

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, LPN2, WMI and WMH models. They are not recommended for N2 or NH2 models.

Standard Sequence of Operation (SOO):

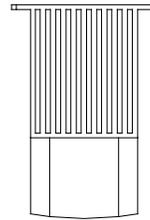
- [Door switch](#) turns unit on when the door is open.
- Door switch turns unit off when the door is closed.
- Interface buttons on the VFD:
 - Controls motor speed
 - High speed setting is factory set to 60Hz.
 - Low speed setting can be adjusted in the field.
 - For heated units, the minimum speed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

Features:

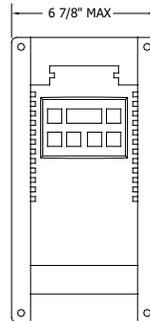
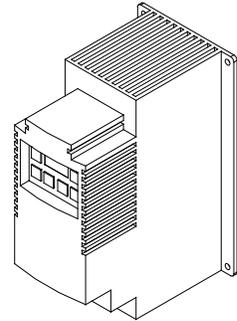
- ❖ 0-60 Hz output frequency
- ❖ Multiple speed presets
- ❖ Adjustable acceleration and deceleration times
- ❖ Adjustable carrier frequency
- ❖ LED display
- ❖ Constant torque with adjustable current limit
- ❖ NEMA 1 enclosure with finger safe terminals
- ❖ UL Listed
- ❖ 1 year parts warranty

Options and Accessories:

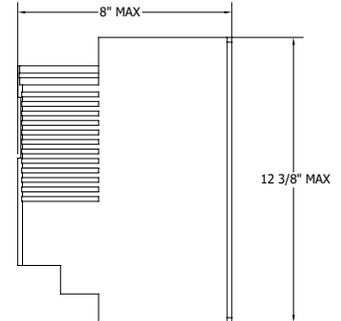
- ❖ Custom programming and SOO (e.g. time delay) available – specify at time of order.
- ❖ BACnet capabilities – consult factory.
- ❖ Additional speed packages available (up to three presets).
- ❖ Single phase input (3 phase output) available.
- ❖ Custom voltages available – consult factory.
- ❖ NEMA 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

NOTE: MARS AIR SYSTEMS, LLC reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions, or replacements for previously purchased equipment.