



# ARCHITECTURAL CONTOUR 10

## Hot Water Heated Air Curtain

### Data Sheet

Recommended for Mounting Heights to 10' (environmental separation) and 8' (insect control)

Vestibule Exception for Energy Codes ASHRAE 90.1-2019, IECC 2018, and ASHRAE 189.1, validated by AMCA certification.

#### VELOCITY PROJECTION: Model AC10-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."



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



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)
AC10-F-1036W	36.00	3,522	1,916	1,317	80%	0.49	1 @ ½	33.2	180°/163°	4.0	0.5	23°	107
AC10-F-1042W	42.00	3,429	1,709	1,371	82%	0.50	1 @ ½	36.8	180°/161°	4.0	0.5	25°	119
AC10-F-1048W	48.00	4,040	1,833	1,680	90%	0.63	1 @ ½	45.3	180°/161°	5.0	0.8	25°	138
AC10-F-1060W	59.00	4,146	1,541	1,736	85%	0.63	1 @ ½	55.1	180°/164°	7.0	1.6	29°	153
AC10-F-2072W	72.00	3,522	1,916	2,634	80%	0.98	2 @ ½	74.3	180°/161°	8.0	2.1	26°	210
AC10-F-2078W	78.00	3,522	1,805	2,688	80%	0.99	2 @ ½	77.9	180°/160°	8.0	2.2	26°	213
AC10-F-2084W	84.00	3,429	1,709	2,742	82%	1.00	2 @ ½	81.4	180°/159°	8.0	2.2	27°	234
AC10-F-2096W	96.00	4,040	1,833	3,360	90%	1.26	2 @ ½	98.9	180°/160°	10.0	3.6	27°	272
AC10-F-2108W	108.00	4,146	1,656	3,416	85%	1.26	2 @ ½	106.9	180°/160°	11.0	4.5	29°	287
AC10-F-2120W	118.00	4,146	1,541	3,472	85%	1.26	2 @ ½	113.7	180°/161°	12.0	5.5	30°	300
AC10-F-3132W	132.00	4,040	1,855	4,677	80%	1.75	3 @ ½	140.65	180°/159°	14.0	7.7	27°	375
AC10-F-3144W	144.00	4,040	1,833	5,040	90%	1.89	3 @ ½	153.0	180°/159°	15.0	9.1	28°	406

See sheets EP-276E-AC & EP-276E-EC for amp draws/total load requirements.  
600/3/60 power supply includes extended cabinet, See drawing AC10-F-WTR-600

#### NOTES:

- Standard connection top, same end supply/return.
- Coil should be field supplied with a solenoid valve that energizes only when air curtain is energized. Consideration must be taken for freeze protection when necessary.
- Coil performance based on 65°F entering air temperature.
- Maximum leaving air temperature shall not exceed 120°F.
- Consult factory for alternate entering air & water temperatures or GPM's.
- Operation of standard motor (AC) at 50Hz will generate a 17% reduction in performance; no reduction for optional EC motors.

## MODEL NUMBER CONFIGURATION

### AC10-F-1 036 W A-AC-CB-D-R-SS

Series	Version	# of Motors	Opening Width	Heat	Voltage	Motor Type	Berner AIR	Opt. Data Link	Opt. Display	Opt. Cabinet Finish
AC10	F	1, 2, 3	036" - 144"	W=Hot Water Heated	<b>AC &amp; EC motors</b> A = 120/1/60* B = 208/1/60 J = 240/1/60 V = 220/1/50 A-XI = 600/3/60 † <b>EC motors only</b> W = 277/1/60 †	AC (Std.) EC (Opt.)	CB=BASIC (Std.) CM=BMS	D=Physical Interconnect (daisy chain)	R=Remote Display TB=Tablet	SS=Stainless Steel CC=Custom Color

#### STANDARD CONSTRUCTION

- 12 ¾" high x 25 ¾" deep
- 1/2 hp motor(s) - ten speeds
- Intelliswitch™ digital controller, includes Berner AIR® BASIC (smart control)
- Clear satin anodized aluminum exterior
- Wall or Top Mounting
- High efficiency, low noise, articulating, three vane, Pro-V Nozzle
- Factory installed coil
- Filter (washable)

\*Suitable for 50 Hz

† Cabinet width increases for transformer

#### OPTIONS

- 1/2 hp EC motor(s) - ten speeds
- Custom Color or Stainless
- Rear cover for top mounting to conceal fasteners
- Berner AIR® BMS (smart control with BACnet and Modbus capabilities)

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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