



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.

VOLTAGE	120, 208-240		
HZ	50/60		
HP	3/4 HP		
RPM	1650		
Nameplate AMPS per MOTOR *	11.1 (120)	6.1 (208)	5.5 (240)
MOTOR TYPE	ODP (Open Drip Proof)		
SPEED CONTROL	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:

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|------------------------------|--|
| 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 |



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