |
| Dehumidifying capacity (1) | L/Day | 100 | 128 | 157 | 190 | 210 | 268 | 302 | 358 | 452 | 581 |
| Recirculation air flow | m³/h | 900 | 1200 | 1600 | 1600 | 2000 | 2800 | 2800 | 3800 | 4000 | 4800 |
| Fresh air flow | kW | 0 - 900 | 0 - 1200 | 0 - 1200 | 0 - 1200 | 0 - 2000 | 0 - 2000 | 0 - 2000 | 0 - 2000 | 0 - 2000 | 0 - 2000 |
| Hot water coil capacity (1) | kW | 5,5 | 9,8 | 9,8 | 9,8 | 16,5 | 17 | 17 | 26,5 | 26,5 | 27 |
| Heat recovery system efficiency (2) | kW | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Power supply | V/ph/Hz | 230 / 1+N / 50 | | | | | 400 / 3+N / 50 | | | | |
| Dimensions W x D x H | mm | 550 x 1452 x 1320 | | | | 850 x 1452 x 1320 | | | 850 x 1682 x 1769 | | |
| Weight | kg | 155 | 155 | 160 | 165 | 200 | 210 | 220 | 250 | 270 | 300 |

| Datasheet | | SPR | | | | | | | | | |
|-------------------------------------|---------|--------------------|----------|--------------------|-----------|--------------------|-----------|-----------|--------------------|-----------|--------------------|
| | | 0750 | 0950 | 1100 | 1400 | 1500 | 1700 | 1900 | 2200 | 3000 | 4500 |
| Dehumidifying capacity (1) | L/Day | 760 | 955 | 1120 | 1380 | 1480 | 1710 | 1870 | 2180 | 2960 | 4650 |
| Recirculation air flow | m³/h | 7000 | 8200 | 11000 | 12500 | 13000 | 15000 | 15000 | 17000 | 20000 | 35000 |
| Fresh air flow | kW | 0 - 6000 | 0 - 6000 | 0 - 11000 | 0 - 12500 | 0 - 13000 | 0 - 15000 | 0 - 15000 | 0 - 17000 | 0 - 20000 | 277 |
| Hot water coil capacity (1) | kW | 48 | 55 | 76 | 83 | 98 | 107 | 107 | 118 | 168 | 235 |
| Heat recovery system efficiency (2) | kW | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Power supply | V/ph/Hz | 400 / 3+N / 50 | | | | | | | | | |
| Dimensions W x D x H | mm | 1400 x 2331 x 1950 | | 2700 x 1950 x 2340 | | 2500 x 2505 x 2380 | | | 2500 x 3390 x 2380 | | 2500 x 4430 x 2380 |
| Weight | kg | 710 | 730 | 870 | 1060 | 1280 | 1280 | 1290 | 1290 | 1680 | 2100 |

(1) Inlet air: 30°C - 80% RH; inlet/outlet water: 80/70°C; 100% recirculation.

(2) Indoor air: 26°C - 60% RH; outdoor air: -5°C - 80% RH.



- | | |
|--|------------------------------------|
| 1 Inlet fresh outdoor air flow | 9 Calibration damper |
| 2 Indoor recirculation air flow | 10 Discharged air gravity damper |
| 3 Expelled outdoors air flow | 11 Compressor |
| 4 Supply air flow indoor | 12 Evaporator coil |
| 5 High-efficiency crossed flows heat recovery system | 13 Condenser coil |
| 6 Exhaust air extraction fan | 14 Reheat coil (optional) |
| 7 Supply air fan | 15 Outdoor fresh air filter |
| 8 Outdoor air damper | 16 Indoor recirculation air filter |

Options:

- High efficiency air filters
- Hot water coil with 3 ways valve standard or oversized
- Chilled water coil with 3 ways valve standard or oversized
- Electrical heaters
- Free cooling
- Silent version -2 dB(A)
- Soft-start
- Manometers
- Hot gas defrost
- Contact for 0-10 V humidifier control
- Contact for 0-10 V electrical heaters control
- De-superheater for swimming pool water
- ACF - Automatic Control Flow
- Clock card – time scheduling
- Dirty filters sensor
- Remote user terminal including 20 m cable
- TH probe for duct installation
- Serial board Modbus, Bacnet, Konnex, Ethernet™
- External version
- Panels thermal insulation, thickness 20 mm or 40 mm
- Version in two pieces



STR

**DEHUMIDIFIERS FOR SWIMMING POOLS
WITH HIGH-EFFICIENCY HEAT RECOVERY SYSTEM
AND TEMPERATURE CONTROL**



The **STR** models are the ideal units for industries and swimming pools that require not only dehumidification, but also a high air renewal, without, however, wasting indoor heat to the outside, and the temperature control.

The high-efficiency recuperator, guarantees efficiencies of up to 80%.

The units in this series represent the state of the art in terms of efficiency, reliability and sound power output, thanks in part to the use of electronic radial fans with high-energy efficiency inverter integrated.

Thanks to the temperature control function, with an external condenser, these units grant a full control, not only of the humidity, but also of the ambient temperature.

Therefore, these units are suitable for those applications in which the contemporary control of both the parameters is required.

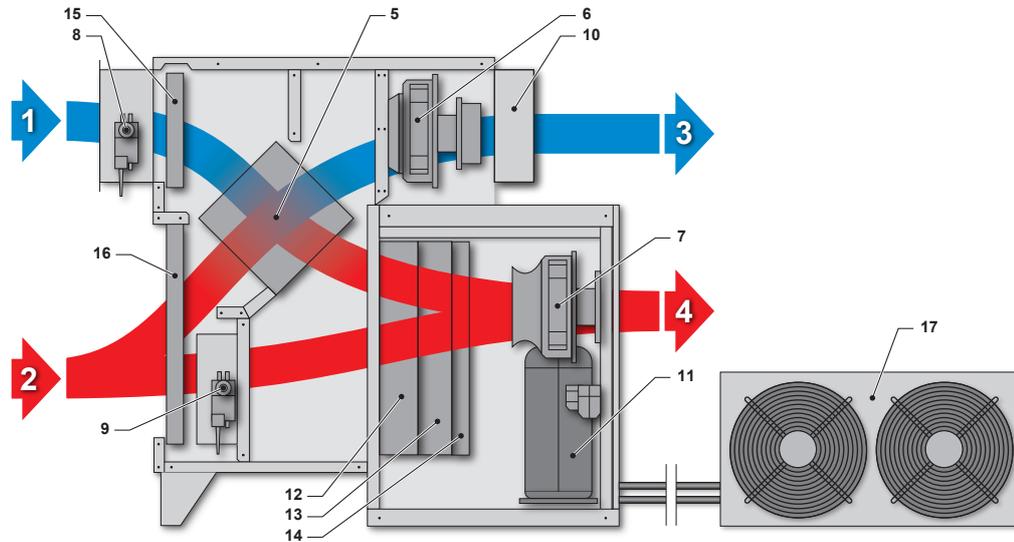
In addition, sophisticated control software, developed in-house, makes it possible to set, measure and control the air flow rate, consequently eliminating any problems arising from miscalculation of ductwork pressure drops, thus making dehumidifier installation and system commissioning extremely simple and fast, consequently reducing the time and cost of the installation itself.

| Datasheet | | STR | | | | | | | | | |
|-------------------------------------|---------|-------------------|----------|----------|----------|-------------------|----------------|----------|-------------------|----------|----------|
| | | 0100 | 0130 | 0160 | 0190 | 0210 | 0260 | 0300 | 0350 | 0450 | 0580 |
| Dehumidifying capacity (1) | L/Day | 100 | 128 | 157 | 190 | 210 | 268 | 302 | 358 | 452 | 581 |
| Recirculation air flow | m³/h | 900 | 1200 | 1600 | 1600 | 2000 | 2800 | 2800 | 3800 | 4000 | 4800 |
| Fresh air flow | kW | 0 - 900 | 0 - 1200 | 0 - 1200 | 0 - 1200 | 0 - 2000 | 0 - 2000 | 0 - 2000 | 0 - 2000 | 0 - 2000 | 0 - 2000 |
| Cooling power | | | | | | | | | | | |
| Hot water coil capacity (1) | kW | 5,5 | 9,8 | 9,8 | 9,8 | 16,5 | 17 | 17 | 26,5 | 26,5 | 27 |
| Heat recovery system efficiency (2) | kW | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Power supply | V/ph/Hz | 230 / 1+N / 50 | | | | | 400 / 3+N / 50 | | | | |
| Dimensions W x D x H | mm | 550 x 1452 x 1320 | | | | 850 x 1452 x 1320 | | | 850 x 1682 x 1769 | | |
| Weight | kg | 155 | 155 | 160 | 165 | 200 | 210 | 220 | 250 | 270 | 300 |

| Datasheet | | STR | | | | | | | | | |
|-------------------------------------|---------|--------------------|----------|--------------------|-----------|--------------------|-----------|-----------|--------------------|-----------|--------------------|
| | | 0750 | 0950 | 1100 | 1400 | 1500 | 1700 | 1900 | 2200 | 3000 | 4500 |
| Dehumidifying capacity (1) | L/Day | 760 | 955 | 1120 | 1380 | 1480 | 1710 | 1870 | 2180 | 2960 | 4650 |
| Recirculation air flow | m³/h | 7000 | 8200 | 11000 | 12500 | 13000 | 15000 | 15000 | 17000 | 20000 | 35000 |
| Fresh air flow | kW | 0 - 6000 | 0 - 6000 | 0 - 11000 | 0 - 12500 | 0 - 13000 | 0 - 15000 | 0 - 15000 | 0 - 17000 | 0 - 20000 | 277 |
| Cooling power | | | | | | | | | | | |
| Hot water coil capacity (1) | kW | 48 | 55 | 76 | 83 | 98 | 107 | 107 | 118 | 168 | |
| Heat recovery system efficiency (2) | kW | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 235 |
| Power supply | V/ph/Hz | 400 / 3+N / 50 | | | | | | | | | |
| Dimensions W x D x H | mm | 1400 x 2331 x 1950 | | 2700 x 1950 x 2340 | | 2500 x 2505 x 2380 | | | 2500 x 3390 x 2380 | | 2500 x 4430 x 2380 |
| Weight | kg | 710 | 730 | 870 | 1060 | 1280 | 1280 | 1290 | 1290 | 1680 | 2100 |

(1) Inlet air: 30°C - 80% RH; inlet/outlet water: 80/70°C; outdoor air: 30°C - 50% RH; 100% recirculation.

(2) Indoor air: 26°C - 60% RH; outdoor air: -5°C - 80% RH



- | | | |
|--|----------------------------------|------------------------------------|
| 1 Inlet fresh outdoor air flow | 7 Supply air fan | 13 Condenser coil |
| 2 Indoor recirculation air flow | 8 Outdoor air damper | 14 Reheat coil (optional) |
| 3 Expelled outdoors air flow | 9 Calibration damper | 15 Outdoor fresh air filter |
| 4 Supply air flow indoors | 10 Discharged air gravity damper | 16 Indoor recirculation air filter |
| 5 High-efficiency crossed flows heat recovery system | 11 Compressor | 17 External condenser |
| 6 Exhaust air extraction fan | 12 Evaporator coil | |

Options:

- High efficiency air filters
- Hot water coil with 3 ways valve standard or oversized
- Chilled water coil with 3 ways valve standard or oversized
- Electrical heaters
- Free cooling
- Silent version -2 dB(A)
- Soft-start
- Manometers
- Hot gas defrost
- Contact for 0-10 V humidifier control
- Contact for 0-10 V electrical heaters control
- Modulating gas valve to control supply temperature
- De-superheater for swimming pool water
- ACF - Automatic Control Flow
- Clock card – time scheduling
- Dirty filters sensor
- Remote user terminal including 20 m cable
- TH probe for duct installation
- Serial board Modbus, Bacnet, Konnex, Ethernet™
- External version
- Panels thermal insulation, thickness 20 mm or 40 mm
- Version in two pieces



CCV

CCA

CCW

STAND-ALONE UNIT FOR HUMIDITY AND TEMPERATURE CONTROL

CCV - CCA - CCW units are designed and developed to provide fine control of temperature and humidity parameters within small private cellars, Ccd rooms, metrology rooms or any other environment that requires fine control of temperature and humidity.



Working models:

- Heating
- Cooling
- Humidification
- Dehumidification



Focus on technology:

- Electrical heating
- Cooling with refrigerant circuit
- Immersed electrode humidifier
- Internal recirculation fan: electronic radial with modulating brushless motor
- Condensation fan: electronic radial with brushless motor that can be modulated from 0 to 100% (CCV and CCA models)
- Modulating water valve (CCW model) + modulation condensing control
- Temperature and humidity probe on board
- Advanced and programmable control with available remote display
- Time-bands program
- Access and unit maintenance from the front

The unit is designed as a monoblock or direct expansion split solution and can claim a high level of technology:

- **CCV** = Air-to-air, monobloc.
- **CCA** = Air-to-air, split, outdoor condenser with refrigerant connections.
- **CCW** = Water-to-air, monobloc.

| Datasheet | | CCV - CCA - CCW | | CCA - CCW |
|--|-----------|--------------------------|--------------------------|--------------------------|
| | | 300 | 450 | 900 |
| Total cooling power | Watt | 1500 | 2200 | 4400 |
| Sensible cooling power | Watt | 840 | 1200 | 2440 |
| Air flow | m³/h | 300 | 450 | 900 |
| Condensation external air flow | m³/h | Modulating from 0 to 350 | Modulating from 0 to 500 | Modulating from 0 to 950 |
| Supply fan available static pressure | Pa | 180 | 180 | 200 |
| External air fan available static pressure (CCV) | Pa | 150 | 150 | - |
| Electric heater | kW | 1,3 | 1,3 | 2,6 |
| Nominal humidifier power | kW | 1,5 | 1,5 | 1,8 |
| Humidifier flow | Kg/h | 3 | 3 | 3 |
| Maximum power consumption (without options) | kW | 0,6 | 0,8 | 1,5 |
| Power consumption (with resistance and humidifier) | kW | 4,5 | 5,7 | 7,1 |
| Dimensions W x D x H | mm | 650x1690x450 | 650x1690x450 | 650x1690x450 |
| Weight | Kg | 85 | 90 | 95 |
| Refrigerant | Type | R410A | R410A | R410A |
| Power supply | V/ph/Hz | 230/1+N/50 | 400/3+N/50 | 400/3+N/50 |
| Operating limits | °C / R.H. | 10-30 / 45-95% | 10-30 / 45-95% | 10-30 / 45-95% |

All the values refer to the following conditions: indoor air: 18°C - 80% RH; outdoor air: 30°C - 50% RH (CCV, CCA); inlet water: 25°C (CCW)

Options:

- Steam humidifier
- Electrical heater
- Silent version
- F6 high efficiency filter, inside air
- Intake from the back or the bottom
- Kit air connection for fresh air duct (only CCV)
- (composed by air duct 10 m, Ø 160 mm and n° 4 wall flanges)



HiDew
Dehumidifiers 

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HD-I6EN-2024

MADE IN ITALY



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