



Document Title:	Avid Application Note MV3000 Blower Fans
Document Number:	AAN-033-REV_00
Author(s):	Mark Woods
Status:	Unrestricted

Approvals

Mark Woods 22 Nov 2020

Author Name - Author, Date

Loui Savell November 2:

Confidential

The information contained in this Document and the Appendices hereto is disclosed in the strictest commercial confidence and on the understanding that no part thereof is to be presented or divulged to any party or copied, reproduced, distributed, stored or utilized without the prior express written permission of Avid Controls Inc.

Contents

1.	Terms and Definitions	. 2
	References & Related Documents	
3.	Document Purpose and Overview	. 2
	Document Contents	
4.1	Introduction	. 2
4.2	Fan Summary Chart	. 3
	Comparison of Fan Performance	
	Notes	
	Povision History	1

IMPORTANT NOTICE

Avid Application Notes are informal communications, drafted by technicians to share knowledge, procedures, or offer solutions to common issues. This information is strictly for informational sharing purposes only and in no way should replace information found in product Data Sheets or other technical manuals. Contact Avid Controls directly with any questions or if additional clarification is needed.

+1-281-640-8600 | info@avidcontrolsinc.com | www.avidcontrolsinc.com



1. Terms and Definitions

<u>DELTA</u>	MV3000 DELTA IGBT Module
--------------	--------------------------

2. References & Related Documents

Document Number	Document Title	Notes
DTS-01302-ASY-A	31V5200-10-A Standard Fan Data Sheet	
DTS-01231-ASY-A	MVC3014-4001-A High Performance Fan Data Sheet	
DTS-01357-ASY-A	31V6900-10-A High Performance Fan Data Sheet	
T1689	Air Cooled DELTA Technical Manual	

3. Document Purpose and Overview

This guidance note is to assist customers in selecting and replacing MV3000 fan units used with air cooled Delta products.

4. Document Contents

4.1 Introduction

The Air-Cooled DELTA system relies on fans for cooling. One fan is required per DELTA module. The original equipment manufacturer (OEM) supplied two fan options:

a) Standard Fanb) High-Performance Fan31V5200/1031V6900/10

The standard fan was single phase and the High Performance was a three phase unit. With the advent of the European Directive on Energy Efficiency in 2013, the large fan was withdrawn from sale as it did not comply with the new European regulations. A replacement High Performance Fan was introduced:

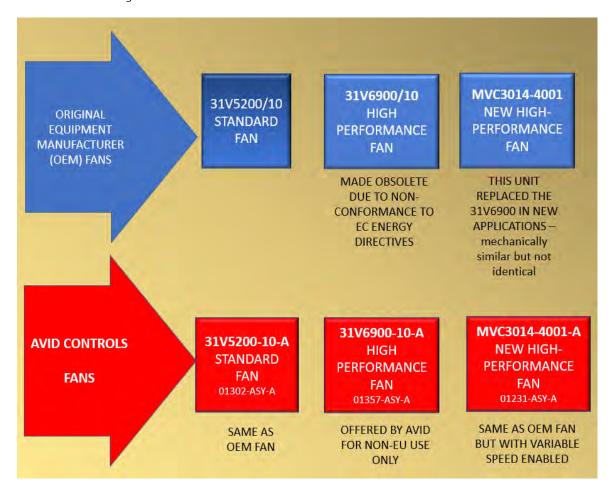
c) New High-Performance Fan MVC3014-4001

This was a single-phase unit with over 2 x the flow rate of the Standard Fan.



Avid Controls can supply all three fan types.

4.2 Fan Summary Chart



4.3 Comparison of Fan Performance

Avid P/N	Model Number	Supply Voltage	Capacity	Note
01302-ASY-A	31V5200-10-A	230V 1 Phase	630m ³ /hour (797 CFM) @ 733Pa	Standard
01231-ASY-A	MVC3014-4001-A	230V 1 Phase	1355m ³ /hour (370 CFM) @ 275Pa	High Performance
01357-ASY-A	31V6900-10-A	400V 3 Phase	900m ³ /hour (525 CFM) @ 900Pa	Non EU only
01147-OTS-A	LSR-HCF-575-01	575V/600V 3 Phase	900m³/hour (525 CFM) @ 900Pa	Non EU only



4.4 Notes

- a) Each fan metal housing is designed specifically for its own fan and so it is not possible to interchange fans and housings.
- b) To use the MVC3014-4001-A in fixed speed mode, refer to the Data Sheet



31V5200-10-A



MVC3014-4001-A

5. Revision History

Rev.	Date	Author(s)	Changes
00	22 th Nov 2020	Mark Woods	Document Created with AQS