



## APPLICATIONS

De-stratification units are designed to mix air within high bay factories and warehouses. This has two benefits; bringing heated air back down to floor level reduces the need for additional heat and reducing the air temperature at roof level reduces the temperature difference across the fabric of the roof, hence reducing the heat lost through the roof fabric.

They can also be used where the air flow produced by the space heaters is insufficient to give the required air movement for even heating of the building.

Fitting de-stratification units in high roofed buildings can significantly reduce overall heating costs.

## FEATURES

- Bi-directional louvres for maximum control of air direction
- Textured powder coated steel cabinet
- Totally enclosed permanently lubricated motor (IP55)
- Thermostat for automatic control
- Optional variable speed control
- Eye-bolts for chain/wire suspension

## CONTROL

The CDF unit is fitted with an integral thermostat which should be set at 2-3°C above the required building temperature.

Double deflection louvres are fitted to spread the airflow when the fans are mounted below recommended mounting heights. They should be adjusted to give an acceptable airflow at floor level with an even spread. Optional fan speed controllers can be fitted to give even greater control of the airflow and noise level.

The CDF-SC controllers allow variable speed control of individual fans, CDF-SC3 for CDF-315 and 400 and CDF-SC5 for CDF-450.



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## INSTALLATION

The fan unit should be mounted at approximately one metre below the highest point of the roof. Multiple units should be spread around the area avoiding columns, beams and light fittings which may disrupt the airflow.

The unit is provided with eye bolts to allow suspension from chain or wire rope. It is important to check that the structure and fixings are substantial enough to take the weight of the unit. It may also be appropriate to make provisions for cleaning and servicing the unit.

All units are for 230V operation and should be connected via a suitably fused and isolatable power supply.

Connection should be via a 2 pole switched connection unit having a contact separation of at least 3mm in all poles. The unit must be earthed.

All electrical connections should be made by a suitably qualified person in accordance with the latest edition of the IEE Requirements for Electrical Installation (BS 7671:2008).

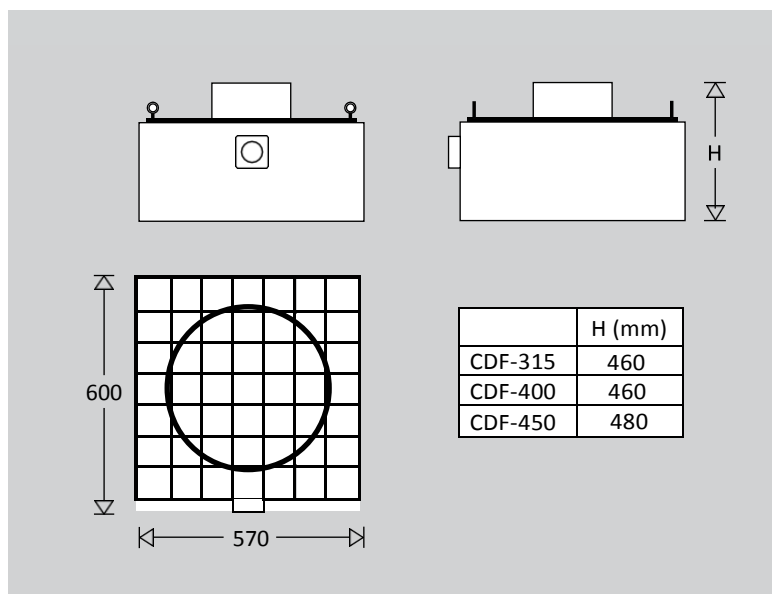
## SELECTION

- Based on the required mounting height of the unit select the most appropriate unit.  
CDF-315 between 3m and 9m  
CDF-400 between 5m and 13m  
CDF-450 between 6m and 18m
- Calculate the volume of the building ( $L \times W \times H$ ) based on two air movements per hour the number of units required is given by  $(2 \times L \times W \times H / V)$  where V is the air flow volume of the fan.

Example:

A building 60 m x 30m x 9m requires de-stratification fans for an efficient space heating installation.

- Mounting height 8m thus CDF-315 and CDF-400 are possible.
- Volume of building =  $60 \times 30 \times 9 = 16,200\text{m}^3$   
at 2 air changes =  $16200 \times 2 = 32,400\text{m}^3$
- Using CDF-315 units  $32,400/2,150 = 15$  units required. Using CDF-400 units  $32,400/5,000 = 7$  units required.



CAT No.		Volume m³/hr	Watts	Volts	Length mm	Height mm	Depth mm	Weight kgs	Trade Price
<b>CDF-315</b>	De-stratification fan	2150	90	230	600	570	460	18.0	£510
<b>CDF-400</b>	De-stratification fan	5000	180	230	600	570	460	20.0	£530
<b>CDF-450</b>	De-stratification fan	7000	370	230	600	570	460	24.0	£615
<b>CDF-SC3</b>	3 Amp Fan speed controller for CDF-315/400			230	147	46	87	1.0	£50
<b>CDF-SC5</b>	5 Amp Fan speed controller for CDF-450			230	147	46	87	1.0	£70

**Order Faxline: 01450 377800**