CDF 10

CDF 10 in white

CDF 10 with water container

CDF 10 DEHUMIDIFIER

Function

The CDF 10 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
- Churches
- Museums
- Water works

FEATURES

- The CDF 10 is built into a powder-coated hot-galvanized sheet metal cabinet
- Evaporator and condenser coils are epoxy-coated for higher corrosion resistance
- All external parts of the cabinet are powder-coated
- The CDF 10 is fixed to the wall by means of a wall mounting strip supplied with the unit
- The condensate outlet is located at the bottom of the CDF 10. The outlet stub can be connected to a 1/2" water hose.
- Air intake through a filter that is placed behind the front panel.
- The dehumidified air is blown out through the sides of the CDF 10.
- Reciprocating compressor
- Axial fan
- The CDF 10 can be used with a water container, capacity 5,5 l (accessory)

Electronic control

The CDF 10 has a built-in hygrostat and is fully automatic with electronic control. The hygrostat is placed behind the front panel and the required relative humidity level can be adjusted by moving the set screw. On delivery the CDF 10 is set at approx. 60% RH.

The CDF 10 is switched on and off by the switch on the side of the unit. A green LED on the front panel lights when the compressor is operating.

If the CDF 10 is used with a water container, it switches off automatically when the water tank is full. A red LED on the front panel lights when the water container needs to be emptied.

Defrosting

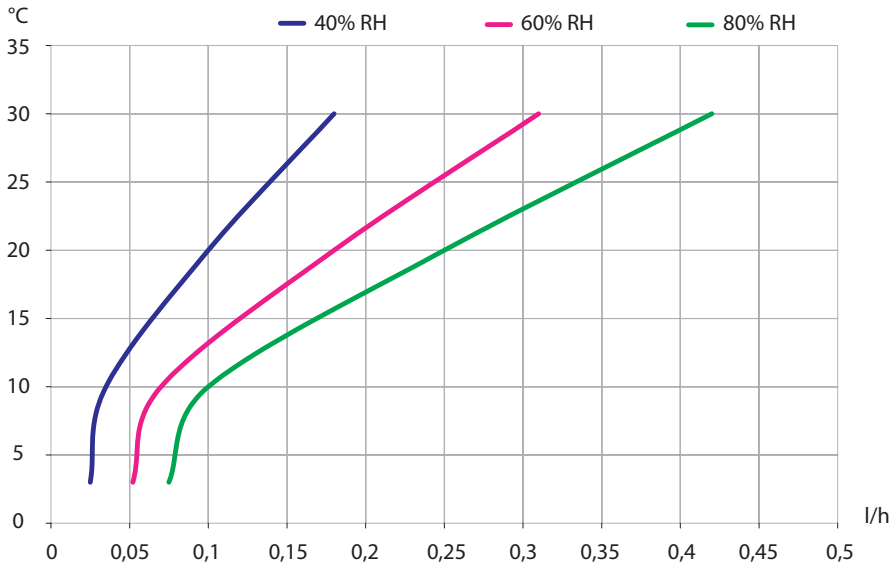
Active, demand-controlled defrosting is incorporated in the electronic control. A sensor on the evaporator coil ensures that the evaporator is only defrosted when required. The evaporator coil is defrosted by means of hot refrigerant bypassing the condenser and being fed through the evaporator.

The CDF 10 is automatically switched off when the temperature is lower than 3°C. It restarts when the room temperature has increased to more than 3°C.

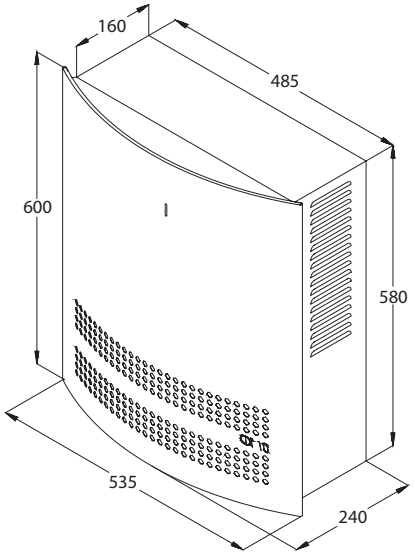
TECHNICAL DATA

Model	**CDF 10**
Operating range – humidity	40 – 100 %RH
Operating range – temperature	3 – 30 °C
Air volume	220 m3/h
Power supply	1x230/50 V/Hz
Max. ampere consumption	2,1 A
Max. power consumption	0,39 kW
Refrigerant	R134a
Quantity of refrigerant	0,190 kg
Sound level (at 1 metre)	46 dB(A)
Weight	28 kg
Colour	RAL 7024 / 9006
Protection class	IPX2

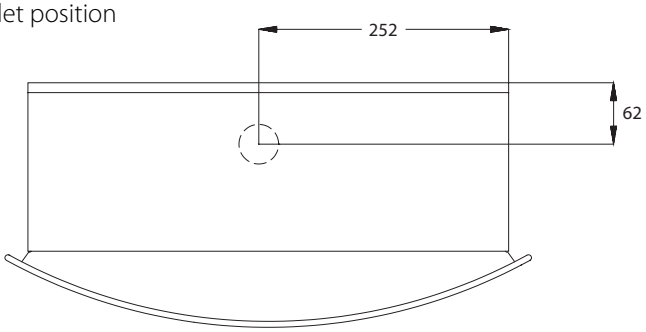
CAPACITY CURVES



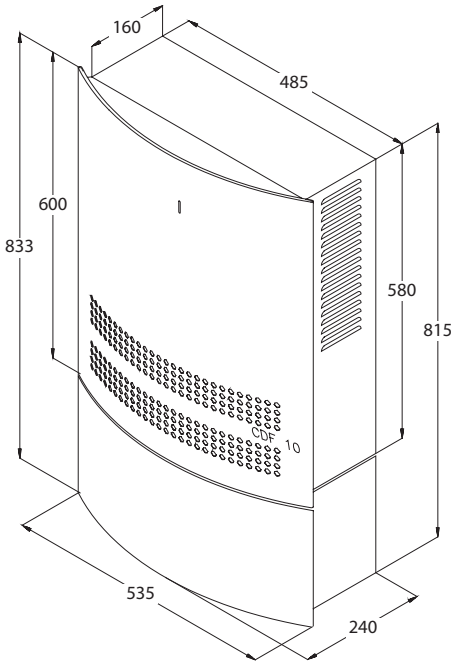
DIMENSIONS



Drain outlet position



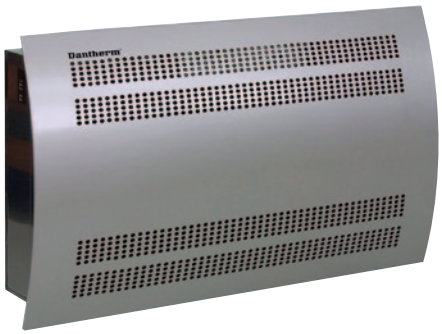
CDF 10 with water container



All dimensions are in mm.

Accessories
Water container
(see separate data sheet)

Also available in this series:
CDF 35
CDF 45
(see separate data sheets)



CDF 35
DEHUMIDIFIER

Function

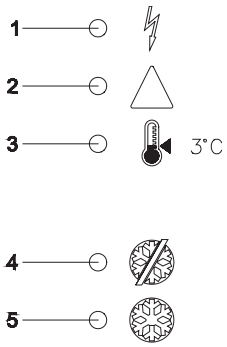
The CDF 35 works in accordance with the condensation principle. A fan draws the humid air into the dehumidifier and through an evaporator coil. When passing through the evaporator the air is cooled down to below its dew point temperature, and its content of water vapour is condensed into water, which falls into the drip tray and then is led from the drip tray to a drain. The cold, dry air is 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
- Churches
- Museums
- Water works

FEATURES

- The CDF 35 is built into a powder-coated hot-galvanized sheet metal cabinet
- Evaporator and condenser coils are epoxy-coated for higher corrosion resistance
- All external and internal parts of the cabinet are powder-coated
- The CDF 35 is fixed to the wall by means of a wall mounting strip supplied with the unit
- The condensate outlet is located at the bottom of the CDF 35. The outlet stub can be connected to a 1/2" water hose.
- Air intake through a filter that is placed behind the front panel.
- Rotary compressor
- Radial fan
- The CDF 35 can be floor mounted using a floor mounting kit (accessory)
- Optionally the CDF dehumidifier can be fitted with a water heating coil (accessory)



Electronic control

The CDF 35 has a built-in hygrostat and is fully automatic with electronic control. The hygrostat is factory set to approx. 60%RH. An easy to read display panel indicates the current status of operation.

1. Power on
2. Cooling circuit failure – the dehumidifier is switched off
3. Ambient temperature below 3°C – the dehumidifier is switched off. The dehumidifier starts again automatically when the ambient temperature increases to more than 3°C
4. Defrosting mode – the evaporator is being defrosted
5. The evaporator is icing up. The defrosting function allows icing up for 30 minutes before defrosting is activated

Defrosting

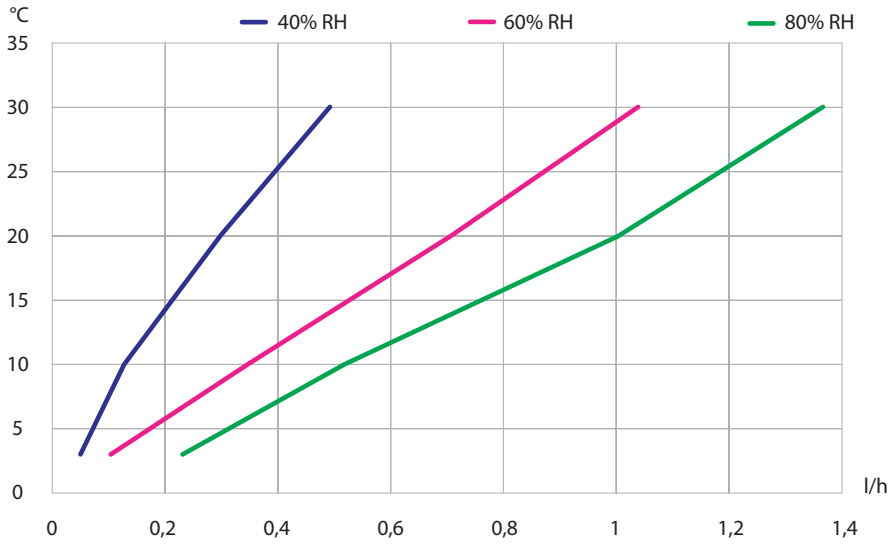
Active, demand-controlled defrosting is incorporated in the electronic control. A sensor on the evaporator coil ensures that the evaporator is only defrosted when required. The evaporator coil is defrosted by means of hot refrigerant bypassing the condenser and being fed through the evaporator.

If the relative humidity has to be adjusted frequently, a remote room hygrostat can be connected to the CDF 35.

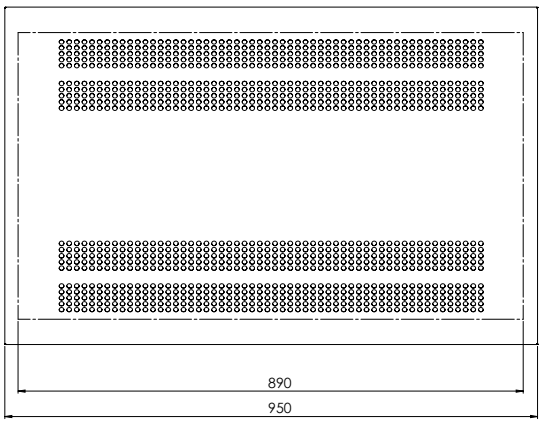
TECHNICAL DATA

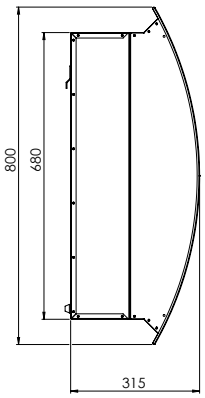
Model	**CDF 35**
Operating range – humidity	40 – 100 %RH
Operating range – temperature	3 – 30 °C
Air volume	250 m^3/h
Power supply	1x230/50 V/Hz
Max. ampere consumption	3,0 A
Max. power consumption	0,70 kW
Refrigerant	R407C
Quantity of refrigerant	0,600 kg
Sound level (at 1 metre)	47 dB(A)
Weight	60 kg
Colour	RAL 7024 / 9006
Protection class	IPX4

CAPACITY CURVES

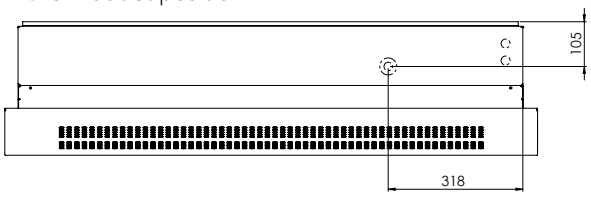


DIMENSIONS

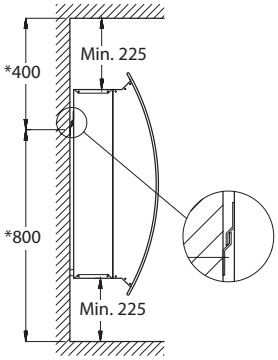




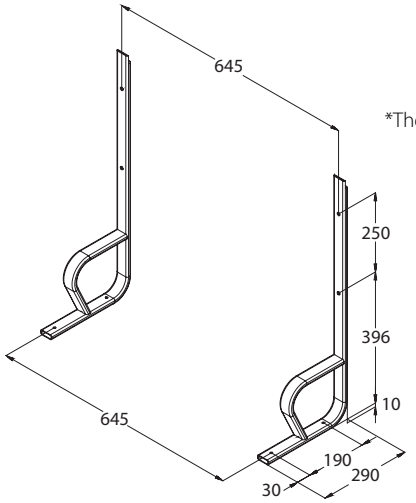
Drain outlet position



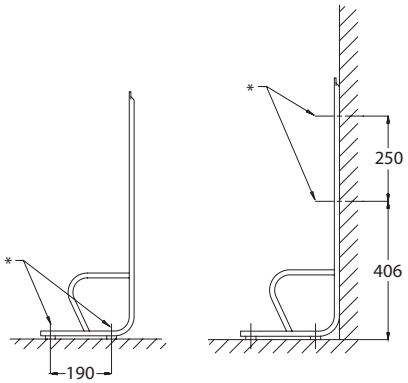
Recommended placing of the CDF 35



Floor mounting kit



*The dimensions indicate the placing of the wall mounting strip

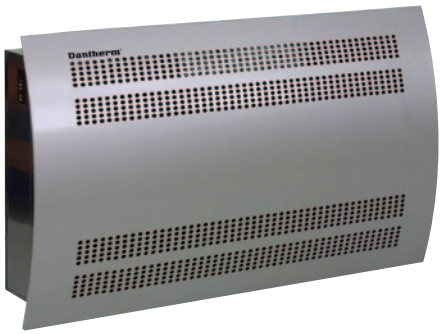


*To the fixed to the floor or the wall

All dimensions are in mm.

Accessories
Room hygrostat
Floor mounting kit
Ext. failure monitoring kit
Water heating coil
(see separate data sheet)

Also available in this series:
CDF 10
CDF 45
(see separate data sheets)



CDF 45
DEHUMIDIFIER

Function

The CDF 45 works in accordance with the condensation principle. Two fans draw 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

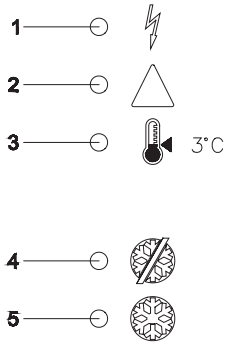
- Archives
- Churches
- Museums
- Water works

FEATURES

- The CDF 45 is built into a powder-coated hot-galvanized sheet metal cabinet
- Evaporator and condenser coils are epoxy-coated for higher corrosion resistance
- All external and internal parts of the cabinet are powder-coated
- The CDF 45 is fixed to the wall by means of a wall mounting strip supplied with the unit
- The condensate outlet is located at the bottom of the CDF 45. The outlet stub can be connected to a 1/2" water hose.
- Air intake through a filter that is placed behind the front panel.
- Rotary compressor
- Radial fans
- The CDF 45 can be floormounted using a floor mounting kit (accessory)
- Optionally the CDF dehumidifier can be fitted with a water heating coil (accessory)

Electronic control

The CDF 45 has a built-in hygrostat and is fully automatic with electronic control. The hygrostat is factory set to approx. 60%RH. An easy to read display panel indicates the current status of operation.



1. Power on
2. Cooling circuit failure – The dehumidifier is switched off
3. Ambient temperature below 3°C – the dehumidifier is switched off. The dehumidifier starts again automatically when the ambient temperature increases to more than 3°C
4. Defrosting mode – the evaporator is being defrosted
5. The evaporator is icing up. The defrosting function allows icing up for 30 minutes before defrosting is activated

Defrosting

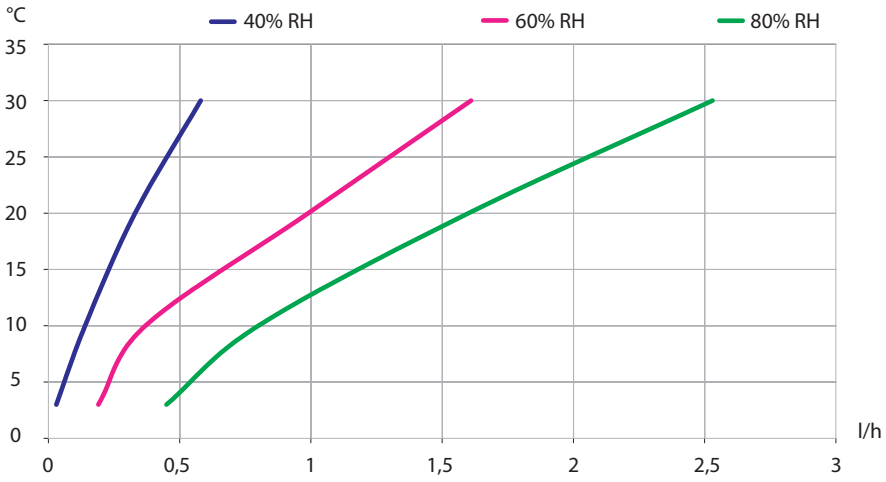
Active, demand-controlled defrosting is incorporated in the electronic control. A sensor on the evaporator coil ensures that the evaporator is only defrosted when required. The evaporator coil is defrosted by means of hot refrigerant bypassing the condenser and being fed through the evaporator.

If the relative humidity has to be adjusted frequently, a remote room hygrostat can be connected to the CDF 45.

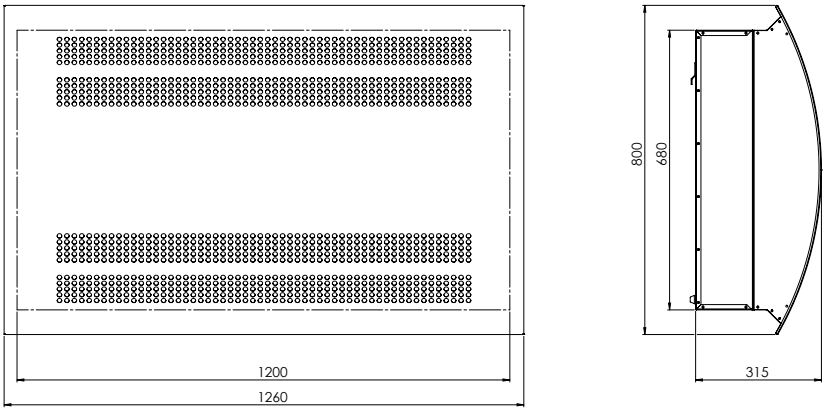
TECHNICAL DATA

Model	**CDF 45**
Operating range – humidity	40 – 100 %RH
Operating range – temperature	3 – 30 °C
Air volume	500 m^3/h
Power supply	1x230/50 V/Hz
Max. ampere consumption	5,3 A
Max. power consumption	1,2 kW
Refrigerant	R407C
Quantity of refrigerant	0,950 kg
Sound level (at 1 metre)	49 dB(A)
Weight	74 kg
Colour	RAL 7024 / 9006
Protection class	IPX4

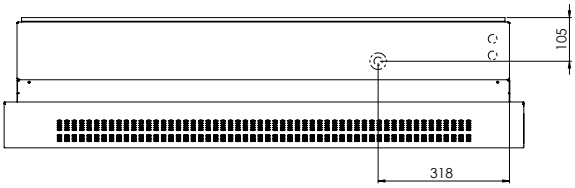
CAPACITY CURVES



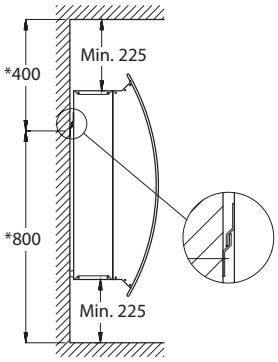
DIMENSIONS



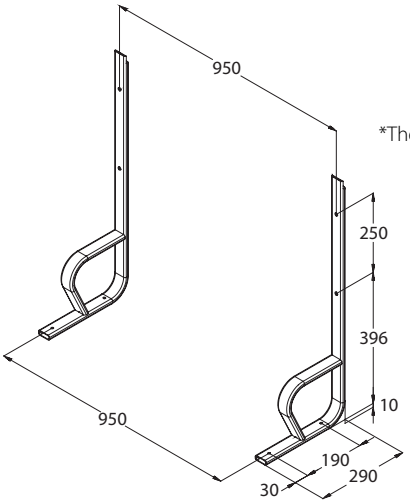
Drain outlet position



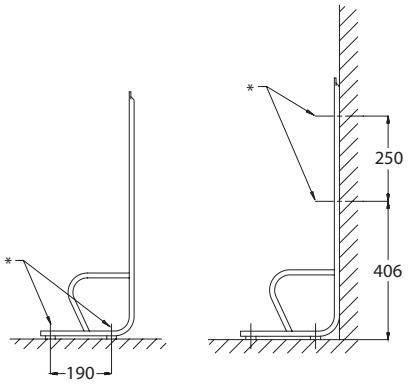
Recommended placing of the CDF 45



Floor mounting kit



*The dimensions indicate the placing of the wall mounting strip



*To the fixed to the floor or the wall

All dimensions are in mm.

Accessories
Room hygrostat
Floor mounting kit
Ext. failure monitoring kit
Water heating coil
(see separate data sheet)

Also available in this series:
CDF 10
CDF 35
(see separate data sheets)