



## CDF 40 DEHUMIDIFIER

### Function

The CDF 40 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

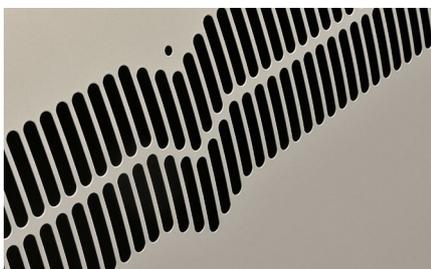
## FEATURES

### 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.

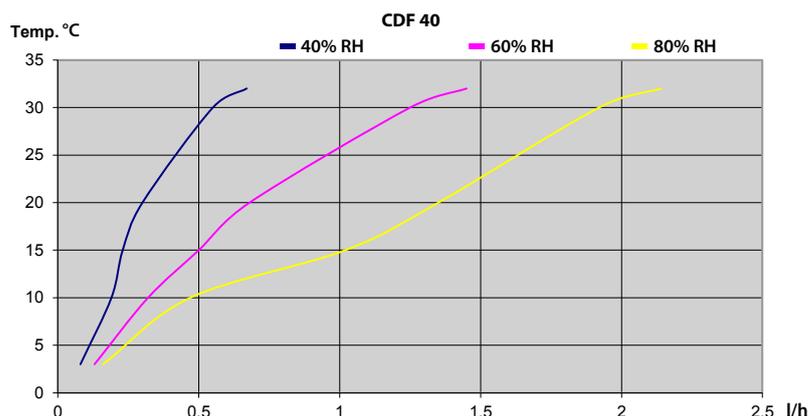
### Service

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**

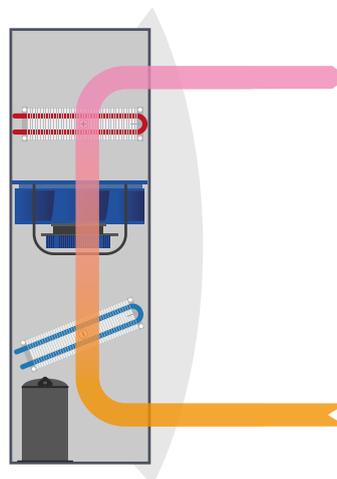
| Model  | CDF 40                |
|--|-----------------------|
| Operating range – humidity                             | 40 – 100 %RH          |
| Operating range – temperature                          | 3 – 32°C              |
| Air volume   | 400 m <sup>3</sup> /h |
| Power supply   | 1x230 V/50 Hz         |
| Max. ampere consumption                                | 3,4 A                 |
| Max. power consumption                                 | 0,78 kW               |
| Refrigerant  | R407C                 |
| Quantity of refrigerant                                | 0,7 kg                |
| Compressor   | Rotary                |
| Fan  | Radial                |
| Sound level (at 1 metre)                               | 46 dB(A)              |
| Weight   | 56,5 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**

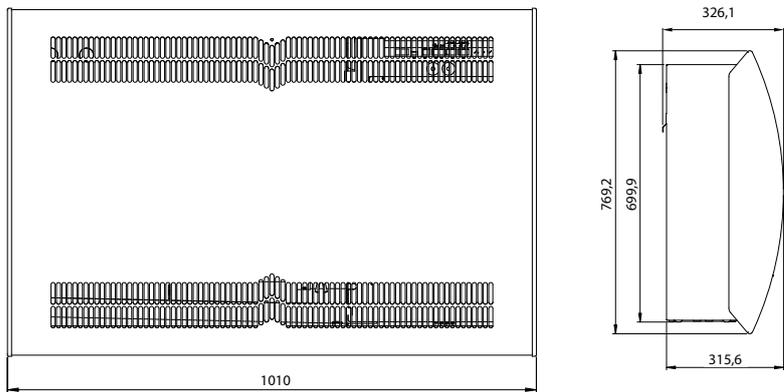


Specific energy consumption (SEC):  
0,80 kWh/l at 20°C & 60% RH

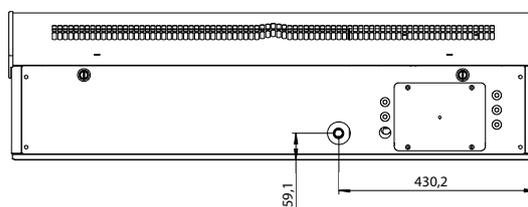
**INSTALLATION**



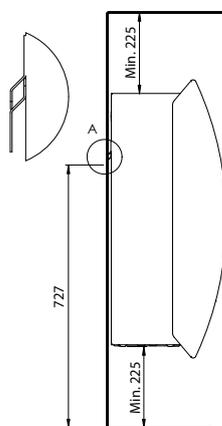
**DIMENSIONS CDF 40**



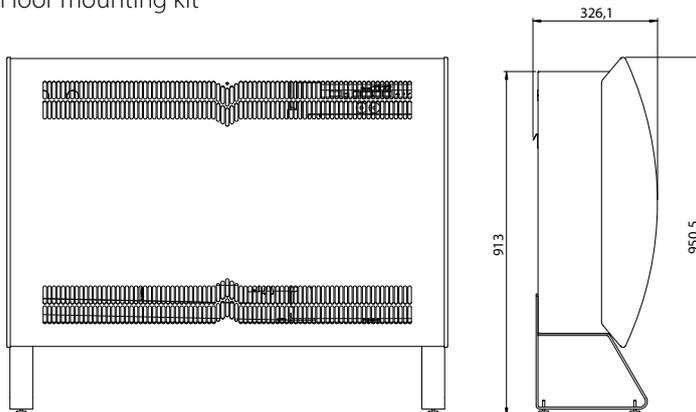
Drain outlet position



Recommended installation of CDF 40



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.