



# DATA SHEET

## ECo-Motor™

Efficient | Dependable | Variable

Powered Aire's ECo-Motor™ brings ground breaking efficiency and functionality to the air curtain industry. Air curtains powered by the Eco-Motor™ have Variable Speed Control featuring an RPM turn down ratio of 2:1. Units can be controlled by factory furnished Variable Speed Dial or Digital Logic Controller. End-users can also enable/activate air curtains by using their Building Management System (BMS) or door controller.

<b>VOLTAGE</b>	120, 208-240		
<b>HZ</b>	50/60		
<b>HP</b>	3/4 HP		
<b>RPM</b>	1650		
<b>Nameplate AMPS per MOTOR *</b>	11.1 (120)	6.1 (208)	5.5 (240)
<b>MOTOR TYPE</b>	ODP (Open Drip Proof)		
<b>SPEED CONTROL</b>	Optional Variable Speed Dial (Unit or Remote Mounted)		

### SAMPLE SPECIFICATION

Motor(s) shall be electrically commutated (EC) motor(s) specifically designed for air curtain applications. Time between motor activation and maximum speed shall be 1 second or less. Motor(s) shall be permanently lubricated with dual extended shafts and heavy duty ball bearings. Motor speed shall be controllable down to 50% of maximum speed (2:1 turn-down ratio). Motor(s) shall be a minimum of 80% efficient at all speeds. \*Permanent Split Compacitor (PSC) Motors are not acceptable.

\* Reflective of higher AMP draw during startup; AMPs will drop significantly after startup.

### SAMPLE SCHEDULE

TAG	AREA SERVED	MFR/ MODEL	AVG FPM at high speed	CFM AT NOZZLE at high speed	SUPPLY VOLTAGE	TOTAL AMPS	HEATER VOLTAGE	KW	OUTLET UNIFORMITY	ACCESSORIES	NOTES
AC-1	Entry Door	Powered Aire ETD-2-72	3,696	5,082	120/1/60	22.2	-	-	95%	A, B, C, D, E, F	Single point power.
AC-2	Entry Door	Powered Aire ETD-2-72	3,696	5,082	208/1/60 or 208/3/60 / 240/1/60 or 240/3/60 / 480/3/60 or 575/3/60 /	5.2 6.3	-	-	95%	A, B, C, D, E, F, H	Single point power; Control panel with motor transformer.
AC-3	Entry Door	Powered Aire ETD-2-72E	3,696	5,082	208/1/60+120/1/60 or 208/3/60+120/1/60 / 240/1/60+120/1/60 or 240/3/60+120/1/60 / 480/3/60+120/1/60 or 575/3/60 +120/1/60 /			20 480/3/60 or 575/3/60	95%	A, B, C, D, E, F, G	2 elec. supplies: 120 to motors 208/240/480/575 to heaters

#### ACCESSORIES:

- |                              |  |
|------------------------------|--|
| A. Powered Aire ECo-Motors   | E. Remote mounted variable speed dial                  |
| B. Stainless Steel Case      | F. Disconnect switch (one for each supply)             |
| C. Magnetic door switch      | G. Remote mounted thermostat                           |
| D. Built-in time delay relay | H. Remote mounted control panel with motor transformer |



109 Mortensen Rd. | Greenville, PA 16125  
Phone: 888-321-2473 | www.poweredaire.com

