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Fact Sheet

Danfoss packaged solutions
Vertical Bypass Panel Assemblies

Danfoss HVAC panels are known for their product quality and premium design standards. With this quality comes a wide array of choices among the standard base products.

The Danfoss portfolio of drive panels includes the Vertical Bypass configuration to insure you can have your Danfoss drive panel your way. The design includes market-preferred bypass controls from your preferred panel supplier, with maximum geometric flexibility to meet your strict installation constraints.

This panel is:

- Structured around our FC102 VLT HVAC Drive
- Same performance as our traditional panel with smaller footprint
- Sleek vertical layout that requires less horizontal wall space
- Same high quality components and design as our traditional panel.
- UL/CUL 508 listed and seismically certified.
- NEMA UL Type 1 design.
- Non-bypass or 3 contactor bypass.
- Inherent phase loss/imbalance and brown-out protection to prevent product damage and downtime in adverse power quality installations.
- 24VDC control power for all but the largest sizes.

Options include:

- 208V-240V thru 60 HP, 460V and 600V thru 125HP
- Fused Disconnect or Circuit Breaker Disconnect
- Electronic or Electromechanical Bypass
- 100KA SCCR
- Embedded fieldbus communication protocols
- Various fieldbus and I/O option cards

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Inherent in the vertical bypass panels

The engine driving the Danfoss panel dependability is a 24VDC switch mode power supply that greatly improves performance and dependability beyond traditional CPT power designs.

The Danfoss panel power supply inclued on P2, P3, and P4 frame sizes provides steady, dependable control power, even when the input voltage drops more than 30%, virtually eliminating contactor malfunction due to brown-out conditions or phase loss. On P5 frame sizes, a voltage sensing relay provides similar protection.

Danfoss drives perform better because of their robust DC link reactor, standard in every FC102 VLT HVAC Drive. This device offers comparable harmonic performance to AC input reactors without detrimental input voltage reductions, and without the extra heat that would typically be removed via additional fans or other devices.

	Panel Power Sizes					Panel Dimensions in Inches					
	Bypass and Non-Bypass			Bypass	Non-Bypass	Bypass			Non-Bypass		
Frame Size	208V & 230V	230V	460V & 600V	208V		Length	Width	Depth	Length	Width	Depth
P2	7.5 - 15 HP		15 - 25 HP			41.8	9.1	16	29.9	8.9	11.5
P3	20 HP	25HP	30 - 50 HP		25 HP	43.2	9.6	17.7	34.3	9.6	11.2
P4	30 - 40 HP		60 - 75 HP	25 HP		54.4	12.7	18	39.6	12.7	14.8
P5	50 - 60 HP		100 - 125 HP			59.6	15.1	18.0	45.8	15.1	14.8

VLT | VACON

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