ENGINEERING
TOMORROW

Fact Sheet

Panel Through Mount accessory

Electronics can be kept separate from cooling air by mounting the VLT® drive through the back of the cabinet.

The major part of the generated heat from VLT® drives is removed via the heat sink. Mounted through the back of a panel wall cooling air heat can be removed without risking damage to the electronics even if dust, heat, moisture, or corrosive elements are present.

Electronics are kept separate from cooling air in a closed and protected environment.

It is possible to impose forced cooling on the heat sink by adding a back plate to create a duct for cooling air. This way, the built-in fan will force cooling air through the duct.

A second possibility is to mount the heat sink in a duct, with a cooling air stream created by external fans either dedicated for the purpose or part of a process close to the drive
All parts required to mount a standard drive through a panel are included in the kit.

Available for

- VLT® AutomationDrive
- VLT® HVAC Drive
- VLT® AQUA Drive

Frames and enclosures

- A5: IP 55
- B1, B2, C1, and C2: IP21

Cooling
solution for saving cabinet space, textile mills/installation in dust and fluff, and for using external cooling source

Feature	Benefit
Heat sink of the drive extends into separate cooling channel	– Only a minor part of generated heat stays inside the cabinet – Reduces the cost of cabinet A/C system – Less cabinet space (depth) is required – The drive can be tied into a common cooling duct system – Easy maintenance – cooling ribs can be cleaned without affecting the electronics
Gasket between heat sink and electronics side of the drive	– Electronics are IP 55 protected against particles, humidity or aggressive substances
Flat, single-piece frame, with mounting accessories	– Easy to mount onto a standard drive – All parts included in the kit – Frame can be reversed if mounting from the back is wanted
Built-in fan can be removed	– Allows use of external fan or process air to cool the drive

The back plate (must be purchased separately) is used if an air duct is not available.

Mounted in a duct construction the built-in fan can be removed, and the cooling air provided by an external fan.

Dimensions

Frame		A5	B1	B2	C1	C2
Power range [kW]	VLT® AutomationDrive	0.25 – 7.5	11 – 15	18.5 – 22	30 – 45	55 – 75
	VLT® AQUA / HVAC Drive		11 – 18.5	22 – 30	37 – 55	75 – 90
Standard drives	Height [mm]	420	480	650	680	770
	Width [mm]	242	242	242	308	370
	Depth [mm]	195	260	260	310	335
Panel Through Mount frames	Height [mm]	510	570	740	776	856
	Width [mm]	332	332	332	386	448
	Depth* [mm]	120	151	151	160	161

** From the mounting frame to the back of the heat sink*

Danfoss VLT Drives, Ulsnaes 1, DK-6300 Graasten, Denmark, Tel. +45 74 88 22 22, Fax +45 74 65 25 80, www.vlt-drives.danfoss.com, E-mail: info@danfoss.com