

Cartivel HVC Ltd

Cart DSF Installation Manual

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Welcome to The Cart DSF Manual

Introduction

The Cartivel DSF range is intended for high level mounting in buildings with the aim of preventing temperature gradients and achieving correct heat distribution.

The Cartivel DSF range is comprised of six models. Details are shown in the technical data table in this manual.

Cartivel DSF fan units are automatic in operation. They are controlled by an integral thermostat which turns the fan unit on when high level temperature reaches the thermostat set point. The DSF fan unit will continue to run until the high level temperature falls below thermostat set point.

It is recommended that in general, the thermostat setting on the DSF fan unit should be the same as the set point temperature on the buildings' heating system controls.

Cartivel DSF fan units are supplied fully pre-wired, and come with plug-in 2m flying lead.

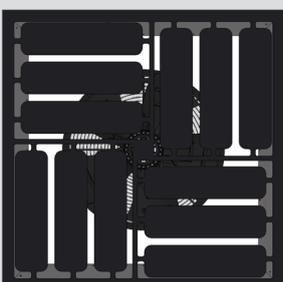
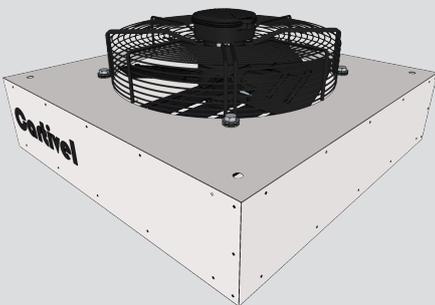
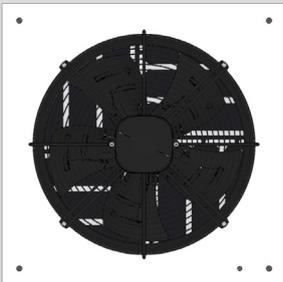




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Installation

Suspending The Units

Cartivel DSF destratification fan units have four fixing points in the top panel. There are three recommended methods of suspending DSF fan units from the building roof structure:

- Cable suspension - Using factory fitted eyebolts, attach a suitable sized suspension cable to each fixing point via a snap hook. A Cartivel fixing kit for this method is available.
- Chain suspension - Using factory fitted eyebolts, attach a suitable sized suspension chain to each fixing point via a 'D' shackle.
- Threaded rod - Remove the factory fitted eyebolts and insert threaded rod (M10) into each fixing point.

Electrical Connection

- Cartivel DSF fan units are supplied with a plug-in flying lead. This lead should be used to make the electrical connection to the fan unit. No other internal wiring is required.
- The DSF unit should be connected to a high level fused isolator.
- Always isolate the unit before carrying out any work on it.

Louvres

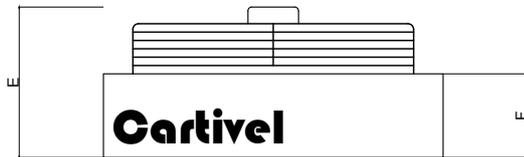
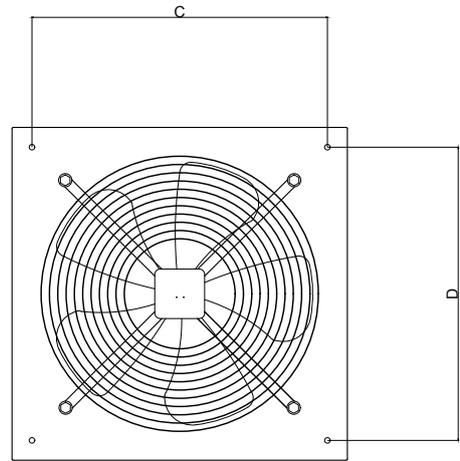
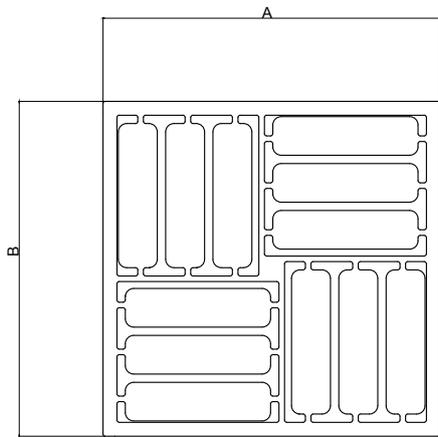
- On the base of the DSF units are a series of twist and set outlet louvres.
- It is essential that these louvres be opened before the fan unit is switched on for the first time.
- The louvres are intended to ensure that the airflow from the fan unit is correctly distributed. Each louver should be opened to an angle of at least 45°.
- Adjust the louver settings to achieve correct effect.

Technical Details

	DSF20	DSF40	DSF60	DSF80	DSF100	DSF120
Airflow (m ³ /h)	2450	3955	6800	8510	9700	11435
Rec. Mounting Height Max (m)	9	10	12	14	18	20
Rec. Mounting Height Min (m)	4	6	7	8	9	10
Electrical Supply (V)	230	230	230	230	230	230
Start Current (A)	1.9	2.4	4.8	6.8	6.6	10.6
Run Current (A)	0.65	0.82	1.7	2.4	2.35	3.75
Weight (kg)	12	13	16	21	25	25
Noise Level (dBA)	49	50	50	53	55	58



Dimensions



	A	B	C	D	E	F
Cart DSF20	606	606	532	532	260	155
Cart DSF40	606	606	532	532	260	155
Cart DSF60	606	606	532	532	260	155
Cart DSF80	744	744	652	652	300	175
Cart DSF100	744	744	652	652	300	175
Cart DSF120	744	744	652	652	300	175



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