

Variable Frequency Drive (VFD)



For 3-Phase Air Curtain Models

atmosphere is everything

14716 S. BROADWAY, GARDENA, CA 90248 • Ph: (310)532-1555 Fax: (310)-532-3030 • www.marsair.com
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Total HP	Remote Mounted			Description
	208-230V	460V	575V	
up to 2	27-001S	27-014S	27-019S	VFD, up to 2 HP, 3Ø, NEMA 1
3-5	27-016S	27-028S	27-021S	VFD, 3-5 HP, 3Ø, NEMA 1
7½	27-002S	27-008S	27-044S	VFD, 7½ HP, 3Ø, NEMA 1
10	27-003S	27-009S	27-045S	VFD, 10 HP, 3Ø, NEMA 1
15	27-004S	27-010S	27-017S	VFD, 15 HP, 3Ø, NEMA 1

Higher HP ratings available – please consult factory for details.

VFDs are rated for 50Hz/60Hz and therefore are compatible with 190-220V, 380-415V, and 500V power supplies (respectively, per above).

*NOTE: VFDs are not compatible with LPV2 or LPN2 models. They are not recommended for N2 or NH2 models.

Standard Sequence of Operation (SOO):

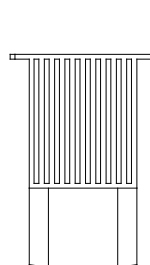
- Door switch turns unit on when the door is open.
- Door switch turns unit off when the door is closed.
- Interface buttons on the VFD:
 - Controls motor speed
 - High speed setting is factory set to 60Hz.
 - Low speed setting can be adjusted in the field.
 - For heated units, the minimum speed setting is ¼ of the maximum RPM.

Features:

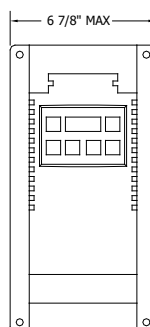
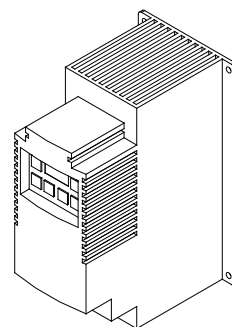
- ❖ 0-60 Hz output frequency
- ❖ Multiple speed presets
- ❖ Adjustable acceleration and deceleration times
- ❖ Adjustable carrier frequency
- ❖ LED display
- ❖ Constant torque with adjustable current limit
- ❖ NEMA 1 enclosure with finger safe terminals
- ❖ UL Listed
- ❖ 1 year parts warranty

Options and Accessories:

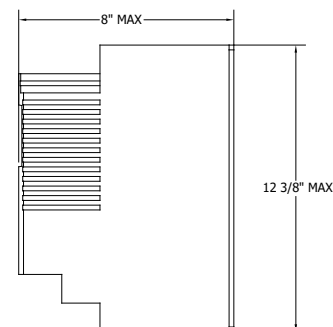
- ❖ Custom programming and SOO (e.g. time delay) available – specify at time of order.
- ❖ BACnet capabilities – consult factory.
- ❖ Additional speed packages available (up to three presets).
- ❖ Single phase input (3 phase output) available.
- ❖ Custom voltages available – consult factory.
- ❖ NEMA 4X (washdown) models available.
- ❖ VFD can be integrated to operate with [Motor Control Panel \(MCP\)](#).
 - MCP-VR adder required for use with MCP.
- ❖ For electric heated air curtains, VFD is mounted and wired on the right-hand side of unit.
 - Minimum 20" service clearance required.



Top View



Front View



Side View