



Capacity of water-cooled condenser

Connection	CDP 125 Ø15 mm
Max. water flow	600 l/h
Max. capacity*	4,0 kW
Pressure drop	10 kPa

*Running conditions: LP 10°C, HP 40°C, water temperature 28°C

CDP 125 DEHUMIDIFIER

Function

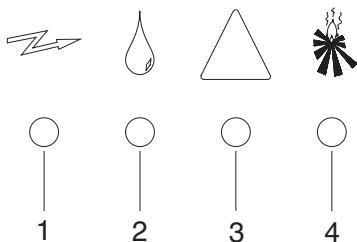
The CDP 125 works in accordance with the condensation principle. A fan draws the humid air into the dehumidifier and through an evaporator coil. When passing through the evaporator the air is cooled down to below its dew point temperature, and its content of water vapour is condensed into water, which falls into the drip tray and then is led from the drip tray to a drain. The cold, dry air is then passed over the condenser coil where it is re-heated, before leaving the unit at a temperature, which is approx. 5°C higher than at the inlet.

Applications:

- Indoor swimming pools
- Therapy pools
- Wellness centres
- Hotel pools

FEATURES

- The CDP 125 is built into a cabinet made of powder-coated hot-galvanized double-skinned panels with 50 mm insulation
- Evaporator and condenser coils are epoxy-coated for higher corrosion resistance
- All external and internal parts of the cabinet are powder-coated
- The condensate outlet is located on the air inlet side of the CDP 125. The outlet stub can be connected to a 3/4" water hose
- Ø400mm air inlet through a filter placed in a removable frame
- Ø400mm dry air outlet positioned either horizontally, or vertically through the top of the unit
- The access for inspection can be moved to the opposite side
- Fresh air inlet possible through Ø160mm fresh air duct
- The CDP 125 can be supplied with an optional water-cooled condenser. The Ø15mm coupling pipes of the water-cooled condenser are made of copper
- The CDP 125 can be wall mounted utilising the wall mount kit or it can be placed on the floor utilising the shockabsorbing floor mount kit (optional extra)
- A water heating coil can be mounted in the air outlet duct for further heating of the dry air (optional extra)



Electronic control

The CDP 125 is fully automatic with electronic control. An easy to read display panel indicates the current status of operation.

1. Power on
2. Dehumidification – the compressor is on
3. Cooling circuit failure – the dehumidifier is switched off
4. Water heating coil is activated

Push buttons allow switching on and off control of dehumidification, re-heating coil and continuous ventilation.

If a controlled and constant relative humidity is required, room or duct hygrometers can be connected to the CDP 125. If the CDP 125 is used with a water-heating coil, the control is prepared for connection of a room thermostat.

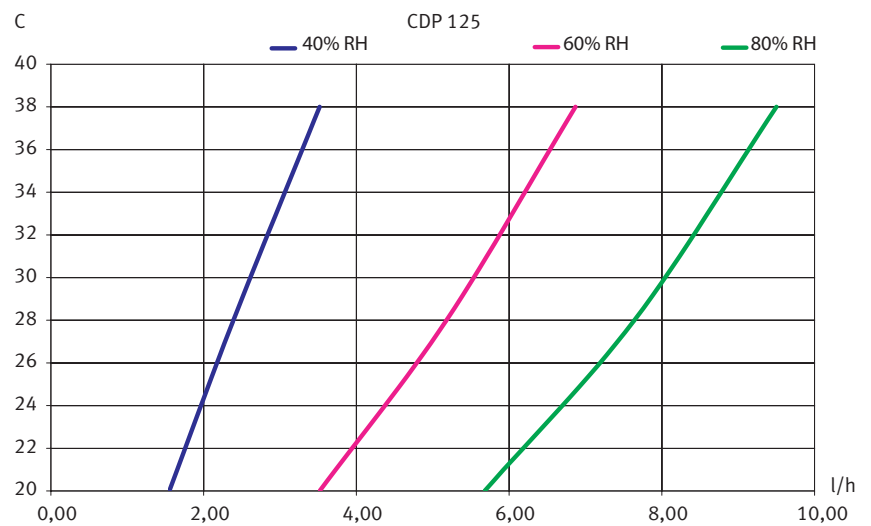
Defrosting

If the CDP 125 is used in the temperature range between 15 and 20°C, passive, demand-controlled defrosting can be achieved by fitting a defrosting sensor on the evaporator coil.

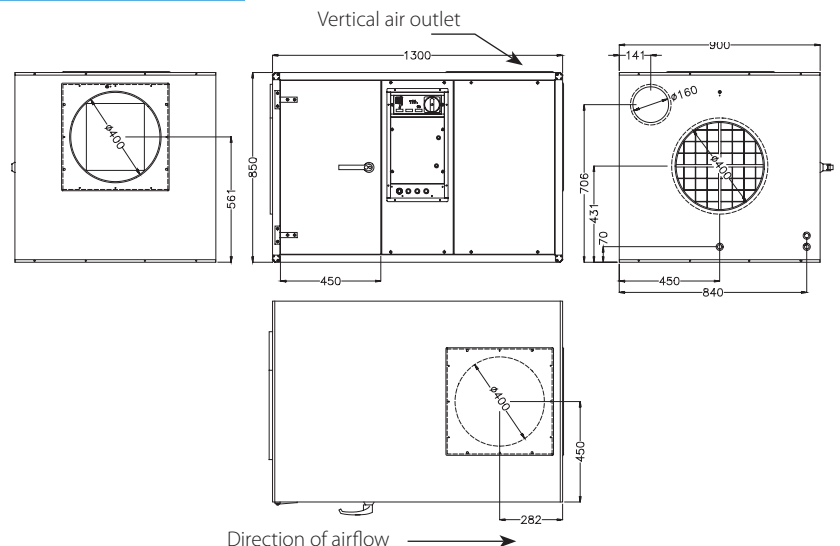
TECHNICAL DATA

Model	CDP 125
Operating range – humidity	40 – 100 %RH
Operating range – temperature	20 – 38 °C
Air volume	2500 m ³ /h
Max external pressure	230 Pa
Max. fresh air supply	375 m ³ /h
Power supply	1x230V;50 Hz / 3x400V;50 Hz
Max. ampere consumption	12,9 / 7,6 A
Max. power consumption	2,8 / 3,2 kW
Refrigerant	R407C
Quantity of refrigerant	5,200 kg
Compressor	Rotary / Reciprocating
Sound level (at 1 metre)	60 dB(A)
Weight	160 kg
Filter	EU 3
Colour	RAL 9016
Protection class	IPX4

CAPACITY CURVES

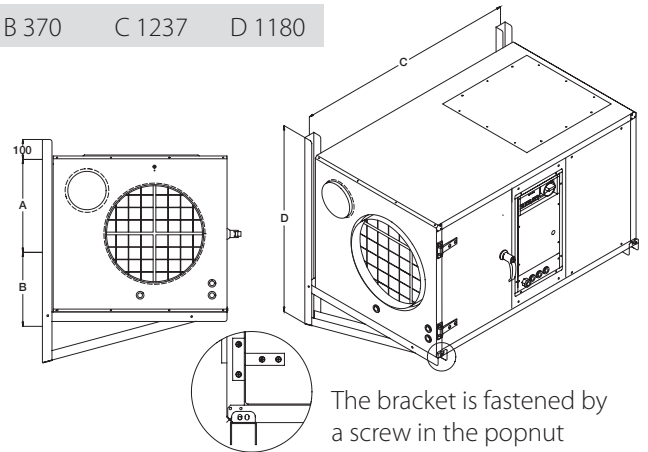


DIMENSIONS



Wall mounting kit

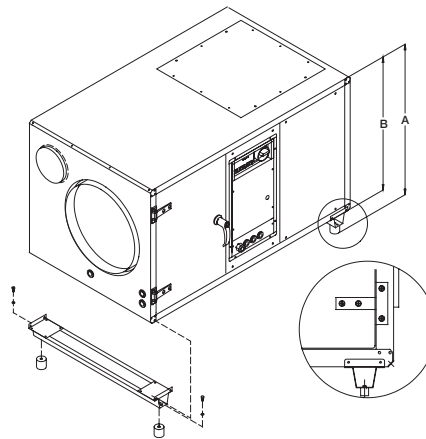
CDP 125 A 465 B 370 C 1237 D 1180



The bracket is fastened by a screw in the popnut

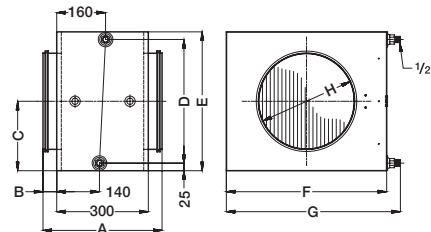
Shockabsorbing floor mount kit

CDP 125 A 942±2 B 850



The floor mount kit is fastened by a M5 sheet metal screw

Water heating coil



Ø400 A 410 B 55 C 240 D 430 E 580 F 650 G 695 H 400 kg 28

Capacity of water heating coils

CDP 125		2RR	2RR	2RR
Connection		1/2"	1/2"	1/2"
Duct connection	mm	Ø400	Ø400	Ø400
Water temperature	°C	82/71	80/60	70/35
Air volume	m ³ /h	2500	2500	2500
Air outlet temperature	°C	51,58	47,11	34,42
Capacity	kW	20,84	17,05	6,29
Water flow	l/h	1620	720	144
Pressure drop, water	kPa	10,09	2,44	0,15
Pressure drop, air	Pa	28,63	28,42	27,84

The technical specifications of the water heating coils are based on a room temperature of 27°C

ACCESSORIES

- Wall mounting kit
- Shockabsorbing floor mount kit
- Water heating coil
- Room hygostat
- Duct hygostat
- Room thermostat
- Defrost sensor
- Ext. failure monitoring kit (see separate data sheets)

Also available in this series:

- CDP 35
- CDP 45
- CDP 65
- CDP 75
- CDP 165
- CDP 35T
- CDP 45T
- CDP 65T
- (see separate data sheets)

All dimensions are in mm.

ACCESSORIES CDP 75 - 125 - 165

Illustration	Accessory	CDP-type	Dantherm No.
	Room hygromat	CDP 75 CDP 125 CDP 165	516301 516301 516301
	Room thermostat	CDP 75 CDP 125 CDP 165	513321 513321 513321
	Duct hygromat	CDP 75 CDP 125 CDP 165	516310 516310 516310
	Wall mounting kit	CDP 75 CDP 125	175381 175382
	Shockabsorbing floor mount kit	CDP 75 CDP 125 CDP 165	175367 175368 175369
	Water heating coil	CDP 75 CDP 125 CDP 165	570027 570027 570029
	Defrost sensor	CDP 75 CDP 125 CDP 165	175401 175401 175401
	External failure monitoring kit	CDP 75 CDP 125 CDP 165	019401 019401 019401