# CDF 10

(Also available in white).

## 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.

## CONSTRUCTION

- The CDF 10 is built into a hot-galvanized sheet metal cabinet
- All external parts of the cabinet are enamel powder painted
- 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 ½" 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 tank, capacity 5,5 l (optional extra)

## 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 tank, it switches off automatically when the water tank is full. A red LED on the front panel lights when the water tank needs to be emptied.

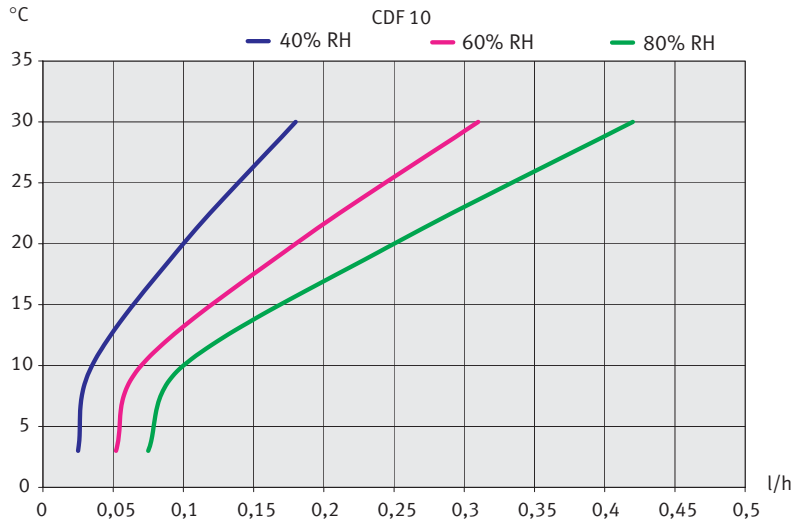
Active, demand-controlled defrosting is incorporated in the electronic control. A sensor on the evaporator coil ensures that the evaporator is only defrosted when required. The evaporator coil is defrosted by means of hot refrigerant bypassing the condenser and being fed through the evaporator.

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.

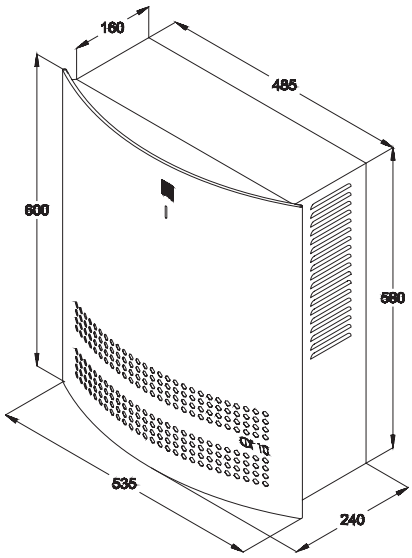
## TECHNICAL DATA

| | | CDF 10 |
|---|---|---|
| Operating range – humidity | %RH | 40 – 100 |
| Operating range – temperature | °C | 3 – 30 |
| Air volume | $m^3/h$ | 220 |
| Power supply | V/Hz | 1x230/50 |
| Max. ampere consumption | A | 2,1 |
| Max. power consumption | kW | 0,39 |
| Refrigerant | | R134a |
| Quantity of refrigerant | kg | 0,190 |
| Sound level (at 1 metre) | dB(A) | 46 |
| Weight | kg | 28 |
| Colour | RAL | 7024/9006 |
| | RAL | 9016 |
| Protection class | | IPX2 |

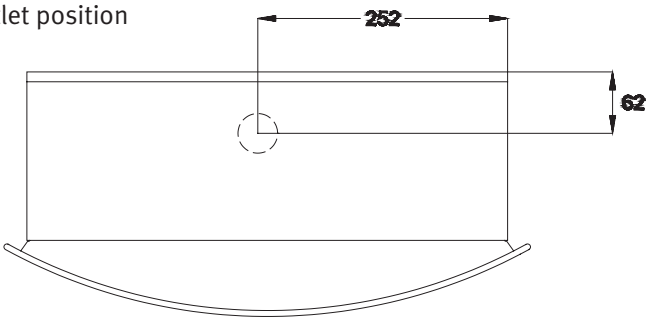
## CAPACITY CURVES



## DIMENSIONS



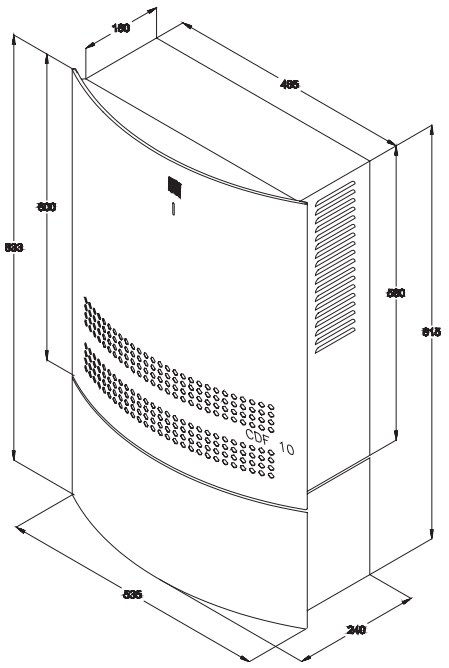

Drain outlet position




## ACCESSORIES

Water tank

CDF 10 with water tank




All dimensions are in mm

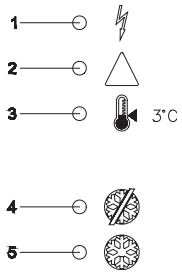
# CDF 35

## 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 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.

## CONSTRUCTION

- The CDF 35 is built into a hot-galvanized sheet metal cabinet
- All external and internal parts of the cabinet are enamel powder painted
- 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 ½" 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 (optional extra)




## 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

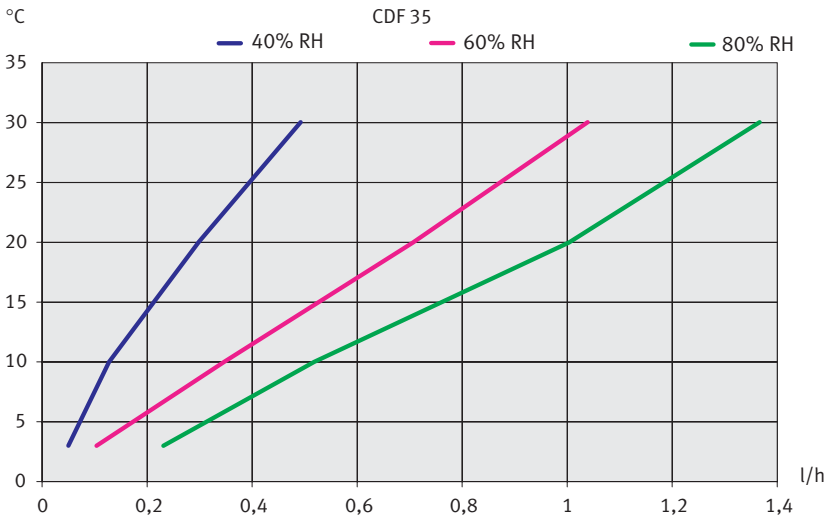
Active, demand-controlled defrosting is incorporated in the electronic control. A sensor on the evaporator coil ensures that the evaporator is only defrosted when required. The evaporator coil is defrosted by means of hot refrigerant bypassing the condenser and being fed through the evaporator.

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

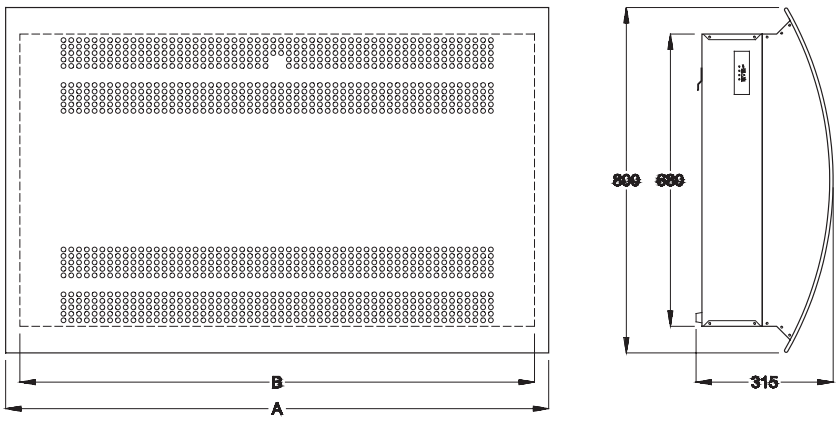
## TECHNICAL DATA

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

## CAPACITY CURVES

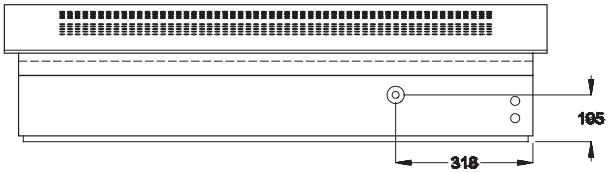


## DIMENSIONS

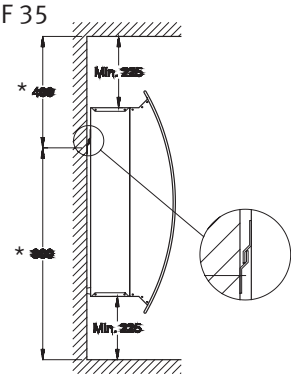



| | A | B |
|---|---|---|
| CDF 35 | 950 | 890 |

Drain outlet position

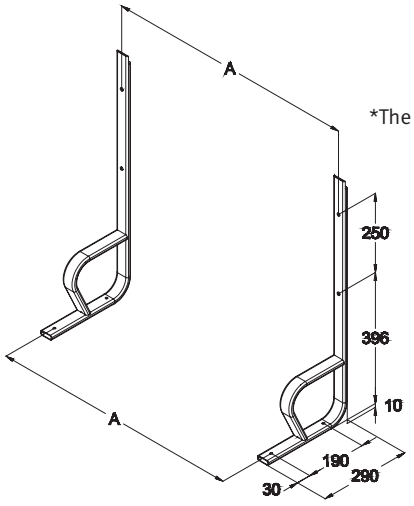


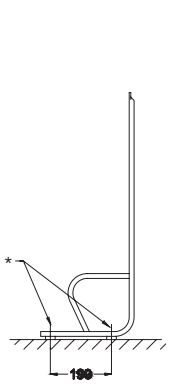

Recommended placing of the CDF 35

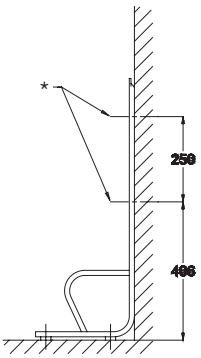



*The dimensions indicate the placing of the wall mounting strip

Floor mounting kit




*To be fixed to the floor or the wall

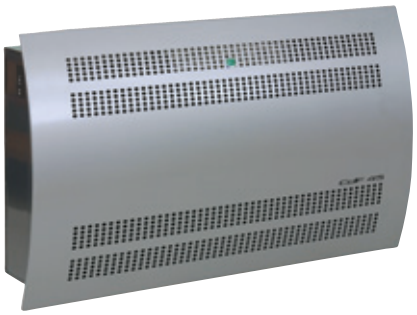
| | A |
|---|---|
| CDF 35 | 645 |

## ACCESSORIES

Room hygrostat
Floor mounting kit
Ext. failure monitoring

All dimensions are in mm

# CDF 45

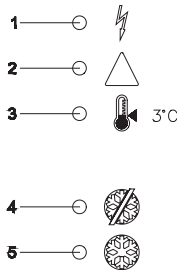


## FUNCTION

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. 5ºC higher than at the inlet.

## CONSTRUCTION

- The CDF 45 is built into a hot-galvanized sheet metal cabinet
- All external and internal parts of the cabinet are enamel powder painted
- 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 ½" 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 (optional extra)




## 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 3ºC – the dehumidifier is switched off. The dehumidifier starts again automatically when the ambient temperature increases to more than 3ºC
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

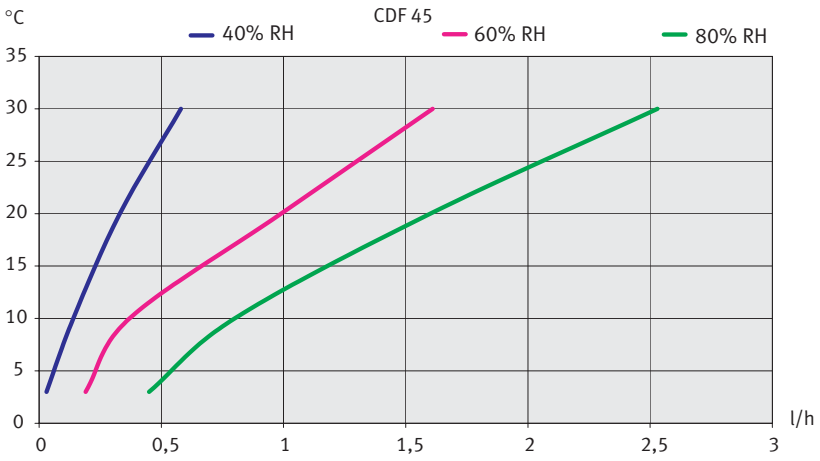
Active, demand-controlled defrosting is incorporated in the electronic control. A sensor on the evaporator coil ensures that the evaporator is only defrosted when required. The evaporator coil is defrosted by means of hot refrigerant bypassing the condenser and being fed through the evaporator.

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

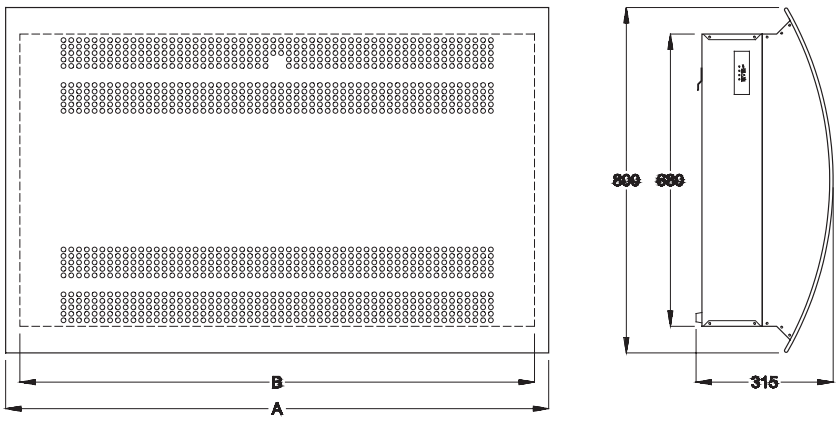
## TECHNICAL DATA

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

## CAPACITY CURVES

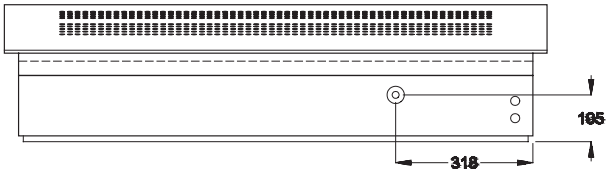


## DIMENSIONS

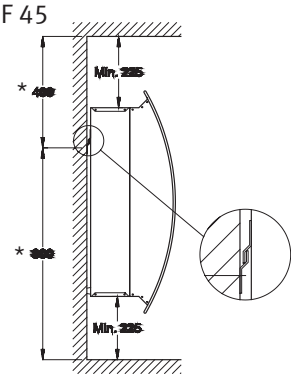



| | A | B |
|---|---|---|
| CDF 45 | 1260 | 1200 |

Drain outlet position

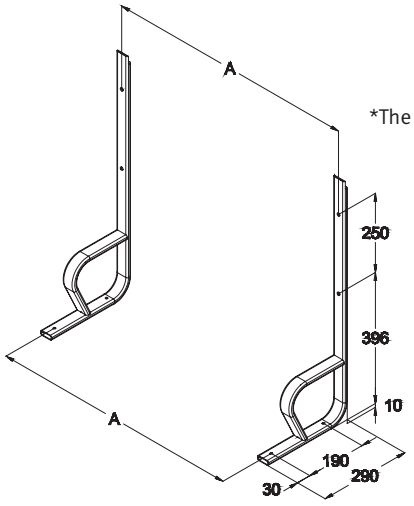


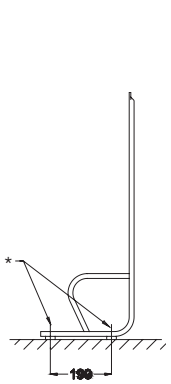

Recommended placing of the CDF 45

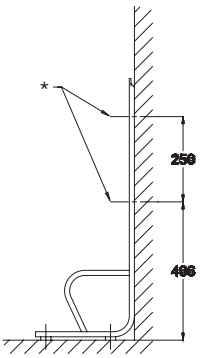



*The dimensions indicate the placing of the wall mounting strip

Floor mounting kit




*To be fixed to the floor or the wall

| | A |
|---|---|
| CDF 45 | 950 |

## ACCESSORIES

Room hygrostat
Floor mounting kit
Ext. failure monitoring

All dimensions are in mm