

# Vestibule Exception

# MODEL CHA-E

For openings up to 14 feet high

PAAC-105

Electric Heat

The CHA-E electrically heated air curtain has been tested in accordance with ANSI/AMCA 220 and meets the criteria for use as an exception to the vestibule requirement in Climate Zones 3 and above. It is specifically designed to be dropped into the ceiling above customer entryways where a standard air curtain is not desired. The CHA-E is for customer entryways up to 14 feet high. Comes standard with a decorative white grille. Other colors or metals are available upon request.

## Key Design Features

- 18-gauge galvanized steel case installed above the ceiling.
- Heavy duty 3/4 HP motors. 1630 rpm each.
- High efficiency discharge plenum ensures that air being discharged fills the entire width and height of the opening. This also lowers the operational sound level.
- Directional air foil vane factory set to facilitate deflection of air stream +/- 20 degrees.
- Includes control panel.

The white grille is standard with this model. There is an additional charge for other colors or metals.



### Recommended Controls

- Remote mounted On/Off Switch
- Thermostat
- Time Delay Relay
- Magnetic Door Switch for activation

Sound level: 63 dBA

(Measured 10 ft. from unit in a free field based on a 1 motor unit)

	CHA 1-36E	CHA 1-48E	CHA 1-60E	CHA 2-72E	CHA 2-84E	CHA 2-96E	CHA 2-108E	CHA 3-108E	CHA 3-120E	CHA 3-132E	CHA 4-144E
Nozzle width (in.)	36	48	60	72	84	96	108	108	118	133	145
Average Outlet Velocity (FPM)	2443	2338	1923	2443	2383	2338	2107	2443	2401	2367	2443
Air Flow Rate (CFM)	1197	1543	1596	2394	2740	3086	3139	3591	3937	4283	4788
Outlet Velocity Uniformity	86%	79%	82%	86%	79%	79%	79%	86%	79%	79%	86%
Power Rating (kW)	0.59	0.70	0.73	1.18	1.29	1.40	1.43	1.77	1.88	1.99	2.36
Number of motors	1	1	1	2	2	2	3	3	3	3	4
Motor HP	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Temp. Rise Degrees (F)	26.7	20.7	20.0	26.7	23.3	20.7	20.3	26.7	24.3	22.4	26.7
Weight	179	195	225	358	371	384	397	537	550	563	716

### Single Phase Motor

Voltage Available: 120 208/230 480 575

Amp Draw Per Motor: 8.0 3.6 2.0 1.5

### Velocity Projection Model:

Distance From Nozzle: 40" 80" 120"  
CHA-1-36E Core Velocity (fpm): 1044 833 711

\* For three phase motors consult factory. \*\*For dual speed motors consult factory.

*Powered Aire Inc. certifies that the Model CHA-E Electrically Heated Air Curtain shown herein is licensed to bear the AMCA Seal for Air Performance. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.*

The AMCA Certified Ratings Seal applies to airflow rate, average outlet velocity, outlet velocity uniformity, velocity projection and power rating at free delivery only. Rated data shown are based on tests of units with heating elements present but not in use.



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MADE IN THE USA