

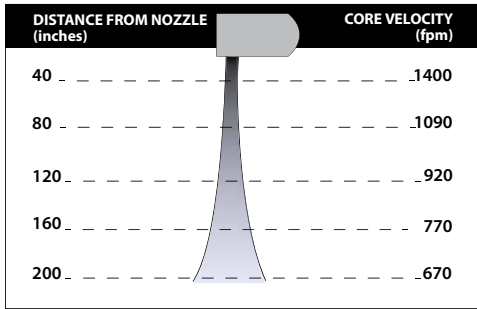


ARCHITECTURAL RECESSED 12

Steam Heated Air Curtain

Data Sheet

Vestibule Exception Compliance: up to 16 ft. AFF / Optimal Environmental Separation: up to 12 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 (steam 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.

Models ARE12-1060S is not licensed to bear the AMCA seal.

2 Year Limited Warranty



| 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) | Inlet Pressure (PSIG) | Condensate (lbs/hr) | Air Temp. Rise (°F) | Net Wt. (lbs) |
|-------------|-------------------|--------------------------|------------------------|------------------|------------------------|-------------------|---------------|-------------------|-----------------------|---------------------|---------------------|---------------|
| ARE12-1036S | 36.00 | 4,830 | 1,439 | 1,259 | 75% | 0.54 | 1 @ 1/2 | 58.1 | 5 | 59.9 | 43° | 126 |
| ARE12-1042S | 42.00 | 5,773 | 1,233 | 1,259 | 66% | 0.62 | 1 @ 1/2 | 62.9 | 5 | 64.8 | 46° | 136 |
| ARE12-1048S | 48.00 | 7,300 | 1,079 | 1,259 | 77% | 0.59 | 1 @ 1/2 | 67.1 | 5 | 69.2 | 49° | 145 |
| ARE12-1060S | 66.00 | 4,828 | 1,027 | 1,647 | 83% | 0.52 | 1 @ 1/2 | 90.7 | 5 | 93.5 | 51° | 177 |
| ARE12-2060S | 66.00 | 3,982 | 1,408 | 2,258 | 76% | 0.89 | 2 @ 1/2 | 108.0 | 5 | 111.3 | 44° | 214 |
| ARE12-2072S | 72.00 | 4,830 | 1,439 | 2,518 | 75% | 1.08 | 2 @ 1/2 | 120.3 | 5 | 124.0 | 44° | 229 |
| ARE12-2078S | 78.00 | 5,773 | 1,328 | 2,518 | 66% | 1.16 | 2 @ 1/2 | 125.1 | 5 | 128.9 | 46° | 238 |
| ARE12-2084S | 84.00 | 5,773 | 1,233 | 2,518 | 66% | 1.24 | 2 @ 1/2 | 129.5 | 5 | 133.4 | 47° | 247 |
| ARE12-2096S | 99.00 | 7,300 | 1,046 | 2,518 | 77% | 1.18 | 2 @ 1/2 | 137.5 | 5 | 141.8 | 50° | 264 |
| ARE12-3096S | 99.00 | 3,982 | 1,462 | 3,517 | 75% | 1.43 | 3 @ 1/2 | 165.3 | 5 | 170.4 | 43° | 304 |
| ARE12-3108S | 108.00 | 4,830 | 1,439 | 3,777 | 75% | 1.62 | 3 @ 1/2 | 180.1 | 5 | 185.6 | 44° | 337 |
| ARE12-3120S | 117.00 | 4,830 | 1,328 | 3,777 | 66% | 1.78 | 3 @ 1/2 | 188.0 | 5 | 193.7 | 46° | 354 |
| ARE12-3132S | 132.00 | 5,773 | 1,177 | 3,777 | 66% | 1.83 | 3 @ 1/2 | 198.7 | 5 | 204.8 | 49° | 376 |
| ARE12-3144S | 144.00 | 7,300 | 1,079 | 3,777 | 77% | 1.77 | 3 @ 1/2 | 206.6 | 5 | 213.0 | 50° | 393 |
| ARE12-4144S | 144.00 | 4,830 | 1,439 | 5,036 | 75% | 2.16 | 4 @ 1/2 | 242.3 | 5 | 249.7 | 44° | 449 |

See sheet EP-244 for amp draws/total load requirements

NOTES:

- Standard connection same end supply/return.
 - 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.
 - Coil performance based on 65°F entering air temperature.
 - Maximum leaving air temperature shall not exceed 120°F.
 - Consult factory for alternate steam pressures.
- Berner does not recommend ARE12-1060S, exists only as an equivalent to competitors' models.

MODEL NUMBER CONFIGURATION

ARE12-1 036 S A -CB-D-R-SS

| Series | # of Motors | Opening Width | Heat | Voltage | Berner AIR | Opt. Data Link | Opt. Display | Opt. Cabinet Finish |
|--------|-------------|---------------|----------------|---|----------------------------------|---------------------------------------|-------------------------------|---------------------------------------|
| ARE12 | 1, 2, 3, 4 | 036" - 144" | S=Steam Heated | *A=120/1/60 B=208/1/60 J=240/1/60 Z=480/3/60 Q=600/3/60 V=230/1/50 O=380/3/50 | CB=BASIC (Std.) CM=BMS (Opt.) | D=Physical Interconnect (daisy chain) | R=Remote Display TB=Tablet | SS=Stainless Steel CC=Custom Color |

for Standard offering, leave options (Opt.) blank

STANDARD CONSTRUCTION

- 15" high x 26" deep
- 1/2 hp AC motor(s) - ten speeds
- Touchscreen interface with Intelliswitch™ digital controller, includes Berner AIR® BASIC (smart control)
- White aluminum bottom panel
- Top Mounting only
- High efficiency, low noise Pro-V Nozzle
- Factory installed coil
- Filter (washable)

OPTIONS

- Berner AIR® BMS (smart control with BACnet and Modbus capabilities)
- Bottom panel finish: Custom Color or Stainless

| VELOCITY PROJECTION: Model ARE12-1036S | | | | | |
|--|------|------|-----|-----|-----|
| Distance from Nozzle (in) | 40 | 80 | 120 | 160 | 200 |
| Core Velocity (fpm) | 1400 | 1090 | 920 | 770 | 670 |
| Uniformity (%) | 81 | 92 | 93 | 91 | 90 |

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: 59/62 dBA
 2 motors: Min./Max. Speed: 62/65 dBA
 3 motors: Min./Max. Speed: 64/67 dBA
 4 motors: Min./Max. Speed: 65/68 dBA

Sound data is not AMCA certified.

Berner reserves the right to alter specifications without prior notice.