



# INDUSTRIAL DIRECT DRIVE 14

## Ambient (Unheated) Air Curtain

### Data Sheet

For Door Heights To 14' (environmental separation) and 12' (insect control)

#### STANDARD CONSTRUCTION

- 1 hp single speed motor(s) - direct drive (Optional: two-speed)
- Gray powder coated exterior with mill aluminum screen and access panels (Optional: Custom Color or Stainless)
- Wall & Top Mounting
- Front air intake (Optional: top)
- High efficiency Pro-V Nozzle



Berner International Corporation 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.

Models IDC14-1060A, IDC14-2108A and IDC14-2120A are not licensed to bear the AMCA seal.

5 Year  
Limited  
Warranty



for outdoor 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 | Net Wt. (lbs) |
|-------------|-------------------|--------------------------|------------------------|------------------|------------------------|-------------------|---------------|---------------|
| IDC14-1036A | 36.00             | 7,567                    | 2,738                  | 2,396            | 87%                    | 1.12              | 1 @ 1         | 103           |
| IDC14-1042A | 42.00             | 7,040                    | 2,435                  | 2,486            | 81%                    | 1.12              | 1 @ 1         | 109           |
| IDC14-1048A | 48.00             | 7,175                    | 2,173                  | 2,535            | 84%                    | 1.25              | 1 @ 1         | 114           |
| IDC14-1060A | 66.00             | 6,886                    | 1,668                  | 2,598            | 80%                    | 1.28              | 1 @ 1         | 125           |
| IDC14-2060A | 66.00             | 7,520                    | 3,196                  | 4,574            | 97%                    | 2.07              | 2 @ 1         | 175           |
| IDC14-2072A | 72.00             | 7,567                    | 2,738                  | 4,792            | 87%                    | 2.24              | 2 @ 1         | 184           |
| IDC14-2078A | 78.00             | 7,040                    | 2,575                  | 4,882            | 81%                    | 2.24              | 2 @ 1         | 190           |
| IDC14-2084A | 84.00             | 7,040                    | 2,435                  | 4,972            | 81%                    | 2.24              | 2 @ 1         | 195           |
| IDC14-2096A | 99.00             | 7,175                    | 2,173                  | 5,070            | 84%                    | 2.50              | 2 @ 1         | 205           |
| IDC14-3096A | 99.00             | 7,567                    | 2,942                  | 6,970            | 87%                    | 3.19              | 3 @ 1         | 249           |
| IDC14-2108A | 108.00            | 6,886                    | 1,893                  | 5,133            | 80%                    | 2.53              | 2 @ 1         | 248           |
| IDC14-3108A | 108.00            | 7,567                    | 2,738                  | 7,188            | 87%                    | 3.36              | 3 @ 1         | 292           |
| IDC14-2120A | 117.00            | 6,886                    | 1,668                  | 5,197            | 80%                    | 2.56              | 2 @ 1         | 255           |
| IDC14-3120A | 117.00            | 7,040                    | 2,526                  | 7,368            | 81%                    | 3.36              | 3 @ 1         | 299           |
| IDC14-3132A | 132.00            | 7,040                    | 2,340                  | 7,507            | 81%                    | 3.49              | 3 @ 1         | 320           |
| IDC14-3144A | 144.00            | 7,175                    | 2,173                  | 7,605            | 84%                    | 3.75              | 3 @ 1         | 334           |
| IDC14-4144A | 144.00            | 7,567                    | 2,738                  | 9,584            | 87%                    | 4.48              | 4 @ 1         | 378           |
| IDC14-4156A | 156.00            | 7,040                    | 2,575                  | 9,764            | 81%                    | 4.48              | 4 @ 1         | 394           |
| IDC14-4168A | 168.00            | 7,040                    | 2,435                  | 9,944            | 81%                    | 4.48              | 4 @ 1         | 406           |
| IDC14-4180A | 180.00            | 7,040                    | 2,295                  | 10,042           | 81%                    | 4.74              | 4 @ 1         | 419           |
| IDC14-5180A | 180.00            | 7,567                    | 2,738                  | 11,980           | 87%                    | 5.60              | 5 @ 1         | 463           |
| IDC14-4192A | 192.00            | 7,175                    | 2,173                  | 10,140           | 84%                    | 5.00              | 4 @ 1         | 431           |
| IDC14-5192A | 192.00            | 7,175                    | 2,580                  | 12,040           | 84%                    | 5.69              | 5 @ 1         | 475           |

#### NOTES:

1. Operation at 50 Hz will generate approximately a 17% reduction in air performance.

2. Consult factory for vertically mounted units.

Berner does not recommend IDC14-1060A, IDC14-2108A and IDC14-2120A, exist only as an equivalent to competitors' models.

See sheet EP-410 for amp draws/total load requirements.

## MODEL NUMBER CONFIGURATION

### IDC14-1 036 A A-F-SS

| Series | # of Motors   | Opening Width | Heat      | Voltage                                                                                                                     | Intake           | Opt. Cabinet Finish                   |
|--------|---------------|---------------|-----------|-----------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------|
| IDC14  | 1, 2, 3, 4, 5 | 036" - 192"   | A=Ambient | *A=120/1/60<br>B=208/1/60<br>J=240/1/60<br>V=220/1/50<br>X=208/3/60<br>Y=240/3/60<br>Z=480/3/60<br>Q=600/3/60<br>O=380/3/50 | T=Top<br>F=Front | SS=Stainless Steel<br>CC=Custom Color |

\*Suitable for 50hz

Berner reserves the right to alter specifications without prior notice.

| VELOCITY PROFILE: Model IDC14-1036A |      |      |      |
|-------------------------------------|------|------|------|
| Distance from Nozzle (ft)           | 3    | 6.5  | 10   |
| Core Velocity (fpm)                 | 3822 | 2467 | 2133 |

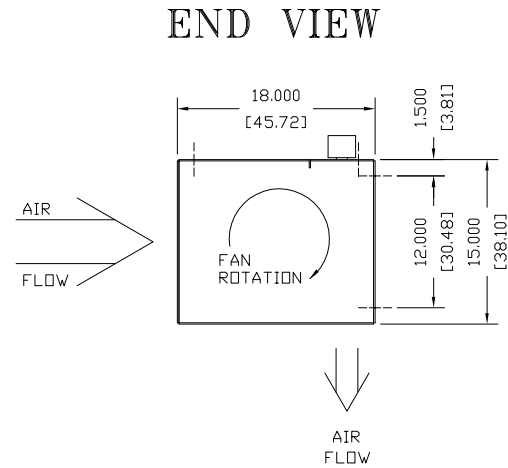
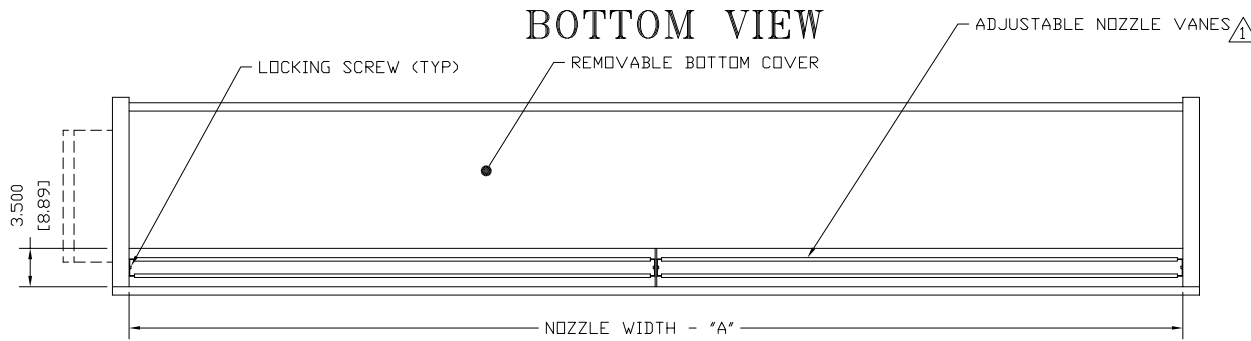
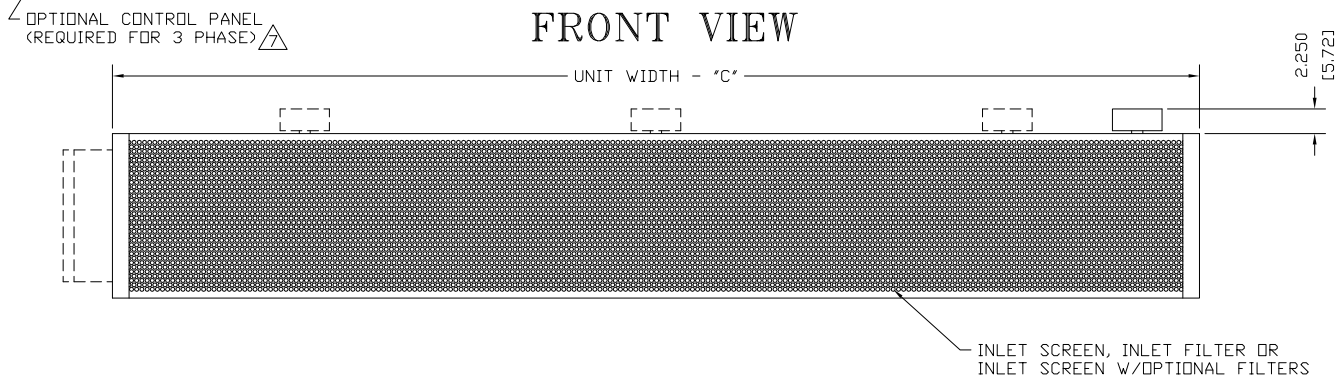
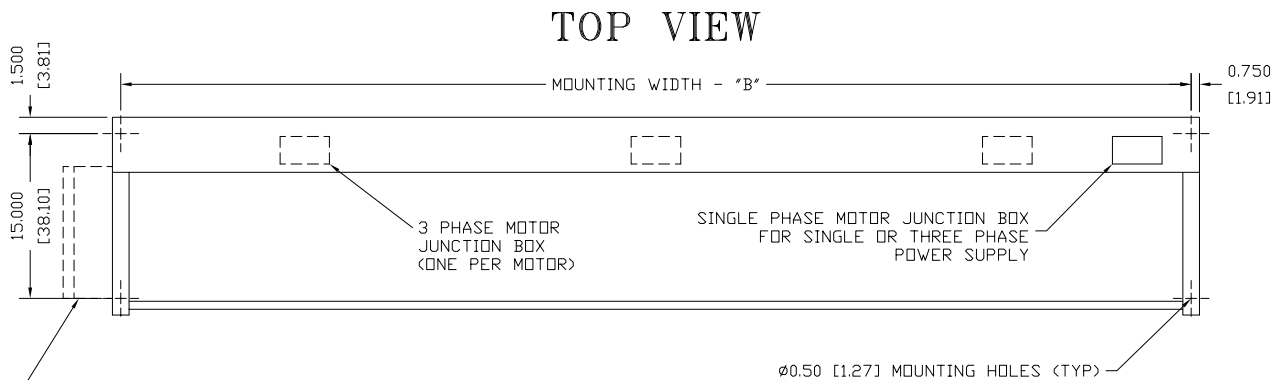
Sound level measured 10' (3m) from the unit in free field:

1, 2, 3, 4 & 5 motor(s): 66 dBA, 69 dBA, 71 dBA, 72 dBA & 73 dBA  
Sound data is not AMCA certified.

| MODEL                                                                                                 | #<br>CKTS | 120/1/60 (voltage code A)<br>MOTOR AMP DRAW = 12.6 each |                               | #<br>CKTS | 208/1/60 (voltage code B) or<br>220/1/50 (voltage code V)<br>MOTOR AMP DRAW = 6.5 each |                               | #<br>CKTS | 240/1/60 (voltage code J)<br>MOTOR AMP DRAW = 6.5 each |                               | #<br>CKTS | 208/3/60 (voltage code X)<br>MOTOR AMP DRAW = 6.5 each |                               |
|-------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------|-------------------------------|-----------|----------------------------------------------------------------------------------------|-------------------------------|-----------|--------------------------------------------------------|-------------------------------|-----------|--------------------------------------------------------|-------------------------------|
|                                                                                                       |           | AMPS PER CIRCUIT                                        | BREAKER RATING<br>PER CIRCUIT |           | AMPS PER CIRCUIT                                                                       | BREAKER RATING<br>PER CIRCUIT |           | AMPS PER CIRCUIT                                       | BREAKER RATING<br>PER CIRCUIT |           | AMPS PER CIRCUIT                                       | BREAKER RATING<br>PER CIRCUIT |
| IDC14-1036A<br>IDC14-1042A<br>IDC14-1048A<br>IDC14-1060A                                              | 1         | 12.6                                                    | 30                            | 1         | 6.5                                                                                    | 15                            | 1         | 6.5                                                    | 15                            | 1         | 6.5                                                    | 15                            |
| IDC14-2060A<br>IDC14-2072A<br>IDC14-2078A<br>IDC14-2084A<br>IDC14-2096A<br>IDC14-2108A<br>IDC14-2120A | 1         | 25.2                                                    | 30                            | 1         | 13.0                                                                                   | 20                            | 1         | 13.0                                                   | 20                            | 1         | 13.0                                                   | 20                            |
| IDC14-3096A<br>IDC14-3108A<br>IDC14-3120A<br>IDC14-3132A<br>IDC14-3144A                               | 1         | 37.8                                                    | 50                            | 1         | 19.5                                                                                   | 30                            | 1         | 19.5                                                   | 30                            | 1         | 19.5                                                   | 30                            |
| IDC14-4144A<br>IDC14-4156A<br>IDC14-4168A<br>IDC14-4180A<br>IDC14-4192A                               | 1         | 50.4                                                    | 60                            | 1         | 26.0                                                                                   | 35                            | 1         | 26.0                                                   | 35                            | 1         | 26.0                                                   | 35                            |
| IDC14-5180A<br>IDC14-5192A                                                                            | 1         | 63.0                                                    | 100                           | 1         | 32.5                                                                                   | 40                            | 1         | 32.5                                                   | 40                            | 1         | 32.5                                                   | 40                            |

| MODEL                                                                                                 | #<br>CKTS | 240/3/60 (voltage code Y)<br>MOTOR AMP DRAW = 6.5 each |                               | #<br>CKTS | 480/3/60 (voltage code Z)<br>MOTOR AMP DRAW = 3.2 each |                               | #<br>CKTS | 600/3/60 (voltage code Q)<br>MOTOR AMP DRAW = 2.0 each |                               | #<br>CKTS | 380/3/50 (voltage code O)<br>MOTOR AMP DRAW = 6.5 each |                               |
|-------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------|-------------------------------|-----------|--------------------------------------------------------|-------------------------------|-----------|--------------------------------------------------------|-------------------------------|-----------|--------------------------------------------------------|-------------------------------|
|                                                                                                       |           | AMPS PER CIRCUIT                                       | BREAKER RATING<br>PER CIRCUIT |           | AMPS PER CIRCUIT                                       | BREAKER RATING<br>PER CIRCUIT |           | AMPS PER CIRCUIT                                       | BREAKER RATING<br>PER CIRCUIT |           | AMPS PER CIRCUIT                                       | BREAKER RATING<br>PER CIRCUIT |
| IDC14-1036A<br>IDC14-1042A<br>IDC14-1048A<br>IDC14-1060A                                              | 1         | 6.5                                                    | 15                            | 1         | 3.2                                                    | 15                            | 1         | 2.0                                                    | 15                            | 1         | 6.5                                                    | 15                            |
| IDC14-2060A<br>IDC14-2072A<br>IDC14-2078A<br>IDC14-2084A<br>IDC14-2096A<br>IDC14-2108A<br>IDC14-2120A | 1         | 13.0                                                   | 20                            | 1         | 6.4                                                    | 15                            | 1         | 4.0                                                    | 15                            | 1         | 13.0                                                   | 20                            |
| IDC14-3096A<br>IDC14-3108A<br>IDC14-3120A<br>IDC14-3132A<br>IDC14-3144A                               | 1         | 19.5                                                   | 30                            | 1         | 9.6                                                    | 15                            | 1         | 6.0                                                    | 15                            | 1         | 19.5                                                   | 30                            |
| IDC14-4144A<br>IDC14-4156A<br>IDC14-4168A<br>IDC14-4180A<br>IDC14-4192A                               | 1         | 26.0                                                   | 35                            | 1         | 12.8                                                   | 20                            | 1         | 8.0                                                    | 15                            | 1         | 26.0                                                   | 35                            |
| IDC14-5180A<br>IDC14-5192A                                                                            | 1         | 32.5                                                   | 40                            | 1         | 16.0                                                   | 20                            | 1         | 10.0                                                   | 15                            | 1         | 32.5                                                   | 40                            |

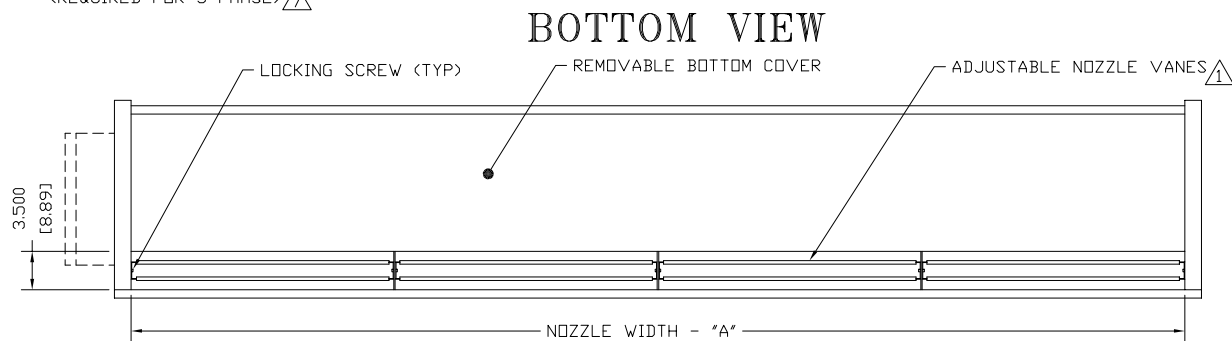
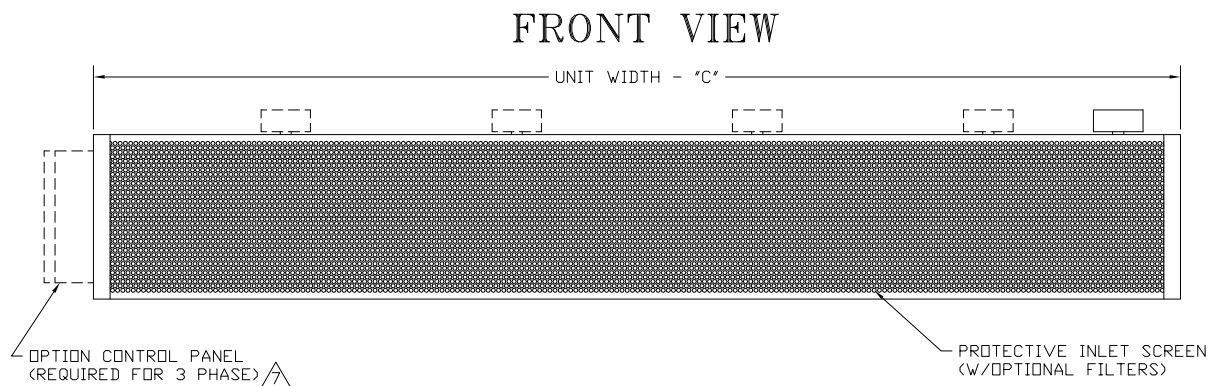
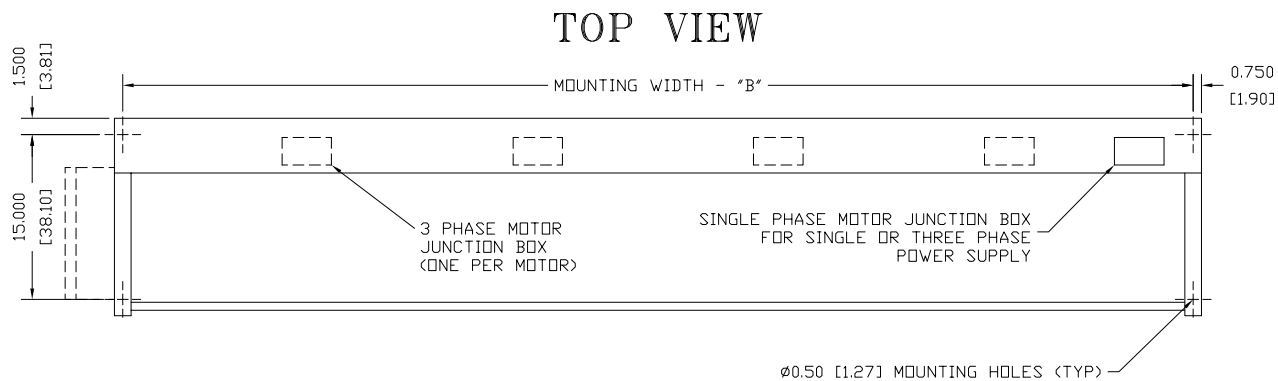
# IDC14 AMBIENT SYSTEM



- NOTES:**
- 1 AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF C.
  - 2 ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
  - 3 FIELD VERIFY DIMENSIONS.
  - 4 ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.
  - 5 ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
  - 6 LETTER "A" IN MODEL NUMBER DESIGNATES, AMBIENT UNIT.
  - 7 STANDARD CONTROL PANEL LEFT HAND MOUNT, OPTIONAL RIGHT HAND MOUNT, OR REMOTE. PLEASE SPECIFY.
  - 8 DIMENSIONS IN INCHES [CENTIMETERS].

| MODEL <sup>△</sup> | NOZZLE WIDTH<br>"A" | MOUNTING WIDTH<br>"B" | UNIT WIDTH<br>"C" |
|--------------------|---------------------|-----------------------|-------------------|
| IDC14-1036A        | 36.00 [91.44]       | 37.50 [95.25]         | 39.00 [99.06]     |
| IDC14-1042A        | 42.00 [106.68]      | 43.50 [110.49]        | 45.00 [114.30]    |
| IDC14-1048A        | 48.00 [121.92]      | 49.50 [125.73]        | 51.00 [129.54]    |
| IDC14-1060A/2060A  | 66.00 [167.64]      | 67.50 [171.45]        | 69.00 [175.26]    |
| IDC14-2072A        | 72.00 [182.88]      | 73.50 [186.69]        | 75.00 [190.50]    |
| IDC14-2078A        | 78.00 [192.12]      | 79.50 [201.93]        | 81.00 [205.74]    |
| IDC14-2084A        | 84.00 [213.36]      | 85.50 [217.17]        | 87.00 [220.98]    |
| IDC14-2096A/3096A  | 99.00 [251.46]      | 100.50 [255.27]       | 102.00 [259.08]   |
| IDC14-2108A/3108A  | 108.00 [274.32]     | 109.50 [278.13]       | 111.00 [281.94]   |
| IDC14-2120A/3120A  | 117.00 [297.18]     | 118.50 [300.99]       | 120.00 [304.80]   |
| IDC14-3132A        | 132.00 [335.28]     | 133.50 [339.09]       | 135.00 [342.90]   |
| IDC14-3144A/4144A  | 144.00 [365.76]     | 145.50 [369.57]       | 147.00 [373.38]   |

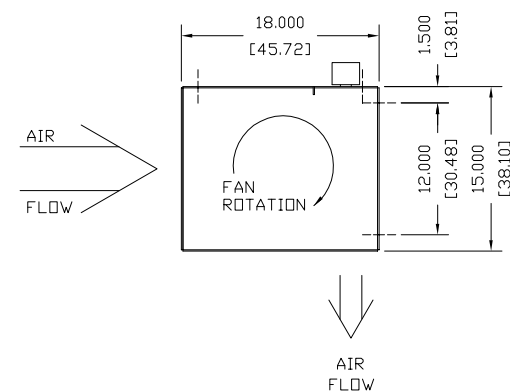
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|-----------|------------|----------|-----------------------------------------------|
| PROJECT   |            | TITLE:   | <b>BERNER</b>                                 |
| LOCATION  |            |          | MODEL IDC14 AIR CURTAIN                       |
| ARCHITECT |            |          | AMBIENT SYSTEM                                |
| ENGINEER  |            |          | BERNER INTERNATIONAL CORP.<br>NEW CASTLE, PA. |
| DWG. NO.  | IDC14-AMBI | DATE     | 29MAY14                                       |
| BY        | S. Beil    | REPLACES | -                                             |
| BY        | -          | BY       | -                                             |



| MODEL ⚠           | NOZZLE WIDTH "A" | MOUNTING WIDTH "B" | UNIT WIDTH "C"  |
|-------------------|------------------|--------------------|-----------------|
| IDC14-4156A       | 156.00 [396.24]  | 157.50 [400.05]    | 159.00 [403.86] |
| IDC14-4168A       | 168.00 [426.72]  | 169.50 [430.53]    | 171.00 [434.34] |
| IDC14-4180A/5180A | 180.00 [457.20]  | 181.50 [461.01]    | 183.00 [464.82] |
| IDC14-4192A/5192A | 192.00 [487.68]  | 193.50 [491.49]    | 195.00 [495.30] |

# IDC14 AMBIENT SYSTEM

## END VIEW



## NOTES:

- 1 AIR CURTAIN MUST BE INSTALLED SO AIR STREAM IS NOT OBSTRUCTED WHEN DEFLECTED 20° TO EITHER SIDE OF C.
- 2 ELECTRICAL CONNECTIONS TO BE FLEXIBLE.
- 3 FIELD VERIFY DIMENSIONS.
- 4 ANCHORS TO SUPPORTING STRUCTURE BY OTHERS.
- 5 ADEQUACY OF SUPPORTING STRUCTURE IS TO BE VERIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- 6 LETTER "A" IN MODEL NUMBER DESIGNATES, AMBIENT UNIT.
- 7 STANDARD CONTROL PANEL LEFT HAND MOUNT, OPTIONAL RIGHT HAND MOUNT, OR REMOTE. PLEASE SPECIFY.
- 8 DIMENSIONS IN INCHES [CENTIMETERS].

|           |            |                                               |
|-----------|------------|-----------------------------------------------|
| PROJECT   |            |                                               |
| LOCATION  |            |                                               |
| ARCHITECT |            |                                               |
| ENGINEER  |            |                                               |
| DWG. NO.  | IDC14-AMB2 | TITLE: <b>BERNER</b>                          |
| DATE      | 29MAY14    | MODEL IDC14 AIR CURTAIN                       |
| BY        | S. Beil    | AMBIENT SYSTEM                                |
| REPLACES  | -          |                                               |
| BY        | -          | BERNER INTERNATIONAL CORP.<br>NEW CASTLE, PA. |