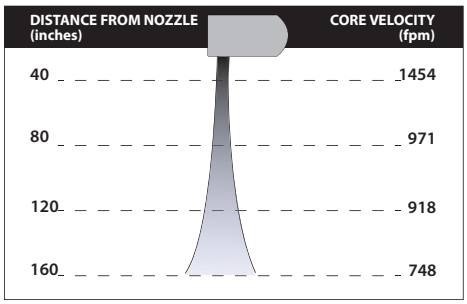
BERNER AIR CURTAINS

COMMERCIAL HIGH PERFORMANCE 10
Unheated Indoor 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 (unheated) 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.

5 Year Limited Warranty | **Made in USA** | *indoor use* | **FDA RECOMMENDED** | **USDA COMPLIANCE**

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	Net Wt. (lbs)
CH10-F-1036A	36.00	3,440	2,071	1,424	80%	0.51	1 @ ½	50
CH10-F-1042A	42.00	3,711	1,849	1,483	82%	0.52	1 @ ½	52
CH10-F-1048A	48.00	3,975	1,973	1,809	92%	0.63	1 @ ½	54
CH10-F-1060A	59.00	3,803	1,619	1,824	82%	0.61	1 @ ½	60
CH10-F-2072A	72.00	3,440	2,071	2,848	80%	1.02	2 @ ½	95
CH10-F-2078A	78.00	3,711	1,952	2,907	80%	1.03	2 @ ½	100
CH10-F-2084A	84.00	3,711	1,849	2,966	82%	1.04	2 @ ½	104
CH10-F-2096A	96.00	3,975	1,973	3,618	92%	1.26	2 @ ½	106
CH10-F-2108A	108.00	3,975	1,761	3,633	82%	1.24	2 @ ½	107
CH10-F-2120A	118.00	3,803	1,619	3,648	82%	1.22	2 @ ½	110
CH10-F-3132A	132.00	3,975	2,000	5,042	80%	1.77	3 @ ½	150
CH10-F-3144A	144.00	3,975	1,973	5,427	92%	1.89	3 @ ½	154

See sheets EP-142F-AC-DS & EP-142F-EC-DS for amp draws/total load requirements.
480/3/60 - 600/3/60 power supply includes transformer housing, See drawing CH10-F-A-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 A A-AC-DL-R-SS

Series	Version	# of Motors	Opening Width	Heat	Voltage	Motor	Controls Type	Opt. Display	Cabinet Finish / Opt. Cabinet Finish
CH10	F	1, 2, 3	036" - 144"	A=Ambient	***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-142 for lengths and voltage

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

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-1036A				
Distance from Nozzle (in)	40	80	120	160
Core Velocity (fpm)	1454	971	918	748
Uniformity (%)	88%	91%	92%	95%

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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DS-142F-DS
October, 2026

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