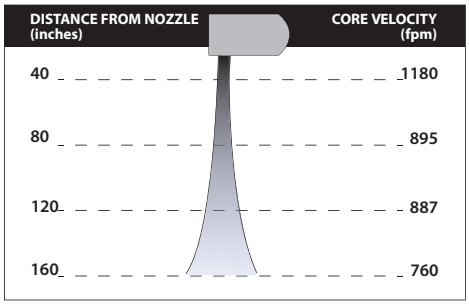
BERNER AIR CURTAINS

COMMERCIAL HIGH PERFORMANCE 10
Electric Heated Air Curtain - Intelliswitch™
Data Sheet

Vestibule Exception Compliance: up to 14 ft. AFF / Optimal Environmental Separation: up to 10 ft. AFF



Berner International certifies that the air curtains shown herein are licensed to bear the AMCA Seal. 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. Rated data shown is for base (electric heated) units. The AMCA Certified Ratings Seal applies to airflow rate, average outlet velocity, outlet velocity uniformity, velocity projection and power rating at free delivery only.

2 Year Limited Warranty

Made in USA

indoor use

MODEL	Nozzle Width (in)	Max Vel. at Nozzle (fpm)	Avg. Outlet Vel. (fpm)	Air Volume (cfm)	Outlet Vel. Uniformity	Power Rating (kW)	Motor(s) @ hp	Max. Electric Capacity (kW)	Heater Output (MBH)	Air Temp. Rise (°F)	Net Wt. (lbs)
CH10-F-1036E	36.00	3,552	1,968	1,353	80%	0.45	1 @ 1/2	14	47.8	33°	55
CH10-F-1042E	42.00	3,543	1,773	1,422	82%	0.47	1 @ 1/2	14	47.8	31°	57
CH10-F-1048E	48.00	3,919	1,927	1,766	92%	0.63	1 @ 1/2	14	47.8	25°	60
CH10-F-1060E	59.00	4,087	1,594	1,796	86%	0.59	1 @ 1/2	14	47.8	25°	68
CH10-F-2072E	72.00	3,552	1,968	2,706	80%	0.90	2 @ 1/2	28	95.6	33°	105
CH10-F-2078E	78.00	3,552	1,863	2,775	80%	0.92	2 @ 1/2	28	95.6	32°	110
CH10-F-2084E	84.00	3,543	1,773	2,844	82%	0.94	2 @ 1/2	28	95.6	31°	115
CH10-F-2096E	96.00	3,919	1,927	3,532	92%	1.26	2 @ 1/2	28	95.6	25°	118
CH10-F-2108E	108.00	4,087	1,727	3,562	86%	1.22	2 @ 1/2	28	95.6	25°	119
CH10-F-2120E	118.00	4,087	1,594	3,592	86%	1.18	2 @ 1/2	28	95.6	25°	124
CH10-F-3132E	132.00	3,919	1,938	4,885	80%	1.71	3 @ 1/2	42	143.3	27°	166
CH10-F-3144E	144.00	3,919	1,927	5,298	92%	1.89	3 @ 1/2	42	143.3	25°	172

See sheets EP-144F-AC-DS & EP-144F-EC-DS for amp draws/total load requirements.
480/3/60 - 600/3/60 power supply includes transformer housing, See drawing CH10-F-E-480INT
NOTE: Operation of standard motor (AC) at 50Hz will generate a 17% reduction in performance; no reduction for optional EC motors.

MODEL NUMBER CONFIGURATION

CH10-F-1 036 E B-140-AC-DL-R-SS

Series	Version	# of Motors	Opening Width	Heat	Voltage	Standard kW	Motor Type	Controls Type	Opt. Display	Cabinet Finish / Opt. Cabinet Finish
CH10	F	1, 2, 3	036" - 144"	E=Electric Heated	***AC & EC motors*** B = 208/1/60* J = 240/1/60* V = 230/1/50* X = 208/3/60 Y = 240/3/60 A-XH = 480/3/60 † L-XI = 600/3/60 † K = 120/480 S = 208/480 U = 240/480 L = 120/600 M = 208/600 N = 240/600	14.0 - 42.0 (140 - 420) *See sheets EP-144 for alternate kW code*	AC (Std.) EC (Opt.)	DL=Intelliswitch - Pushbutton (Std.) CB=Berner AIR BASIC (Opt.) CM=Berner AIR BMS (Opt.)	R=Remote Display	White *(leave blank)* BK=Black **Opt. Cabinet Finish** SS=Stainless Steel CC=Custom Color

*B - Max 16.2 kW
*J and V - Max 16.2 kW or 20 kW based on # motors
† Cabinet width increases for transformer, see sheets EP-144 for available lengths and voltages

STANDARD CONSTRUCTION
- 13 ¾" high x 15 ½" deep
- 1/2 hp AC motor(s) - ten speeds
- Pushbutton interface with Intelliswitch™ digital controller
- White or black powder coated exterior
- Wall & Top Mounting
- High efficiency, low noise, articulating, three vane, Pro-V Nozzle
- Patented single stage venturi electric heater (open element)

OPTIONS
- 1/2 hp EC motor(s) - ten speeds
- Berner AIR® BASIC (smart control)
- Berner AIR® BMS (smart control with BACnet and Modbus)
- Custom Color or Stainless
- Filter (washable)

VELOCITY PROJECTION: Model CH10-F-1036E				
Distance from Nozzle (in)	40	80	120	160
Core Velocity (fpm)	1180	895	887	760
Uniformity (%)	83%	84%	92%	97%

ASHRAE 90.1-2019 vestibule exception requires, "a jet velocity of not less than 6.6 feet per second (400 fpm; 2.0 m/s) at 6.0 in (15 cm) above the floor."

Sound level measured 10' (3m) from the unit in free field:
1 motor: Min./Max. Speed: 53/56 dBA
2 motors: Min./Max. Speed: 56/59 dBA
3 motors: Min./Max. Speed: 59/61 dBA

Sound data is not AMCA certified.

Berner reserves the right to alter specifications without prior notice.

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