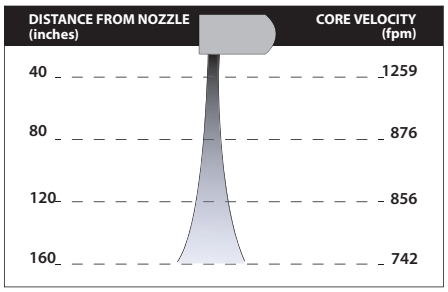
BERNER AIR CURTAINS

COMMERCIAL HIGH PERFORMANCE 10
Hot Water 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 (hot water 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	Coil Output (MBH)	Entering / Leaving Water Temp. (°F)	Water Flow (GPM)	Fluid Pressure Drop (FT. WG.)	Air Temp. Rise (°F)	Net Wt. (lbs)
CH10-F-1036W	36.00	3,522	1,916	1,317	80%	0.49	1 @ 1/2	33.2	180°/163°	4.0	0.5	23°	75
CH10-F-1042W	42.00	3,429	1,709	1,371	82%	0.50	1 @ 1/2	36.8	180°/161°	4.0	0.5	25°	80
CH10-F-1048W	48.00	4,040	1,833	1,680	90%	0.63	1 @ 1/2	45.3	180°/161°	5.0	0.8	25°	85
CH10-F-1060W	59.00	4,146	1,541	1,736	85%	0.63	1 @ 1/2	55.1	180°/164°	7.0	1.6	29°	97
CH10-F-2072W	72.00	3,522	1,916	2,634	80%	0.98	2 @ 1/2	74.3	180°/161°	8.0	2.1	26°	141
CH10-F-2078W	78.00	3,522	1,805	2,688	80%	0.99	2 @ 1/2	77.9	180°/160°	8.0	2.2	26°	148
CH10-F-2084W	84.00	3,429	1,709	2,742	82%	1.00	2 @ 1/2	81.4	180°/159°	8.0	2.2	27°	156
CH10-F-2096W	96.00	4,040	1,833	3,360	90%	1.26	2 @ 1/2	98.9	180°/160°	10.0	3.6	27°	164
CH10-F-2108W	108.00	4,146	1,656	3,416	85%	1.26	2 @ 1/2	106.9	180°/160°	11.0	4.5	29°	171
CH10-F-2120W	118.00	4,146	1,541	3,472	85%	1.26	2 @ 1/2	113.7	180°/161°	12.0	5.5	30°	178
CH10-F-3132W	132.00	4,040	1,855	4,677	80%	1.75	3 @ 1/2	140.7	180°/159°	14.0	7.7	27°	229
CH10-F-3144W	144.00	4,040	1,833	5,040	90%	1.89	3 @ 1/2	153.0	180°/159°	15.0	9.1	28°	239

See sheets EP-148F-AC-DS & EP-148F-EC-DS for amp draws/total load requirements.
480/3/60 - 600/3/60 power supply includes transformer housing, See drawing CH10-F-W-480INT

NOTES:
1. Standard connection same end supply/return.
2. Coil should be field supplied with a solenoid/control valve that energizes only when air curtain is energized. Consideration must be taken for freeze protection when necessary.
3. Coil performance based on 65°F entering air temperature.
4. Maximum leaving air temperature shall not exceed 120F.
5. Consult factory for alternate entering air & water temperatures or GPM's.
6. 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 W A-AC-DL-R-SS

Series	Version	# of Motors	Opening Width	Heat	Voltage	Motor	Controls Type	Opt. Display	Cabinet Finish
CH10	F	1, 2, 3	036" - 144"	W=Hot Water Heated	***AC & EC motors*** A = 120/1/60* B = 208/1/60 J = 240/1/60 V = 230/1/50 A-XH = 480/3/60 † A-XI = 600/3/60 †	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

**Suitable for 50 Hz*
† Cabinet width increases for transformer, see EP-148 for lengths

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
- Factory installed coil

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-1036W				
Distance from Nozzle (in)	40	80	120	160
Core Velocity (fpm)	1259	876	856	742
Uniformity (%)	83%	88%	92%	96%

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.

Berner.com Berner Air Curtains 800.245.4455
111 Progress Ave. / New Castle / PA / 16101 / USA

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