

# Specification Sheet - Packaged Electric Make-Up Air Heater

## STANDARD EQUIPMENT

- Integrated powered inlet damper
- WarmFlo digital proportional temperature control
- Variable CFM, auto adjust based on CT input
- Included CT detects LO/MED/HI exhaust fan levels
- Full element modulation
- Inlet and supply air temperature sensors
- Three CT inputs available for multiple fan applications
- LCD display:
  - Convenient CFM exhaust fan calibration
  - Real time estimated CFM
  - Desired target temperature
  - Incoming and supply temperature
- Listed for horizontal or vertical installation
- Unique design allows for simplified installation
- Hi-limits, automatic and manual reset
- Multiple interfacing options to external controls
- Aluminum mesh permanent washable filter
- Thermostat end switch connection point
- Includes chain for suspended installations
- Can be easily wall-hung
- 20-year finned rod element warranty
- 2-year parts warranty
- Made in the USA

## TEMPERATURE RISE & CFM CHART - Selecting the best model for your application:

- 1 Choose your desired temperature rise (this is the difference between the coldest design day temperature and desired duct air temperature).
- 2 Move across the chart from your desired temperature rise to the CFM required (you may have to select a model with a higher CFM and adjust down to your required CFM at installation).

Example: In an application where your coldest day averages 0° F and you require 50° F duct air, choose 50° F temperature rise. If you require 400 CFM you would select the MA10.

Model →	SINGLE PHASE MODELS						THREE PHASE MODELS			
	MA01	MA02	MA05	MA10	MA15	MA20	MA03	MA06	MA14	MA22
	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
80° F	39	71	197	395	604	790	119	237	553	869
70° F	45	81	225	451	677	903	135	271	632	993
60° F	53	95	260	526	790	1053	158	316	737	1160
50° F	63	114	316	632	948	1264	190	379	885	N/A
40° F	79	158	N/A	N/A	1185	N/A	237	N/A	N/A	N/A
30° F	105	168	N/A	N/A	N/A	N/A	316	N/A	N/A	N/A

## SPECIFICATIONS

Model	kW	Btu/h	Amps	Internal CB	Motor FLA	Motor HP	Phase	Voltage	CFM		Max Fuse/HACR	Duct Connection	Shipping Weight
									Max	Static			
EM-MA01-120-1-06	1	3,410	8.3	N/A	0.5	1/16	1-50/60	120	150	0.03"	15	6"	31
EM-MA02-120-1-06	1.6	5,460	13.3	N/A	0.5	1/16	1-50/60	120	150	0.03"	20	6"	32
EM-MA05-240-1-08	5	17,070	20.8	N/A	0.4	1/10	1-50/60	240	350	0.03"	30	8"	59
EM-MA10-240-1-10	10	34,150	41.6	N/A	0.8	1/5	1-50/60	240	625	0.03"	60	10"	65
EM-MA15-240-1-14	15	51,220	62.4	60 + 30	1.7	1/3	1-50/60	240	1050	0.25"	90	14"	115
EM-MA20-240-1-14	20	68,300	83.2	60 + 60	2.5	1/2	1-50/60	240	1200	0.25"	120	14"	120
EM-MA03-208-3-08	3	10,240	8.3	N/A	0.4	1/10	3-50/60	208	350	0.03"	15	8"	55
EM-MA06-208-3-08	6	20,480	16.7	N/A	0.4	1/10	3-50/60	208	350	0.03"	25	8"	58
EM-MA14-208-3-14	14.4	49,170	40.0	50	1.7	1/3	3-50/60	208	900	0.25"	50	14"	115
EM-MA22-208-3-14	21.6	73,760	60.0	50 + 30	2.5	1/2	3-50/60	208	1250	0.25"	80	14"	125



Intertek

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# Installation Specifications (Reference Installation & Operating Instructions, EI906)

This product is designed for zero clearance, but use the following mounting and spacing criteria:

1. Unit can be installed vertically or horizontally. When vertical, inlet must face down.
2. When using CT doughnut, use Class II low voltage wiring methods to connect CT to Make-Up Air unit.
3. Make mounting provisions for a 1" air space at the top.
4. The sides, any location, can be in direct contact with wood framing materials.
5. No materials shall be in contact with the cabinet housing which has a flame point less than wood, 300° F (150° C).
6. Product shall be installed in a conditioned space only.
7. Heating elements are locked out when entering air temperature is > 55° F (12.8° C).

