

# SUBMITTAL DATA



## 2000R Series Air Curtain Ceiling Recessed Mount Models



Conforms to:  
CAN CSA-C22.2 no.46-13  
& UL 2021(Ed.3): 2013

For indoor use: openings up to 9ft-10in [3m] height

|                              |                |                |                |
|------------------------------|----------------|----------------|----------------|
| <b>PROJECT:</b>              |                |                |                |
| <b>ENGINEER:</b>             |                |                |                |
| <b>CONTRACTOR:</b>           |                |                |                |
| <b>DISTRIBUTOR:</b>          |                |                |                |
| <b>SchwankAir MODEL #:</b>   |                |                |                |
| <b>Ambient Air - No Heat</b> | <b>2047R</b>   | <b>2063R</b>   | <b>2083R</b>   |
| <b>Electric Heat</b>         | <b>2047EHR</b> | <b>2063EHR</b> | <b>2083EHR</b> |
| <b>Hot Water Heat</b>        | <b>2047WHR</b> | <b>2063WHR</b> | <b>2083WHR</b> |
| <b>APPROVED BY:</b>          |                |                |                |
| <b>DATE:</b>                 |                |                |                |
| <b>APPROVAL #:</b>           |                |                |                |

Schwank  
2 Schwank Way  
Waynesboro, Georgia,  
USA, 30830

5285 Bradco Boulevard,  
Mississauga, Ontario,  
L4W 2A6

Customer and Technical Services

Phone: 1-877-446-3727

Fax : 1-866-361-0523

e-mail: [csr@schwankgroup.com](mailto:csr@schwankgroup.com)

[www.schwankgroup.com](http://www.schwankgroup.com)

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## **SchwankAir 2000R Series Features / Components Summary:**

The SchwankAir 2000R Series air curtain is intended for indoor horizontal mounting above building doorways at a mounting height from 7 feet up to 9 feet-10 inches [3 m].

The 2000R Series air curtain is designed to provide quiet operation and energy savings by effectively separating indoor and outdoor environments, restricting entry of unconditioned air, dust, fumes, and insects. The 2000R Series air curtain can also be used at interior openings /doorways to isolate coolers and clean room environments .

- Available unit widths: 47, 63, or 83 inches [1209, 1609, or 2120 mm]
  - Detailed specifications by unit length ... next page
- Multiple units can be ganged together for wider openings
- Galvanized sheet steel construction; Grille has durable white finish (RAL 9010)
- Suspend from structure ceiling / trusses; Grille flush mounts to a suspended ceiling
- Wired Remote Control included, with 20 ft [6 m] RJ control cable
- LED indicator status lights on wired-remote control for settings / performance
- Thermal protection cut-outs; reset from wired-remote control
- Control up to 8 air curtain units with one wired-remote control
- 3-Speed fan motor control
- High efficiency electric elements for instant heat
- 9 electric heat output levels: Automatic or manually selectable
- Hot Water Heat version supplied with a motorized three port valve
- Optional fan motor voltages: 208 - 240 Vac / single phase / 60 hZ
- Optional electric heater voltages: 460 / 600 Vac / 3 phase / 60 hZ
- Optional Accessories, Functions, Features:
  - Door switch: control fan speed and heat output
  - Outdoor thermostat: add basic weather compensation
  - Modbus module & software: control plug-in for BMS control and monitoring
    - 7 Day timer and programming
  - EEPROM module: modulating heat and air flow

Tested and Certified by Labtest to:

- CAN/CSA C22.2 no. 46-13
- UL 2021(Ed.3): 2013



## Project Quantity(s) & Electrical Specifications:

| Project Qty | Air Curtain Model | Electrical Supply (V/ph/Hz)    | Rated Electrical Power Input (kW) | Rated Current per phase (amps) | Heat Output [Low/High] (kW) | Unit Weight lb [kg] |
|-------------|-------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------|---------------------|
|             | 2047R             | 208...240/1/60                 | 0.12                              | 0.5                            | –                           | 42 [19]             |
|             | 2063R             | 208...240/1/60                 | 0.16                              | 0.7                            | –                           | 55 [25]             |
|             | 2083R             | 208...240/1/60                 | 0.23                              | 1.0                            | –                           | 77 [35]             |
|             | 2047WHR           | 208...240/1/60                 | 0.12                              | 0.5                            | 3.0 / 6.0                   | 49 [22]             |
|             | 2063WHR           | 208...240/1/60                 | 0.16                              | 0.7                            | 4.5 / 9.0                   | 66 [30]             |
|             | 2083WHR           | 208...240/1/60                 | 0.23                              | 1.0                            | 6.0 / 12.0                  | 90 [41]             |
|             | 2047EHR (208V)    | 208/3/60                       | 8.8                               | 24.5                           | 4.3 / 8.6                   | 44 [20]             |
|             | 2063EHR (208V)    | 208/3/60                       | 11.7                              | 32.7                           | 5.8 / 11.5                  | 60 [27]             |
|             | 2083EHR (208V)    | 208/3/60                       | 17.5                              | 49.0 **                        | 8.6 / 17.3                  | 82 [37]             |
|             | 2047EHR (480V)    | 480/3/60 *<br>+ 208...240/1/60 | 9<br>0.12                         | 10.9<br>0.5                    | 4.5 / 9.0                   | 44 [20]             |
|             | 2063EHR (480V)    | 480/3/60 *<br>+ 208...240/1/60 | 12<br>0.16                        | 14.5<br>0.7                    | 6.0 / 12.0                  | 60 [27]             |
|             | 2083EHR (480V)    | 480/3/60 *<br>+ 208...240/1/60 | 18<br>0.23                        | 21.7<br>1.0                    | 9.0 / 18.0                  | 82 [37]             |
|             | 2047EHR (600V)    | 600/3/60 *<br>+ 208...240/1/60 | 9<br>0.12                         | 9.3<br>0.5                     | 4.5 / 9.0                   | 44 [20]             |
|             | 2063EHR (600V)    | 600/3/60 *<br>+ 208...240/1/60 | 12<br>0.16                        | 12.8<br>0.7                    | 6.0 / 12.0                  | 60 [27]             |
|             | 2083EHR (600V)    | 600/3/60 *<br>+ 208...240/1/60 | 18<br>0.23                        | 18.6<br>1.0                    | 9.0 / 18.0                  | 82 [37]             |

**NOTES:** \* Separate electrical supply for heaters [480 / 600V] and fan motors [208 / 240V]

\*\* Electric heater circuit current = 47.9 Amps

## Optional Accessories - Project Quantity(s):

| Project Qty | Accessory                           | Description / Feature              |
|-------------|-------------------------------------|------------------------------------|
|             | Door switch                         | Regulate fan speed and heat output |
|             | Outdoor thermostat (field supplied) | Basic weather compensation         |
|             | Modbus module & software            | BMS control & monitoring           |
|             | EEPROM module                       | Modulating heat and air flow       |

## 2000R Series Performance Specifications:

| Fan Speed | Max. Air Velocity at Outlet Grille<br>ft/min [m/s] |               | Maximum Mounting Height<br>ft [m] |                   | Sound Pressure Level<br>dB(A) at 10ft [3m] |      |      | Air Volume Flow Rate<br>cfm [m³/h] |             |
|-----------|--|---------------|-----------------------------------|-------------------|--|------|------|------------------------------------|-------------|
|           | 208V   | 240V          | 208V                              | 240V              | Model                                      | 208V | 240V | 208V                               | 240V        |
| HIGH      | 1475<br>[7.5]                                      | 1575<br>[8.0] | 8ft-6in<br>[2.6]                  | 9ft-10in<br>[3.0] | 2047R                                      | 54   | 55   | 660 [1125]                         | 740 [1250]  |
|           |  |               |                                   |                   | 2063R                                      | 54   | 55   | 955 [1620]                         | 1060 [1800] |
|           |  |               |                                   |                   | 2083R                                      | 55   | 56   | 1325 [2250]                        | 1470 [2500] |
| MED.      | -  | -             | -                                 | -                 | 2047R                                      | 50   | 53   | 655 [1115]                         | 670 [1140]  |
|           |  |               |                                   |                   | 2063R                                      | 50   | 53   | 940 [1600]                         | 965 [1640]  |
|           |  |               |                                   |                   | 2083R                                      | 51   | 54   | 1310 [2225]                        | 1340 [2275] |
| LOW       | -  | -             | -                                 | -                 | 2047R                                      | 45   | 50   | 575 [975]                          | 605 [1025]  |
|           |  |               |                                   |                   | 2063R                                      | 45   | 49   | 825 [1405]                         | 870 [1475]  |
|           |  |               |                                   |                   | 2083R                                      | 46   | 50   | 1150 [1950]                        | 1205 [2050] |

## 2000R Series Recessed Mount Air Curtain Dimensions

