

CDF 50 DEHUMIDIFIER

Function

The CDF 50 is an energy efficient and quiet dehumidifier. It 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

- Archives
- Museums
- Churches
- Changing rooms
- Waterworks

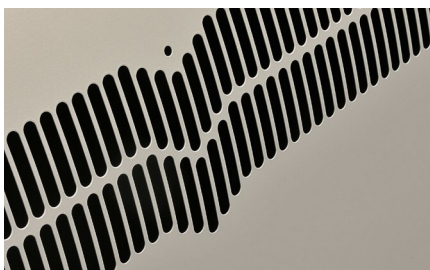
FEATURES

Dehumidifier

- Built into a strong and robust powder coated hot galvanized sheet metal cabinet
- Evaporator and condenser coils are epoxy-coated for high corrosion resistance
- Fixed to the wall by means of a wall mounting strip supplied with the unit
- Condensate outlet located at the bottom. Outlet stub can be connected to a ¾" hose
- Outside connection to mains

Control

- Built in electronic hygostat and thermostat
- Integrated ON/OFF control of humidity and temperature (electric or water heating coils as accessories)
- 0-VOLT connection for alarm
- 230 V for control valve, exhaust fan and pump/boiler
- RS 485 gate for BMS (Modbus)



Diodes

- BLUE: Power connected, standby mode
 GREEN: Compressor ON, deicing
 YELLOW: Remote pairing mode
 RED: Errors

Defrosting

Active, demand-controlled defrosting is incorporated in the electronic control.

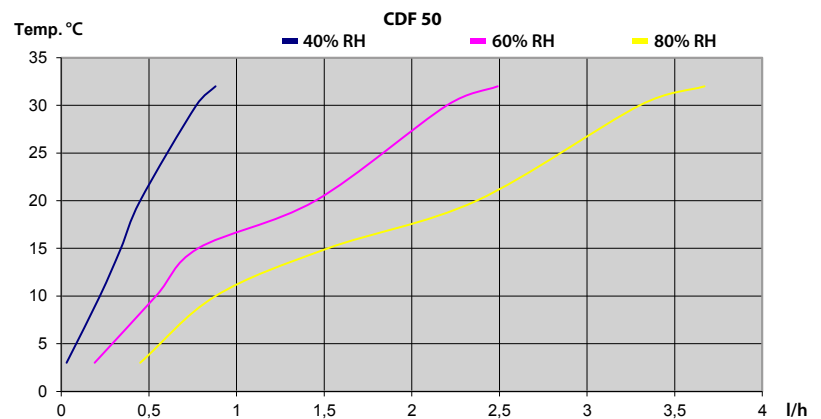
Service

For easy service the refrigerant circuit is supplied with a service valve. The PCB has a USB gate for history data logging for easy fault finding.

TECHNICAL DATA

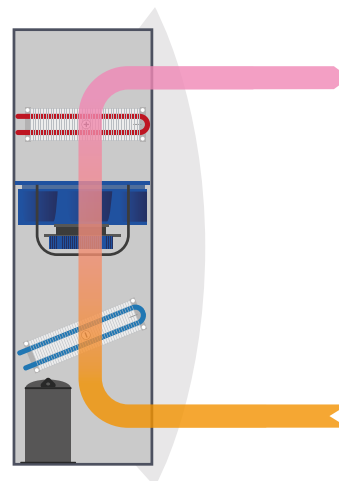
Model	CDF 50
Operating range – humidity	40 – 100 %RH
Operating range – temperature	3 – 32°C
Air volume	680 m ³ /h
Power supply	1x230 V/50 Hz
Max. ampere consumption	4,7 A
Max. power consumption	1,08 kW
Refrigerant	R407C
Quantity of refrigerant	0,9 kg
Compressor	Rotary
Fan	Radial
Sound level (at 1 metre)	47 dB(A)
Weight	65 kg
Filter	G3 PPI 15
Colour (Cabinet/Front)	RAL 9005/9006
Protection class	IPX4
Corrosion protection in accordance with EN/ISO 12944-2	C4

CAPACITY CURVES

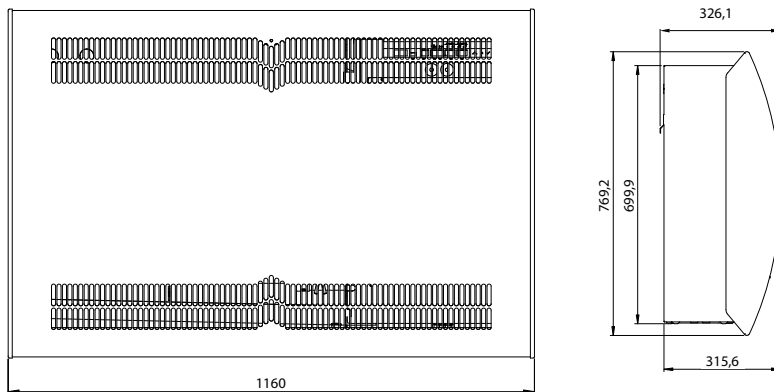


Specific energy consumption (SEC):
0,63 kWh/l at 20°C & 60% RH

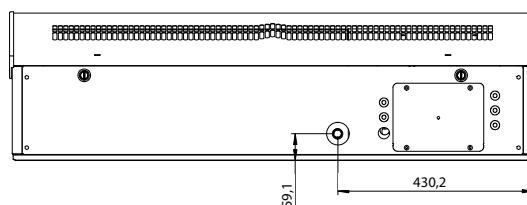
INSTALLATION



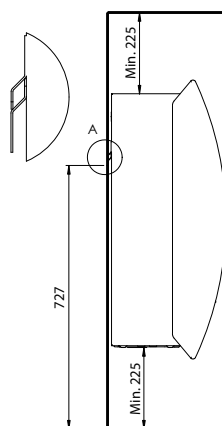
DIMENSIONS CDF 50



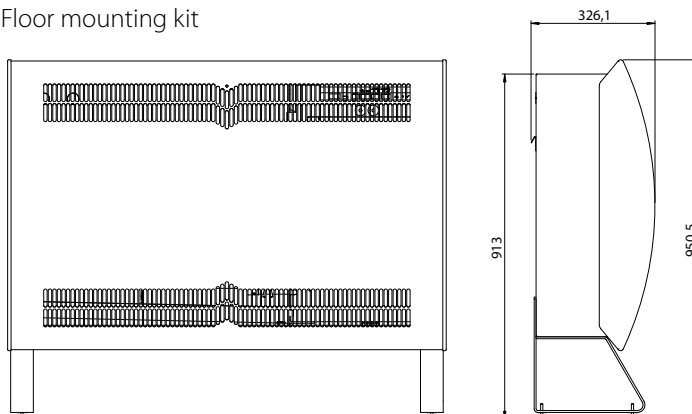
Drain outlet position



Recommended installation of CDF 50



Floor mounting kit



Accessories

- Wireless remote control DRC1
- Floor mounting kit
- Water heating coils
- Control valve for water heating coils
- Electric heating coils
- Exhaust fans

All dimensions are in mm.