



# HH SERIES

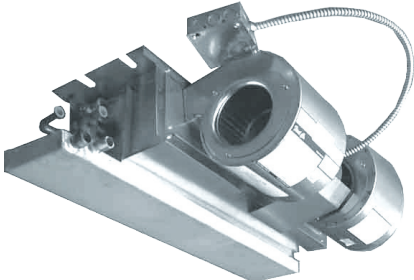
*HH/X • PHH/X • RHH/X • CHH/X*  
Ceiling Fan Coils

PSC Motor or ECM

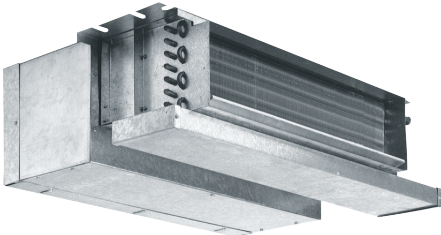
Chilled Water / Hot Water

2-Pipe with Electric Heat

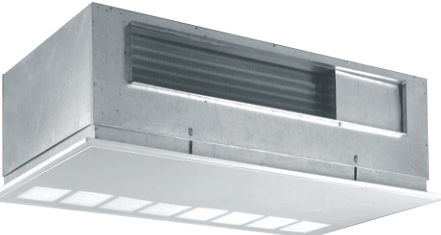
300 – 1200 CFM



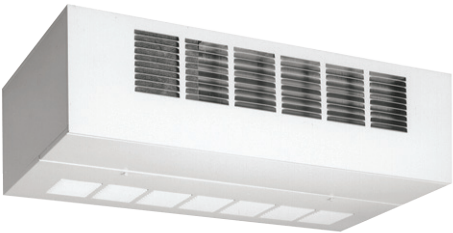
Ceiling Concealed – HH(X)



Ceiling Concealed with Plenum – PHH(X)



Ceiling Recessed – RHH(X)



Ceiling Exposed – CHH(X)



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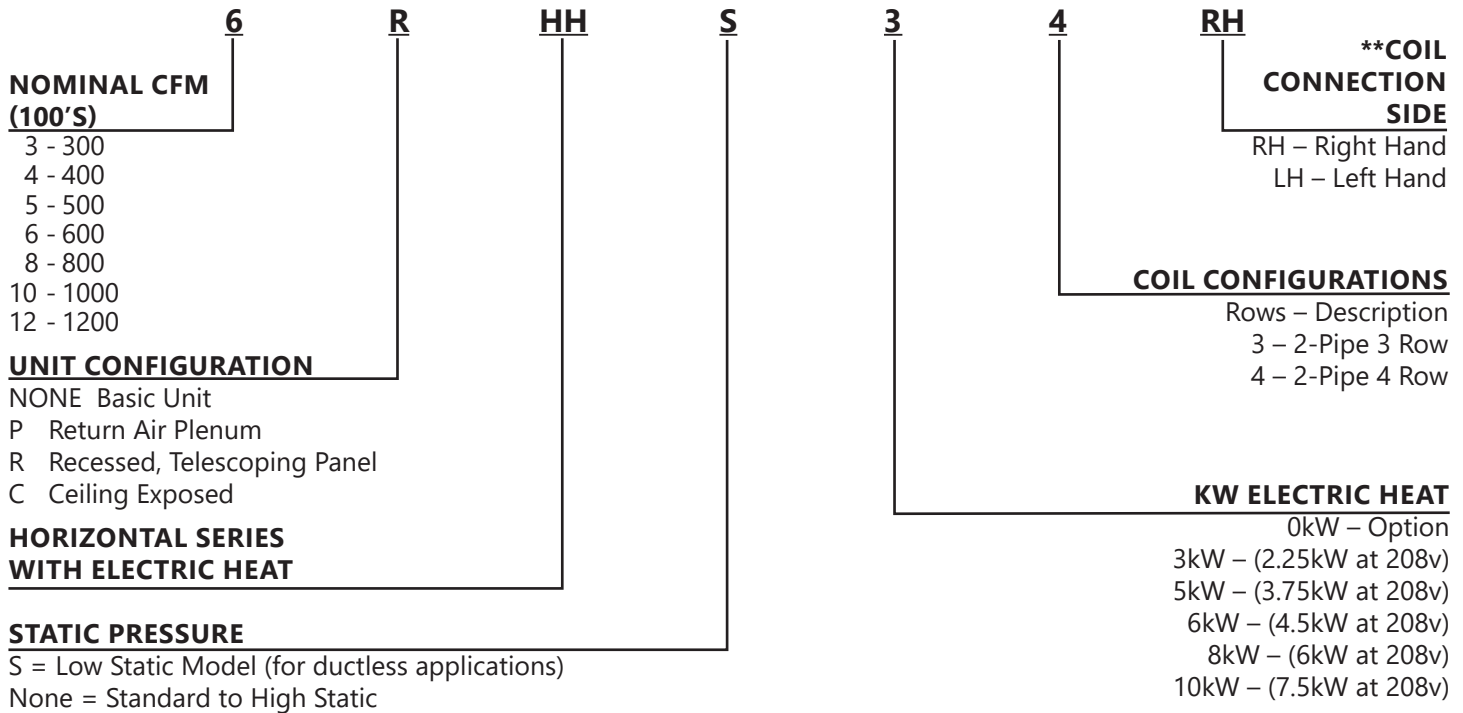
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First Co.'s customer is ultimately responsible for confirming which fan coil models are compatible with selected outdoor unit(s) and which expansion valves (if any) are required. To determine certified indoor/outdoor combinations, go to [www.firstco.com](http://www.firstco.com) or contact the factory.

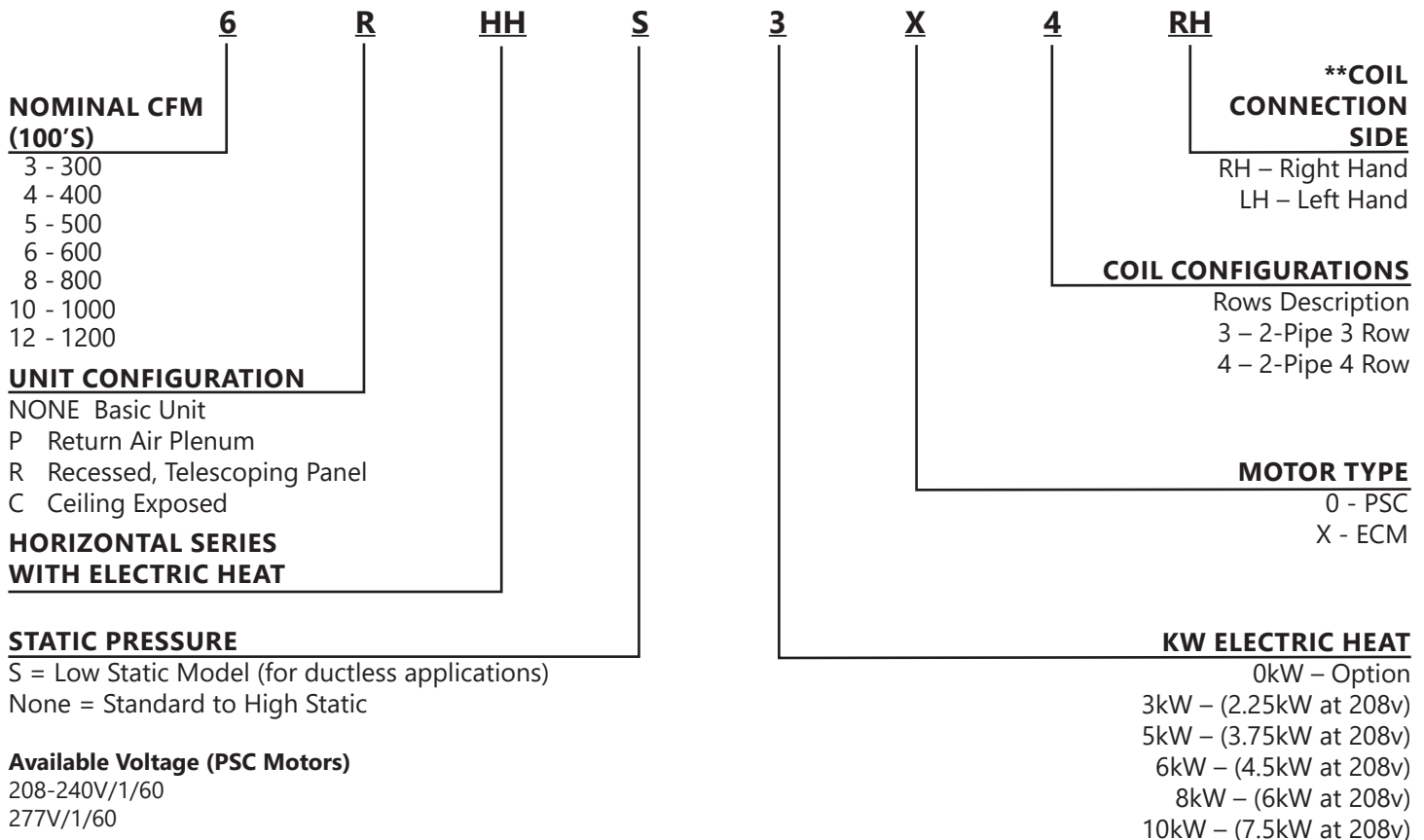
In keeping with its policy of continuous progress and product improvement, First Co. reserves the right to make changes without notice.

# NOMENCLATURE

## HH • PHH • CHH • RHH



## HHX • PHHX • CHHX • RHHX



---

# HH SERIES

## CEILING FAN COILS

### STANDARD FEATURES

#### BASIC UNIT

All fan coils are manufactured with heavy gauge galvanized steel to resist corrosion. All models are approved for installation with "0" clearance to combustible material.

#### INSULATION

Plenums and cabinets are insulated with Tuf-Skin dual density fiber glass blanket insulation with an anti-microbial agent.

#### CEILING PANELS

Hinged access/return panels are manufactured with heavy gauge galvanized steel with captive mounting screws and an attractive white baked powder finish.

#### CONDENSATE PANS

Positive sloped drain pans are galvanized steel, coated on the inside surface with insulation. Pan includes both primary and secondary drain connections.

#### RETURN AIR PLENUMS

Return air plenums are manufactured from galvanized steel insulated with dual density fiber glass blanket insulation and a 1" TA fiber glass filter.

#### COILS

Constructed with seamless copper tubes and headers. The tubes are mechanically expanded into corrugated aluminum fin material for a permanent primary to secondary surface bond. Coils are tested under water at 450 PSI for operation at 300 PSI. Coils include manual air vents.

#### FAN WHEELS-HOUSING

The fan wheels are double width, double inlet (DWDI) forward curved, centrifugal type. Wheels are statically and dynamically balanced for smooth, quiet operation. The housing is constructed from heavy gauge galvanized steel with die-formed inlet cones.

#### MOTORS

Standard motors are PSC, permanently lubricated type with internal thermal overload protection.

#### OPTIONS

Factory mounted options include motors, stainless steel drain pans, foil faced cabinet insulation, Multi-24 3-speed 24V control, valve packages, thermostats, aqua stats, service switches.



**MERV 10**  
Louvered Access Panels

# HH SERIES

## CEILING FAN COILS

### ACCESS PANELS /FILTER



| *STANDARD PANEL OPTIONS FOR HH SERIES |           |            |                  |              |
|---------------------------------------|-----------|------------|------------------|--------------|
| PART #                                | UNIT SIZE | PANEL TYPE | FRAME DIMENSIONS | *FILTER SIZE |
| 965                                   | 3,4,5,6,8 | LOUVERED   | 27-1/2 X 43      | 20X20X1 (1)  |
| 965-1                                 |           | SOLID      |                  |              |
| 966                                   | 10        | LOUVERED   | 27-1/2 X 49      | 20X20X1 (1)  |
| 966-1                                 |           | SOLID      |                  |              |
| 967                                   | 12        | LOUVERED   | 27-1/2 X 55-1/2  | 20X20X1 (1)  |
| 967-1                                 |           | SOLID      |                  |              |

NOTE: \* Filters not included

| *IAQ MERV 10 PANEL OPTIONS FOR HH SERIES |           |            |                  |              |
|--|-----------|------------|------------------|--------------|
| PART #                                   | UNIT SIZE | PANEL TYPE | FRAME DIMENSIONS | *FILTER SIZE |
| 965-M8                                   | 3,4,5,6,8 | LOUVERED   | 27-1/2 X 43      | 20X30X1 (1)  |
| 966-M8                                   | 10        | LOUVERED   | 27-1/2 X 49      | 20X20X1 (2)  |
| 967-M8                                   | 12        | LOUVERED   | 27-1/2 X 55-1/2  | 20X20X1 (2)  |

| IAQ PANEL PERFORMANCE DATA (4) (CLEAN FILTER)         |      |      |      |      |      |      |      |      |      |      |
|---|------|------|------|------|------|------|------|------|------|------|
| PART NUMBER   | CFM  |      |      |      |      |      |      |      |      |      |
|   | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1300 | 1500 |
| 965-M8 with AF20301 (20 X 030, MERV 10) Filters (2)   | 0.04 | 0.06 | 0.06 | 0.08 | 0.09 | 0.10 | ---  | ---  | ---  | ---  |
| 966-M8 with AF20201 (20 X 020, MERV 10) Filters (2)   | 0.04 | 0.06 | 0.06 | 0.08 | 0.09 | 0.10 | ---  | ---  | ---  | ---  |
| 967-M8 with AF20201 (20 X 020, MERV 10) Filters (2)   | ---  | 0.05 | 0.05 | 0.07 | 0.08 | 0.10 | ---  | ---  | ---  | ---  |
| 967-6-M8 with AF20251 (20 X 025, MERV 10) Filters (2) | ---  | ---  | ---  | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | ---  | ---  |
| 967-8-M8 with AF20301 (20 X 30, MERV 10) Filters (2)  | ---  | ---  | ---  | ---  | ---  | 0.06 | 0.06 | 0.08 | 0.08 | 0.10 |

**NOTES:**

- (1) The above is the actual laboratory test data or these panels.
- (2) Glassfloss® Industries HV series MERV 10 filters were used to generate above data (filters must be field supplied)
- (3) Alternate MERV 10 filters would be acceptable provided they have equal or less resistance.
- (4) Refer to fan coil specification sheets for fan coil blower data.

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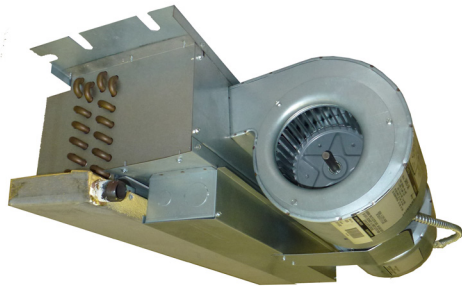
# HH SERIES

## CEILING FAN COILS

### MOTOR OPTION

#### (X) SERIES

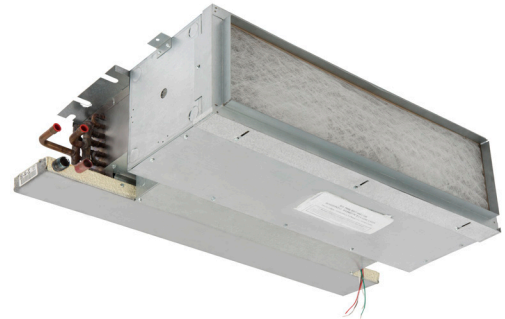
This new ECM motor option includes 24V controls, a constant torque, permanent magnet, brushless DC motor, with four discrete speed taps that allow for precise air balancing.



### HH(X) SERIES

#### CEILING CONCEALED

The \*HH series is designed for fully concealed applications. This 10" high space saving unit provides easy access for service and maintenance.



### PHH(X) SERIES

#### CEILING CONCEALED WITH PLENUM

The \*PHH series is designed for fully concealed applications. This 10" high space saving unit provides easy access for service and maintenance.



### RHH(X) SERIES

#### CEILING RECESSED

Includes adjustable hinged access/return panel with 1" TA fiber glass filter. The cabinet allows for a field mounted rear return duct connection by using a solid access panel.



### CHH(X) SERIES

#### CEILING EXPOSED

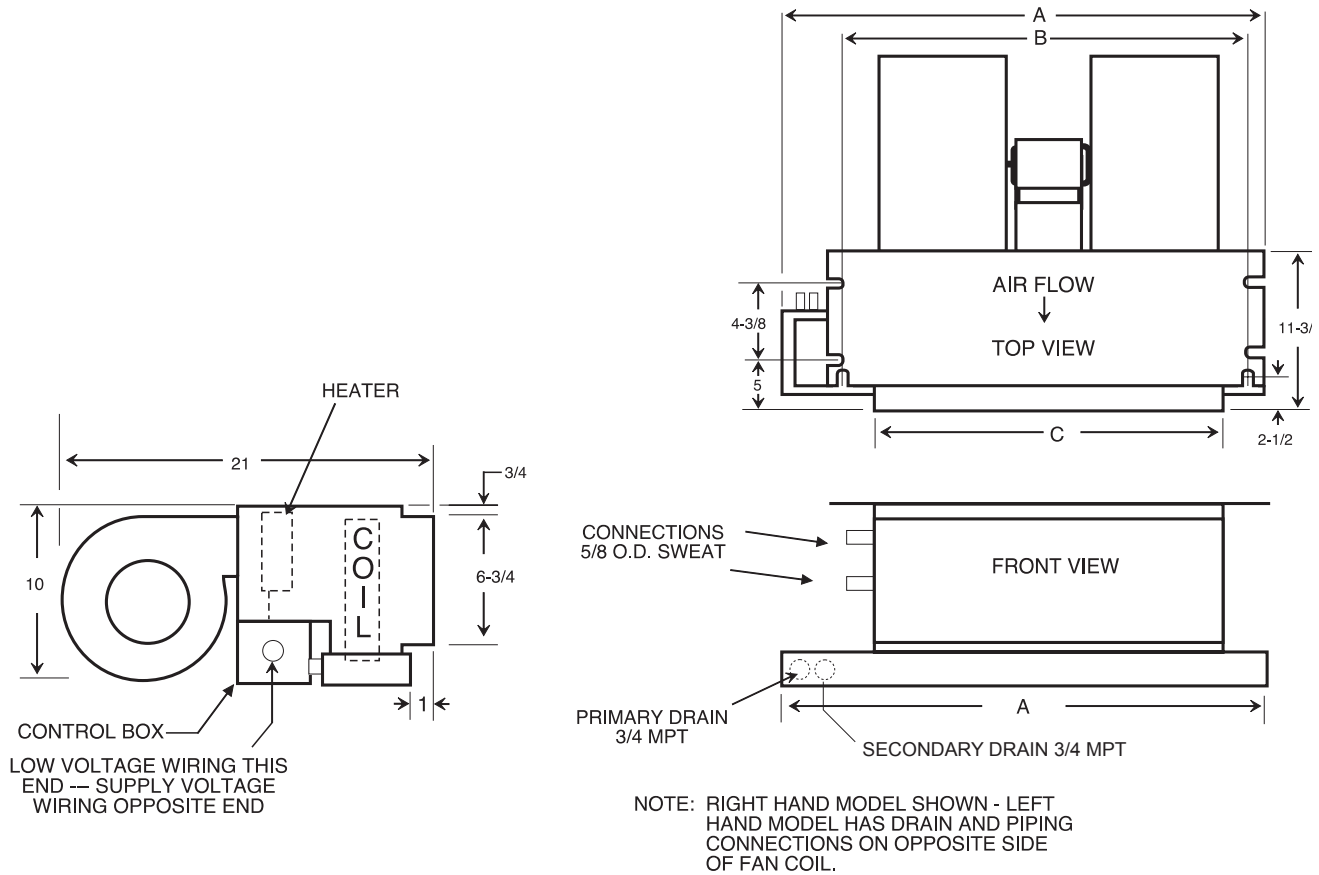
Cabinet with an attractive baked powder finish. Cabinet includes stamped discharge opening and hinged bottom panel with 1" TA fiber glass filter.

# HH SERIES

## CEILING FAN COILS



### CEILING RECESSED



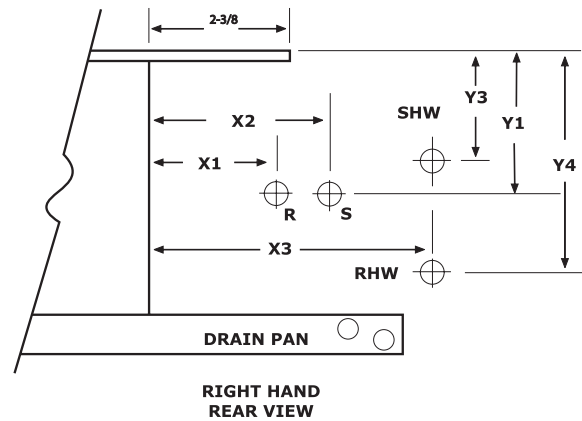
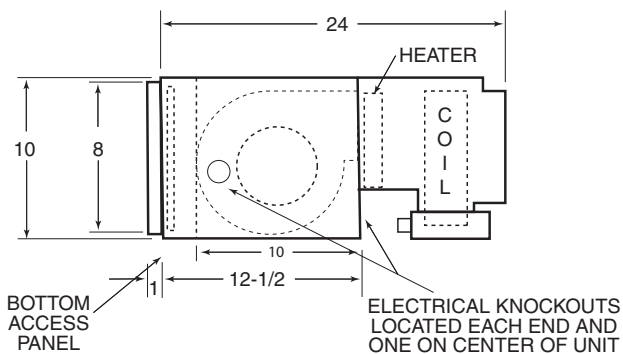
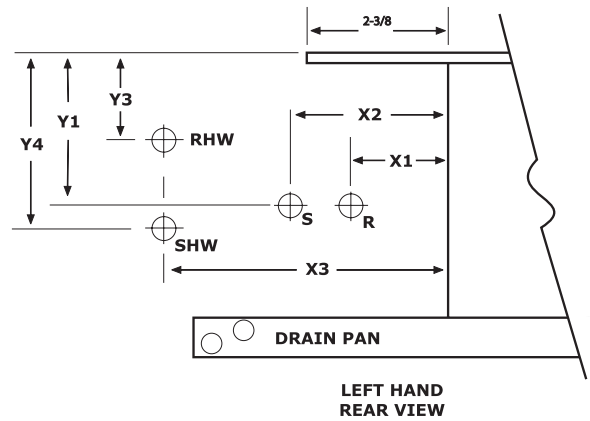
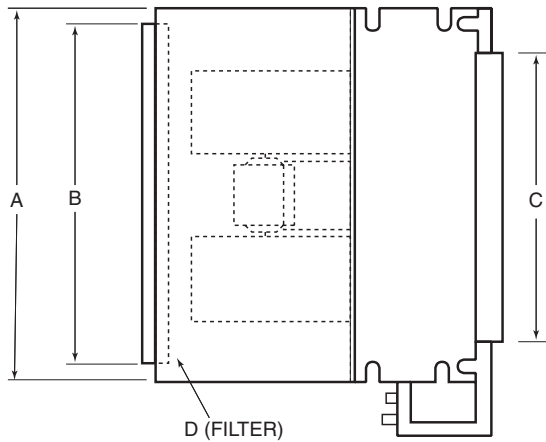
| PHYSICAL DIMENSIONS                    |    |          |    |                  |                   |
|--|----|----------|----|------------------|-------------------|
| MODEL                                  | A  | B        | C  | NUMBER OF MOTORS | NUMBER OF BLOWERS |
| 3HHS                                   | 25 | 19-11/16 | 15 | 1                | 1                 |
| 4HHS(X)<br>6HHS(X)<br>6HH(X)<br>8HH(X) | 40 | 34-11/16 | 30 | 1                | 2                 |
| 10HH(X)                                | 46 | 40-11/16 | 36 | 1                | 2                 |
| 12HH(X)                                | 52 | 46-11/16 | 42 | 1                | 2                 |

# HH SERIES

## CEILING FAN COILS

PHH

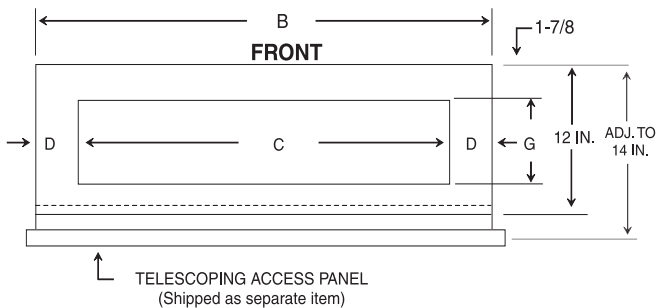
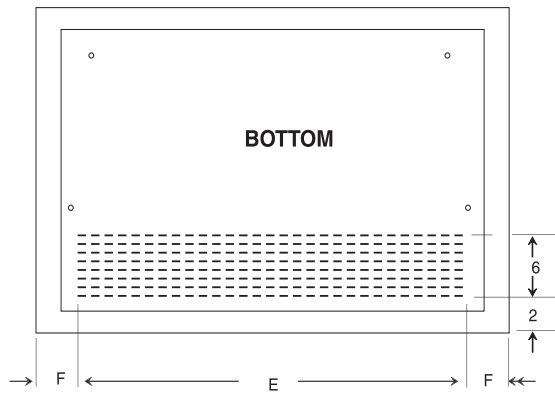
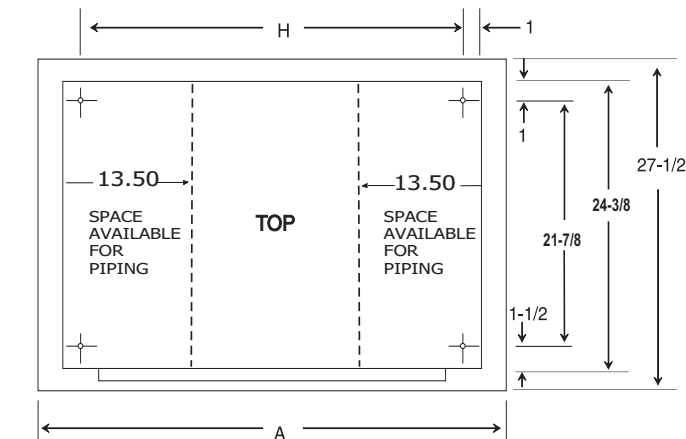
### CEILING RECESSED



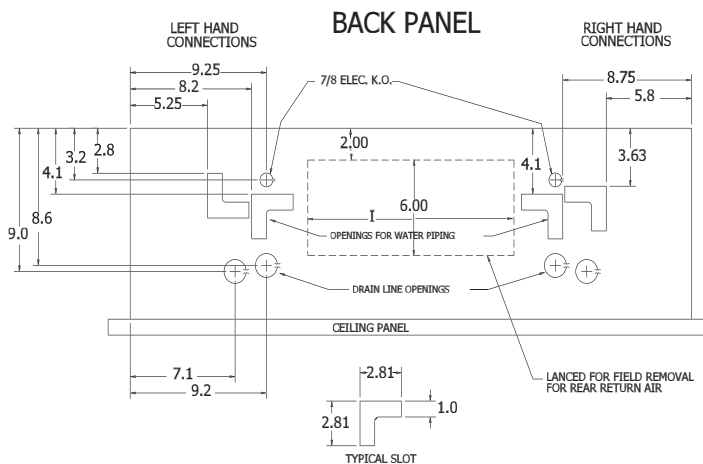
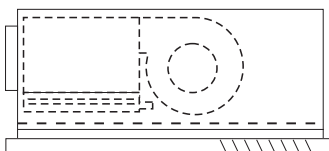
| PLENUM DATA                                |    |    |    |             |
|--|----|----|----|-------------|
| MODEL                                      | A  | B  | C  | D (FILTER)  |
| 3PHHS                                      | 20 | 18 | 15 | 10 X 20 X 1 |
| 4PHHS(X)<br>6PHHS(X)<br>6PHH(X)<br>8PHH(X) | 34 | 32 | 30 | 10 X 34 X 1 |
| 10PHH(X)                                   | 40 | 38 | 36 | 10 X 40 X 1 |
| 12PHH(X)                                   | 46 | 44 | 42 | 10 X 46 X 1 |

NOTE: 1. Return plenums are insulated  
2. All plenums include throw away filter

### CEILING RECESSED



### LEFT SIDE



#### NOTES:

1. All dimensions in inches.
2. Coil connection tolerance  $\pm 1/4"$ .
3. Left hand unit shown, right hand mirror image. (Hand is determined by facing the blower end)

#### NOTES:

1. Telescoping panel allows the cabinet to be installed to within 2 inches of the ceiling line. The adjustable panel frame ensures a flush installation.
2. Louvered access panel (bottom return) is standard. Specify solid panel if ducted rear return air is required.

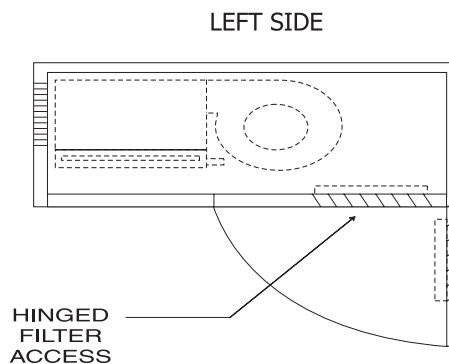
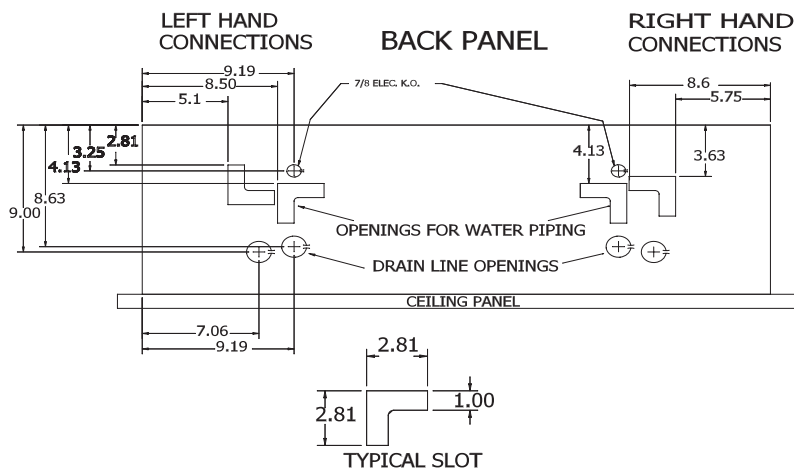
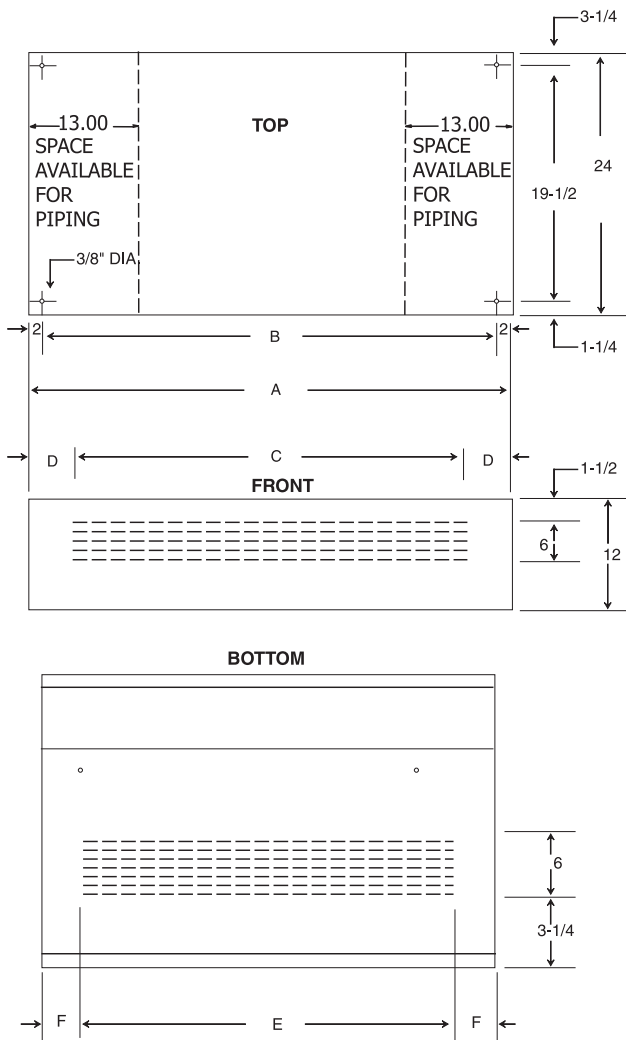
| GENERAL DIMENSIONS             |    |        |    |       |        |        |       |    |    |                                   |                                |                    |
|--------------------------------|----|--------|----|-------|--------|--------|-------|----|----|-----------------------------------|--------------------------------|--------------------|
| MODEL                          | A  | B      | C  | D     | E      | F      | G     | H  | I  | TELESCOPING LOUVERED ACCESS PANEL | TELESCOPING SOLID ACCESS PANEL | FILTER SIZE (INCL) |
| 3RHHS                          | 41 | 38-1/8 | 29 | 4-1/2 | 36-5/8 | 2-3/16 | 5-1/2 | 36 | 14 | 968-1                             | 968-1S                         | 10 X 37            |
| 4RHHS(X)                       | 51 | 48-1/8 | 39 | 4-1/2 | 47-1/4 | 1-7/8  | 5-1/2 | 46 | 24 | 968-3                             | 968-3S                         | 10 X 47.5          |
| 6RHHS(X)<br>6RHH(X)<br>8RHH(X) | 51 | 48-1/8 | 39 | 4-1/2 | 47-1/4 | 1-7/8  | 5-1/2 | 46 | 24 | 968-3                             | 968-3S                         | 10 X 47.5          |
| 10RHH(X)                       | 57 | 54-1/8 | 45 | 4-1/2 | 52-1/2 | 2-1/4  | 5-1/2 | 52 | 30 | 968-4                             | 968-4S                         | 10 X 53            |
| 12RHH(X)                       | 63 | 60-1/8 | 51 | 4-1/2 | 57-7/8 | 2-9/16 | 5-1/2 | 58 | 36 | 968-5                             | 968-5S                         | 10 X 59            |

# HH SERIES

## CEILING FAN COILS



### CEILING EXPOSED



**NOTES:**

1. All dimensions in inches.
2. Coil connection tolerance  $\pm 1/4"$ .
3. Left hand unit shown, right hand mirror image.  
(Hand is determined by facing the blower end)

**NOTES:**

1. Side panels are removable for easier valve access..
2. Plastic thumb screws are provided for easy filter access.

| GENERAL DIMENSIONS  |    |    |        |       |        |       |                    |                          |
|---------------------|----|----|--------|-------|--------|-------|--------------------|--------------------------|
| MODEL               | A  | B  | C      | D     | E      | F     | FILTER SIZE (INCL) | CONNECTIONS PRIMARY O.D. |
| 3CHHS(X)            | 33 | 29 | 21     | 6     | 25-1/2 | 3-1/2 | 10 X30             | 5/8"                     |
| 4CHHS(X)            | 48 | 44 | 37     | 5-1/2 | 41-1/2 | 3-1/2 | 10 X 46            |                          |
| 6CHHS(X)<br>6CHH(X) | 48 | 44 | 37     | 5-1/2 | 41-1/2 | 3-1/2 | 10 X 46            |                          |
| 8CHH(X)             | 48 | 44 | 37     | 5-1/2 | 41-1/2 | 3-1/2 | 10 X 46            |                          |
| 10CHH(X)            | 54 | 50 | 42-1/2 | 5-3/4 | 46-1/2 | 3-1/2 | 10 X 53            |                          |
| 12CHH(X)            | 60 | 56 | 48     | 6     | 52     | 4     | 10 X 59            |                          |

# HH SERIES

## CEILING FAN COILS

### COOLING CAPACITIES

#### PRODUCT SPECIFICATIONS – HORIZONTAL FAN COILS 2 PIPE

| COOLING / HEATING CAPACITIES |           |          |     |                |                   |                  |                            |
|------------------------------|-----------|----------|-----|----------------|-------------------|------------------|----------------------------|
| MODEL                        | COIL ROWS | NOM. CFM | GPM | P.D. (FT. WTR) | TOTAL (2) COOLING | SENSIBLE COOLING | WATER (3) HEATING CAPACITY |
| 3HHS                         | 3         | 270      | 1.0 | 1.4            | 6.1               | 5.1              | 18.9                       |
|                              |           |          | 2.0 | 5.0            | 8.1               | 5.9              | 21.0                       |
|                              |           |          | 3.0 | 10.5           | 8.9               | 6.2              | 21.8                       |
|                              | 4         | 215      | 1.0 | 1.8            | 6.7               | 5.1              | 18.8                       |
|                              |           |          | 2.0 | 6.3            | 8.4               | 5.7              | 20.5                       |
|                              |           |          | 3.0 | 13.1           | 9.0               | 6.0              | 21.1                       |
| 4HHS                         | 3         | 410      | 1.5 | 4.2            | 11.1              | 8.6              | 32.2                       |
|                              |           |          | 2.0 | 7.0            | 12.5              | 9.2              | 33.6                       |
|                              |           |          | 2.5 | 10.5           | 13.5              | 9.5              | 34.5                       |
|                              | 4         | 390      | 1.5 | 5.8            | 12.5              | 9.3              | 34.9                       |
|                              |           |          | 2.0 | 9.7            | 14.1              | 9.9              | 36.4                       |
|                              |           |          | 2.5 | 14.5           | 15.1              | 10.3             | 37.4                       |
| 6HHS                         | 3         | 535      | 3.0 | 5.7            | 15.3              | 11.3             | 41.1                       |
|                              |           |          | 4.0 | 9.5            | 16.6              | 11.8             | 42.4                       |
|                              |           |          | 5.0 | 14.2           | 17.5              | 12.1             | 43.3                       |
|                              | 4         | 490      | 3.0 | 3.9            | 16.5              | 11.9             | 43.5                       |
|                              |           |          | 4.0 | 6.5            | 18.0              | 12.5             | 45.0                       |
|                              |           |          | 5.0 | 9.7            | 18.9              | 12.8             | 46.0                       |
| 6HH                          | 3         | 600      | 3.0 | 5.7            | 16.3              | 12.3             | 44.2                       |
|                              |           |          | 4.0 | 9.5            | 17.7              | 12.8             | 45.7                       |
|                              |           |          | 5.0 | 14.2           | 18.7              | 13.1             | 46.7                       |
|                              | 4         | 600      | 3.0 | 3.9            | 18.2              | 13.7             | 50.1                       |
|                              |           |          | 4.0 | 6.5            | 20.1              | 14.4             | 52.0                       |
|                              |           |          | 5.0 | 9.7            | 21.3              | 14.8             | 53.2                       |
| 8HH                          | 3         | 800      | 4.0 | 5.4            | 19.6              | 15.0             | 54.2                       |
|                              |           |          | 5.0 | 8.0            | 21.1              | 15.6             | 55.8                       |
|                              |           |          | 6.0 | 11.0           | 22.1              | 15.9             | 56.9                       |
|                              | 4         | 800      | 4.0 | 6.5            | 23.2              | 17.4             | 63.4                       |
|                              |           |          | 5.0 | 9.6            | 24.9              | 18.0             | 65.3                       |
|                              |           |          | 6.0 | 13.3           | 26.2              | 18.5             | 66.5                       |
| 10HH                         | 3         | 1000     | 4.0 | 5.5            | 22.9              | 18.1             | 65.5                       |
|                              |           |          | 5.0 | 8.4            | 24.9              | 18.8             | 67.7                       |
|                              |           |          | 6.0 | 11.7           | 26.3              | 19.3             | 69.2                       |
|                              | 4         | 1000     | 4.0 | 4.3            | 28.6              | 21.5             | 78.3                       |
|                              |           |          | 5.0 | 6.5            | 30.3              | 22.1             | 80.2                       |
|                              |           |          | 6.0 | 9.1            | 31.6              | 22.6             | 81.6                       |
| 12HH                         | 3         | 1200     | 6.0 | 7.9            | 28.6              | 22.0             | 79.4                       |
|                              |           |          | 7.0 | 10.5           | 30.0              | 22.5             | 81.0                       |
|                              |           |          | 8.0 | 13.3           | 31.2              | 23.0             | 82.3                       |
|                              | 4         | 1200     | 6.0 | 10.0           | 33.9              | 25.6             | 93.2                       |
|                              |           |          | 7.0 | 13.1           | 35.6              | 26.2             | 95.1                       |
|                              |           |          | 8.0 | 16.5           | 37.0              | 26.8             | 96.6                       |

(1) Cooling at 80DB/67WB, 45°F EWT.

(2) Heating at 70DB/180°F EWT.

# HH SERIES

## CEILING FAN COILS

### COOLING CAPACITIES

#### PRODUCT SPECIFICATIONS – HORIZONTAL FAN COILS 2 PIPE

| AIR STANDARD APPROVED RATINGS |          |          |     |                   |                        |      |                           |               |
|-------------------------------|----------|----------|-----|-------------------|------------------------|------|---------------------------|---------------|
| MODEL                         | COIL     | CFM      | GPM | P.D.<br>(FT.WTR.) | COOLING<br>(1000 BTUH) |      | POWER<br>INPUT<br>(WATTS) | MOTOR<br>TYPE |
|                               |          |          |     |                   | TH                     | SH   |                           |               |
| 3HHS(*)-240-3                 | 3<br>ROW | 280      | 1.5 | 3.3               | 7.5                    | 4.9  | 130                       | SP            |
| 4HHS(*)-240-3                 |          | 410      | 2.6 | 12.0              | 12.9                   | 8.9  |                           | PSC           |
| 4HHX(*)-240-3                 |          |          |     |                   |                        |      |                           | ECM           |
| 6HHS(*)-240-3                 |          | 590      | 3.1 | 7.0               | 15.4                   | 10.5 |                           | PSC           |
| 6HH(*)-240-3                  |          | 790      | 4.0 | 10.5              | 19.8                   | 14.2 |                           | PSC           |
| 6HHX(*)-240-3                 |          |          |     |                   |                        |      |                           | ECM           |
| 8HH(*)-240-3                  |          | 950      | 4.2 | 6.5               | 21.2                   | 16.3 | 320                       | PSC           |
| 8HHX(*)-240-3                 |          |          |     |                   |                        |      |                           | ECM           |
| 10HH(*)-240-3                 |          | 1170     | 5.2 | 10.0              | 26.2                   | 20.2 | 398                       | PSC           |
| 10HHX(*)-240-3                |          |          |     |                   |                        |      |                           | ECM           |
| 12HH(*)-240-3                 |          | 1460     | 6.4 | 9.2               | 32.1                   | 24.9 | 490                       | PSC           |
| 12HHX(*)-240-3                |          |          |     |                   |                        |      |                           | ECM           |
| 3HHS(*)-240-4                 |          | 4<br>ROW | 220 | 1.7               | 5.0                    | 8.5  | 5.1                       | 120           |
| 4HHS(*)-240-4                 | 400      |          | 3.2 | 24.0              | 15.8                   | 9.8  |                           | PSC           |
| 4HHX(*)-240-4                 |          |          |     |                   |                        |      |                           | ECM           |
| 6HHS(*)-240-4                 | 550      |          | 3.3 | 6.0               | 16.5                   | 11.0 |                           | PSC           |
| 6HH(*)-240-4                  | 770      |          | 4.5 | 9.0               | 22.5                   | 15.5 |                           | PSC           |
| 6HHX(*)-240-4                 |          |          |     |                   |                        |      |                           | ECM           |
| 8HH(*)-240-4                  | 920      |          | 5.0 | 10.0              | 24.9                   | 17.5 | 310                       | PSC           |
| 8HHX(*)-240-4                 |          |          |     |                   |                        |      |                           | ECM           |
| 10HH(*)-240-4                 | 1160     |          | 6.2 | 10.5              | 30.9                   | 22.1 | 390                       | PSC           |
| 10HHX(*)-240-4                |          |          |     |                   |                        |      |                           | ECM           |
| 12HH(*)-240-4                 | 1440     |          | 8.4 | 18.4              | 42.2                   | 30.7 | 485                       | PSC           |
| 12HHX(*)-240-4                |          |          |     |                   |                        |      |                           | ECM           |

**NOTE:**

Ratings based on high fan speed, standard air at dry coil operation, 10°F water temp. rise, ent. air 80DB, 67WB entering water at 45°F. Rated in accordance with ARI Standard 440.

**MOTOR TYPE:**

**SH** – Sensible Heat

**TH** – Total Heat

**SP** – Shaded Pole Motor

**PSC** – Perm. Split Capacitor

**ECM** – Electrically Commutated Motor

Power input is for motor only.

# HH SERIES

## CEILING FAN COILS

### ELECTRICAL

| ELECTRICAL DATA (240V) |          |           |             |           |             |                |                          |      |                                   |      |
|------------------------|----------|-----------|-------------|-----------|-------------|----------------|--------------------------|------|-----------------------------------|------|
| UNIT MODEL             | NOM. CFM | HEAT      |             |           |             | TOTAL AMPS (1) | MIN. CIR. AMPACITY (MCA) |      | MAX. OVERCURRENT PROTECTION (MOP) |      |
|                        |          | kW @ 240v | BTUH @ 240v | kW @ 208V | BTUH @ 208V |                | 208V                     | 240V | 208V                              | 240V |
| <b>3HHS-2</b>          | 300      | 2         | 6,820       | 1.5       | 5,120       | 9.3            | 11                       | 12   | 15                                | 15   |
| <b>-3</b>              |          | 3         | 10,230      | 2.3       | 7,680       | 13.5           | 15                       | 17   | 15                                | 20   |
| <b>-4</b>              |          | 4         | 13,640      | 3.0       | 10,240      | 17.6           | 20                       | 23   | 20                                | 25   |
| <b>-5</b>              |          | 5         | 17,050      | 3.8       | 12,800      | 21.8           | 24                       | 28   | 25                                | 30   |
| <b>4HHS-3</b>          | 400      | 3         | 10,230      | 2.3       | 7,680       | 13.3           | 15                       | 17   | 15                                | 20   |
| <b>-5</b>              |          | 5         | 17,050      | 3.8       | 12,800      | 21.6           | 24                       | 27   | 25                                | 30   |
| <b>-6</b>              |          | 6         | 20,460      | 4.5       | 15,360      | 25.8           | 28                       | 33   | 30                                | 35   |
| <b>6HHS-3</b>          | 600      | 3         | 10,230      | 2.3       | 7,680       | 13.8           | 16                       | 18   | 20                                | 20   |
| <b>-5</b>              |          | 5         | 17,050      | 3.8       | 12,800      | 22.1           | 23                       | 28   | 25                                | 30   |
| <b>-6</b>              |          | 6         | 20,460      | 4.5       | 15,360      | 26.3           | 30                       | 34   | 30                                | 35   |
| <b>6HH-3</b>           | 600      | 3         | 10,230      | 2.3       | 7,680       | 14.5           | 16                       | 20   | 20                                | 20   |
| <b>-4</b>              |          | 4         | 13,640      | 3.0       | 10,240      | 18.7           | 21                       | 24   | 25                                | 25   |
| <b>-5</b>              |          | 5         | 17,050      | 3.8       | 12,800      | 22.8           | 25                       | 30   | 25                                | 30   |
| <b>-6</b>              |          | 6         | 20,460      | 4.5       | 15,360      | 27             | 30                       | 35   | 30                                | 35   |
| <b>-8</b>              |          | 8         | 27,280      | 6.0       | 20,480      | 35.3           | 39                       | 47   | 40                                | 50   |
| <b>-10</b>             |          | 10        | 34,100      | 7.5       | 25,600      | 43.7           | 48                       | 55   | 50                                | 60   |
| <b>8HH-3</b>           | 800      | 3         | 10,230      | 2.3       | 7,680       | 14.5           | 16                       | 20   | 20                                | 20   |
| <b>-4</b>              |          | 4         | 13,640      | 3.0       | 10,240      | 18.7           | 24                       | 21   | 25                                | 25   |
| <b>-5</b>              |          | 5         | 17,050      | 3.8       | 12,800      | 22.8           | 25                       | 30   | 25                                | 30   |
| <b>-6</b>              |          | 6         | 20,460      | 4.5       | 15,360      | 27             | 30                       | 35   | 30                                | 35   |
| <b>-8</b>              |          | 8         | 27,280      | 6.0       | 20,480      | 35.3           | 39                       | 47   | 40                                | 50   |
| <b>-10</b>             |          | 10        | 34,100      | 7.5       | 25,600      | 43.7           | 48                       | 55   | 50                                | 60   |
| <b>10HH-3</b>          | 1000     | 3         | 10,230      | 2.3       | 7,680       | 14.5           | 16                       | 20   | 20                                | 20   |
| <b>-4</b>              |          | 4         | 13,640      | 3.0       | 10,240      | 18.7           | 21                       | 24   | 25                                | 25   |
| <b>-5</b>              |          | 5         | 17,050      | 3.8       | 12,800      | 22.8           | 25                       | 30   | 25                                | 30   |
| <b>-6</b>              |          | 6         | 20,460      | 4.5       | 15,360      | 27             | 30                       | 35   | 30                                | 35   |
| <b>-8</b>              |          | 8         | 27,280      | 6.0       | 20,480      | 35.3           | 39                       | 47   | 40                                | 50   |
| <b>-10</b>             |          | 10        | 34,100      | 7.5       | 25,600      | 43.7           | 48                       | 55   | 50                                | 60   |
| <b>12HH-3</b>          | 1200     | 3         | 10,230      | 2.3       | 7,680       | 15.3           | 18                       | 20   | 20                                | 20   |
| <b>-5</b>              |          | 5         | 17,050      | 3.8       | 12,800      | 23.6           | 27                       | 30   | 30                                | 30   |
| <b>-6</b>              |          | 6         | 20,460      | 4.5       | 15,360      | 27.8           | 31                       | 35   | 35                                | 35   |
| <b>-8</b>              |          | 8         | 27,280      | 6.0       | 20,480      | 36.1           | 40                       | 46   | 40                                | 50   |
| <b>-10</b>             |          | 10        | 34,100      | 7.5       | 25,600      | 44.5           | 49                       | 56   | 50                                | 60   |

(1) Includes motor and heaters (at 240V)

# HH SERIES

## CEILING FAN COILS

| ELECTRICAL DATA (277V) |          |      |        |          |            |                |                          |                                    |
|------------------------|----------|------|--------|----------|------------|----------------|--------------------------|------------------------------------|
| UNIT MODEL             | NOM. CFM | Heat |        | MOTOR HP | MOTOR AMPS | TOTAL AMPS (1) | MIN. CIR. AMPACITY (MCA) | MAX. OVERCURRENT. PROTECTION (MOP) |
|                        |          | kW   | BTUH   |          |            |                | 277V                     | 277V                               |
| 3HHS-1-277             | 300      | 1    | 3,410  | 1/20     | 0.48       | 4.1            | 6                        | 15                                 |
| -2-277                 |          | 2    | 6,820  |          | 0.48       | 7.7            | 10                       | 15                                 |
| -3-277                 |          | 3    | 10,230 |          | 0.48       | 11.3           | 15                       | 15                                 |
| 4HHS-1-277             | 400      | 1    | 3,410  | 1/10     | 0.90       | 4.5            | 6                        | 15                                 |
| -2-277                 |          | 2    | 6,820  |          | 0.90       | 8.1            | 11                       | 15                                 |
| -3-277                 |          | 3    | 10,230 |          | 0.90       | 11.7           | 15                       | 15                                 |
| -4-277                 |          | 4    | 13,640 |          | 0.90       | 15.3           | 20                       | 20                                 |
| 4HHS-1-277             | 400      | 1    | 3,410  | 1/6      | 1.40       | 5.0            | 7                        | 15                                 |
| -2-277                 |          | 2    | 6,820  |          | 1.40       | 8.6            | 11                       | 15                                 |
| -3-277                 |          | 3    | 10,230 |          | 1.40       | 12.2           | 16                       | 20                                 |
| -4-277                 |          | 4    | 13,640 |          | 1.40       | 15.8           | 20                       | 20                                 |
| 6HHS-1-277             | 600      | 1    | 3,410  | 1/6      | 1.40       | 5.0            | 7                        | 15                                 |
| -2-277                 |          | 2    | 6,820  |          | 1.40       | 8.6            | 11                       | 15                                 |
| -3-277                 |          | 3    | 10,230 |          | 1.40       | 12.2           | 16                       | 20                                 |
| -4-277                 |          | 4    | 13,640 |          | 1.40       | 15.8           | 20                       | 20                                 |
| 6HH-1-277              | 600      | 1    | 3,410  | 1/2      | 3.60       | 7.2            | 10                       | 15                                 |
| -2-277                 |          | 2    | 6,820  |          | 3.60       | 10.8           | 14                       | 15                                 |
| -3-277                 |          | 3    | 10,230 |          | 3.60       | 14.4           | 19                       | 20                                 |
| -4-277                 |          | 4    | 13,640 |          | 3.60       | 18.0           | 23                       | 25                                 |
| -5-277                 |          | 5    | 17,050 |          | 3.60       | 21.7           | 28                       | 30                                 |
| -6-277                 |          | 6    | 20,460 |          | 3.60       | 25.3           | 32                       | 35                                 |
| 8HH-1-277              | 800      | 1    | 3,410  | 1/2      | 3.60       | 7.2            | 10                       | 15                                 |
| -2-277                 |          | 2    | 6,820  |          | 3.60       | 10.8           | 14                       | 15                                 |
| -3-277                 |          | 3    | 10,230 |          | 3.60       | 14.4           | 19                       | 20                                 |
| -4-277                 |          | 4    | 13,640 |          | 3.60       | 18.0           | 23                       | 25                                 |
| -5-277                 |          | 5    | 17,050 |          | 3.60       | 21.7           | 28                       | 30                                 |
| -6-277                 |          | 6    | 20,460 |          | 3.60       | 25.3           | 32                       | 35                                 |
| -8-277                 |          | 8    | 27,280 |          | 3.60       | 32.5           | 41                       | 45                                 |
| 10HH-2-277             | 1000     | 2    | 6,820  | 1/2      | 3.60       | 10.8           | 14                       | 15                                 |
| -3-277                 |          | 3    | 10,230 |          | 3.60       | 14.4           | 19                       | 20                                 |
| -4-277                 |          | 4    | 13,640 |          | 3.60       | 18.0           | 23                       | 25                                 |
| -5-277                 |          | 5    | 17,050 |          | 3.60       | 21.7           | 28                       | 30                                 |
| -6-277                 |          | 6    | 20,460 |          | 3.60       | 25.3           | 32                       | 35                                 |
| -8-277                 |          | 8    | 27,280 |          | 3.60       | 32.5           | 41                       | 45                                 |
| -10-277                |          | 10   | 34,100 |          | 3.60       | 39.7           | 50                       | 50                                 |
| 12HH-2-277             | 1200     | 2    | 6,820  | 1/2      | 3.60       | 10.8           | 14                       | 15                                 |
| -3-277                 |          | 3    | 10,230 |          | 3.60       | 14.4           | 19                       | 20                                 |
| -4-277                 |          | 4    | 13,640 |          | 3.60       | 18.0           | 23                       | 25                                 |
| -5-277                 |          | 5    | 17,050 |          | 3.60       | 21.7           | 28                       | 30                                 |
| -6-277                 |          | 6    | 20,460 |          | 3.60       | 25.3           | 32                       | 35                                 |
| -8-277                 |          | 8    | 27,280 |          | 3.60       | 32.5           | 41                       | 45                                 |
| -10-277                |          | 10   | 34,100 |          | 3.60       | 39.7           | 50                       | 50                                 |

# HH SERIES

## CEILING FAN COILS

### HHS 240 VOLT PSC

#### BLOWER PERFORMANCE

| HH SERIES – CFM VS EXTERNAL STATIC PRESSURE (3 ROW) |      |           |  |      |      |      |      |      |      |      |
|---|------|-----------|--|------|------|------|------|------|------|------|
| MODEL   | H.P. | FAN SPEED | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |
|   |      |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 |
| 3HHS-3  | 1/30 | COOL      | 300  | 270  | 235  | 205  | ---  | ---  | ---  | ---  |
|   |      | HEAT      | 265  | 230  | 210  | 200  | ---  | ---  | ---  | ---  |
| 4HHS-3  | 1/15 | COOL      | 425  | 410  | 380  | 330  | ---  | ---  | ---  | ---  |
|   |      | HEAT      | 395  | 360  | 320  | 285  | ---  | ---  | ---  | ---  |
| 6HHS-3  | 1/12 | COOL      | 605  | 535  | 485  | 425  | ---  | ---  | ---  | ---  |
|   |      | HEAT      | 500  | 390  | 320  | 270  | ---  | ---  | ---  | ---  |
| 6HH-3   | 1/8  | COOL      | ---  | ---  | 805  | 770  | 735  | 700  | 665  | 625  |
|   |      | HEAT      | ---  | ---  | 700  | 970  | 640  | 610  | 580  | 550  |
| 8HH-3   | 1/4  | COOL      | ---  | ---  | 895  | 860  | 825  | 795  | 760  | 725  |
|   |      | HEAT      | ---  | ---  | 775  | 750  | 720  | 690  | 655  | 625  |
| 10HH-3  | 1/4  | COOL      | ---  | ---  | 1110 | 1075 | 1040 | 1000 | 955  | 915  |
|   |      | HEAT      | ---  | ---  | 715  | 695  | 670  | 645  | 620  | 600  |
| 12HH-3  | 1/3  | COOL      | ---  | ---  | 1395 | 1345 | 1295 | 1245 | 1195 | 1145 |
|   |      | HEAT      | ---  | ---  | 950  | 920  | 890  | 855  | 820  | 775  |

| HH SERIES – CFM VS EXTERNAL STATIC PRESSURE (4 ROW) |      |           |  |      |      |      |      |      |      |      |
|---|------|-----------|--|------|------|------|------|------|------|------|
| MODEL   | H.P. | FAN SPEED | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |
|   |      |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 |
| 3HHS-4  | 1/30 | COOL      | 255  | 215  | 200  | 175  | ---  | ---  | ---  | ---  |
|   |      | HEAT      | 230  | 200  | 175  | 150  | ---  | ---  | ---  | ---  |
| 4HHS-4  | 1/15 | COOL      | 410  | 390  | 335  | 265  | ---  | ---  | ---  | ---  |
|   |      | HEAT      | 325  | 320  | 290  | 235  | ---  | ---  | ---  | ---  |
| 6HHS-4  | 1/12 | COOL      | 535  | 490  | 435  | 365  | ---  | ---  | ---  | ---  |
|   |      | HEAT      | 350  | 335  | 320  | 290  | ---  | ---  | ---  | ---  |
| 6HH-4   | 1/8  | COOL      | ---  | ---  | 740  | 705  | 675  | 640  | 605  | 565  |
|   |      | HEAT      | ---  | ---  | 650  | 625  | 600  | 570  | 535  | 495  |
| 8HH-4   | 1/4  | COOL      | ---  | ---  | 810  | 780  | 750  | 715  | 680  | 645  |
|   |      | HEAT      | ---  | ---  | 730  | 700  | 670  | 640  | 610  | 580  |
| 10HH-4  | 1/4  | COOL      | ---  | ---  | 1070 | 1030 | 995  | 960  | 930  | 895  |
|   |      | HEAT      | ---  | ---  | 775  | 750  | 725  | 700  | 670  | 640  |
| 12HH-4  | 1/3  | COOL      | ---  | ---  | 1270 | 1215 | 1165 | 1115 | 1070 | 1025 |
|   |      | HEAT      | ---  | ---  | 950  | 915  | 880  | 850  | 820  | 790  |

# HH SERIES

## CEILING FAN COILS

# RHH

## RHH 277 VOLT PSC

### BLOWER PERFORMANCE

| RHH SERIES – CFM VS EXTERNAL STATIC PRESSURE (3 ROW) |      |           |  |      |      |      |      |      |      |      |
|--|------|-----------|--|------|------|------|------|------|------|------|
| MODEL  | H.P. | FAN SPEED | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |
|  |      |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 |
| 3RHHS-3  | 1/20 | COOL      | 265  | 235  | 205  | 170  | ---  | ---  | ---  | ---  |
|  |      | HEAT      | 230  | 195  | 165  | 135  | ---  | ---  | ---  | ---  |
| 4RHHS-3  | 1/15 | COOL      | 530  | 465  | 415  | 365  | ---  | ---  | ---  | ---  |
|  |      | HEAT      | 445  | 390  | 335  | 280  | ---  | ---  | ---  | ---  |
| 6RHHS-3  | 1/15 | COOL      | 525  | 445  | 375  | 300  | ---  | ---  | ---  | ---  |
|  |      | HEAT      | 425  | 370  | 305  | 225  | ---  | ---  | ---  | ---  |
| 6RHH-3   | 1/12 | COOL      | ---  | ---  | 565  | 515  | 470  | 420  | 375  | ---  |
|  |      | HEAT      | ---  | ---  | 445  | 400  | 360  | ---  | ---  | ---  |
| 8RHH-3   | 1/6  | COOL      | ---  | ---  | 745  | 715  | 690  | 665  | 650  | 635  |
|  |      | HEAT      | ---  | ---  | 660  | 630  | 600  | 570  | 535  | 495  |
| 10RHH-3  | 1/4  | COOL      | ---  | ---  | 990  | 950  | 910  | 870  | 830  | 795  |
|  |      | HEAT      | ---  | ---  | 870  | 830  | 795  | 765  | 730  | 700  |
| 12RHH-3  | 1/3  | COOL      | ---  | ---  | 1305 | 1260 | 1220 | 1185 | 1145 | 1100 |
|  |      | HEAT      | ---  | ---  | 1180 | 1140 | 1105 | 1070 | 1030 | 990  |

| RHH SERIES – CFM VS EXTERNAL STATIC PRESSURE (4 ROW) |      |           |  |      |      |      |      |      |      |      |
|--|------|-----------|--|------|------|------|------|------|------|------|
| MODEL  | H.P. | FAN SPEED | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |
|  |      |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 |
| 3RHHS-4  | 1/20 | COOL      | 230  | 215  | 180  | 160  | ---  | ---  | ---  | ---  |
|  |      | HEAT      | 205  | 180  | 150  | 125  | ---  | ---  | ---  | ---  |
| 4RHHS-4  | 1/15 | COOL      | 490  | 420  | 360  | 295  | ---  | ---  | ---  | ---  |
|  |      | HEAT      | 415  | 365  | 310  | 230  | ---  | ---  | ---  | ---  |
| 6RHHS-4  | 1/15 | COOL      | 485  | 410  | 330  | 250  | ---  | ---  | ---  | ---  |
|  |      | HEAT      | 420  | 345  | 280  | 210  | ---  | ---  | ---  | ---  |
| 6RHH-4   | 1/12 | COOL      | ---  | ---  | 560  | 525  | 490  | 455  | 415  | 370  |
|  |      | HEAT      | ---  | ---  | 480  | 445  | 415  | 380  | 350  | ---  |
| 8RHH-4   | 1/6  | COOL      | ---  | ---  | 660  | 610  | 565  | 520  | 470  | 415  |
|  |      | HEAT      | ---  | ---  | 585  | 535  | 490  | 445  | 395  | 350  |
| 10RHH-4  | 1/4  | COOL      | ---  | ---  | 925  | 890  | 860  | 830  | 795  | 765  |
|  |      | HEAT      | ---  | ---  | 820  | 790  | 765  | 740  | 710  | 680  |
| 12RHH-4  | 1/3  | COOL      | ---  | ---  | 1190 | 1145 | 1105 | 1065 | 1030 | 995  |
|  |      | HEAT      | ---  | ---  | 1070 | 1030 | 995  | 960  | 920  | 885  |

# HH SERIES

CEILING FAN COILS

# PHH/RHH/CHH

## PHH / RHH / CHH 240 VOLT PSC

BLOWER PERFORMANCE

| PHH / RHH / CHH SERIES 240V                              |      |           |  |      |      |      |      |      |      |      |
|--|------|-----------|--|------|------|------|------|------|------|------|
| PHH/RHH SERIES – CFM vs EXTERNAL STATIC PRESSURE (3 ROW) |      |           |  |      |      |      |      |      |      |      |
| MODEL  | H.P. | FAN SPEED | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |
|  |      |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 |
| 3PHHS-3  | 1/30 | COOL      | 270  | 255  | 215  | 180  | 150  | 105  | ---  | ---  |
|  |      | HEAT      | 250  | 215  | 185  | 160  | 130  | 80   | ---  | ---  |
| 4PHHS-3  | 1/15 | COOL      | 430  | 395  | 350  | 295  | 239  | ---  | ---  | ---  |
|  |      | HEAT      | 340  | 320  | 295  | 255  | 202  | ---  | ---  | ---  |
| 6PHHS-3  | 1/12 | COOL      | 570  | 490  | 415  | 335  | 245  | 140  | ---  | ---  |
|  |      | HEAT      | 290  | 285  | 270  | 230  | 175  | 60   | ---  | ---  |
| 6PHH-3   | 1/8  | COOL      | 820  | 765  | 710  | 660  | 615  | 570  | 530  | 485  |
|  |      | HEAT      | 720  | 673  | 625  | 575  | 535  | 495  | 460  | 415  |
| 8PHH-3   | 1/4  | COOL      | ---  | ---  | 860  | 830  | 800  | 770  | 740  | 710  |
|  |      | HEAT      | ---  | ---  | 555  | 540  | 525  | 505  | 490  | 470  |
| 10PHH-3  | 1/4  | COOL      | ---  | ---  | 1050 | 1010 | 965  | 920  | 875  | 825  |
|  |      | HEAT      | ---  | ---  | 760  | 735  | 710  | 675  | 640  | 600  |
| 12PHH-3  | 1/3  | COOL      | ---  | ---  | 1230 | 1205 | 1165 | 1115 | 1065 | 1005 |
|  |      | HEAT      | ---  | ---  | 910  | 870  | 835  | 805  | 765  | 720  |

| PHH / RHH / CHH SERIES                              |      |             |  |      |      |      |      |      |      |      |
|---|------|-------------|--|------|------|------|------|------|------|------|
| HH SERIES – CFM vs EXTERNAL STATIC PRESSURE (4 ROW) |      |             |  |      |      |      |      |      |      |      |
| MODEL   | H.P. | "FAN SPEED" | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |
|   |      |             | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 |
| 3PHHS-4   | 1/30 | COOL        | 225  | 195  | 165  | 130  | 90   | 55   | ---  | ---  |
|   |      | HEAT        | 210  | 175  | 145  | 115  | 80   | 45   | ---  | ---  |
| 4PHHS-4   | 1/15 | COOL        | 420  | 375  | 315  | 243  | 170  | 50   | ---  | ---  |
|   |      | HEAT        | 330  | 305  | 265  | 208  | 150  | 50   | ---  | ---  |
| 6PHHS-4   | 1/12 | COOL        | 500  | 450  | 395  | 320  | 245  | 245  | ---  | ---  |
|   |      | HEAT        | 325  | 320  | 300  | 245  | 190  | 100  | ---  | ---  |
| 6PHH-4  | 1/8  | COOL        | ---  | ---  | 680  | 645  | 610  | 570  | 530  | 490  |
|   |      | HEAT        | ---  | ---  | 645  | 565  | 485  | 430  | 395  | 360  |
| 8PHH-4  | 1/4  | COOL        | ---  | ---  | 740  | 690  | 645  | 605  | 560  | 515  |
|   |      | HEAT        | ---  | ---  | 650  | 610  | 570  | 530  | 490  | 445  |
| 10PHH-4   | 1/4  | COOL        | ---  | ---  | 990  | 950  | 915  | 875  | 840  | 800  |
|   |      | HEAT        | ---  | ---  | 750  | 725  | 700  | 675  | 650  | 620  |
| 12PHH-4   | 1/3  | COOL        | ---  | ---  | 1200 | 1150 | 1110 | 1065 | 1020 | 975  |
|   |      | HEAT        | ---  | ---  | 900  | 870  | 840  | 800  | 760  | 710  |

# HH SERIES

CEILING FAN COILS

# PHH/RHH/CHH

## PHH / RHH / CHH 208 VOLT PSC

BLOWER PERFORMANCE

| PHH / RHH / CHH SERIES 208V                          |      |           |  |      |      |      |      |      |      |      |
|--|------|-----------|--|------|------|------|------|------|------|------|
| RHH SERIES – CFM vs EXTERNAL STATIC PRESSURE (3 ROW) |      |           |  |      |      |      |      |      |      |      |
| MODEL  | H.P. | FAN SPEED | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |
|  |      |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 |
| 3RHHS-3  | 1/30 | COOL      | 265  | 237  | 205  | 176  | 146  | 104  | ---  | ---  |
|  |      | HEAT      | 250  | 215  | 185  | 160  | 130  | 80   | ---  | ---  |
| 4RHHS-3  | 1/50 | COOL      | 359  | 336  | 312  | 263  | 214  | 131  | 47   | ---  |
|  |      | HEAT      | 278  | 256  | 233  | 198  | 162  | 103  | 43   | ---  |
| 6RHHS-3  | 1/12 | COOL      | 547  | 471  | 394  | 317  | 239  | 141  | ---  | ---  |
|  |      | HEAT      | 227  | 218  | 208  | 168  | 128  | 59   | ---  | ---  |
| 6RHH-3   | 1/8  | COOL      | 779  | 726  | 673  | 633  | 592  | 545  | 498  | 448  |
|  |      | HEAT      | 640  | 592  | 544  | 510  | 475  | 435  | 394  | 348  |
| 8RHH-3   | 1/4  | COOL      | 875  | 838  | 800  | 768  | 736  | 701  | 666  | 629  |
|  |      | HEAT      | 730  | 704  | 677  | 650  | 623  | 596  | 568  | 538  |
| 10RHH-3  | 1/4  | COOL      | 1075                                       | 1034 | 993  | 952  | 911  | 875  | 839  | 786  |
|  |      | HEAT      | 702  | 679  | 656  | 631  | 606  | 579  | 552  | 511  |
| 12RHH-3  | 1/3  | COOL      | 1304                                       | 1256 | 1208 | 1168 | 1127 | 1076 | 1025 | 971  |
|  |      | HEAT      | 851  | 813  | 774  | 738  | 702  | 671  | 640  | 605  |

| RHH SERIES – CFM vs EXTERNAL STATIC PRESSURE (4 ROW) |      |           |  |      |      |      |      |      |      |      |
|--|------|-----------|--|------|------|------|------|------|------|------|
| MODEL  | H.P. | FAN SPEED | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |
|  |      |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 |
| 3RHHS-4  | 1/30 | COOL      | 220  | 180  | 162  | 125  | 93   | 58   | ---  | ---  |
|  |      | HEAT      | 198  | 170  | 141  | 109  | 80   | 43   | ---  | ---  |
| 4RHHS-4  | 1/50 | COOL      | 360  | 319  | 278  | 214  | 149  | 48   | ---  | ---  |
|  |      | HEAT      | ---  | ---  | 224  | 166  | 108  | 34   | ---  | ---  |
| 6RHHS-4  | 1/12 | COOL      | 489  | 434  | 379  | 347  | 249  | 149  | 48   | ---  |
|  |      | HEAT      | 227  | 210  | 157  | 84   | 157  | ---  | ---  | ---  |
| 6RHH-4   | 1/8  | COOL      | 736  | 700  | 663  | 630  | 596  | 558  | 520  | 476  |
|  |      | HEAT      | 641  | 585  | 529  | 486  | 443  | 399  | 355  | 301  |
| 8RHH-4   | 1/4  | COOL      | 834  | 779  | 723  | 684  | 645  | 600  | 555  | 502  |
|  |      | HEAT      | 710  | 659  | 607  | 568  | 529  | 491  | 453  | 408  |
| 10RHH-4  | 1/4  | COOL      | 1025                                       | 991  | 956  | 922  | 887  | 847  | 807  | 770  |
|  |      | HEAT      | 687  | 664  | 640  | 619  | 597  | 579  | 561  | 537  |
| 12RHH-4  | 1/3  | COOL      | 1284                                       | 1233 | 1182 | 1133 | 1084 | 1036 | 988  | 941  |
|  |      | HEAT      | 832  | 796  | 760  | 731  | 702  | 671  | 640  | 605  |

# HH SERIES

## CEILING FAN COILS



| ELECTRICAL DATA ECM (240V) |          |           |             |           |             |                |                          |      |                                   |      |    |
|----------------------------|----------|-----------|-------------|-----------|-------------|----------------|--------------------------|------|-----------------------------------|------|----|
| UNIT MODEL                 | NOM. CFM | HEAT      |             |           |             | TOTAL AMPS (1) | MIN. CIR. AMPACITY (MCA) |      | MAX. OVERCURRENT PROTECTION (MOP) |      |    |
|                            |          | KW @ 240V | BTUH @ 240V | KW @ 208V | BTUH @ 208V |                | 208V                     | 240V | 208V                              | 240V |    |
| 4HHSX                      | -2       | 400       | 2           | 6,820     | 1.5         | 5,120          | 9.7                      | 11   | 13                                | 15   | 15 |
|                            | -3       |           | 3           | 10,230    | 2.3         | 7,680          | 13.9                     | 16   | 18                                | 20   | 20 |
|                            | -4       |           | 4           | 13,640    | 3.0         | 10,240         | 18.1                     | 20   | 23                                | 20   | 25 |
|                            | -5       |           | 5           | 17,050    | 3.8         | 12,800         | 22.2                     | 25   | 28                                | 25   | 30 |
| 6HHSX                      | -3       | 600       | 3           | 10,230    | 2.3         | 7,680          | 13.9                     | 16   | 18                                | 20   | 20 |
|                            | -4       |           | 4           | 13,640    | 3.0         | 10,240         | 18.1                     | 20   | 23                                | 20   | 25 |
|                            | -5       |           | 5           | 17,050    | 3.8         | 12,800         | 22.2                     | 25   | 28                                | 25   | 30 |
|                            | -6       |           | 6           | 20,460    | 4.5         | 15,360         | 26.4                     | 29   | 33                                | 30   | 35 |
| 6HHX                       | -3       | 600       | 3           | 10,230    | 2.3         | 7,680          | 16.8                     | 19   | 21                                | 20   | 25 |
|                            | -4       |           | 4           | 13,640    | 3.0         | 10,240         | 21.0                     | 24   | 27                                | 25   | 30 |
|                            | -5       |           | 5           | 17,050    | 3.8         | 12,800         | 25.1                     | 28   | 32                                | 30   | 35 |
|                            | -6       |           | 6           | 20,460    | 4.5         | 15,360         | 29.3                     | 33   | 37                                | 35   | 40 |
|                            | -8       |           | 8           | 27,280    | 6.0         | 20,480         | 37.6                     | 42   | 47                                | 50   | 50 |
|                            | -10      |           | 10          | 34,100    | 7.5         | 25,600         | 46.0                     | 51   | 58                                | 60   | 60 |
| 8HHSX                      | -3       | 800       | 3           | 10,230    | 2.3         | 7,680          | 16.8                     | 19   | 21                                | 20   | 25 |
|                            | -4       |           | 4           | 13,640    | 3.0         | 10,240         | 21.0                     | 24   | 27                                | 25   | 30 |
|                            | -5       |           | 5           | 17,050    | 3.8         | 12,800         | 25.1                     | 28   | 32                                | 30   | 35 |
|                            | -6       |           | 6           | 20,460    | 4.5         | 15,360         | 29.3                     | 33   | 37                                | 35   | 40 |
|                            | -8       |           | 8           | 27,280    | 6.0         | 20,480         | 37.6                     | 42   | 47                                | 50   | 50 |
|                            | -10      |           | 10          | 34,100    | 7.5         | 25,600         | 46.0                     | 51   | 58                                | 60   | 60 |
| 10HHX                      | -3       | 1000      | 3           | 10,230    | 2.3         | 7,680          | 16.8                     | 19   | 21                                | 20   | 25 |
|                            | -4       |           | 4           | 13,640    | 3.0         | 10,240         | 21.0                     | 24   | 27                                | 25   | 30 |
|                            | -5       |           | 5           | 17,050    | 3.8         | 12,800         | 25.1                     | 28   | 32                                | 30   | 35 |
|                            | -6       |           | 6           | 20,460    | 4.5         | 15,360         | 29.3                     | 33   | 37                                | 35   | 40 |
|                            | -8       |           | 8           | 27,280    | 6.0         | 20,480         | 37.6                     | 42   | 47                                | 50   | 50 |
|                            | -10      |           | 10          | 34,100    | 7.5         | 25,600         | 46.0                     | 51   | 58                                | 60   | 60 |
| 12HHSX                     | -3       | 1200      | 3           | 10,230    | 2.3         | 7,680          | 16.8                     | 19   | 21                                | 20   | 25 |
|                            | -5       |           | 5           | 17,050    | 3.8         | 12,800         | 25.1                     | 28   | 32                                | 30   | 35 |
|                            | -6       |           | 6           | 20,460    | 4.5         | 15,360         | 29.3                     | 33   | 37                                | 35   | 40 |
|                            | -8       |           | 8           | 27,280    | 6.0         | 20,480         | 37.6                     | 42   | 47                                | 50   | 50 |
|                            | -10      |           | 10          | 34,100    | 7.5         | 25,600         | 46.0                     | 51   | 58                                | 60   | 60 |

(1) Includes motor and heaters (at 240V)

# HH SERIES

## CEILING FAN COILS



| ELECTRICAL DATA ECM (277V) |         |          |           |             |          |            |                |                          |                                   |
|----------------------------|---------|----------|-----------|-------------|----------|------------|----------------|--------------------------|-----------------------------------|
| UNIT MODEL                 |         | NOM. CFM | HEAT      |             | MOTOR HP | MOTOR AMPS | TOTAL AMPS (1) | MIN. CIR. AMPACITY (MCA) | MAX. OVERCURRENT PROTECTION (MOP) |
|                            |         |          | KW @ 277V | BTUH @ 277V |          |            |                | 277V                     | 277V                              |
| 4HHSX                      | -3-277  | 400      | 3         | 10,230      | 1/6      | 1.4        | 12.2           | 16                       | 20                                |
|                            | -5-277  |          | 5         | 17,050      |          | 1.4        | 19.5           | 25                       | 25                                |
|                            | -6-277  |          | 6         | 20,460      |          | 1.4        | 23.1           | 29                       | 30                                |
| 6HHSX                      | -3-277  | 600      | 3         | 10,230      | 1/6      | 1.4        | 12.2           | 16                       | 20                                |
|                            | -5-277  |          | 5         | 17,050      |          | 1.4        | 19.5           | 25                       | 25                                |
|                            | -6-277  |          | 6         | 20,460      |          | 1.4        | 23.1           | 29                       | 30                                |
| 6HHX                       | -3-277  | 600      | 3         | 10,230      | 1/2      | 3.6        | 14.4           | 18                       | 20                                |
|                            | -4-277  |          | 4         | 13,640      |          | 3.6        | 18.0           | 23                       | 25                                |
|                            | -5-277  |          | 5         | 17,050      |          | 3.6        | 21.7           | 28                       | 30                                |
|                            | -6-277  |          | 6         | 20,460      |          | 3.6        | 25.3           | 32                       | 35                                |
| 8HHX                       | -3-277  | 800      | 3         | 10,230      | 1/2      | 3.6        | 14.4           | 18                       | 20                                |
|                            | -4-277  |          | 4         | 13,640      |          | 3.6        | 18.0           | 23                       | 25                                |
|                            | -5-277  |          | 5         | 17,050      |          | 3.6        | 21.7           | 28                       | 30                                |
|                            | -6-277  |          | 6         | 20,460      |          | 3.6        | 25.3           | 32                       | 35                                |
|                            | -8-277  |          | 8         | 27,280      |          | 3.6        | 32.5           | 41                       | 45                                |
|                            | -10-277 |          | 10        | 34,100      |          | 3.6        | 39.7           | 50                       | 50                                |
| 10HHX                      | -3-277  | 1000     | 3         | 10,230      | 1/2      | 3.6        | 14.4           | 18                       | 20                                |
|                            | -4-277  |          | 4         | 13,640      |          | 3.6        | 18.0           | 23                       | 25                                |
|                            | -5-277  |          | 5         | 17,050      |          | 3.6        | 21.7           | 28                       | 30                                |
|                            | -6-277  |          | 6         | 20,460      |          | 3.6        | 25.3           | 32                       | 35                                |
|                            | -8-277  |          | 8         | 27,280      |          | 3.6        | 32.5           | 41                       | 45                                |
|                            | -10-277 |          | 10        | 34,100      |          | 3.6        | 39.7           | 50                       | 50                                |
| 12HHX                      | -3-277  | 1200     | 3         | 10,230      | 1/2      | 3.6        | 14.4           | 18                       | 20                                |
|                            | -5-277  |          | 5         | 17,050      |          | 3.6        | 21.7           | 28                       | 30                                |
|                            | -6-277  |          | 6         | 20,460      |          | 3.6        | 25.3           | 32                       | 35                                |
|                            | -8-277  |          | 8         | 27,280      |          | 3.6        | 32.5           | 41                       | 45                                |
|                            | -10-277 |          | 10        | 34,100      |          | 3.6        | 39.7           | 50                       | 50                                |

(1) Includes motor and heaters

# HH SERIES

CEILING FAN COILS



## HHX 240 VOLT ECM BLOWER PERFORMANCE

| HHX SERIES 240V |                   |               |  |      |      |      |      |      |      |      |      |      |      |
|-----------------|-------------------|---------------|--|------|------|------|------|------|------|------|------|------|------|
| MODEL           | MOTOR HP          | SPEED TAP     | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |      |      |      |
|                 |                   |               | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 |
| 3HHSX           | 1/20              | Optional High | 353  | 333  | 319  | 305  | 269  | 258  | 246  | 234  | 220  | 206  | 193  |
|                 |                   | Std. High     | 293  | 277  | 245  | 234  | 224  | 211  | 201  | 191  | 180  | 169  | 159  |
|                 |                   | Std. Low      | 248  | 229  | 216  | 202  | 188  | 177  | 165  | 153  | 140  | 129  | ---  |
| 4HHSX           | 1/7<br>or<br>1/10 | Optional High | 473  | 430  | 409  | 392  | 371  | 357  | 341  | 328  | ---  | ---  | ---  |
|                 |                   | Std. High     | 395  | 373  | 350  | 332  | 308  | 290  | 247  | 229  | ---  | ---  | ---  |
|                 |                   | Std. Low      | 323  | 290  | 263  | 241  | 217  | 196  | 176  | 149  | ---  | ---  | ---  |
| 6HHSX           | 1/7               | Optional High | 665  | 625  | 595  | 570  | 545  | 525  | 505  | ---  | ---  | ---  | ---  |
|                 |                   | Std. High     | 625  | 575  | 545  | 520  | 495  | 475  | 455  | ---  | ---  | ---  | ---  |
|                 |                   | Std. Low      | 520  | 480  | 445  | 415  | 390  | 365  | 340  | ---  | ---  | ---  | ---  |
| 6HHX            | 1/2               | Optional High | 806  | 780  | 754  | 734  | 714  | 698  | 683  | 662  | 642  | 608  | 575  |
|                 |                   | Std. High     | 679  | 654  | 629  | 609  | 589  | 570  | 551  | 530  | 510  | 495  | 479  |
|                 |                   | Std. Low      | 589  | 555  | 520  | 502  | 483  | 467  | 452  | 427  | 402  | 378  | 354  |
| 8HHX            | 1/2               | Optional High | 916  | 879  | 842  | 810  | 779  | 742  | 706  | 671  | 637  | 601  | 565  |
|                 |                   | Std. High     | 864  | 840  | 816  | 790  | 765  | 731  | 698  | 665  | 633  | 597  | 560  |
|                 |                   | Std. Low      | 761  | 733  | 706  | 682  | 658  | 637  | 616  | 597  | 579  | 558  | 536  |
| 10HHX           | 1/2               | Optional High | 1275                                       | 1252 | 1229 | 1212 | 1196 | 1174 | 1152 | 1108 | 1064 | 1016 | 969  |
|                 |                   | Std. High     | 1177                                       | 1152 | 1127 | 1109 | 1091 | 1072 | 1053 | 1037 | 1020 | 986  | 951  |
|                 |                   | Std. Low      | 992  | 969  | 946  | 927  | 908  | 886  | 864  | 848  | 832  | 812  | 791  |
| 12HHX           | 1/2               | Optional High | 1363                                       | 1344 | 1325 | 1305 | 1285 | 1268 | 1252 | 1234 | 1217 | 1199 | 1181 |
|                 |                   | Std. High     | 1267                                       | 1244 | 1221 | 1202 | 1184 | 1167 | 1150 | 1132 | 1115 | 1097 | 1079 |
|                 |                   | Std. Low      | 1110                                       | 1092 | 1073 | 1060 | 1047 | 1039 | 1030 | 994  | 957  | 939  | 921  |

# HH SERIES

## CEILING FAN COILS



### HHSX-HHX 240V ECM BLOWER PERFORMANCE

| HHX 3-ROW (240V) |          |           |  |      |      |      |      |      |      |      |      |      |
|------------------|----------|-----------|--|------|------|------|------|------|------|------|------|------|
| UNIT MODEL       | MOTOR HP | SPEED TAP | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |      |      |
|                  |          |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.5  |
| 4HHSX-3          | 1/7      | Opt. High | 495  | 465  | 435  | 410  | 380  | 355  | 330  | -    | -    | -    |
|                  |          | Std. High | 435  | 415  | 385  | 360  | 335  | 305  | 280  | -    | -    | -    |
|                  |          | Std. Low  | 370  | 345  | 320  | 290  | 265  | 240  | 210  | -    | -    | -    |
| 6HHSX-3          | 1/7      | Opt. High | 700  | 665  | 630  | 605  | 580  | 555  | 535  | -    | -    | -    |
|                  |          | Std. High | 645  | 610  | 580  | 550  | 525  | 505  | 480  | -    | -    | -    |
|                  |          | Std. Low  | 545  | 510  | 470  | 440  | 410  | 385  | 360  | -    | -    | -    |
| 6HHX-3           | 1/2      | Opt. High | 980  | 950  | 920  | 890  | 865  | 840  | 810  | 785  | 755  | 695  |
|                  |          | Std. High | 815  | 790  | 765  | 740  | 715  | 695  | 675  | 650  | 630  | 590  |
|                  |          | Std. Low  | 715  | 680  | 650  | 625  | 600  | 575  | 555  | 530  | 510  | 465  |
| 8HHX-3           | 1/2      | Opt. High | 1040                                       | 1010 | 975  | 940  | 905  | 865  | 830  | 795  | 760  | 680  |
|                  |          | Std. High | 1030                                       | 1000 | 965  | 930  | 895  | 860  | 825  | 790  | 755  | 680  |
|                  |          | Std. Low  | 895  | 870  | 845  | 820  | 790  | 760  | 735  | 705  | 680  | 625  |
| 10HHX-3          | 1/2      | Opt. High | 1325                                       | 1305 | 1285 | 1265 | 1240 | 1210 | 1180 | 1145 | 1100 | 1000 |
|                  |          | Std. High | 1220                                       | 1195 | 1170 | 1150 | 1130 | 1110 | 1085 | 1060 | 1035 | 960  |
|                  |          | Std. Low  | 1025                                       | 1005 | 980  | 960  | 940  | 915  | 890  | 870  | 845  | 790  |
| 12HHX-3          | 1/2      | Opt. High | 1415                                       | 1395 | 1375 | 1355 | 1330 | 1310 | 1295 | 1275 | 1255 | 1220 |
|                  |          | Std. High | 1300                                       | 1280 | 1260 | 1240 | 1225 | 1205 | 1185 | 1170 | 1150 | 1115 |
|                  |          | Std. Low  | 1160                                       | 1140 | 1120 | 1100 | 1080 | 1060 | 1040 | 1015 | 990  | 945  |

| HHX 4-ROW (240V) |          |           |  |      |      |      |      |      |      |      |      |      |
|------------------|----------|-----------|--|------|------|------|------|------|------|------|------|------|
| UNIT MODEL       | MOTOR HP | SPEED TAP | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |      |      |
|                  |          |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.5  |
| 4HHSX-4          | 1/7      | Opt. High | 465  | 440  | 410  | 385  | 360  | 335  | 310  | -    | -    | -    |
|                  |          | Std. High | 410  | 390  | 365  | 340  | 315  | 290  | 265  | -    | -    | -    |
|                  |          | Std. Low  | 350  | 325  | 300  | 275  | 250  | 225  | 200  | -    | -    | -    |
| 6HHSX-4          | 1/7      | Opt. High | 660  | 625  | 595  | 570  | 545  | 525  | 505  | -    | -    | -    |
|                  |          | Std. High | 610  | 575  | 545  | 520  | 495  | 475  | 455  | -    | -    | -    |
|                  |          | Std. Low  | 515  | 480  | 445  | 415  | 390  | 365  | 340  | -    | -    | -    |
| 6HHX-4           | 1/2      | Opt. High | 925  | 895  | 870  | 845  | 815  | 790  | 765  | 735  | 710  | 655  |
|                  |          | Std. High | 770  | 745  | 720  | 695  | 675  | 655  | 635  | 615  | 595  | 555  |
|                  |          | Std. Low  | 675  | 645  | 615  | 590  | 570  | 545  | 520  | 500  | 480  | 440  |
| 8HHX-4           | 1/2      | Opt. High | 980  | 950  | 920  | 885  | 855  | 820  | 785  | 750  | 715  | 640  |
|                  |          | Std. High | 970  | 940  | 910  | 880  | 845  | 815  | 780  | 745  | 710  | 640  |
|                  |          | Std. Low  | 845  | 820  | 795  | 770  | 745  | 720  | 695  | 665  | 640  | 590  |
| 10HHX-4          | 1/2      | Opt. High | 1250                                       | 1230 | 1210 | 1190 | 1170 | 1145 | 1115 | 1080 | 1040 | 945  |
|                  |          | Std. High | 1150                                       | 1125 | 1105 | 1085 | 1065 | 1045 | 1025 | 1000 | 975  | 905  |
|                  |          | Std. Low  | 965  | 945  | 925  | 905  | 885  | 865  | 840  | 820  | 795  | 745  |
| 12HHX-4          | 1/2      | Opt. High | 1335                                       | 1315 | 1295 | 1275 | 1255 | 1235 | 1220 | 1200 | 1185 | 1150 |
|                  |          | Std. High | 1225                                       | 1210 | 1190 | 1175 | 1155 | 1135 | 1120 | 1105 | 1085 | 1050 |
|                  |          | Std. Low  | 1095                                       | 1075 | 1055 | 1040 | 1020 | 1000 | 980  | 960  | 935  | 890  |

# HH SERIES

## CEILING FAN COILS



### HHX 277 VOLT ECM

#### BLOWER PERFORMANCE

| HHX 3-ROW (277V) |          |           |  |      |      |      |      |      |      |      |      |      |
|------------------|----------|-----------|--|------|------|------|------|------|------|------|------|------|
| UNIT MODEL       | MOTOR HP | SPEED TAP | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |      |      |
|                  |          |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.5  |
| 4HHSX-3<br>277   | 1/6      | Opt. High | 500  | 465  | 435  | 400  | 370  | 345  | 315  | -    | -    | -    |
|                  |          | Std. High | 445  | 410  | 375  | 340  | 310  | 280  | 255  | -    | -    | -    |
|                  |          | Std. Low  | 360  | 320  | 285  | 255  | 225  | 195  | 165  | -    | -    | -    |
| 6HHSX-3<br>277   | 1/6      | Opt. High | 645  | 615  | 585  | 555  | 530  | 505  | 480  | -    | -    | -    |
|                  |          | Std. High | 560  | 520  | 485  | 455  | 425  | 400  | 370  | -    | -    | -    |
|                  |          | Std. Low  | 445  | 405  | 365  | 330  | 295  | 260  | 225  | -    | -    | -    |
| 6HHX-3<br>277    | 1/2      | Opt. High | 845  | 820  | 795  | 770  | 750  | 725  | 700  | 680  | 655  | 610  |
|                  |          | Std. High | 700  | 675  | 650  | 625  | 605  | 585  | 560  | 540  | 515  | 465  |
|                  |          | Std. Low  | 600  | 575  | 550  | 525  | 500  | 475  | 450  | 425  | 400  | 350  |
| 8HHX-3<br>277    | 1/2      | Opt. High | 945  | 910  | 875  | 840  | 810  | 775  | 740  | 705  | 670  | 595  |
|                  |          | Std. High | 915  | 890  | 860  | 830  | 800  | 770  | 735  | 700  | 665  | 590  |
|                  |          | Std. Low  | 795  | 770  | 745  | 720  | 700  | 675  | 650  | 630  | 610  | 560  |
| 10HHX-3<br>277   | 1/2      | Opt. High | 1315                                       | 1290 | 1265 | 1245 | 1225 | 1200 | 1175 | 1150 | 1115 | 1010 |
|                  |          | Std. High | 1210                                       | 1185 | 1160 | 1140 | 1120 | 1095 | 1070 | 1040 | 1010 | 930  |
|                  |          | Std. Low  | 1025                                       | 1000 | 970  | 940  | 915  | 890  | 865  | 840  | 810  | 730  |
| 12HHX-3<br>277   | 1/2      | Opt. High | 1385                                       | 1355 | 1325 | 1295 | 1270 | 1240 | 1215 | 1190 | 1165 | 1120 |
|                  |          | Std. High | 1380                                       | 1350 | 1320 | 1290 | 1265 | 1235 | 1210 | 1185 | 1160 | 1115 |
|                  |          | Std. Low  | 1250                                       | 1225 | 1195 | 1170 | 1145 | 1115 | 1085 | 1060 | 1030 | 970  |

| HHX 4-ROW (277V) |          |           |  |      |      |      |      |      |      |      |      |      |
|------------------|----------|-----------|--|------|------|------|------|------|------|------|------|------|
| UNIT MODEL       | MOTOR HP | SPEED TAP | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |      |      |
|                  |          |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.5  |
| 4HHSX-4<br>277   | 1/6      | Opt. High | 470  | 440  | 410  | 380  | 350  | 325  | 295  | -    | -    | -    |
|                  |          | Std. High | 420  | 390  | 355  | 320  | 290  | 265  | 240  | -    | -    | -    |
|                  |          | Std. Low  | 340  | 305  | 270  | 240  | 210  | 185  | 155  | -    | -    | -    |
| 6HHSX-4<br>277   | 1/6      | Opt. High | 610  | 580  | 550  | 525  | 500  | 480  | 455  | -    | -    | -    |
|                  |          | Std. High | 530  | 490  | 455  | 425  | 400  | 375  | 350  | -    | -    | -    |
|                  |          | Std. Low  | 420  | 380  | 340  | 310  | 280  | 245  | 210  | -    | -    | -    |
| 6HHX-4<br>277    | 1/2      | Opt. High | 795  | 770  | 750  | 730  | 705  | 685  | 665  | 640  | 620  | 575  |
|                  |          | Std. High | 670  | 640  | 615  | 590  | 570  | 550  | 530  | 510  | 485  | 440  |
|                  |          | Std. Low  | 575  | 545  | 520  | 495  | 470  | 450  | 425  | 400  | 375  | 330  |
| 8HHX-4<br>277    | 1/2      | Opt. High | 890  | 855  | 825  | 795  | 765  | 735  | 700  | 665  | 630  | 560  |
|                  |          | Std. High | 865  | 835  | 810  | 785  | 755  | 725  | 695  | 660  | 625  | 555  |
|                  |          | Std. Low  | 750  | 730  | 705  | 680  | 660  | 635  | 615  | 595  | 575  | 530  |
| 10HHX-4<br>277   | 1/2      | Opt. High | 1240                                       | 1215 | 1195 | 1175 | 1155 | 1135 | 1110 | 1085 | 1050 | 955  |
|                  |          | Std. High | 1140                                       | 1115 | 1095 | 1075 | 1055 | 1035 | 1010 | 985  | 955  | 875  |
|                  |          | Std. Low  | 965  | 940  | 915  | 890  | 865  | 840  | 815  | 790  | 765  | 690  |
| 12HHX-4<br>277   | 1/2      | Opt. High | 1305                                       | 1280 | 1250 | 1225 | 1200 | 1170 | 1145 | 1125 | 1100 | 1055 |
|                  |          | Std. High | 1300                                       | 1275 | 1245 | 1220 | 1195 | 1165 | 1140 | 1120 | 1095 | 1050 |
|                  |          | Std. Low  | 1180                                       | 1150 | 1125 | 1100 | 1080 | 1055 | 1025 | 1000 | 970  | 915  |

# HH SERIES

## CEILING FAN COILS

# PHHX/RHHX/CHHX

## HHSX-HHX 240V ECM

### BLOWER PERFORMANCE

| PHHX, RHHX, CHHX 3-ROW (240V) |          |           |  |      |      |      |      |      |      |      |      |      |
|-------------------------------|----------|-----------|--|------|------|------|------|------|------|------|------|------|
| UNIT MODEL                    | MOTOR HP | SPEED TAP | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |      |      |
|                               |          |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.5  |
| 4*HHSX-3                      | 1/7      | Opt. High | 435  | 410  | 385  | 360  | 335  | 310  | 290  | -    | -    | -    |
|                               |          | Std. High | 385  | 365  | 340  | 315  | 295  | 270  | 245  | -    | -    | -    |
|                               |          | Std. Low  | 325  | 305  | 280  | 255  | 235  | 210  | 185  | -    | -    | -    |
| 6*HHSX-3                      | 1/7      | Opt. High | 615  | 585  | 555  | 530  | 510  | 490  | 470  | -    | -    | -    |
|                               |          | Std. High | 570  | 535  | 510  | 485  | 465  | 445  | 420  | -    | -    | -    |
|                               |          | Std. Low  | 480  | 450  | 415  | 385  | 365  | 340  | 315  | -    | -    | -    |
| 6*HHX-3                       | 1/2      | Opt. High | 870  | 845  | 820  | 795  | 770  | 745  | 720  | 695  | 670  | 620  |
|                               |          | Std. High | 725  | 700  | 680  | 660  | 635  | 615  | 600  | 580  | 560  | 525  |
|                               |          | Std. Low  | 635  | 605  | 580  | 560  | 535  | 515  | 495  | 475  | 455  | 415  |
| 8*HHX-3                       | 1/2      | Opt. High | 925  | 900  | 870  | 835  | 805  | 770  | 740  | 710  | 675  | 605  |
|                               |          | Std. High | 915  | 890  | 860  | 830  | 795  | 765  | 735  | 700  | 670  | 605  |
|                               |          | Std. Low  | 795  | 775  | 750  | 730  | 705  | 680  | 655  | 630  | 605  | 555  |
| 10*HHX-3                      | 1/2      | Opt. High | 1260                                       | 1240 | 1220 | 1200 | 1180 | 1150 | 1120 | 1085 | 1045 | 950  |
|                               |          | Std. High | 1160                                       | 1135 | 1110 | 1090 | 1070 | 1055 | 1035 | 1010 | 985  | 910  |
|                               |          | Std. Low  | 975  | 955  | 930  | 910  | 890  | 870  | 850  | 825  | 805  | 750  |
| 12*HHX-3                      | 1/2      | Opt. High | 1360                                       | 1340 | 1320 | 1300 | 1280 | 1260 | 1240 | 1225 | 1205 | 1170 |
|                               |          | Std. High | 1250                                       | 1230 | 1210 | 1190 | 1175 | 1160 | 1140 | 1125 | 1105 | 1070 |
|                               |          | Std. Low  | 1115                                       | 1095 | 1075 | 1055 | 1040 | 1020 | 995  | 975  | 950  | 905  |

| PHHX, RHHX, CHHX 4-ROW (240V) |          |           |  |      |      |      |      |      |      |      |      |      |
|-------------------------------|----------|-----------|--|------|------|------|------|------|------|------|------|------|
| UNIT MODEL                    | MOTOR HP | SPEED TAP | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |      |      |
|                               |          |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.5  |
| 4*HHSX-4                      | 1/7      | Opt. High | 410  | 385  | 360  | 340  | 315  | 295  | 275  | -    | -    | -    |
|                               |          | Std. High | 365  | 345  | 320  | 300  | 275  | 255  | 235  | -    | -    | -    |
|                               |          | Std. Low  | 310  | 285  | 265  | 240  | 220  | 200  | 175  | -    | -    | -    |
| 6*HHSX-4                      | 1/7      | Opt. High | 580  | 550  | 525  | 500  | 480  | 460  | 445  | -    | -    | -    |
|                               |          | Std. High | 535  | 505  | 480  | 455  | 435  | 420  | 400  | -    | -    | -    |
|                               |          | Std. Low  | 445  | 415  | 385  | 355  | 335  | 315  | 290  | -    | -    | -    |
| 6*HHX-4                       | 1/2      | Opt. High | 840  | 815  | 790  | 765  | 740  | 720  | 695  | 670  | 645  | 595  |
|                               |          | Std. High | 700  | 675  | 655  | 635  | 615  | 600  | 580  | 560  | 540  | 505  |
|                               |          | Std. Low  | 610  | 580  | 555  | 535  | 515  | 495  | 470  | 450  | 430  | 395  |
| 8*HHX-4                       | 1/2      | Opt. High | 890  | 860  | 835  | 805  | 780  | 750  | 715  | 685  | 650  | 580  |
|                               |          | Std. High | 885  | 860  | 830  | 800  | 770  | 740  | 710  | 680  | 645  | 580  |
|                               |          | Std. Low  | 770  | 745  | 725  | 705  | 680  | 655  | 630  | 605  | 580  | 535  |
| 10*HHX-4                      | 1/2      | Opt. High | 1190                                       | 1170 | 1150 | 1130 | 1110 | 1085 | 1060 | 1025 | 990  | 900  |
|                               |          | Std. High | 1095                                       | 1070 | 1050 | 1030 | 1010 | 995  | 975  | 950  | 925  | 860  |
|                               |          | Std. Low  | 915  | 900  | 880  | 860  | 840  | 820  | 800  | 780  | 755  | 710  |
| 12*HHX-4                      | 1/2      | Opt. High | 1280                                       | 1265 | 1245 | 1225 | 1205 | 1185 | 1170 | 1155 | 1140 | 1105 |
|                               |          | Std. High | 1175                                       | 1155 | 1140 | 1125 | 1110 | 1095 | 1075 | 1060 | 1040 | 1010 |
|                               |          | Std. Low  | 1050                                       | 1035 | 1015 | 1000 | 980  | 960  | 940  | 920  | 900  | 855  |

# HH SERIES

CEILING FAN COILS

# PHHX/RHHX/CHHX

## HHX 277 VOLT ECM

### BLOWER PERFORMANCE









| PHHX, RHHX, CHHX 3-ROW (277V) |          |           |  |      |      |      |      |      |      |      |      |      |
|-------------------------------|----------|-----------|--|------|------|------|------|------|------|------|------|------|
| UNIT MODEL                    | MOTOR HP | SPEED TAP | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |      |      |
|                               |          |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.5  |
| 4*HHSX-3<br>277               | 1/6      | Opt. High | 440  | 410  | 380  | 350  | 325  | 300  | 275  | -    | -    | -    |
|                               |          | Std. High | 390  | 360  | 330  | 300  | 270  | 245  | 225  | -    | -    | -    |
|                               |          | Std. Low  | 315  | 280  | 250  | 225  | 200  | 170  | 145  | -    | -    | -    |
| 6*HHSX-3<br>277               | 1/6      | Opt. High | 570  | 540  | 515  | 490  | 465  | 445  | 420  | -    | -    | -    |
|                               |          | Std. High | 480  | 445  | 415  | 390  | 365  | 345  | 320  | -    | -    | -    |
|                               |          | Std. Low  | 375  | 340  | 305  | 275  | 250  | 220  | 190  | -    | -    | -    |
| 6*HHX-3<br>277                | 1/2      | Opt. High | 750  | 730  | 710  | 690  | 665  | 645  | 625  | 605  | 585  | 545  |
|                               |          | Std. High | 625  | 600  | 580  | 560  | 540  | 520  | 500  | 480  | 460  | 415  |
|                               |          | Std. Low  | 535  | 515  | 490  | 470  | 445  | 425  | 400  | 380  | 355  | 310  |
| 8*HHX-3<br>277                | 1/2      | Opt. High | 840  | 810  | 780  | 750  | 720  | 690  | 660  | 630  | 595  | 530  |
|                               |          | Std. High | 815  | 790  | 765  | 740  | 710  | 685  | 655  | 625  | 590  | 525  |
|                               |          | Std. Low  | 710  | 690  | 665  | 645  | 625  | 600  | 580  | 565  | 545  | 500  |
| 10*HHX-3<br>277               | 1/2      | Opt. High | 1250                                       | 1225 | 1200 | 1180 | 1160 | 1140 | 1120 | 1090 | 1060 | 960  |
|                               |          | Std. High | 1150                                       | 1125 | 1100 | 1080 | 1060 | 1040 | 1020 | 990  | 960  | 885  |
|                               |          | Std. Low  | 975  | 950  | 920  | 895  | 870  | 845  | 820  | 795  | 770  | 695  |
| 12*HHX-3<br>277               | 1/2      | Opt. High | 1330                                       | 1300 | 1270 | 1245 | 1220 | 1190 | 1165 | 1145 | 1120 | 1075 |
|                               |          | Std. High | 1325                                       | 1295 | 1265 | 1240 | 1215 | 1185 | 1160 | 1140 | 1115 | 1070 |
|                               |          | Std. Low  | 1200                                       | 1175 | 1145 | 1120 | 1095 | 1070 | 1045 | 1015 | 990  | 930  |

| PHHX, RHHX, CHHX 4-ROW (277V) |          |           |  |      |      |      |      |      |      |      |      |     |
|-------------------------------|----------|-----------|--|------|------|------|------|------|------|------|------|-----|
| UNIT MODEL                    | MOTOR HP | SPEED TAP | EXTERNAL STATIC PRESSURE (inches of water) |      |      |      |      |      |      |      |      |     |
|                               |          |           | 0.0  | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.5 |
| 4*HHSX-4<br>277               | 1/6      | Opt. High | 405  | 380  | 355  | 325  | 300  | 275  | 255  | -    | -    | -   |
|                               |          | Std. High | 360  | 330  | 300  | 270  | 245  | 225  | 205  | -    | -    | -   |
|                               |          | Std. Low  | 275  | 245  | 220  | 195  | 170  | 150  | 125  | -    | -    | -   |
| 6*HHSX-4<br>277               | 1/6      | Opt. High | 535  | 510  | 485  | 460  | 440  | 420  | 400  | -    | -    | -   |
|                               |          | Std. High | 455  | 420  | 390  | 365  | 345  | 325  | 300  | -    | -    | -   |
|                               |          | Std. Low  | 355  | 320  | 290  | 260  | 235  | 205  | 175  | -    | -    | -   |
| 6*HHX-4<br>277                | 1/2      | Opt. High | 730  | 710  | 690  | 670  | 650  | 630  | 610  | 590  | 570  | 530 |
|                               |          | Std. High | 610  | 585  | 560  | 540  | 520  | 500  | 480  | 460  | 440  | 400 |
|                               |          | Std. Low  | 520  | 495  | 470  | 445  | 425  | 405  | 385  | 365  | 340  | 295 |
| 8*HHX-4<br>277                | 1/2      | Opt. High | 820  | 790  | 760  | 735  | 705  | 675  | 645  | 615  | 580  | 515 |
|                               |          | Std. High | 805  | 780  | 755  | 730  | 700  | 675  | 645  | 615  | 580  | 515 |
|                               |          | Std. Low  | 700  | 675  | 655  | 635  | 615  | 595  | 575  | 555  | 535  | 495 |
| 10*HHX-4<br>277               | 1/2      | Opt. High | 1180                                       | 1155 | 1135 | 1115 | 1095 | 1075 | 1055 | 1030 | 1000 | 905 |
|                               |          | Std. High | 1085                                       | 1060 | 1040 | 1020 | 1000 | 980  | 960  | 935  | 905  | 830 |
|                               |          | Std. Low  | 905  | 885  | 860  | 835  | 815  | 790  | 765  | 745  | 720  | 650 |
| 12*HHX-4<br>277               | 1/2      | Opt. High | 1225                                       | 1200 | 1175 | 1150 | 1125 | 1100 | 1080 | 1055 | 1035 | 990 |
|                               |          | Std. High | 1220                                       | 1195 | 1170 | 1145 | 1120 | 1095 | 1075 | 1050 | 1030 | 985 |
|                               |          | Std. Low  | 1110                                       | 1085 | 1060 | 1040 | 1015 | 990  | 965  | 940  | 910  | 860 |

# HH SERIES

## CEILING FAN COILS

### ACCESSORIES – VALVE PACKAGES AND ACCESSORIES

| ACTUATOR  |                 |                            |                |   |                     |               |                      |                |
|---|-----------------|----------------------------|----------------|---|---------------------|---------------|----------------------|----------------|
| 2-POSITION (ON-OFF) 50/60HZ   |                 |                            |                |   |                     |               |                      |                |
| VOLTAGE   |                 | PART #                     |                | 2-WAY VALVE AND ACTUATOR  |                     |               |                      |                |
| 24V   |                 | E50131180                  |                |    |                     |               |                      |                |
| 120/1/60  |                 | E50132180                  |                |   |                     |               |                      |                |
| ACTUATOR – MATERIALS  |                 |                            |                |   |                     |               |                      |                |
| BASE  | COVER           | BASE PLATE                 | LEAD LENGTH    | POWER REQ.  | AMBIENT TEMP. RANGE | MICRO SWITCH  | HUMIDITY             | APPROVALS      |
| POLY-CARBONATE  | POLY-CARBONATE  | ALUMINUM                   | 6" - (24V 18") | 6.5W, 7 VA  | 32°F TO 170°F       | 5 A, 250 V    | 95% NON-CONDENSING   | ETL, CuI, CE   |
| VALVE BODIES (2-POSITION) / MATERIALS   |                 |                            |                |   |                     |               |                      |                |
| BODY  | STEM            | (2) O-RINGS SEALS          | PADDLE         | FLUID   | MAX. % OF GLYCOL    | TEMP. RANGE   | MAX. STATIC PRESSURE | SWEAT CONN.    |
| BRASS   | STAINLESS STEEL | EPDM                       | EPDM           | WATER / GLYCOL  | 50%                 | 32°F TO 230°F | 300 PSI              | 1/2", 3/4", 1" |
| E43XXXX 3-WAY   |                 |                            |                | E42XXXX 2-WAY   |                     |               |                      |                |
|  |                 |                            |                |  |                     |               |                      |                |
| VALVE PACKAGE ACCESSORIES   |                 |                            |                |   |                     |               |                      |                |
| AUTOMATIC FIXED FLOW CONTROL  |                 |                            |                |   |                     |               |                      |                |
| 1/2"  |                 | 3/4"                       |                |  |                     |               |                      |                |
| CP654XXXX   |                 | CP655XXXX                  |                |   |                     |               |                      |                |
| PETE'S PLUG   |                 | REQUIRES CP6025<br>CP61712 |                |   |                     |               |                      |                |
| MANUAL ADJUSTMENT FLOW SETTER   |                 |                            |                |   |                     |               |                      |                |
| 1/2"  |                 | 3/4"                       |                |  |                     |               |                      |                |
| CP601   |                 | CP6011                     |                |   |                     |               |                      |                |
| Y-STRAINER (SWEAT)  |                 |                            |                |   |                     |               |                      |                |
| 1/2"  |                 | 3/4"                       |                |  |                     |               |                      |                |
| CP603   |                 | CP6031                     |                |   |                     |               |                      |                |
| BALL VALVES (SWEAT) FULL PORT (T-HANDLE)  |                 |                            |                |   |                     |               |                      |                |
| 1/2"  | 3/4"            | 1"                         |                |  |                     |               |                      |                |
| CP9   | CP90            | CP905                      |                |   |                     |               |                      |                |
| EXTENDED DRIP LIPS  |                 |                            |                |   |                     |               |                      |                |
| 919-1 15"<br>919-1X1ss 15"<br>919-1EXT 19"  |                 |                            |                |  |                     |               |                      |                |


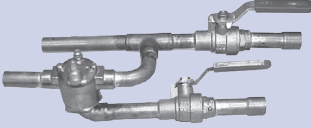

# HH SERIES

CEILING FAN COILS

## ACCESSORIES (CONT'D)

### VALVE PACKAGES AND ACCESSORIES

| FLOW CHARACTERISTICS |                  |                               |
|----------------------|------------------|-------------------------------|
| CONNECTION SIZE      | FLOW COEFFICIENT | MAXIMUM CLOSE-OFF PRESSURE AP |
| 1/2"                 | 3.5Cv            | 30                            |
| 1"                   | 5 Cv             | 25                            |
| 3/4"                 | 7.5 Cv           | 20                            |

| STANDARD VALVE PACKAGE – FACTORY MOUNTED 2-POSITION (ON-OFF)   |   |
|--|---|
| 2-WAY 9VH*22BM WITH 2-BV'S   |  |
| 3-WAY 9VH*23BM WITH 2-BV'S   |  |
| T4071 5/8<br>T4072 7/8<br>Auto Changeover Requires Aguastat (2-pipe applications)  |  |
| Strap-on Aguastat 5/8" O.D. Tubing<br>10 amps induction<br>60 amps locked rotor<br>25 amps resistive<br>Temperature Changes at 95°F + 10°F<br>Resets at 65°F + 5°F | ---   |

# HH SERIES

## CEILING FAN COILS

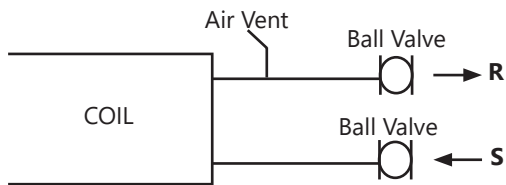
### PIPING PACKAGE OPTIONS

#### TWO POSITION OR MODULATING

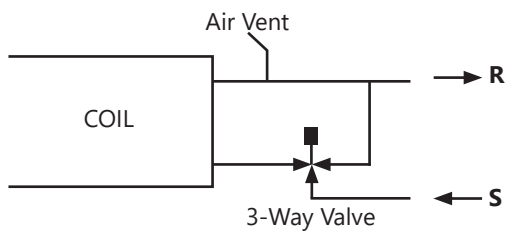
Manual air vents are standard and are factory mounted on all chilled water and hot water coils.

All pre-piped on/off or modulating valve packages are factory assembled with sweat connections.

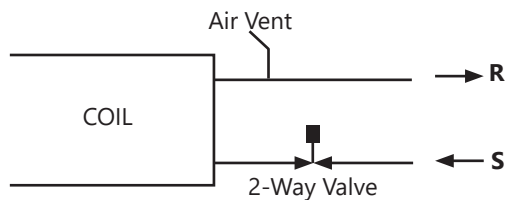
**Ball Valves only, No Control Valve**



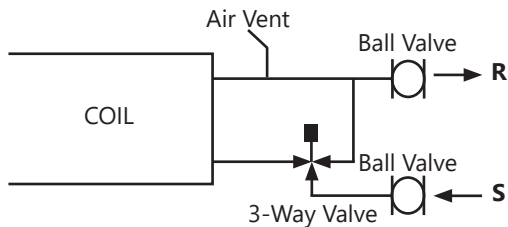
**3-Way Valve, No Ball Valves**



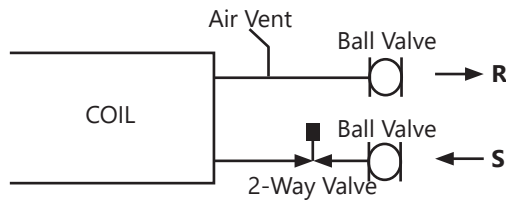
**2-Way Valve, No Ball Valves**



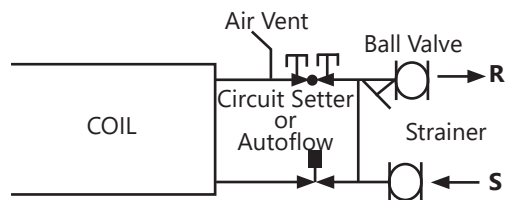
**3-Way Valve, with 2-Ball Valves**



**2-Way Valve with 2-Ball Valves**



**3-Way Valve, with 2-Ball valve and Manual Circuit Setter or Automatic Flow Control, Y-Strainer, PT's**

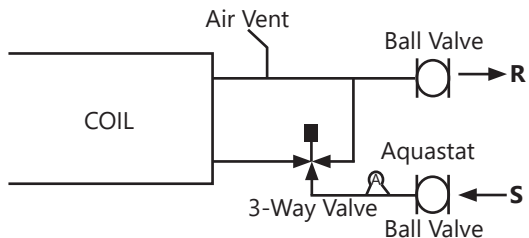


**Additional Options:**  
 Y-Strainers, Pete's Plugs, Cleanout Blow-Down,  
 SS Hose Kits, Aquastats

**Contact factory for availability.**

**Valve packages are available as kits or factory mounted on certain products. Contact factory for availability.**

**3-Way Valve with 2-Ball Valves and Aquastat**



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# HH SERIES

## CEILING FAN COILS

### SPECIFICATION GUIDE

#### PART 1 — GENERAL

##### 1.01 SECTION INCLUDES

A. Fan Coil Units

##### 1.02 REFERENCES

AMCA 99 – Standards Handbook

AMCA 210 -- Laboratory Methods for Testing Fans for Rating Purposes

AMCA 300 – Test Code for Sound Rating Air Moving Devices

ARI 440 – Room Fan-Coil Unit

ASTMB117 – Standard Practice for Operating Salt Spray Apparatus

NEMA MG1 – Motors and Generators

NFPA 70 – National Electric Code

SMACNA – HVAC Duct Construction Standards – Metal and Flexible

UL 723 – Test for Surface Burning Characteristics of Building Materials

UL 900 – Test Performance of Air Filter Units

UL 1995 – Standard for Heating and Cooling Equipment

UL 94 – Test for Flammability of Plastic Materials for Parts in Devices and Appliances

##### 1.03 SUBMITTALS

A. Shop drawings: Indicate assembly, unit dimensions, weight loading, required clearances, construction details, field connection details, and electrical characteristics and connection requirements. A computer generated capacity selection shall be submitted for each cooling coil with design points and final operating point clearly noted.

B. Product Data:

1. Provide literature that indicates dimensions, weights, capacities, ratings, fan performance, finishes of materials, and electrical characteristics and connection requirements.

2. Provide data of filter media, filter performance data.

3. Manufacturer's installation instructions.

##### 1.04 OPERATION AND MAINTENANCE DATA

A. Maintenance Data: Include instructions for lubrication, filter replacement and motor and drive replacement.

##### 1.05 QUALIFICATIONS

A. Maintenance Data: Include instructions for lubrication, filter replacement and motor and drive replacement.

##### 1.06 DELIVERY, STORAGE, AND HANDLING

A. Accept products on site on factory-installed shipping skids. Inspect for damage.

B. Store in clean dry place and protect from weather and construction traffic. Handle carefully to avoid damage to components, enclosures, and finish.

##### 1.07 ENVIRONMENTAL REQUIREMENTS

A. Do not operate units for any purpose, temporary or permanent, until ductwork is clean, filters are in place, and fan has been test run under observation.

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# HH SERIES

## CEILING FAN COILS

### SPECIFICATION GUIDE (CONT'D)

#### PART 2 — PRODUCTS

##### 2.01 MANUFACTURERS

A. The following manufacturers are approved for use. No substitutions will be permitted. First Company, Dallas TX

##### 2.02 CASING

A. Unit shall have corrosion resistant casing consisting of galvanized steel panels. Unit panels shall be fully insulated with 1.5lb fiberglass insulation with anti-microbial agent. Removable panels shall provide full access to unit components..

B. Drain pans shall be heavy gauge galvanized steel with an insulating coating. Optional stainless steel drain pan shall include an insulating coating. Drain pans shall be removable for cleaning or replacement without removing coils or disturbing coil connections.

##### 2.03 SUPPLY FAN

A. Provide DWDI forward-curved supply fans. Fan assemblies shall be statically and dynamically balanced by manufacturer. The housings are constructed from heavy gauge galvanized steel with die-formed inlet cones.

B. Fan and motor mounting platform shall be a minimum of 12 gauge LFQ galvanized steel.

##### 2.04 MOTORS

A. Direct drive motors to be PSC or ECM type, permanently lubricated type with internal thermal overload protection and mounted with rubber isolation bushings.

##### 2.05 ELECTRICAL

A. Provide units with 115, 208-240, or 277V, 3-speed with 24v control transformer, and 15 amp service switch or optional ECM motor with 120/24V control transformer, 15 amp service switch, 3 speed taps. Controls to be factory mounted and tested.

##### 2.07 COOLING AND HEATING COIL SECTIONS

A. Provide access to coils for service and cleaning..

B. Water Coils: fins shall have full drawn collars to provide a continuous surface cover over the entire tube for maximum heat transfer. Tubes shall be mechanically expanded into the fins to provide a continuous primary-to-secondary compression bond over the entire finned length for maximum heat transfer rates. Bare copper tube shall not be visible between fins. Coil tubes shall be seamless copper, expanded into fins, and brazed at joints. Coil connections shall be copper with sweat connection size to be determined by manufacturer based upon the most efficient coil circuiting. Manual air vent connections shall be provided at the highest point to assure proper venting. Coils shall be tested with 350 pounds air pressure and suitable for 300 psig working pressure. Coil casings shall be a formed channel frame of galvanized steel.

##### 2.08 FILTERS

A. Filter to be disposable type and media shall be UL 900 listed, Class I or Class II.

B. MERV 10 can be used as an option, will increase static by 0.25

#### PART 3 — EXECUTION

##### 3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.



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**MAY 2025**