



# RR SERIES

*Vertical High Rise Fan Coils*  
Chilled Water Cooling  
w/Hot Water or Electric Heat

Vertical 3-1200 CFM

ECM Motor

2-Pipe & 4-Pipe Coil Options

2-Pipe With Electric Heat



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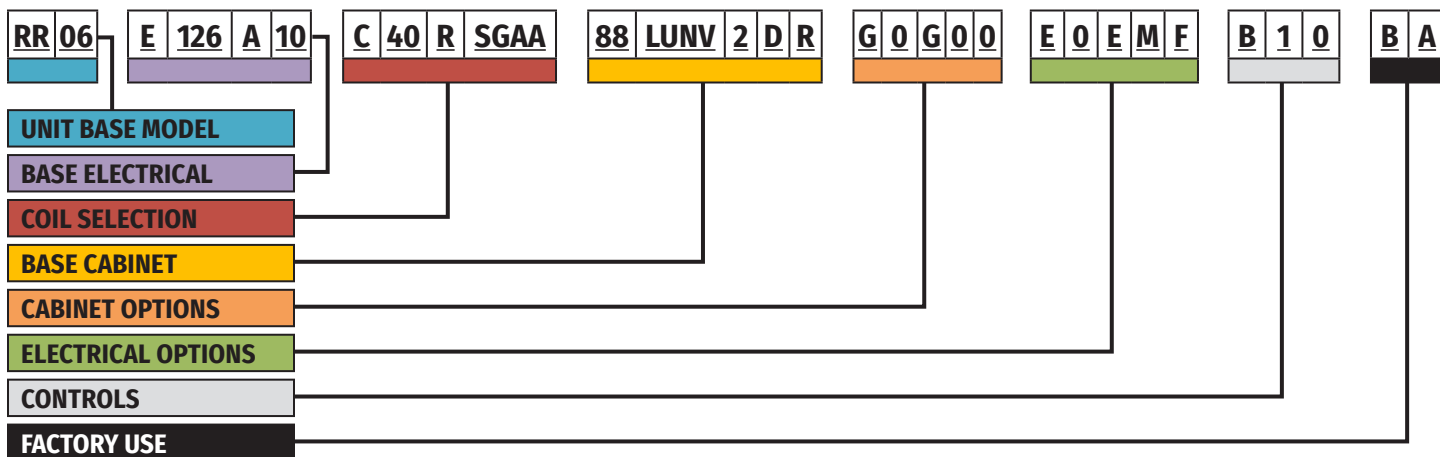
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In keeping with its policy of continuous progress and product improvement, AE-Air reserves the right to make changes without notice.

# NOMENCLATURE



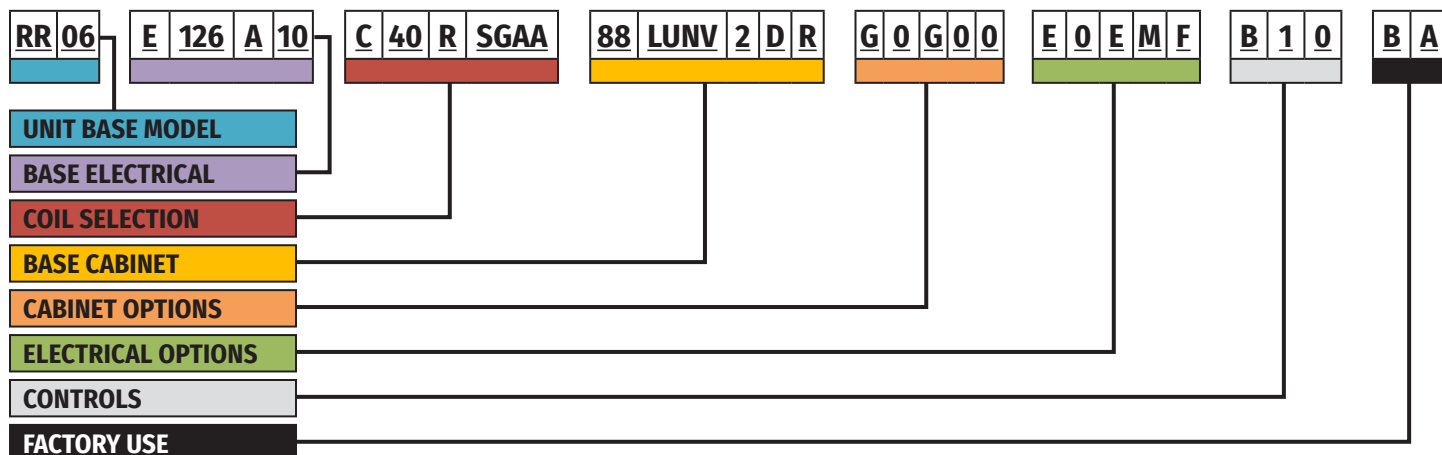
| UNIT BASE MODEL |                                                                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| MODEL           | RR – VERTICAL HIGH RISE FAN COIL                                                                                                               |
| SIZE            | 03 – 300 NOMINAL CFM<br>04 – 400 NOMINAL CFM<br>06 – 600 NOMINAL CFM<br>08 – 800 NOMINAL CFM<br>10 – 1000 NOMINAL CFM<br>12 – 1200 NOMINAL CFM |

| BASE ELECTRICAL |                                                                                                            |
|-----------------|------------------------------------------------------------------------------------------------------------|
| MOTOR TYPE      | E ECM (3 SPEED)                                                                                            |
| VOLTAGE         | 126 – 120V / 1PH / 60HZ<br>246 – 208-230V / 1PH / 60HZ<br>276 – 277V / 1PH / 60HZ                          |
| CONTROL VOLTAGE | A 24V CONTROL                                                                                              |
| ELECTRIC HEAT   | 00 – NONE<br>01 – 1KW<br>02 – 2KW<br>03 – 3KW<br>04 – 4KW<br>05 – 5KW<br>06 – 6KW<br>08 – 8KW<br>10 – 10KW |

| COIL SELECTION |                                                                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYSTEM         | A – 2 PIPE COOLING<br>B – 2 PIPE HEATING<br>C – 2 PIPE HEAT/COOL<br>D – 2 PIPE HEAT/COOL/AUX HEAT<br>E – 2 PIPE COOL/ELECTRIC HEAT<br>F – 4 PIPE HEAT/COOL |
| COIL ROWS      | 30 – 3 ROW<br>40 – 4 ROW<br>31 – 3 ROW/1 ROW<br>32 – 3 ROW/2 ROW<br>41 – 4 ROW/1 ROW                                                                       |
| COIL HANDLING  | L – LEFT HAND COIL<br>R – RIGHT HAND COIL                                                                                                                  |
| CONNECTION     | S – SINGLE HAND SIDE                                                                                                                                       |
| COIL WRAPPER   | G – GALVANIZED STEEL                                                                                                                                       |
| FIN MATERIAL   | A – ALUMINIUM                                                                                                                                              |
| PRESSURE TEST  | A – 350 PSI (2413 KPA)                                                                                                                                     |

| BASE CABINET         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HEIGHT               | 88 – 88" STD (STANDARD)<br>65 – 65"<br>76 – 76"<br>80 – 80"<br>XX – SPECIAL SELECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CONFIGURATION        | RUNV – RIGHT HANDED UNIVERSAL<br>LUNV – LEFT HANDED UNIVERSAL<br>BFLX – REAR RISER, FRONT & LEFT DISCHARGE<br>BFRX – REAR RISER, FRONT & RIGHT DISCHARGE<br>BFXR – REAR RISER, FRONT DISCHARGE<br>BLXX – REAR RISER, LEFT DISCHARGE<br>BRLX – REAR RISER, RIGHT & LEFT DISCHARGE<br>BRXX – REAR RISER, RIGHT DISCHARGE<br>BTFX – REAR RISER, TOP & FRONT DISCHARGE<br>BTLX – REAR RISER, TOP & LEFT DISCHARGE<br>BTRX – REAR RISER, TOP & RIGHT DISCHARGE<br>BTXX – REAR RISER, TOP DISCHARGE<br>LBXX – LEFT RISER, REAR DISCHARGE<br>LFBX – LEFT RISER, FRONT & REAR DISCHARGE<br>LFRX – LEFT RISER, FRONT & RIGHT DISCHARGE<br>LFXR – LEFT RISER, FRONT DISCHARGE<br>LRBX – LEFT RISER, RIGHT & REAR DISCHARGE<br>LRXX – LEFT RISER, RIGHT DISCHARGE<br>LTBX – LEFT RISER, TOP & REAR DISCHARGE<br>LTFX – LEFT RISER, TOP & FRONT DISCHARGE<br>LTRX – LEFT RISER, TOP & RIGHT DISCHARGE<br>LTXX – LEFT RISER, TOP DISCHARGE<br>RBXX – RIGHT RISER, REAR DISCHARGE<br>RFBX – RIGHT RISER, FRONT & REAR DISCHARGE<br>RFLX – RIGHT RISER, FRONT & LEFT DISCHARGE<br>RFXR – RIGHT RISER, FRONT DISCHARGE<br>RLBX – RIGHT RISER, LEFT & REAR RISER<br>RLXX – RIGHT RISER, LEFT DISCHARGE<br>RTBX – RIGHT RISER, TOP & REAR DISCHARGE<br>RTFX – RIGHT RISER, TOP & FRONT DISCHARGE<br>RTLX – RIGHT RISER, TOP & LEFT DISCHARGE<br>RTXX – RIGHT RISER, TOP DISCHARGE |
| INSULATION THICKNESS | 2 – 1/2" INSULATION<br>3 – 3/4" INSULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| INSULATION TYPE      | D – FIBERGLASS DUAL DENSITY<br>F – FOIL FACED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| INSTALLATION         | F – FURRED IN<br>E – EXPOSED CABINET<br>R – ERV FURRED IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

# NOMENCLATURE (CONT'D)



| CABINET OPTIONS |                                                    |
|-----------------|----------------------------------------------------|
| DRAIN PAN       | G - GALVANIZED<br>S - STAINLESS STEEL              |
| FILTER FRAME    | 1 - 1"-2" FRAME                                    |
| FILTER OPTION   | 0 - NONE<br>1 - 1" MERV 3/MERV 4<br>G - 1" MERV 10 |
| OPTION 1        | 0 - STANDARD ACCESS<br>S - SOUND BARRIER           |
| OPTION 2        | 0 - NONE<br>L - LINE OF SIGHT BAFFLE               |

| ELECTRICAL OPTIONS |                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| SERVICE SWITCH     | 0 - NONE<br>A - 15A TOGGLE SWITCH<br>D - 30A TOGGLE SWITCH<br>E - 40A TOGGLE SWITCH<br>F - 50A TOGGLE SWITCH<br>P - 60A PULL SWITCH |
| FUSES              | 0 - NONE                                                                                                                            |
| HEATER RELAY       | 0 - NONE<br>E - ELECTRO-MECHANICAL                                                                                                  |
| TSTAT CONNECTION   | 0 - NONE<br>M - MULTI-PIN CONNECTOR<br>T - TERMINAL BLOCK                                                                           |
| FLOAT SWITCH       | 0 - NONE<br>F - FLOAT SWITCH                                                                                                        |

| CONTROLS       |                                                                                                                                                                                                                               |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| THERMOSTATS    | 0 - NONE<br>F - FAN SWITCH ONLY (T422)<br>A - NON PROGRAMMABLE MANUAL (T420)<br>B - NON PROGRAMMABLE AUTO (T421)<br>C - NON PROGRAMMABLE W/LCD (T426)<br>D - PROGRAMMABLE W/LCD (T427)<br>E - PROGRAMMABLE W/LARGE LCD (T428) |
| TSTAT LOCATION | 0 - NONE<br>1 - UNIT MOUNT<br>2 - REMOTE MOUNT<br>3 - ADA UNIT MOUNT                                                                                                                                                          |
| TSTAT OPTION   | 0 - NONE                                                                                                                                                                                                                      |

| FACTORY USE |                             |
|-------------|-----------------------------|
| REVISION    | B - REVISION B              |
| BRAND       | A - AE AIR<br>F - FIRST CO. |

# NOMENCLATURE (CONT'D)

## CHILLED WATER AND HOT WATER VALVES

HEATING AND COOLING CIRCUITS USE THE SAME NOMENCLATURE STRING

|          |          |          |          |          |           |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|
| <b>A</b> | <b>2</b> | <b>S</b> | <b>S</b> | <b>4</b> | <b>30</b> | <b>0</b> | <b>0</b> | <b>B</b> | <b>0</b> | <b>U</b> | <b>R</b> |
|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|

|                   |                        |
|-------------------|------------------------|
| <b>VALVE SIZE</b> | A – 1/2" PIPING        |
| <b>VALVE TYPE</b> | 2 – 2-WAY<br>3 – 3-WAY |

|                              |                                                        |                                                                         |
|------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------|
| <b>ACTUATOR TYPE</b>         | 0 – NONE<br>S – ON/OFF 24V<br>M – MODULATING (0-10VDC) |                                                                         |
| <b>PRESSURE DIFFERENTIAL</b> | 0 – NONE<br>S – 30 PSI (210KPA)<br>CLOSE OFF           | M – 75 PSI (520 KPA)<br>CLOSE OFF<br>H – 125 PSI (860 KPA)<br>CLOSE OFF |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FLOW CONTROL</b> | 0 – NONE<br>4 – 1/2" AUTOFLOW<br>M – 1/2" CIRCUIT SETTER<br>N – 3/4" CIRCUIT SETTER                                                                                                                                                                                                                                                                                                                                               |
| <b>AUTOFLOW</b>     | 00 – NONE<br>05 – 0.50 GPM<br>06 – 0.63 GPM<br>07 – 0.75 GPM<br>10 – 1.00 GPM<br>11 – 1.13 GPM<br>12 – 1.25 GPM<br>15 – 1.50 GPM<br>16 – 1.63 GPM<br>17 – 1.75 GPM<br>20 – 2.00 GPM<br>22 – 2.25 GPM<br>25 – 2.50 GPM<br>30 – 3.00 GPM<br>32 – 3.25 GPM<br>35 – 3.50 GPM<br>40 – 4.00 GPM<br>45 – 4.50 GPM<br>50 – 5.00 GPM<br>55 – 5.50 GPM<br>60 – 6.00 GPM<br>65 – 6.50 GPM<br>70 – 7.00 GPM<br>75 – 7.50 GPM<br>80 – 8.00 GPM |

|                        |                                     |
|------------------------|-------------------------------------|
| <b>END CONNECTION</b>  | M – HOSE*<br>R – HOSE* + BALL VALVE |
| <b>COIL CONNECTION</b> | B – BRAZED<br>U – UNION             |

|                 |                                                          |
|-----------------|----------------------------------------------------------|
| <b>AQUASTAT</b> | 0 – NONE<br>1 – CHANGE OVER<br>2 – CHANGE OVER AUX. HEAT |
|-----------------|----------------------------------------------------------|

|                 |                                                        |
|-----------------|--------------------------------------------------------|
| <b>STRAINER</b> | 0 – NONE<br>S – STRAINER<br>B – STRAINER WITH BLOWDOWN |
|-----------------|--------------------------------------------------------|

|                       |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| <b>PRESSURE PORTS</b> | 0 – NONE<br>C – PT PORTS COIL MANIFOLD<br>E – PT PORTS WATER CONNECTION |
|-----------------------|-------------------------------------------------------------------------|

|                        |          |
|------------------------|----------|
| <b>ISOLATION VALVE</b> | 0 – NONE |
|------------------------|----------|

# NOMENCLATURE – RISER TUBE

|          |          |          |          |           |          |          |          |          |            |           |
|----------|----------|----------|----------|-----------|----------|----------|----------|----------|------------|-----------|
| <b>R</b> | <b>F</b> | <b>1</b> | <b>L</b> | <b>21</b> | <b>2</b> | <b>S</b> | <b>S</b> | <b>4</b> | <b>119</b> | <b>60</b> |
|----------|----------|----------|----------|-----------|----------|----------|----------|----------|------------|-----------|

|                    |                                                |
|--------------------|------------------------------------------------|
| <b>KIT TYPE</b>    | R – RISER TUBES<br>E – EXTENSION TUBES         |
| <b>FAMILY TYPE</b> | F – FAN COIL RISERS<br>W – WATER SOURCE RISERS |
| <b>MODEL</b>       | D – DRAIN TUBE<br>1 – SUPPLY/RETURN TUBE       |
| <b>MATERIAL</b>    | L – TYPE L COPPER<br>M – TYPE M COPPER         |

| SIZE | BOTTOM SIZE/TOP SIZE                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | 11 – 0.75" / 0.75"<br>12 – 0.75" / 1.00"<br>21 – 1.00" / 0.75"<br>22 – 1.00" / 1.00"<br>23 – 1.00" / 1.25"<br>32 – 1.25" / 1.00"<br>33 – 1.25" / 1.25"<br>34 – 1.25" / 1.50"<br>43 – 1.50" / 1.25"<br>44 – 1.50" / 1.50"<br>45 – 1.50" / 2.00" | 54 – 2.00" / 1.50"<br>55 – 2.00" / 2.00"<br>56 – 2.00" / 2.50"<br>65 – 2.50" / 2.00"<br>66 – 2.50" / 2.50"<br>67 – 2.50" / 3.00"<br>76 – 3.00" / 2.50"<br>77 – 3.00" / 3.00"<br>79 – 3.00" / 4.00"<br>97 – 4.00" / 3.00"<br>99 – 4.00" / 4.00" |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TAKE OFF CONNECTION</b> | 0 – 0 STUB: (SPEED RISER)<br>1 – 1 STUB: BV (STD)<br>2 – 2 STUB: BV & SWAGED (STD)<br>4 – 2 STUB: BV & BV<br>5 – 2 STUB: BV & CUT<br>6 – 2 STUB: CUT & CUT<br>7 – 1 STUB: CUT<br>8 – 1 STUB: SWAGED<br>9 – 2 STUB: CUT & SWAGED<br>A – 1 STUB 1" OFFSET BV<br>B – 2 STUB 1" OFFSET BV & SWAGED<br>C – 2 STUB 1" OFFSET BV & CUT<br>D – 1 STUB 2" OFFSET BV<br>E – 2 STUB 2" OFFSET BV & SWAGED<br>F – 2 STUB 2" OFFSET BV & CUT<br>G – 1 STUB 3" OFFSET BV<br>H – 2 STUB 3" OFFSET BV & SWAGED<br>I – 2 STUB 3" OFFSET BV & CUT<br>J – 1 STUB 4" OFFSET BV<br>K – 2 STUB 4" OFFSET BV & SWAGED<br>L – 2 STUB 4" OFFSET BV & CUT<br>M – 2 STUB 1" OFFSET BV & BV<br>N – 2 STUB 2" OFFSET BV & BV<br>P – 2 STUB 3" OFFSET BV & BV<br>Q – 2 STUB 4" OFFSET BV & BV |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                          |                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>SHIPPING</b>          | 91 – ATTACHED TO UNIT<br>60 – SHIPPED LOOSE                                                                    |
| <b>TUBE LENGTH</b>       | 119 – 119" (STANDARD)<br>120 – 120" (STRAIGHT CUT ONLY)<br>### – CUSTOM LENGTHS<br>(EXTENSION TUBES 12" – 36") |
| <b>INSULATION</b>        | 0 – NONE<br>4 – 1/2" THICK<br>6 – 3/4" THICK<br>7 – 1" THICK                                                   |
| <b>BOTTOM CONNECTION</b> | E – EXPANDED<br>S – STRAIGHT CUT<br>C – CAPPED<br>H – HALF RISER                                               |
| <b>TOP CONNECTION</b>    | E – EXPANDED<br>S – STRAIGHT CUT<br>C – CAPPED<br>H – HALF RISER                                               |

# NOMENCLATURE – ACCESSORIES

## OUTSIDE AIR OPTIONS

|           |          |          |
|-----------|----------|----------|
| <b>UN</b> | <b>1</b> | <b>0</b> |
|           |          |          |

## ACCESS AIR PANELS

|          |          |          |          |          |
|----------|----------|----------|----------|----------|
| <b>A</b> | <b>S</b> | <b>0</b> | <b>0</b> | <b>W</b> |
|          |          |          |          |          |

## DISCHARGE LOUVERS

|          |          |             |          |
|----------|----------|-------------|----------|
| <b>1</b> | <b>A</b> | <b>1406</b> | <b>W</b> |
|          |          |             |          |

|                    |                                           |
|--------------------|-------------------------------------------|
| <b>OA LOCATION</b> | 00 – NONE<br>UN – UNIVERSAL SIDE KNOCKOUT |
| <b>OA SIZE</b>     | 0 – NONE<br>1 – 4" ROUND CONNECTION       |
| <b>OA OPTION</b>   | 0 – NONE                                  |

|                   |                                                                                                                                              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PANEL TYPE</b> | 0 – NONE<br>A – SURFACE MOUNT<br>B – FLUSH MOUNT<br>D – SURFACE ADA-H<br>E – SURFACE ADA-V<br>F – FLUSH MOUNT ADA-H<br>G – FLUSH MOUNT ADA-V |
| <b>PANEL SIZE</b> | 0 – NONE<br>S – SMALL (SIZE 03-04)<br>M – MEDIUM (SIZE 06-08)<br>L – LARGE (SIZE 10-12)<br>F – FULL SIZE CABINET (88")                       |
| <b>INSULATION</b> | 0 – NONE                                                                                                                                     |

|                    |                             |
|--------------------|-----------------------------|
| <b>IAQ OPTION</b>  | 0 – NONE                    |
| <b>PANEL COLOR</b> | 0 – NONE W – WHITE G – GREY |

|                        |                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LOUVER TYPE</b>     | 0 – NONE<br>1 – ONE DOUBLE DEFLECTION (DD) LOUVER<br>2 – TWO DD LOUVER<br>3 – ONE DD / ONE OPPOSED BLADE DAMPER                                                                                                |
| <b>LOUVER MATERIAL</b> | 0 – NONE<br>A – ALUMINIUM<br>S – STEEL                                                                                                                                                                         |
| <b>LOUVER SIZE</b>     | 0000 – NONE<br>1406 – 14" X 6"<br>1408 – 14" X 8"<br>1412 – 14" X 12"<br>1806 – 18" X 6"<br>1810 – 18" X 10"<br>1816 – 18" X 16"<br>2016 – 20" X 16"<br>2206 – 22" X 6"<br>2208 – 22" X 8"<br>2210 – 22" X 10" |
| <b>LOUVER COLOR</b>    | 0 – NONE W – WHITE G – GREY                                                                                                                                                                                    |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### FEATURES

#### CABINET

External and internal parts are fabricated from galvanized steel. Construction allows for large access panels to permit full access to internal components. The structural integrity of the cabinets remain unaffected by the removal of any or all access panels.

#### INSULATION

Insulation shall be 3/4 inch thick antimicrobial coated Tuf-skin RX providing effective acoustical and thermal control, fire safety, and resistance to air erosion. This insulation meets the requirements of ASTM C 1071, ASTM G 21, ASTM G22, NFPA 90A and UL-181.

#### COILS

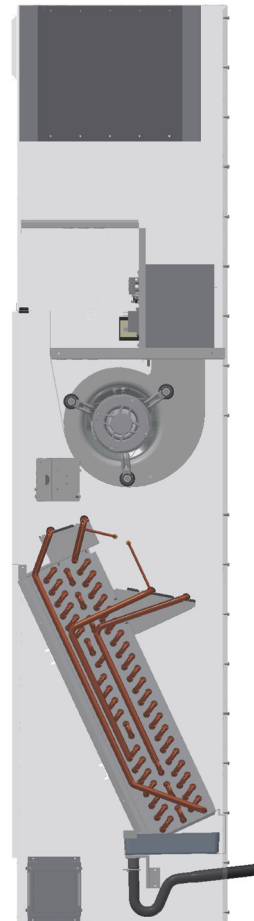
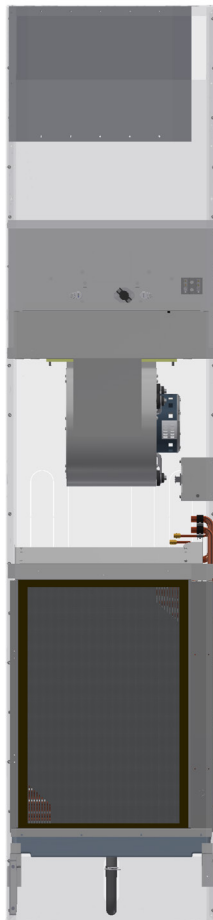
Coils are 1/2 inch staggered tube type construction with seamless copper tubes and headers and deep corrugated aluminum fins with straight edges. Fins are manufactured with full depth collars, drawn in the fin stock to provide accurate control of fin spacing and completely cover the copper tubes to lengthen coil life. The tubes are to be expanded into the fins for a permanent primary to secondary surface bond, assuring maximum heat transfer efficiency. The coils are to be tested at 350 pounds air pressure for operation at 300 PSI gauge working pressure. Coils include a manual air vent.

#### COOLING/HEATING

Options include 2-pipe, 4-pipe or 2-pipe with electric heat.

#### DRAIN PANS

Removable and formed from heavy gauge galvanized steel or optional stainless steel and is coated inside with insulation. The drain pan is factory piped to a removable “p-trap” for easy cleaning.





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# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### FEATURES (CONT'D)

#### FAN WHEELS

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

#### MOTOR

Three-speed with 115-V, 208/240-V and 277-V option, single phase, 60-Hz, electronically commutated motor type, factory mounted on the blower housing.

#### FILTERS

1" disposable type. The filters are included in the units as an integral part of the cabinet with easy access.

#### RISERS

Can be factory installed or shipped loose. Typically 116" or 120" long with straight ends for pro-press fittings to join one riser to another or swaged ends. Standard risers are copper insulated with 3/4" insulation, with additional thicknesses of 1/2" or 1" thick synthetic rubber options. Risers are made from either Type L or Type M copper.

#### VALVE PACKAGES

Factory assembled for installation inside cabinet. Power-heads include quick connect wiring harness.

#### 24V CONTROLS

Include a quick connect plug for field-mounting of thermostat on the front of unit.

#### FRESH AIR

Opening available on either side of unit as a knockout.

#### ELECTRIC HEATERS

Equipped with open wound nichrome wire including automatic reset safety cutout switch and 24v control circuit.

#### RETURN AIR/ACCESS PANEL

Is fabricated from heavy gauge galvanized steel with stamped louvers, powder coated and equipped with tamper proof fasteners.

#### CERTIFICATIONS

Include ETL for safety and rated in accordance with ARI standard 440 for capacity.



## VERTICAL HIGH RISE FAN COILS

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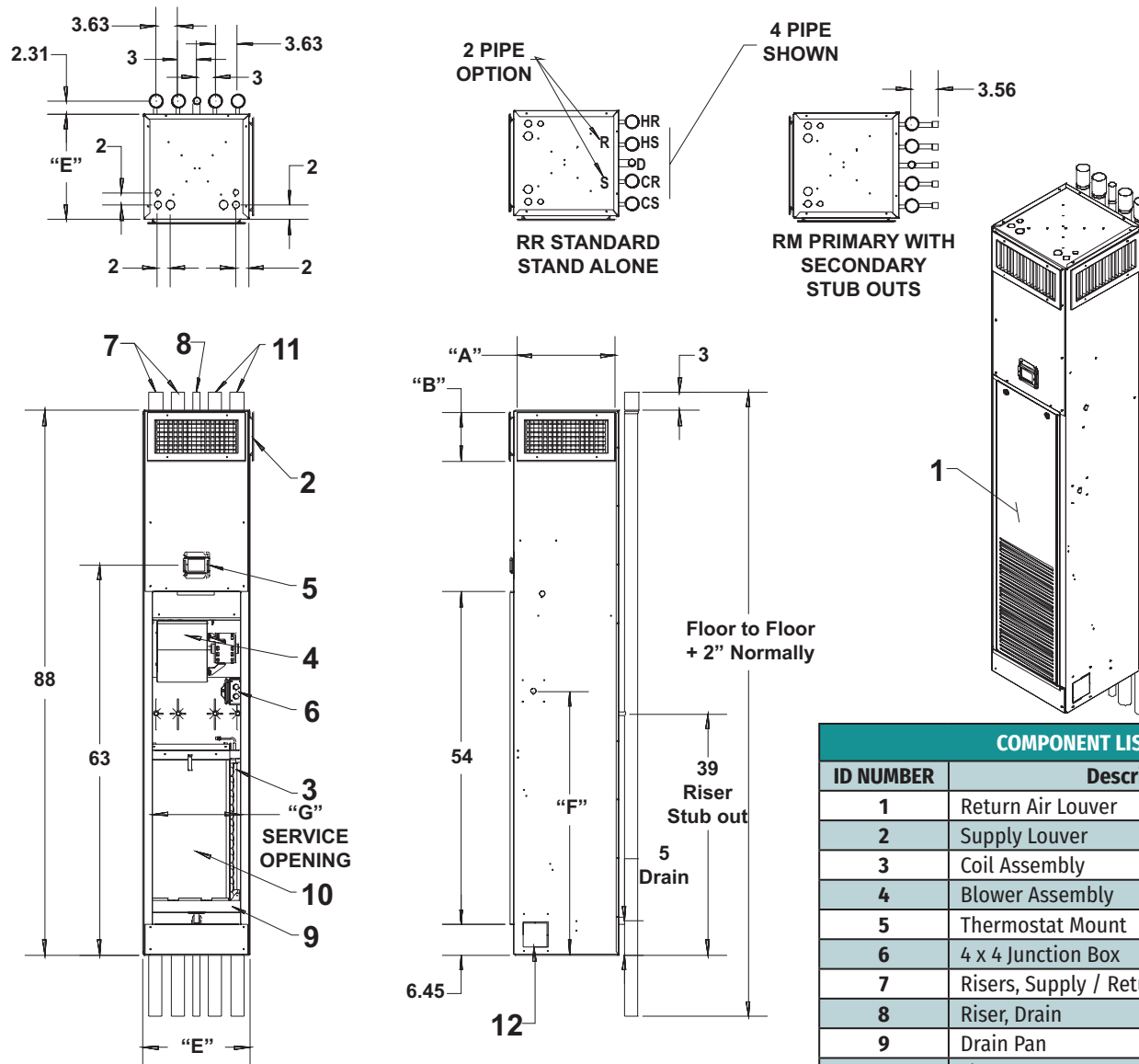
| COMPONENT LIST |                                       |
|----------------|---------------------------------------|
| ID NUMBER      | Description                           |
| 1              | Return Air Louver                     |
| 2              | Supply Louver                         |
| 3              | Coil Assembly                         |
| 4              | Blower Assembly                       |
| 5              | Thermostat Mount                      |
| 6              | 4 x 4 Junction Box                    |
| 7              | Risers, Supply / Return Hot           |
| 8              | Riser, Drain                          |
| 9              | Drain Pan                             |
| 10             | Filter                                |
| 11             | Riser, Supply / Return Cold           |
| 12             | Knockout for Optional Fresh Air Inlet |

| BLTX DIMENSIONS |                       |   |      |                           |   |        |                    |    |         |             |       |       |                   |
|-----------------|-----------------------|---|------|---------------------------|---|--------|--------------------|----|---------|-------------|-------|-------|-------------------|
| MODEL           | SINGLE SUPPLY OPENING |   |      | DOUBLE SUPPLY OPENING (2) |   |        | TOP SUPPLY OPENING |    |         | FILTER DATA |       |       |                   |
|                 | A                     | B | SIZE | A                         | B | SIZE   | C                  | D  | SIZE    | E           | F     | G     | FILTER SIZE       |
| 3RR             |                       |   |      | 14                        | 6 | 14 X 6 | 14                 | 10 | 14 X 10 | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 4RR             |                       |   |      | 14                        | 6 | 14 X 6 | 14                 | 10 | 14 X 10 | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 6RR             |                       |   |      | 18                        | 6 | 18 X 6 | 16                 | 12 | 16 X 12 | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 8RR             |                       |   |      | 18                        | 6 | 18 X 6 | 16                 | 12 | 16 X 12 | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 10RR            |                       |   |      | 22                        | 8 | 22 X 8 | 18                 | 16 | 18 X 16 | 24          | 42.62 | 22.13 | 20.50 X 29.25 X 1 |
| 12RR            |                       |   |      | 22                        | 8 | 22 X 8 | 18                 | 16 | 18 X 16 | 24          | 42.62 | 22.13 | 20.50 X 29.25 X 1 |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### BFRX – DIMENSIONS



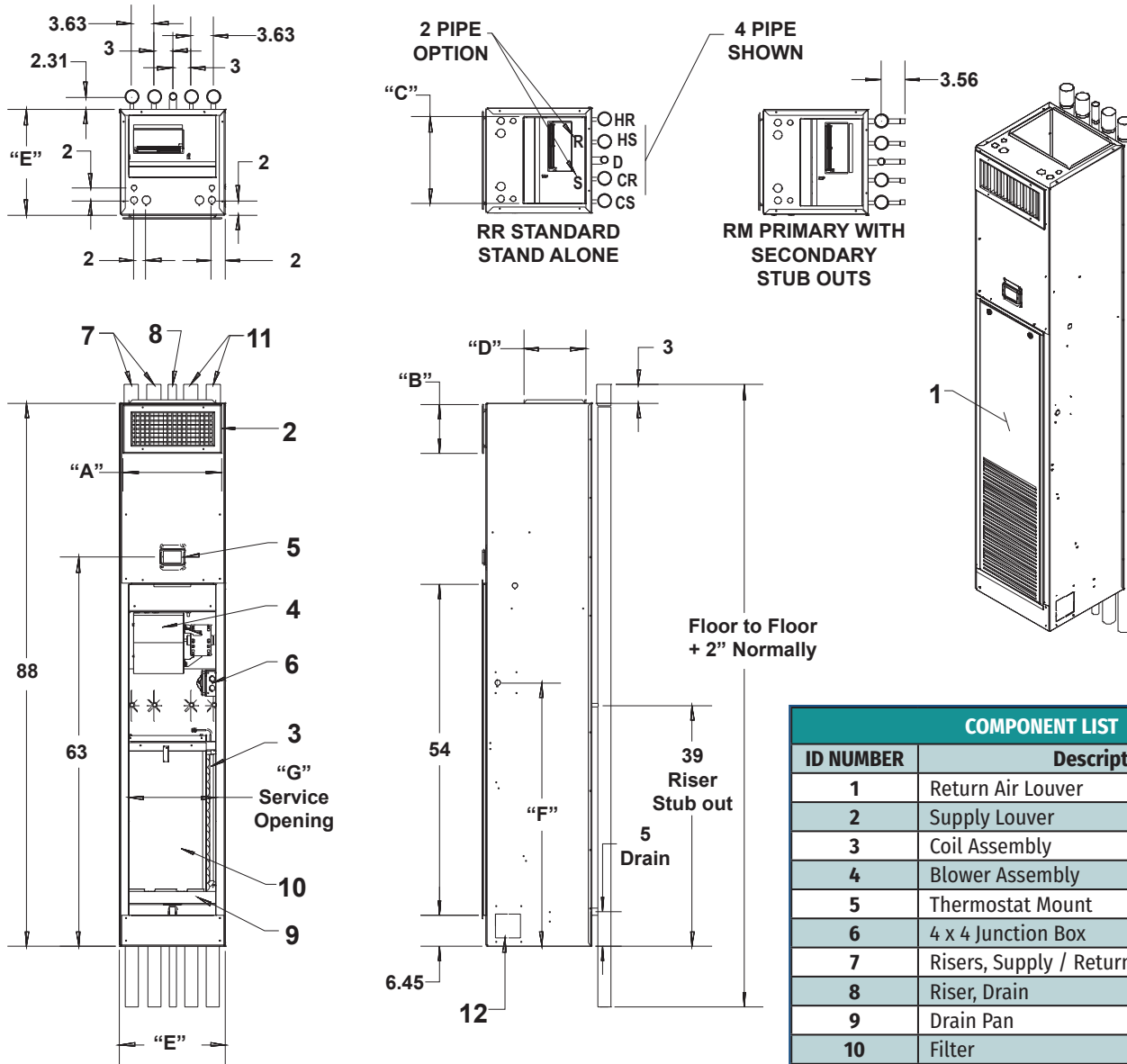
| COMPONENT LIST |                                       |
|----------------|---------------------------------------|
| ID NUMBER      | Description                           |
| 1              | Return Air Louver                     |
| 2              | Supply Louver                         |
| 3              | Coil Assembly                         |
| 4              | Blower Assembly                       |
| 5              | Thermostat Mount                      |
| 6              | 4 x 4 Junction Box                    |
| 7              | Risers, Supply / Return Hot           |
| 8              | Riser, Drain                          |
| 9              | Drain Pan                             |
| 10             | Filter                                |
| 11             | Riser, Supply / Return Cold           |
| 12             | Knockout for Optional Fresh Air Inlet |

| BFRX DIMENSIONS |                       |   |      |                           |   |        |                    |   |      |             |       |       |                   |
|-----------------|-----------------------|---|------|---------------------------|---|--------|--------------------|---|------|-------------|-------|-------|-------------------|
| MODEL           | SINGLE SUPPLY OPENING |   |      | DOUBLE SUPPLY OPENING (2) |   |        | TOP SUPPLY OPENING |   |      | FILTER DATA |       |       |                   |
|                 | A                     | B | SIZE | A                         | B | SIZE   | C                  | D | SIZE | E           | F     | G     | FILTER SIZE       |
| 3RR             |                       |   |      | 14                        | 6 | 14 X 6 |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 4RR             |                       |   |      | 14                        | 6 | 14 X 6 |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 6RR             |                       |   |      | 18                        | 6 | 18 X 6 |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 8RR             |                       |   |      | 18                        | 6 | 18 X 6 |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 10RR            |                       |   |      | 22                        | 8 | 22 X 8 |                    |   |      | 24          | 42.62 | 22.13 | 20.50 X 29.25 X 1 |
| 12RR            |                       |   |      | 22                        | 8 | 22 X 8 |                    |   |      | 24          | 42.62 | 22.13 | 20.50 X 29.25 X 1 |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### BFTX – DIMENSIONS

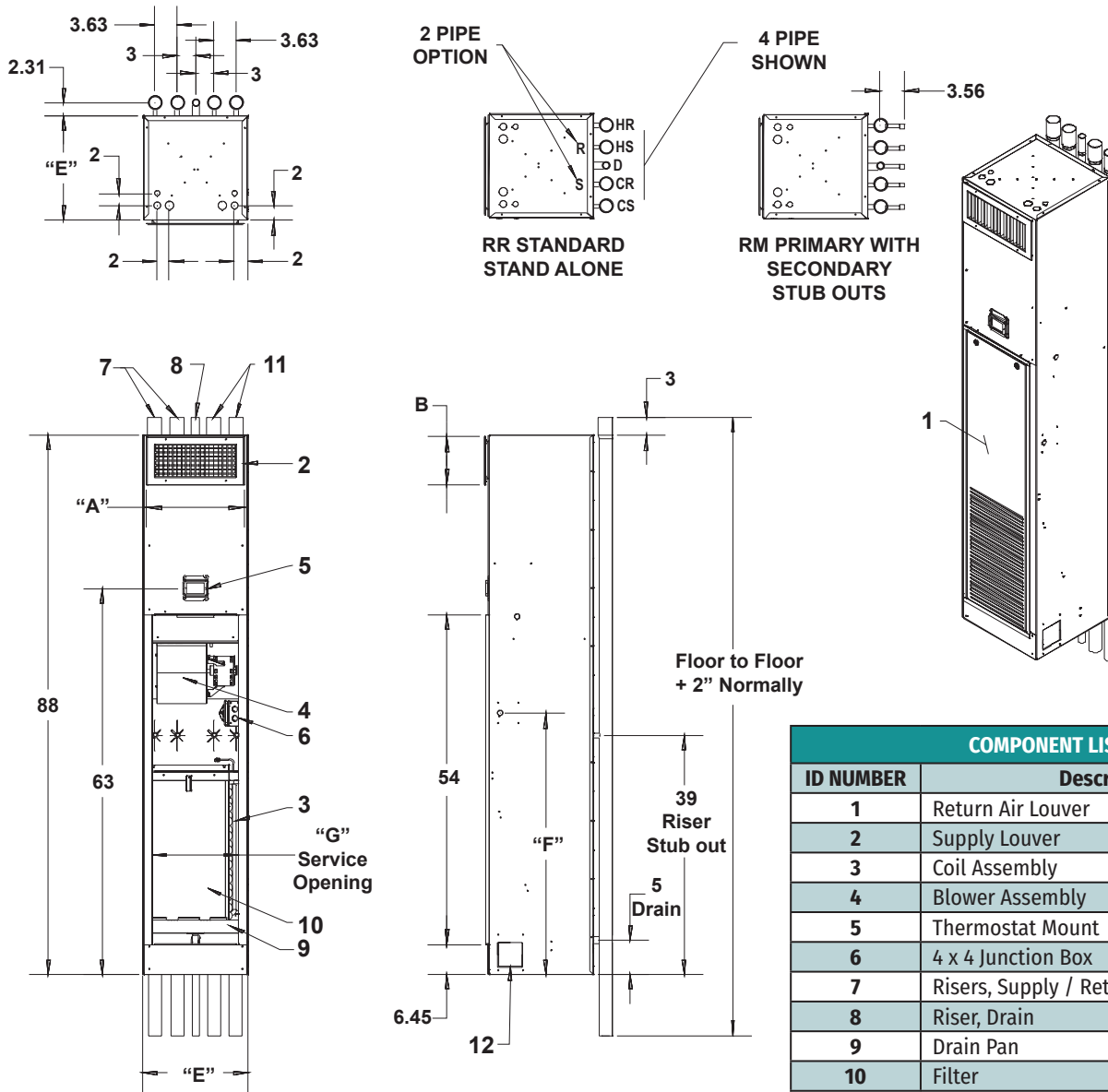


| BFTX DIMENSIONS |                       |   |      |                           |   |        |                    |    |         |             |       |       |                   |
|-----------------|-----------------------|---|------|---------------------------|---|--------|--------------------|----|---------|-------------|-------|-------|-------------------|
| MODEL           | SINGLE SUPPLY OPENING |   |      | DOUBLE SUPPLY OPENING (2) |   |        | TOP SUPPLY OPENING |    |         | FILTER DATA |       |       |                   |
|                 | A                     | B | SIZE | A                         | B | SIZE   | C                  | D  | SIZE    | E           | F     | G     | FILTER SIZE       |
| 3RR             |                       |   |      | 14                        | 6 | 14 X 6 | 14                 | 10 | 14 X 10 | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 4RR             |                       |   |      | 14                        | 6 | 14 X 6 | 14                 | 10 | 14 X 10 | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 6RR             |                       |   |      | 18                        | 6 | 18 X 6 | 16                 | 12 | 16 X 12 | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 8RR             |                       |   |      | 18                        | 6 | 18 X 6 | 16                 | 12 | 16 X 12 | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 10RR            |                       |   |      | 22                        | 8 | 22 X 8 | 18                 | 16 | 18 X 16 | 24          | 42.62 | 22.13 | 20.50 X 29.25 X 1 |
| 12RR            |                       |   |      | 22                        | 8 | 22 X 8 | 18                 | 16 | 18 X 16 | 24          | 42.62 | 22.13 | 20.50 X 29.25 X 1 |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### BFXF – DIMENSIONS



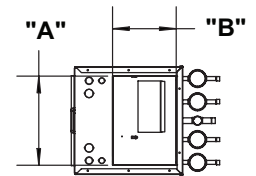
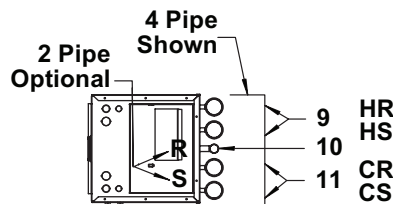
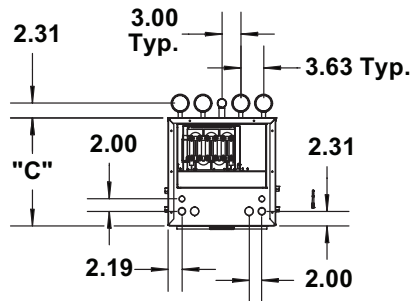
| COMPONENT LIST |                                       |
|----------------|---------------------------------------|
| ID NUMBER      | Description                           |
| 1              | Return Air Louver                     |
| 2              | Supply Louver                         |
| 3              | Coil Assembly                         |
| 4              | Blower Assembly                       |
| 5              | Thermostat Mount                      |
| 6              | 4 x 4 Junction Box                    |
| 7              | Risers, Supply / Return Hot           |
| 8              | Riser, Drain                          |
| 9              | Drain Pan                             |
| 10             | Filter                                |
| 11             | Riser, Supply / Return Cold           |
| 12             | Knockout for Optional Fresh Air Inlet |

| BFXF DIMENSIONS |                       |    |       |                           |   |      |                    |   |      |             |       |       |                   |
|-----------------|-----------------------|----|-------|---------------------------|---|------|--------------------|---|------|-------------|-------|-------|-------------------|
| MODEL           | SINGLE SUPPLY OPENING |    |       | DOUBLE SUPPLY OPENING (2) |   |      | TOP SUPPLY OPENING |   |      | FILTER DATA |       |       |                   |
|                 | A                     | B  | SIZE  | A                         | B | SIZE | C                  | D | SIZE | E           | F     | G     | FILTER SIZE       |
| 3RR             | 14                    | 8  | 14x8  |                           |   |      |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 4RR             | 14                    | 12 | 14x12 |                           |   |      |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 6RR             | 18                    | 10 | 18x10 |                           |   |      |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 8RR             | 18                    | 12 | 18x12 |                           |   |      |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |

# RR SERIES

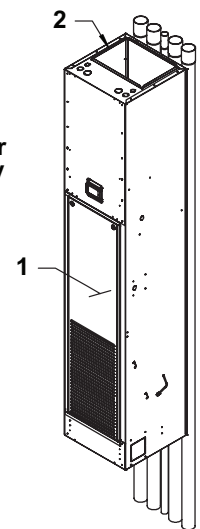
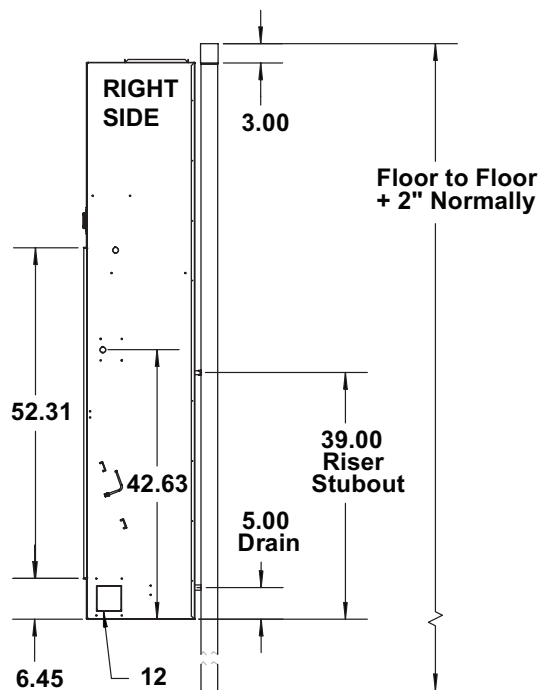
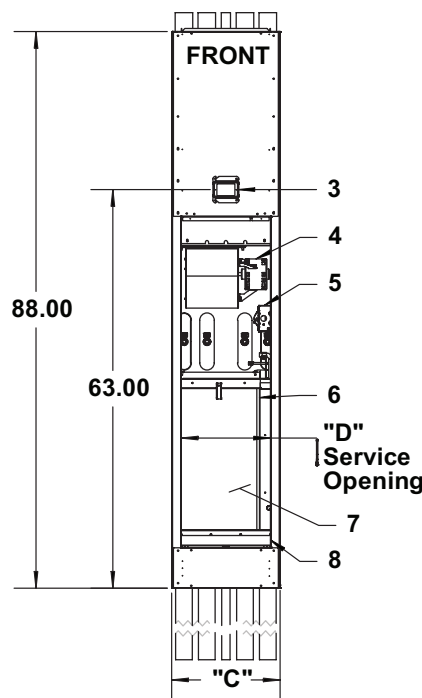
## VERTICAL HIGH RISE FAN COILS

### BTXX – DIMENSIONS



RR STANDARD  
STAND ALONE

RR MASTER WITH  
SLAVE STUBOUTS



| COMPONENT LIST – 1 Thru 6 |                               |
|---------------------------|-------------------------------|
| ID NUMBER                 | Description                   |
| 1                         | Return Air Louver             |
| 2                         | Supply Duct                   |
| 3                         | Thermostat Mount              |
| 4                         | Blower Assembly               |
| 5                         | 4 x 4 J-Box W/ Service Switch |
| 6                         | Coil Assembly                 |

| COMPONENT LIST – 7 Thru 12 |                                       |
|----------------------------|---------------------------------------|
| ID NUMBER                  | Description                           |
| 7                          | Filter                                |
| 8                          | Drain Pan                             |
| 9                          | Risers, Supply/Return Hot             |
| 10                         | Riser Drain                           |
| 11                         | Risers, Supply/Return Cold            |
| 12                         | Knockout for Optional Fresh Air Inlet |

| BTXX DIMENSIONS |            |    |       |             |       |                   |
|-----------------|------------|----|-------|-------------|-------|-------------------|
| MODEL           | TOP SUPPLY |    |       | FILTER DATA |       |                   |
|                 | A          | B  | SIZE  | C           | D     | FILTER SIZE       |
| 3RR             | 14         | 10 | 14x10 | 17          | 14.13 | 12.50 X 24.25 X 1 |
| 4RR             | 14         | 10 | 14x10 | 17          | 14.13 | 12.50 X 24.25 X 1 |
| 6RR             | 16         | 12 | 16X12 | 20          | 18.13 | 16.25 X 26.75 X 1 |
| 8RR             | 16         | 12 | 16X12 | 20          | 18.13 | 16.25 X 26.75 X 1 |
| 10RR            | 18         | 16 | 18X16 | 24          | 22.13 | 20.50 X 29.25 X 1 |
| 12RR            | 18         | 16 | 18X16 | 24          | 22.13 | 20.50 X 29.25 X 1 |

## VERTICAL HIGH RISE FAN COILS

**Top View:**

- Dimensions: 3.63, 2.31, "E", 2, 3, 3.63

**Side View:**

- Dimensions: 7, 8, 11, 2, 5, 4, 6, 3, "G" Service Opening, 10, 9, 88, 63

**Front View:**

- Dimensions: "A", "B", 3, Floor to Floor + 2" Normally, 54, "F", 39 Riser Stub out, 5 Drain, 6.45, 12

**Options:**

- 2 PIPE OPTION:** Shows connections for OHR, OHS, OD, OCR, and OCS.
- 4 PIPE SHOWN:** Shows four pipe stub outs.

**Component List:**

| ID NUMBER | Description             |
|-----------|-------------------------|
| 1         | Return Air Louver       |
| 2         | Supply Louver           |
| 3         | Coil Assembly           |
| 4         | Blower Assembly         |
| 5         | Thermostat Mount        |
| 6         | 4 x 4 Junction Box      |
| 7         | Risers, Supply / Return |
| 8         | Riser, Drain            |
| 9         | Drain Pan               |
| 10        | Filter                  |
| 11        | Riser, Supply / Return  |
| 12        | Knockout for Options    |

| BLRX DIMENSIONS |                       |   |      |                           |   |        |                    |   |      |             |       |       |                   |
|-----------------|-----------------------|---|------|---------------------------|---|--------|--------------------|---|------|-------------|-------|-------|-------------------|
| MODEL           | SINGLE SUPPLY OPENING |   |      | DOUBLE SUPPLY OPENING (2) |   |        | TOP SUPPLY OPENING |   |      | FILTER DATA |       |       |                   |
|                 | A                     | B | SIZE | A                         | B | SIZE   | C                  | D | SIZE | E           | F     | G     | FILTER SIZE       |
| 3RR             |                       |   |      | 14                        | 6 | 14 X 6 |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 4RR             |                       |   |      | 14                        | 6 | 14 X 6 |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 6RR             |                       |   |      | 18                        | 6 | 18 X 6 |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 8RR             |                       |   |      | 18                        | 6 | 18 X 6 |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 10RR            |                       |   |      | 22                        | 8 | 22 X 8 |                    |   |      | 24          | 42.62 | 22.13 | 20.50 X 29.25 X 1 |
| 12RR            |                       |   |      | 22                        | 8 | 22 X 8 |                    |   |      | 24          | 42.62 | 22.13 | 20.50 X 29.25 X 1 |





## VERTICAL HIGH RISE FAN COILS

**4 PIPE SHOWN**

**2 PIPE OPTION**

**RR STANDARD STAND ALONE**

**RM PRIMARY WITH SECONDARY STUB OUTS**

**3.56**

**3.63**

**2**

**3**

**“E”**

**“A”**

**“B”**

**3**

**“F”**

**54**

**6.45**

**12**

**39 Riser Stub out**

**5 Drain**

**7**

**8**

**11**

**2**

**5**

**4**

**6**

**“G” Service Opening**

**3**

**10**

**9**

**88**

**63**

**“E”**

**1**

| COMPONENT LIST |                         |
|----------------|-------------------------|
| ID NUMBER      | Description             |
| 1              | Return Air Louver       |
| 2              | Supply Louver           |
| 3              | Coil Assembly           |
| 4              | Blower Assembly         |
| 5              | Thermostat Mount        |
| 6              | 4 x 4 Junction Box      |
| 7              | Risers, Supply / Return |
| 8              | Riser, Drain            |
| 9              | Drain Pan               |
| 10             | Filter                  |

| COMPONENT LIST |                                       |
|----------------|---------------------------------------|
| ID NUMBER      | Description                           |
| 1              | Return Air Louver                     |
| 2              | Supply Louver                         |
| 3              | Coil Assembly                         |
| 4              | Blower Assembly                       |
| 5              | Thermostat Mount                      |
| 6              | 4 x 4 Junction Box                    |
| 7              | Risers, Supply / Return Hot           |
| 8              | Riser, Drain                          |
| 9              | Drain Pan                             |
| 10             | Filter                                |
| 11             | Riser, Supply / Return Cold           |
| 12             | Knockout for Optional Fresh Air Inlet |

| BLXX DIMENSIONS |                       |    |       |                           |   |      |                    |   |      |             |       |       |                   |
|-----------------|-----------------------|----|-------|---------------------------|---|------|--------------------|---|------|-------------|-------|-------|-------------------|
| MODEL           | SINGLE SUPPLY OPENING |    |       | DOUBLE SUPPLY OPENING (2) |   |      | TOP SUPPLY OPENING |   |      | FILTER DATA |       |       |                   |
|                 | A                     | B  | SIZE  | A                         | B | SIZE | C                  | D | SIZE | E           | F     | G     | FILTER SIZE       |
| 3RR             | 14                    | 8  | 14x8  |                           |   |      |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 4RR             | 14                    | 12 | 14x12 |                           |   |      |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 6RR             | 18                    | 10 | 18x10 |                           |   |      |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 8RR             | 18                    | 12 | 18x12 |                           |   |      |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |

## VERTICAL HIGH RISE FAN COILS

[illegible]

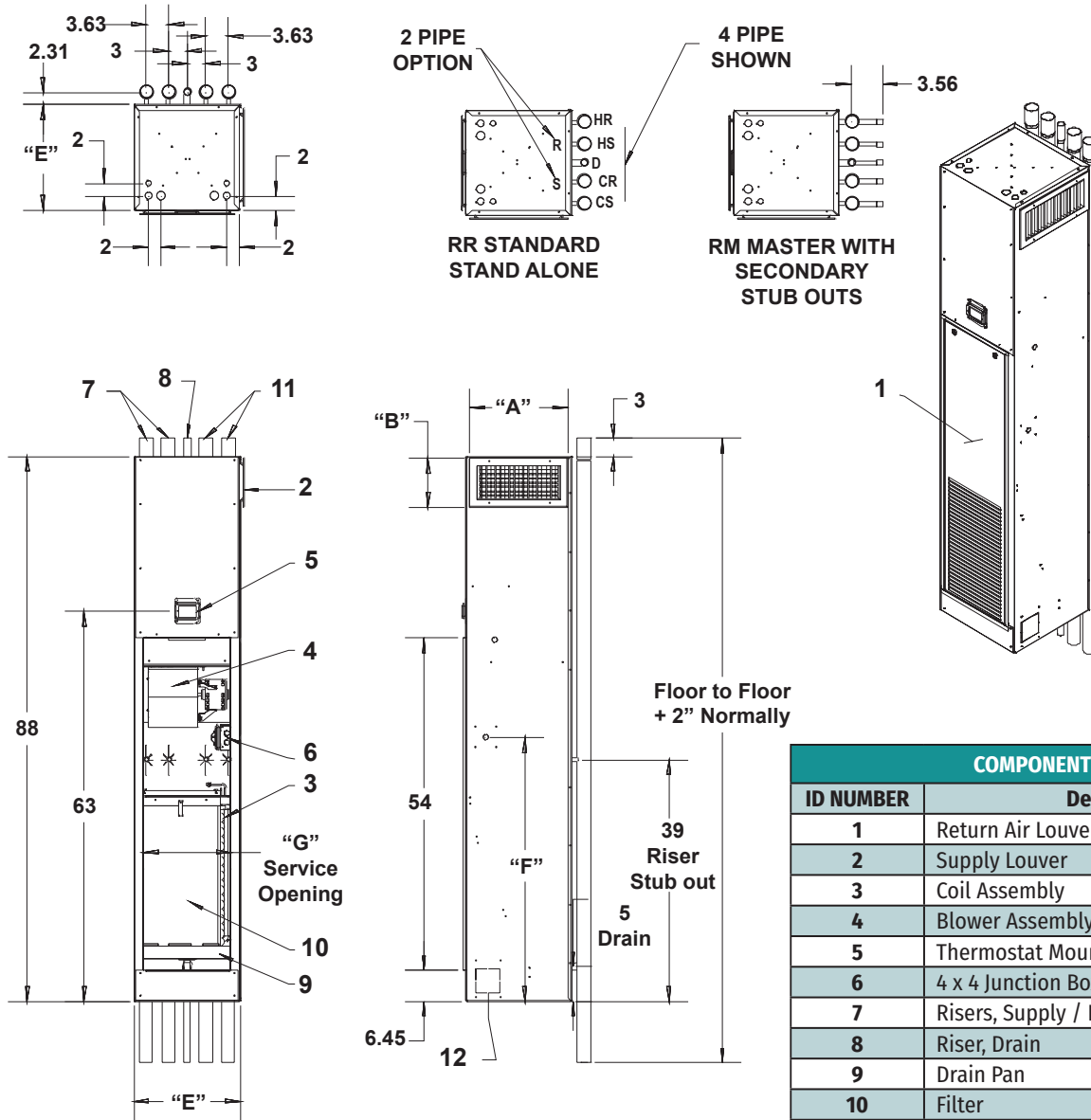
| COMPONENT LIST |                                       |
|----------------|---------------------------------------|
| ID NUMBER      | Description                           |
| 1              | Return Air Louver                     |
| 2              | Supply Louver                         |
| 3              | Coil Assembly                         |
| 4              | Blower Assembly                       |
| 5              | Thermostat Mount                      |
| 6              | 4 x 4 Junction Box                    |
| 7              | Risers, Supply / Return Hot           |
| 8              | Riser, Drain                          |
| 9              | Drain Pan                             |
| 10             | Filter                                |
| 11             | Riser, Supply / Return Cold           |
| 12             | Knockout for Optional Fresh Air Inlet |

| BRTX DIMENSIONS |                       |   |      |                           |   |        |                    |    |         |             |       |       |                   |
|-----------------|-----------------------|---|------|---------------------------|---|--------|--------------------|----|---------|-------------|-------|-------|-------------------|
| MODEL           | SINGLE SUPPLY OPENING |   |      | DOUBLE SUPPLY OPENING (2) |   |        | TOP SUPPLY OPENING |    |         | FILTER DATA |       |       |                   |
|                 | A                     | B | SIZE | A                         | B | SIZE   | C                  | D  | SIZE    | E           | F     | G     | FILTER SIZE       |
| 3RR             |                       |   |      | 14                        | 6 | 14 X 6 | 14                 | 10 | 14 X 10 | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 4RR             |                       |   |      | 14                        | 6 | 14 X 6 | 14                 | 10 | 14 X 10 | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 6RR             |                       |   |      | 18                        | 6 | 18 X 6 | 16                 | 12 | 16 X 12 | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 8RR             |                       |   |      | 18                        | 6 | 18 X 6 | 16                 | 12 | 16 X 12 | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 10RR            |                       |   |      | 22                        | 8 | 22 X 8 | 18                 | 16 | 18 X 16 | 24          | 42.62 | 22.13 | 20.50 X 29.25 X 1 |
| 12RR            |                       |   |      | 22                        | 8 | 22 X 8 | 18                 | 16 | 18 X 16 | 24          | 42.62 | 22.13 | 20.50 X 29.25 X 1 |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### BRXX – DIMENSIONS

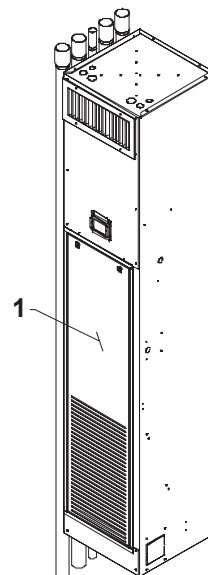
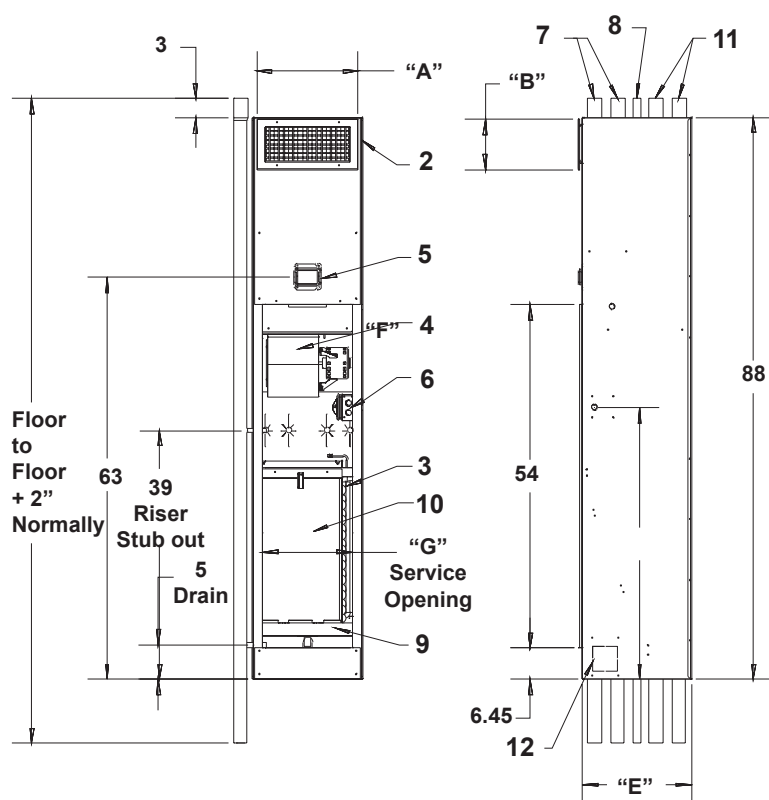
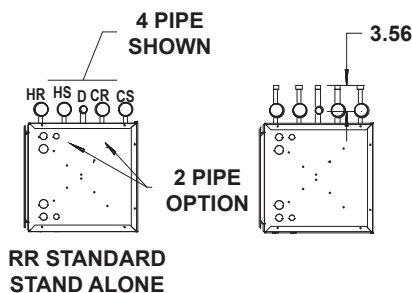


| COMPONENT LIST |                                       |
|----------------|---------------------------------------|
| ID NUMBER      | Description                           |
| 1              | Return Air Louver                     |
| 2              | Supply Louver                         |
| 3              | Coil Assembly                         |
| 4              | Blower Assembly                       |
| 5              | Thermostat Mount                      |
| 6              | 4 x 4 Junction Box                    |
| 7              | Risers, Supply / Return Hot           |
| 8              | Riser, Drain                          |
| 9              | Drain Pan                             |
| 10             | Filter                                |
| 11             | Riser, Supply / Return Cold           |
| 12             | Knockout for Optional Fresh Air Inlet |

| BRXX DIMENSIONS |                       |    |       |                           |   |      |                    |   |      |             |       |       |                   |
|-----------------|-----------------------|----|-------|---------------------------|---|------|--------------------|---|------|-------------|-------|-------|-------------------|
| MODEL           | SINGLE SUPPLY OPENING |    |       | DOUBLE SUPPLY OPENING (2) |   |      | TOP SUPPLY OPENING |   |      | FILTER DATA |       |       |                   |
|                 | A                     | B  | SIZE  | A                         | B | SIZE | C                  | D | SIZE | E           | F     | G     | FILTER SIZE       |
| 3RR             | 14                    | 8  | 14x8  |                           |   |      |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 4RR             | 14                    | 12 | 14x12 |                           |   |      |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 6RR             | 18                    | 10 | 18x10 |                           |   |      |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 8RR             | 18                    | 12 | 18x12 |                           |   |      |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |

## VERTICAL HIGH RISE FAN COILS

Technical drawing of a window frame assembly. The drawing shows a cross-section of the frame with various dimensions and components labeled. The dimensions are: 2.31 (width of the frame), 3.63 (height of the frame), 2 (width of the frame), 3 (height of the frame), and 2 (width of the frame). The components are labeled: "E" (top edge), 2 (right edge), 2 (bottom edge), 2 (left edge), and 3 (left edge). The drawing also shows a small square component labeled 2 inside the frame.



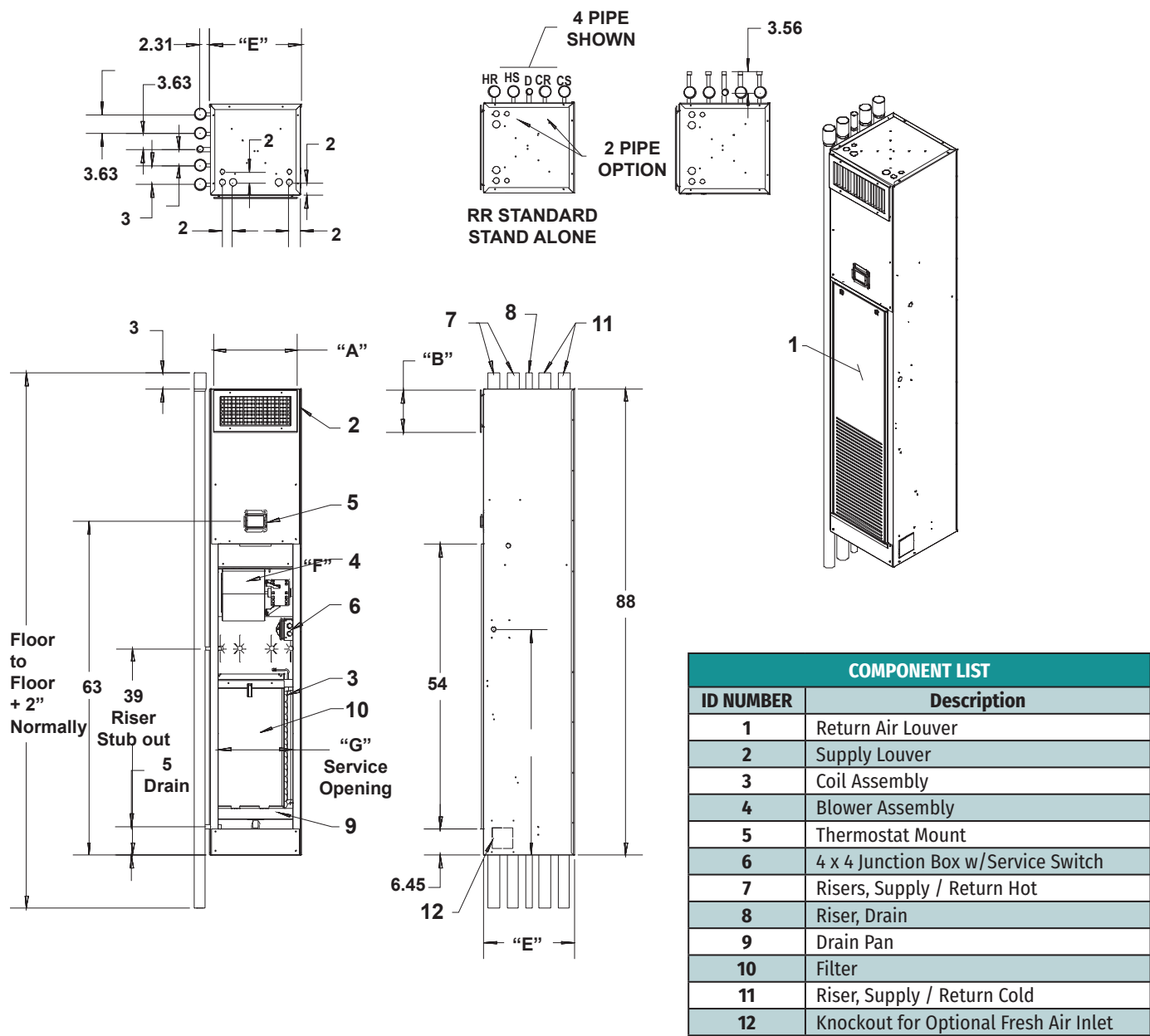
| COMPONENT LIST |                                       |
|----------------|---------------------------------------|
| ID NUMBER      | Description                           |
| 1              | Return Air Louver                     |
| 2              | Supply Louver                         |
| 3              | Coil Assembly                         |
| 4              | Blower Assembly                       |
| 5              | Thermostat Mount                      |
| 6              | 4 x 4 Junction Box                    |
| 7              | Risers, Supply / Return Hot           |
| 8              | Riser, Drain                          |
| 9              | Drain Pan                             |
| 10             | Filter                                |
| 11             | Riser, Supply / Return Cold           |
| 12             | Knockout for Optional Fresh Air Inlet |

| LFXX DIMENSIONS |                       |    |       |                           |   |      |                    |   |      |             |       |       |                   |
|-----------------|-----------------------|----|-------|---------------------------|---|------|--------------------|---|------|-------------|-------|-------|-------------------|
| MODEL           | SINGLE SUPPLY OPENING |    |       | DOUBLE SUPPLY OPENING (2) |   |      | TOP SUPPLY OPENING |   |      | FILTER DATA |       |       |                   |
|                 | A                     | B  | SIZE  | A                         | B | SIZE | C                  | D | SIZE | E           | F     | G     | FILTER SIZE       |
| 3RR             | 14                    | 8  | 14x8  |                           |   |      |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 4RR             | 14                    | 12 | 14x12 |                           |   |      |                    |   |      | 17          | 42.62 | 14.13 | 12.5 X 24.25 X 1  |
| 6RR             | 18                    | 10 | 18x10 |                           |   |      |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |
| 8RR             | 18                    | 12 | 18x12 |                           |   |      |                    |   |      | 20          | 42.62 | 18.13 | 16.25 X 26.75 X 1 |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### UNIV – DIMENSIONS



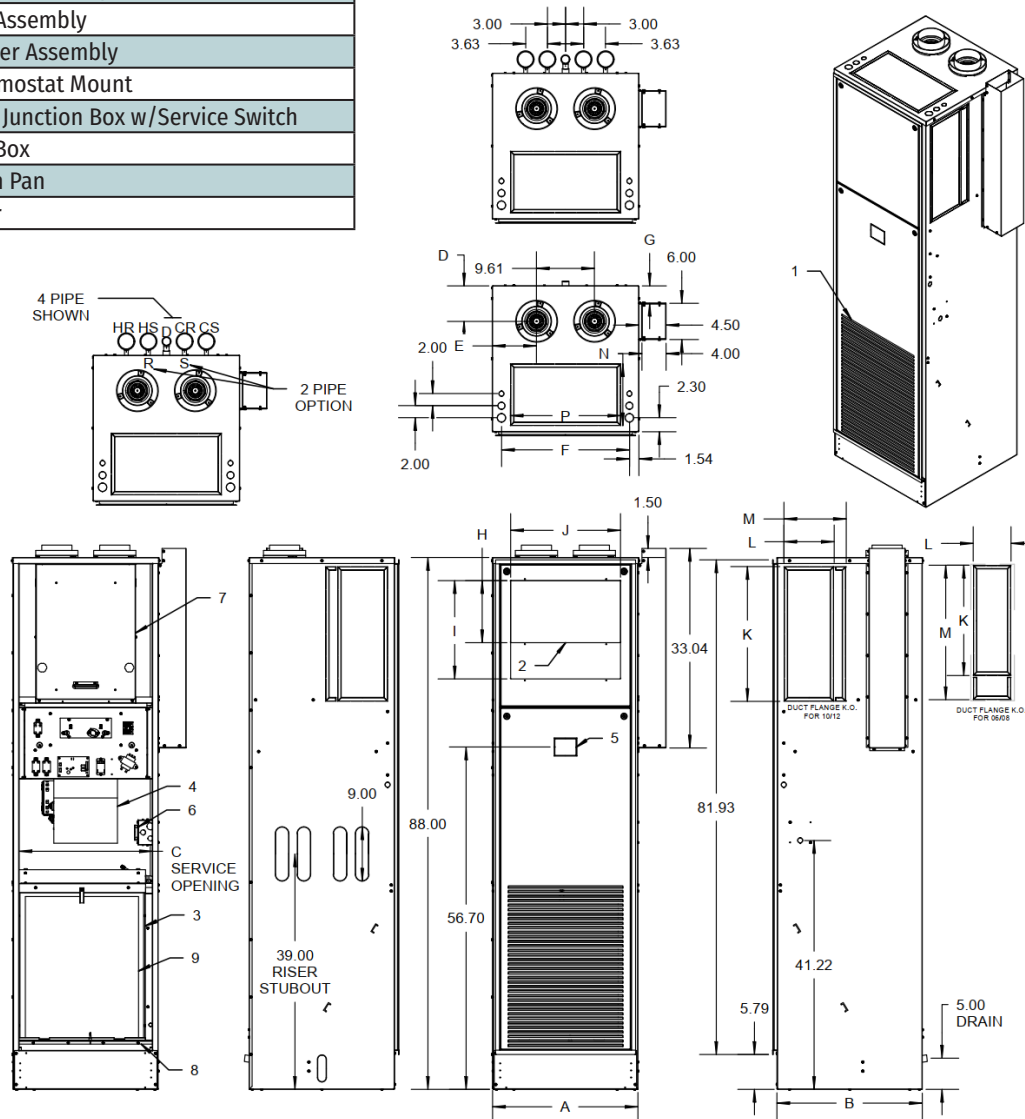
| RR FAN COILS – UNIV DIMENSIONS |    |    |       |   |   |    |       |       |   |    |    |    |    |    |                   |
|--------------------------------|----|----|-------|---|---|----|-------|-------|---|----|----|----|----|----|-------------------|
| UNIT                           | A  | B  | SIZE  | C | D | E  | F     | G     | H | I  | J  | K  | L  | M  | FILTER SIZE       |
| 3/4 RR                         | 14 | 8  | 14x8  | - | - | 17 | 45.62 | 14.13 | 6 | 12 | 14 | 10 | 14 | 8  | 12.5 X 24.25 X 1  |
| 6/8 RR                         | 14 | 12 | 14x12 | - | - | 20 | 45.62 | 18.13 | 6 | 12 | 18 | 12 | 16 | 10 | 16.25 X 26.75 X 1 |
| 10/12 RR                       | 18 | 10 | 18x10 | - | - | 24 | 45.62 | 22.13 | 8 | -  | 22 | 16 | 18 | -  | 20.5 x 29.25 x 1  |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### UNIV-ERV – DIMENSIONS

| COMPONENT LIST |                                     |
|----------------|-------------------------------------|
| ID NUMBER      | Description                         |
| 1              | Return Air Louver                   |
| 2              | Supply Discharge                    |
| 3              | Coil Assembly                       |
| 4              | Blower Assembly                     |
| 5              | Thermostat Mount                    |
| 6              | 4 x 4 Junction Box w/Service Switch |
| 7              | ERV Box                             |
| 8              | Drain Pan                           |
| 9              | Filter                              |



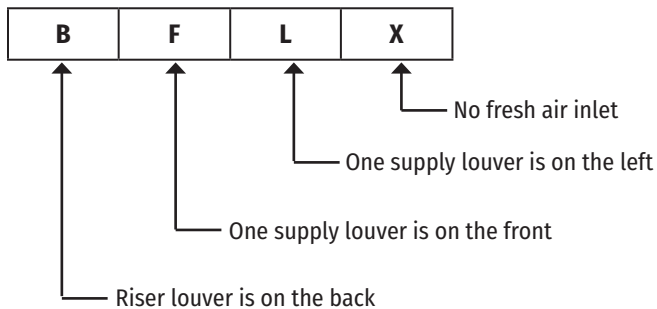
| RR FAN COILS – UNIV-ERV DIMENSIONS |    |    |    |   |   |    |   |                  |    |                |    |   |               |    |    |                   |
|------------------------------------|----|----|----|---|---|----|---|------------------|----|----------------|----|---|---------------|----|----|-------------------|
| ---                                |    |    |    |   |   |    |   | SUPPLY DISCHARGE |    | SIDE DISCHARGE |    |   | TOP DISCHARGE |    | -  |                   |
| UNIT                               | A  | B  | C  | D | E | F  | G | H                | I  | J              | K  | L | M             | N  | P  | FILTER SIZE       |
| 03/04                              | 20 | 20 | 18 | 6 | 5 | 17 | 3 | 6                | 8  | 14             | 14 | 6 | -             | 6  | 14 | 12.5 X 24.5 X 1   |
| 06/08                              | 20 | 20 | 18 | 6 | 5 | 17 | 3 | 8                | 12 | 14             | 18 | 6 | 22            | 6  | 14 | 16.25 X 26.75 X 1 |
| 10/12                              | 24 | 24 | 22 | 6 | 7 | 21 | 3 | 10               | 16 | 18             | 22 | 8 | 10            | 10 | 18 | 10.5 X 29.25 X 1  |

# RR SERIES

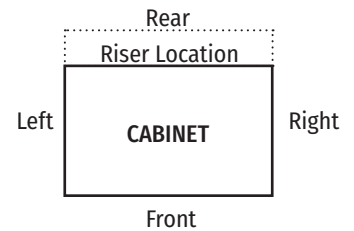
## VERTICAL HIGH RISE FAN COILS

### UNIT ARRANGEMENT

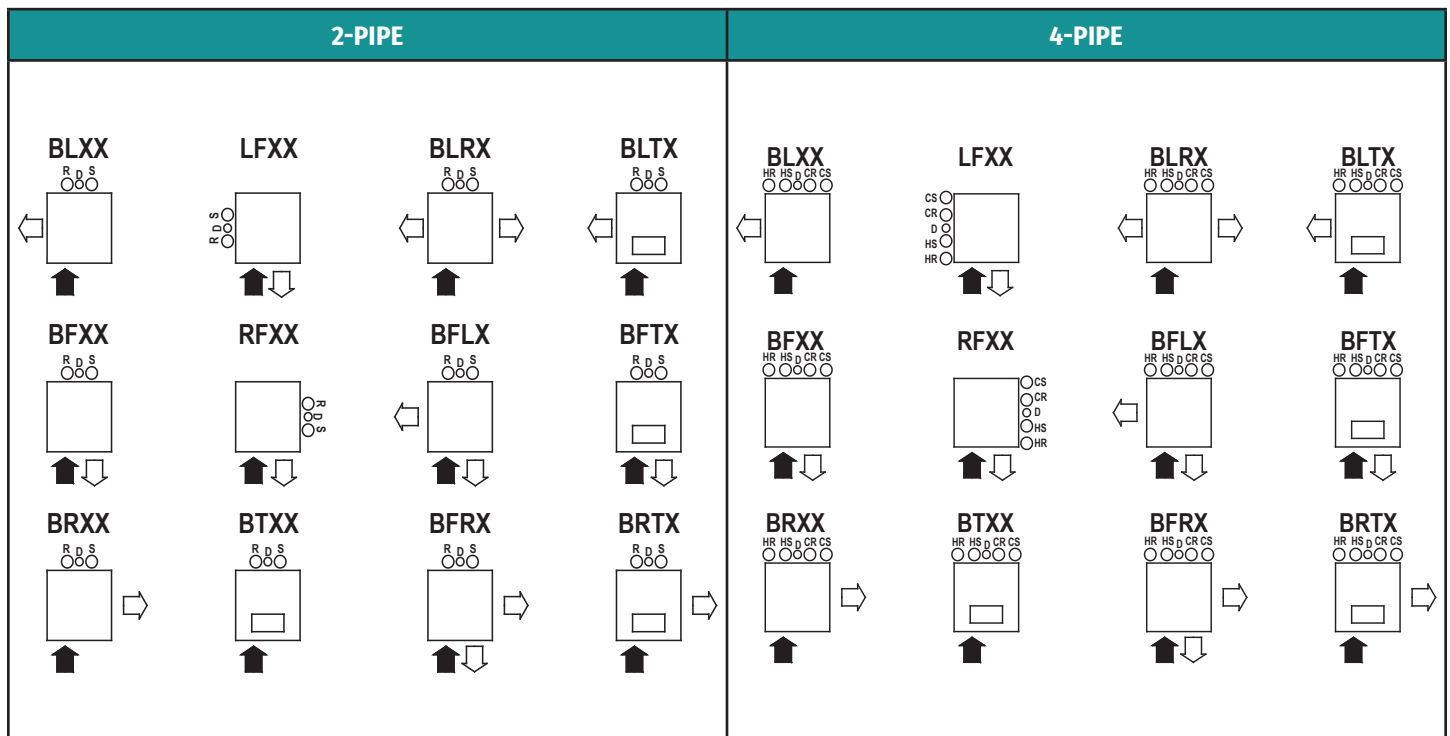
#### TYPICAL ARRANGEMENT



**B = BACK**  
**F = FRONT**  
**L = LEFT**  
**R = RIGHT**  
**X = NONE**



RETURN AIR LOUVER IS ALWAYS CONSIDERED THE FRONT OF UNIT



R = Return  
D = Drain  
S = Supply



HR = Hot Water Return  
HS = Hot Water Supply  
D = Drain  
CR = Cold Water Return  
CS = Cold Water Supply

#### Legend:



# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### BLOWER PERFORMANCE

| CFM        |           |                          |      |      |      |      |      |
|------------|-----------|--------------------------|------|------|------|------|------|
| UNIT MODEL | FAN SPEED | EXTERNAL STATIC PRESSURE |      |      |      |      |      |
|            |           | 0                        | 0.1  | 0.2  | 0.3  | 0.4  | 0.5  |
| 3          | HIGH      | 340                      | 260  | 220  | 180  | 140  | 70   |
|            | MED       | 320                      | 230  | 190  | 145  | 100  | ---  |
|            | LOW       | 300                      | 195  | 150  | 110  | 70   | ---  |
| 4          | HIGH      | 400                      | 345  | 305  | 270  | 230  | 170  |
|            | MED       | 350                      | 280  | 240  | 200  | 160  | 90   |
|            | LOW       | 320                      | 230  | 190  | 145  | 100  | ---  |
| 6          | HIGH      | 620                      | 580  | 550  | 520  | 500  | 470  |
|            | MED       | 520                      | 470  | 440  | 410  | 380  | 340  |
|            | LOW       | 430                      | 370  | 320  | 290  | 250  | 150  |
| 8          | HIGH      | 880                      | 840  | 790  | 740  | 690  | 640  |
|            | MED       | 690                      | 660  | 630  | 600  | 560  | 530  |
|            | LOW       | 550                      | 520  | 480  | 460  | 430  | 400  |
| 10         | MED HIGH  | 1100                     | 1060 | 1020 | 985  | 965  | 930  |
|            | MED LOW   | 1035                     | 1000 | 960  | 930  | 910  | 885  |
|            | LOW       | 880                      | 850  | 800  | 780  | 770  | 735  |
| 12         | HIGH      | 1260                     | 1190 | 1165 | 1130 | 1100 | 1050 |
|            | MED LOW   | 1000                     | 910  | 860  | 840  | 830  | 800  |
|            | LOW       | 790                      | 760  | 710  | 670  | 650  | 610  |

#### NOTES:

Based on maximum of 5 rows.

Deduct 10% for operation at 208V.

Data is subject to change. Please verify most current information on [www.AE-Air.com](http://www.AE-Air.com).



# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### ELECTRIC HEAT DATA

| RR – HEAT DATA TABLE |         |      |      |      |      |      |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |
|----------------------|---------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| Unit Model           | Nom CFM | KW   |      |      |      | BTUH |       |       |       | FLA   |       |       |       | MCA  |      |      |      | MOP  |      |      |      |
|                      |         | 120V | 208V | 240V | 277V | 120V | 208V  | 240V  | 277V  | 120V  | 208V  | 240V  | 277V  | 120V | 208V | 240V | 277V | 120V | 208V | 240V | 277V |
| 3RR                  | 300     | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 4.42  | 2.76  | 2.76  | 2.76  | 6    | 4    | 4    | 4    | 15   | 15   | 15   | 15   |
|                      |         | 1    | 0.75 | 1    | 1    | 3400 | 2550  | 3400  | 3400  | 12.75 | 6.37  | 6.92  | 6.37  | 16   | 8    | 9    | 8    | 20   | 15   | 15   | 15   |
|                      |         | 2    | 1.5  | 2    | 2    | 6800 | 5100  | 6800  | 6800  | 21.08 | 9.97  | 11.08 | 9.98  | 27   | 13   | 14   | 13   | 30   | 15   | 15   | 15   |
|                      |         | -    | 2.25 | 3    | 3    | -    | 7650  | 10200 | 10200 | -     | 13.58 | 15.24 | 13.59 | -    | 17   | 20   | 17   | -    | 20   | 20   | 20   |
| 4RR                  | 400     | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 4.42  | 2.76  | 2.76  | 2.76  | 6    | 4    | 4    | 4    | 15   | 15   | 15   | 15   |
|                      |         | 1    | 0.75 | 1    | 1    | 3400 | 2550  | 3400  | 3400  | 12.75 | 6.37  | 6.92  | 6.37  | 16   | 8    | 9    | 8    | 20   | 15   | 15   | 15   |
|                      |         | 2    | 1.5  | 2    | 2    | 6800 | 5100  | 6800  | 6800  | 21.08 | 9.97  | 11.08 | 9.98  | 27   | 13   | 14   | 13   | 30   | 15   | 15   | 15   |
|                      |         | -    | 2.25 | 3    | 3    | -    | 7650  | 10200 | 10200 | -     | 13.58 | 15.24 | 13.59 | -    | 17   | 20   | 17   | -    | 20   | 20   | 20   |
|                      |         | -    | 3    | 4    | 4    | -    | 10200 | 13600 | 13600 | -     | 17.18 | 19.4  | 17.2  | -    | 22   | 25   | 22   | -    | 25   | 25   | 25   |
| 6RR                  | 600     | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 5.72  | 3.26  | 3.26  | 3.06  | 8    | 5    | 5    | 4    | 15   | 15   | 15   | 15   |
|                      |         | 1    | 1.5  | 2    | 2    | 3400 | 5100  | 6800  | 6800  | 14.05 | 10.47 | 11.58 | 10.28 | 18   | 14   | 15   | 13   | 25   | 15   | 20   | 15   |
|                      |         | 2    | 2.25 | 3    | 3    | 6800 | 7650  | 10200 | 10200 | 22.38 | 14.08 | 15.74 | 13.89 | 28   | 18   | 20   | 18   | 30   | 20   | 20   | 20   |
|                      |         | -    | 3    | 4    | 4    | -    | 10200 | 13600 | 13600 | -     | 17.68 | 19.9  | 17.5  | -    | 23   | 25   | 22   | -    | 25   | 25   | 25   |
|                      |         | -    | 3.75 | 5    | 5    | -    | 12750 | 17000 | 17000 | -     | 21.29 | 24.06 | 21.11 | -    | 27   | 31   | 27   | -    | 30   | 35   | 30   |
|                      |         | -    | 4.5  | 6    | 6    | -    | 15300 | 20400 | 20400 | -     | 24.89 | 28.22 | 24.72 | -    | 32   | 36   | 31   | -    | 35   | 40   | 35   |
| 8RR                  | 800     | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 5.72  | 3.26  | 3.26  | 3.06  | 8    | 5    | 5    | 4    | 15   | 15   | 15   | 15   |
|                      |         | 1    | 1.5  | 2    | 2    | 3400 | 5100  | 6800  | 6800  | 14.05 | 10.47 | 11.58 | 10.28 | 18   | 14   | 15   | 13   | 25   | 15   | 20   | 15   |
|                      |         | 2    | 2.25 | 3    | 3    | 6800 | 7650  | 10200 | 10200 | 22.38 | 14.08 | 15.74 | 13.89 | 28   | 18   | 20   | 18   | 30   | 20   | 20   | 20   |
|                      |         | -    | 3    | 4    | 4    | -    | 10200 | 13600 | 13600 | -     | 17.68 | 19.9  | 17.5  | -    | 23   | 25   | 22   | -    | 25   | 25   | 25   |
|                      |         | -    | 3.75 | 5    | 5    | -    | 12750 | 17000 | 17000 | -     | 21.29 | 24.06 | 21.11 | -    | 27   | 31   | 27   | -    | 30   | 35   | 30   |
|                      |         | -    | 4.5  | 6    | 6    | -    | 15300 | 20400 | 20400 | -     | 24.89 | 28.22 | 24.72 | -    | 32   | 36   | 31   | -    | 35   | 40   | 35   |
|                      |         | -    | 6    | 8    | 8    | -    | 20400 | 27200 | 27200 | -     | 32.11 | 36.54 | 31.94 | -    | 41   | 46   | 40   | -    | 50   | 50   | 40   |
| 10RR                 | 1000    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 7.72  | 4.56  | 4.56  | 4.06  | 10   | 6    | 6    | 6    | 20   | 15   | 15   | 15   |
|                      |         | 1    | 2.25 | 3    | 3    | 3400 | 7650  | 10200 | 10200 | 16.05 | 15.38 | 17.04 | 14.89 | 21   | 20   | 22   | 19   | 30   | 20   | 25   | 20   |
|                      |         | 2    | 3    | 4    | 4    | 6800 | 10200 | 13600 | 13600 | 24.38 | 17.18 | 21.2  | 18.5  | 31   | 22   | 27   | 24   | 35   | 25   | 30   | 25   |
|                      |         | -    | 3.75 | 5    | 5    | -    | 12750 | 17000 | 17000 | -     | 20.79 | 25.36 | 22.11 | -    | 26   | 32   | 28   | -    | 30   | 35   | 30   |
|                      |         | -    | 4.5  | 6    | 6    | -    | 15300 | 20400 | 20400 | -     | 24.39 | 29.52 | 25.72 | -    | 31   | 37   | 33   | -    | 35   | 40   | 35   |
|                      |         | -    | 6    | 8    | 8    | -    | 20400 | 27200 | 27200 | -     | 31.61 | 37.84 | 32.94 | -    | 40   | 48   | 42   | -    | 40   | 50   | 50   |
|                      |         | -    | 7.5  | 10   | 10   | -    | 25500 | 34000 | 34000 | -     | 38.82 | 46.16 | 40.16 | -    | 49   | 58   | 51   | -    | 50   | 60   | 60   |
| 12RR                 | 1200    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 7.72  | 4.56  | 4.56  | 4.06  | 10   | 6    | 6    | 6    | 20   | 15   | 15   | 15   |
|                      |         | 1    | 2.25 | 3    | 3    | 3400 | 7650  | 10200 | 10200 | 16.05 | 15.38 | 17.04 | 14.89 | 21   | 20   | 22   | 19   | 30   | 20   | 25   | 20   |
|                      |         | 2    | 3    | 4    | 4    | 6800 | 10200 | 13600 | 13600 | 24.38 | 18.98 | 21.2  | 18.5  | 31   | 24   | 27   | 24   | 35   | 25   | 30   | 25   |
|                      |         | -    | 3.75 | 5    | 5    | -    | 12750 | 17000 | 17000 | -     | 22.59 | 25.36 | 22.11 | -    | 29   | 32   | 28   | -    | 30   | 35   | 30   |
|                      |         | -    | 4.5  | 6    | 6    | -    | 15300 | 20400 | 20400 | -     | 26.19 | 29.52 | 25.72 | -    | 33   | 37   | 33   | -    | 35   | 40   | 35   |
|                      |         | -    | 6    | 8    | 8    | -    | 20400 | 27200 | 27200 | -     | 33.41 | 37.84 | 32.94 | -    | 42   | 48   | 42   | -    | 50   | 50   | 50   |
|                      |         | -    | 7.5  | 10   | 10   | -    | 25500 | 34000 | 34000 | -     | 40.62 | 46.16 | 40.16 | -    | 51   | 58   | 51   | -    | 60   | 60   | 60   |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### ELECTRIC HEAT DATA (CONT'D)

| ELECTRICAL DATA FOR RISER (NO ELECTRIC HEAT)     |           |        |        |      |        |          |           |          |           |      |        |      |        |     |      |
|--------------------------------------------------|-----------|--------|--------|------|--------|----------|-----------|----------|-----------|------|--------|------|--------|-----|------|
| Voltage                                          | Fan Speed | 3RR    |        |      |        | Voltage  | Fan Speed | 4RR      |           |      |        |      |        |     |      |
|                                                  |           | HP     | AMPS   | MCA  | MOCP   |          |           | HP       | AMPS      | MCA  | MOCP   |      |        |     |      |
|                                                  |           | Blower | Blower |      |        |          |           | Blower   | Blower    |      |        |      |        |     |      |
| 120/1/60                                         | HIGH      | 1/4    | 3.5    | 4.4  | 15     | 120/1/60 | HIGH      | 1/4      | 3.5       | 4.4  | 15     |      |        |     |      |
| 208/1/60                                         | HIGH      | 1/4    | 2.3    | 2.9  | 15     | 208/1/60 | HIGH      | 1/4      | 2.3       | 2.9  | 15     |      |        |     |      |
| 240/1/60                                         | HIGH      | 1/4    | 2.3    | 2.9  | 15     | 240/1/60 | HIGH      | 1/4      | 2.3       | 2.9  | 15     |      |        |     |      |
| 277/1/60                                         | HIGH      | 1/4    | 2.3    | 2.9  | 15     | 277/1/60 | HIGH      | 1/4      | 2.3       | 2.9  | 15     |      |        |     |      |
|                                                  |           |        |        |      |        |          |           |          |           |      |        |      |        |     |      |
| Voltage                                          | Fan Speed | 6RR    |        |      |        | Voltage  | Fan Speed | 8RR      |           |      |        |      |        |     |      |
|                                                  |           | HP     | AMPS   | MCA  | MOCP   |          |           | HP       | AMPS      | MCA  | MOCP   |      |        |     |      |
|                                                  |           | Blower | Blower |      |        |          |           | Blower   | Blower    |      |        |      |        |     |      |
| 120/1/60                                         | HIGH      | 1/3    | 4.8    | 6    | 15     | 120/1/60 | HIGH      | 1/3      | 4.8       | 6    | 15     |      |        |     |      |
| 208/1/60                                         | HIGH      | 1/3    | 2.8    | 3.5  | 15     | 208/1/60 | HIGH      | 1/3      | 2.8       | 3.5  | 15     |      |        |     |      |
| 240/1/60                                         | HIGH      | 1/3    | 2.8    | 3.5  | 15     | 240/1/60 | HIGH      | 1/3      | 2.8       | 3.5  | 15     |      |        |     |      |
| 277/1/60                                         | HIGH      | 1/3    | 2.6    | 3.3  | 15     | 277/1/60 | HIGH      | 1/3      | 2.6       | 3.3  | 15     |      |        |     |      |
|                                                  |           |        |        |      |        |          |           |          |           |      |        |      |        |     |      |
| Voltage                                          | Fan Speed | 10RR   |        |      |        | Voltage  | Fan Speed | 12RR     |           |      |        |      |        |     |      |
|                                                  |           | HP     | AMPS   | MCA  | MOCP   |          |           | HP       | AMPS      | MCA  | MOCP   |      |        |     |      |
|                                                  |           | Blower | Blower |      |        |          |           | Blower   | Blower    |      |        |      |        |     |      |
| 120/1/60                                         | HIGH      | 1/2    | 6.8    | 8.5  | 20     | 120/1/60 | HIGH      | 1/2      | 6.8       | 8.5  | 20     |      |        |     |      |
| 208/1/60                                         | HIGH      | 1/2    | 4.1    | 5.1  | 15     | 208/1/60 | HIGH      | 1/2      | 4.1       | 5.1  | 15     |      |        |     |      |
| 240/1/60                                         | HIGH      | 1/2    | 4.1    | 5.1  | 15     | 240/1/60 | HIGH      | 1/2      | 4.1       | 5.1  | 15     |      |        |     |      |
| 277/1/60                                         | HIGH      | 1/2    | 3.6    | 4.5  | 15     | 277/1/60 | HIGH      | 1/2      | 3.6       | 4.5  | 15     |      |        |     |      |
|                                                  |           |        |        |      |        |          |           |          |           |      |        |      |        |     |      |
| ELECTRICAL DATA FOR ERV RISER (NO ELECTRIC HEAT) |           |        |        |      |        |          |           |          |           |      |        |      |        |     |      |
| Voltage                                          | Fan Speed | 3RR    |        |      |        |          |           | Voltage  | Fan Speed | 4RR  |        |      |        |     |      |
|                                                  |           | HP     |        | Amps |        | MCA      | MOCP      |          |           | HP   |        | Amps |        | MCA | MOCP |
|                                                  |           | ERV    | Blower | ERV  | Blower |          |           |          |           | ERV  | Blower | ERV  | Blower |     |      |
| 120/1/60                                         | HIGH      | 1/30   | 1/4    | 0.92 | 3.5    | 5.3      | 15        | 120/1/60 | HIGH      | 1/30 | 1/4    | 0.92 | 3.5    | 5.3 | 15   |
| 208/1/60                                         | HIGH      | 1/30   | 1/4    | 0.46 | 2.3    | 3.3      | 15        | 208/1/60 | HIGH      | 1/30 | 1/4    | 0.46 | 2.3    | 2.3 | 15   |
| 240/1/60                                         | HIGH      | 1/30   | 1/4    | 0.46 | 2.3    | 3.3      | 15        | 240/1/60 | HIGH      | 1/30 | 1/4    | 0.46 | 2.3    | 2.3 | 15   |
| 277/1/60                                         | HIGH      | 1/30   | 1/4    | 0.46 | 2.3    | 3.3      | 15        | 277/1/60 | HIGH      | 1/30 | 1/4    | 0.46 | 2.3    | 3.3 | 15   |
|                                                  |           |        |        |      |        |          |           |          |           |      |        |      |        |     |      |
| Voltage                                          | Fan Speed | 6RR    |        |      |        |          |           | Voltage  | Fan Speed | 8RR  |        |      |        |     |      |
|                                                  |           | HP     |        | Amps |        | MCA      | MOCP      |          |           | HP   |        | Amps |        | MCA | MOCP |
|                                                  |           | ERV    | Blower | ERV  | Blower |          |           |          |           | ERV  | Blower | ERV  | Blower |     |      |
| 120/1/60                                         | HIGH      | 1/30   | 1/3    | 0.92 | 4.8    | 6.9      | 15        | 120/1/60 | HIGH      | 1/30 | 1/3    | 0.92 | 4.8    | 6.9 | 15   |
| 208/1/60                                         | HIGH      | 1/30   | 1/3    | 0.46 | 2.8    | 4        | 15        | 208/1/60 | HIGH      | 1/30 | 1/3    | 0.46 | 2.8    | 4   | 15   |
| 240/1/60                                         | HIGH      | 1/30   | 1/3    | 0.46 | 2.8    | 4        | 15        | 240/1/60 | HIGH      | 1/30 | 1/3    | 0.46 | 2.8    | 4   | 15   |
| 277/1/60                                         | HIGH      | 1/30   | 1/3    | 0.46 | 2.6    | 3.7      | 15        | 277/1/60 | HIGH      | 1/30 | 1/3    | 0.46 | 2.6    | 3.7 | 15   |
|                                                  |           |        |        |      |        |          |           |          |           |      |        |      |        |     |      |
| Voltage                                          | Fan Speed | 10RR   |        |      |        |          |           | Voltage  | Fan Speed | 12RR |        |      |        |     |      |
|                                                  |           | HP     |        | Amps |        | MCA      | MOCP      |          |           | HP   |        | Amps |        | MCA | MOCP |
|                                                  |           | ERV    | Blower | ERV  | Blower |          |           |          |           | ERV  | Blower | ERV  | Blower |     |      |
| 120/1/60                                         | HIGH      | 1/30   | 1/2    | 0.92 | 6.8    | 9.4      | 20        | 120/1/60 | HIGH      | 1/30 | 1/2    | 0.92 | 6.8    | 9.4 | 20   |
| 208/1/60                                         | HIGH      | 1/30   | 1/2    | 0.46 | 4.1    | 5.6      | 15        | 208/1/60 | HIGH      | 1/30 | 1/2    | 0.46 | 4.1    | 5.6 | 15   |
| 240/1/60                                         | HIGH      | 1/30   | 1/2    | 0.46 | 4.1    | 5.6      | 15        | 240/1/60 | HIGH      | 1/30 | 1/2    | 0.46 | 4.1    | 5.6 | 15   |
| 277/1/60                                         | HIGH      | 1/30   | 1/2    | 0.46 | 3.6    | 5        | 15        | 277/1/60 | HIGH      | 1/30 | 1/2    | 0.46 | 3.6    | 5   | 15   |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### COOLING CAPACITIES

| COOLING CAPACITY (1000 BTUH) (3 ROW AND 3/1) |             |     |                 |                   |      |      |          |      |      |          |      |      |                   |      |      |          |      |      |          |      |      |
|----------------------------------------------|-------------|-----|-----------------|-------------------|------|------|----------|------|------|----------|------|------|-------------------|------|------|----------|------|------|----------|------|------|
| MODEL                                        | NOMINAL CFM | GPM | P.D. (FT. WTR.) | 75°F DB / 63°F WB |      |      |          |      |      |          |      |      | 80°F DB / 67°F WB |      |      |          |      |      |          |      |      |
|                                              |             |     |                 | 40°F EWT          |      |      | 45°F EWT |      |      | 50°F EWT |      |      | 40°F EWT          |      |      | 45°F EWT |      |      | 50°F EWT |      |      |
|                                              |             |     |                 | TH                | SH   | TR   | TH       | SH   | TR   | TH       | SH   | TR   | TH                | SH   | TR   | TH       | SH   | TR   | TH       | SH   | TR   |
| 03                                           | 300         | 1.5 | 2.6             | 10                | 7.7  | 13.2 | 8.2      | 6.9  | 10.9 | 6.5      | 6.1  | 8.6  | 11.9              | 8.5  | 15.8 | 10       | 7.8  | 13.3 | 8.2      | 7    | 10.9 |
|                                              |             | 2.5 | 6.9             | 12                | 8.6  | 9.5  | 9.7      | 7.6  | 7.7  | 7.5      | 6.7  | 6    | 14.5              | 9.6  | 11.5 | 12.2     | 8.6  | 9.7  | 9.8      | 7.7  | 7.8  |
|                                              |             | 3.5 | 13.1            | 13.2              | 9.2  | 7.5  | 10.6     | 8    | 6    | 8.1      | 6.9  | 4.6  | 16                | 10.3 | 9.1  | 13.4     | 9.1  | 7.6  | 10.7     | 8    | 6.1  |
| 04                                           | 400         | 1.5 | 2.6             | 11.3              | 9.3  | 14.9 | 9.4      | 8.5  | 12.4 | 7.6      | 7.4  | 10.1 | 13.4              | 10.3 | 17.7 | 11.3     | 9.4  | 15.1 | 9.4      | 8.6  | 12.5 |
|                                              |             | 2.5 | 6.9             | 13.9              | 10.5 | 11   | 11.4     | 9.4  | 9    | 8.9      | 8.3  | 7.1  | 16.7              | 11.7 | 13.3 | 14       | 10.6 | 11.1 | 11.4     | 9.5  | 9.1  |
|                                              |             | 3.5 | 13.1            | 15.5              | 11.3 | 8.8  | 12.6     | 10   | 7.2  | 9.7      | 8.7  | 5.5  | 18.8              | 12.6 | 10.6 | 15.7     | 11.3 | 8.9  | 12.6     | 10   | 7.2  |
| 06                                           | 600         | 2.5 | 3.3             | 15.1              | 13.1 | 12.1 | 13.2     | 12.3 | 10.5 | 11.5     | 11.5 | 9.3  | 19.8              | 14.9 | 15.8 | 17.2     | 14.0 | 13.8 | 14.6     | 13.0 | 11.7 |
|                                              |             | 3.5 | 6.1             | 17.6              | 14.4 | 10.0 | 15.3     | 13.1 | 8.7  | 13.0     | 12.3 | 7.4  | 23.0              | 16.2 | 13.1 | 20.0     | 15.0 | 11.4 | 17.0     | 13.9 | 9.7  |
|                                              |             | 4.5 | 9.7             | 19.3              | 14.7 | 8.6  | 16.8     | 13.7 | 7.4  | 14.2     | 12.7 | 6.3  | 25.2              | 17.0 | 11.2 | 21.9     | 15.7 | 9.8  | 18.7     | 14.5 | 8.3  |
| 08                                           | 800         | 4.0 | 7.8             | 20.8              | 17.6 | 10.4 | 18.1     | 16.5 | 9.0  | 15.5     | 15.5 | 7.7  | 27.2              | 20.0 | 13.6 | 23.7     | 18.8 | 11.8 | 20.1     | 17.5 | 10.1 |
|                                              |             | 5.0 | 11.8            | 22.7              | 18.3 | 9.1  | 19.7     | 17.1 | 7.9  | 16.8     | 16.0 | 6.7  | 29.7              | 21.0 | 11.9 | 25.8     | 19.5 | 10.3 | 21.9     | 18.1 | 8.8  |
|                                              |             | 6.0 | 16.5            | 24.0              | 18.8 | 8.0  | 20.9     | 17.6 | 7.0  | 17.7     | 16.4 | 5.9  | 31.4              | 21.7 | 10.5 | 27.3     | 20.1 | 9.1  | 23.2     | 18.6 | 7.7  |
| 10                                           | 1000        | 4.0 | 9.7             | 24.2              | 21.2 | 12.1 | 21.0     | 20.0 | 10.5 | 18.9     | 18.9 | 9.4  | 31.6              | 24.2 | 15.8 | 27.5     | 22.7 | 13.8 | 23.4     | 21.2 | 11.7 |
|                                              |             | 5.0 | 14.7            | 26.7              | 22.2 | 10.7 | 23.2     | 20.9 | 9.3  | 19.7     | 19.5 | 7.9  | 34.9              | 25.2 | 14.0 | 30.4     | 23.8 | 12.2 | 25.8     | 22.1 | 10.3 |
|                                              |             | 6.0 | 20.6            | 28.5              | 23.0 | 9.5  | 24.8     | 21.5 | 8.3  | 21.1     | 20.1 | 7.0  | 37.4              | 26.4 | 12.5 | 32.5     | 24.5 | 10.8 | 27.6     | 22.7 | 9.2  |
| 12                                           | 1200        | 4.0 | 9.7             | 26.2              | 24.3 | 13.1 | 23.1     | 23.1 | 11.5 | 21.8     | 21.8 | 10.9 | 34.3              | 27.6 | 17.2 | 29.8     | 25.9 | 14.9 | 25.4     | 24.4 | 12.7 |
|                                              |             | 5.0 | 14.7            | 29.3              | 25.5 | 11.7 | 25.5     | 24.1 | 10.2 | 22.6     | 22.6 | 9.1  | 38.4              | 29.1 | 15.4 | 33.4     | 27.3 | 13.4 | 28.4     | 25.4 | 11.4 |
|                                              |             | 6.0 | 20.6            | 31.6              | 26.4 | 10.6 | 27.5     | 24.8 | 9.2  | 23.4     | 23.2 | 7.8  | 41.4              | 30.3 | 13.8 | 36.0     | 28.2 | 12.0 | 30.6     | 26.2 | 10.0 |

| COOLING CAPACITY (1000 BTUH) (4 ROW) |             |     |                 |                   |      |      |          |      |      |          |      |      |                   |      |      |          |      |      |          |      |      |
|--------------------------------------|-------------|-----|-----------------|-------------------|------|------|----------|------|------|----------|------|------|-------------------|------|------|----------|------|------|----------|------|------|
| MODEL                                | NOMINAL CFM | GPM | P.D. (FT. WTR.) | 75°F DB / 63°F WB |      |      |          |      |      |          |      |      | 80°F DB / 67°F WB |      |      |          |      |      |          |      |      |
|                                      |             |     |                 | 40°F EWT          |      |      | 45°F EWT |      |      | 50°F EWT |      |      | 40°F EWT          |      |      | 45°F EWT |      |      | 50°F EWT |      |      |
|                                      |             |     |                 | TH                | SH   | TR   | TH       | SH   | TR   | TH       | SH   | TR   | TH                | SH   | TR   | TH       | SH   | TR   | TH       | SH   | TR   |
| 03                                   | 300         | 1.5 | 2.1             | 9.3               | 7.3  | 12.5 | 8.2      | 6.9  | 10.9 | 6.9      | 6.4  | 9.2  | 12.2              | 8.4  | 16.4 | 10.7     | 7.9  | 14.2 | 9.1      | 7.3  | 12.1 |
|                                      |             | 2.5 | 5.6             | 11.3              | 8.1  | 9.1  | 9.9      | 7.6  | 7.9  | 8.4      | 7.0  | 6.7  | 14.9              | 9.5  | 11.9 | 13.0     | 8.7  | 10.4 | 11.0     | 8.0  | 8.8  |
|                                      |             | 3.5 | 10.8            | 12.5              | 8.6  | 7.2  | 10.9     | 8.0  | 6.2  | 9.3      | 7.2  | 5.3  | 16.4              | 10.1 | 9.4  | 14.3     | 9.3  | 8.2  | 12.1     | 8.4  | 6.9  |
| 04                                   | 400         | 1.5 | 2.1             | 10.4              | 8.9  | 13.8 | 9.1      | 8.4  | 12.0 | 7.9      | 7.9  | 10.5 | 13.6              | 10.2 | 18.1 | 11.8     | 9.5  | 15.7 | 10.1     | 8.9  | 13.4 |
|                                      |             | 2.5 | 5.6             | 13.1              | 10.0 | 10.5 | 11.4     | 9.3  | 9.1  | 9.7      | 8.7  | 7.7  | 17.1              | 11.6 | 13.7 | 14.9     | 10.7 | 11.9 | 12.7     | 9.9  | 10.1 |
|                                      |             | 3.5 | 10.8            | 14.7              | 10.7 | 8.4  | 12.7     | 10.0 | 7.3  | 10.8     | 9.1  | 6.2  | 19.2              | 12.4 | 11.0 | 16.7     | 11.4 | 9.5  | 14.2     | 10.4 | 8.1  |
| 06                                   | 600         | 2.5 | 3.6             | 16.8              | 13.9 | 13.4 | 14.6     | 13.0 | 11.7 | 12.4     | 12.2 | 9.9  | 22.0              | 15.9 | 17.6 | 19.1     | 14.8 | 15.3 | 16.3     | 13.8 | 13.0 |
|                                      |             | 3.5 | 6.8             | 19.5              | 15.0 | 11.2 | 17.0     | 14.0 | 9.7  | 14.4     | 13.0 | 8.3  | 25.6              | 17.3 | 14.6 | 22.2     | 16.0 | 12.7 | 18.9     | 14.7 | 10.8 |
|                                      |             | 4.5 | 10.8            | 21.4              | 15.8 | 9.5  | 18.6     | 14.6 | 8.3  | 15.8     | 13.5 | 7.0  | 28.1              | 18.3 | 12.5 | 24.4     | 16.9 | 10.8 | 20.7     | 15.4 | 9.2  |
| 08                                   | 800         | 3.0 | 5.1             | 20.6              | 17.8 | 13.7 | 17.9     | 16.8 | 12.0 | 15.7     | 15.7 | 10.5 | 27.0              | 20.3 | 18.0 | 23.5     | 19.0 | 15.7 | 20.0     | 17.7 | 13.3 |
|                                      |             | 4.5 | 10.8            | 24.7              | 19.4 | 11.0 | 21.5     | 18.2 | 9.6  | 18.3     | 16.9 | 8.1  | 32.4              | 22.4 | 14.4 | 28.2     | 20.8 | 12.5 | 23.9     | 19.2 | 10.6 |
|                                      |             | 6.0 | 18.4            | 27.2              | 20.4 | 9.1  | 23.7     | 19.0 | 7.9  | 20.1     | 17.6 | 6.7  | 35.7              | 23.7 | 11.9 | 31.0     | 21.9 | 10.3 | 26.4     | 20.0 | 8.8  |
| 10                                   | 1000        | 4.0 | 7.9             | 26.7              | 22.6 | 13.3 | 23.2     | 21.2 | 11.6 | 19.9     | 19.9 | 10.0 | 34.9              | 25.8 | 17.5 | 30.4     | 24.1 | 15.2 | 25.8     | 22.5 | 12.9 |
|                                      |             | 5.5 | 14.0            | 30.7              | 24.2 | 11.2 | 26.7     | 22.6 | 9.7  | 22.7     | 21.1 | 8.3  | 40.2              | 27.9 | 14.6 | 25.0     | 25.9 | 12.7 | 29.7     | 23.9 | 10.8 |
|                                      |             | 7.0 | 21.6            | 33.5              | 25.3 | 9.6  | 29.1     | 23.6 | 8.3  | 24.7     | 21.9 | 7.1  | 4.8               | 29.3 | 12.5 | 38.1     | 27.1 | 10.9 | 32.4     | 25.0 | 9.3  |
| 12                                   | 1200        | 4.5 | 9.7             | 29.7              | 26.2 | 13.2 | 25.9     | 24.7 | 11.5 | 23.2     | 23.2 | 10.3 | 38.9              | 29.9 | 17.3 | 33.9     | 28.0 | 15.1 | 28.8     | 26.1 | 12.8 |
|                                      |             | 5.5 | 14.0            | 32.8              | 27.4 | 11.9 | 28.5     | 25.7 | 10.4 | 24.2     | 24.0 | 8.8  | 42.8              | 31.4 | 15.6 | 37.3     | 29.3 | 13.6 | 31.7     | 27.2 | 11.5 |
|                                      |             | 6.5 | 18.9            | 35.1              | 28.3 | 10.8 | 30.5     | 26.5 | 9.4  | 25.9     | 24.7 | 8.0  | 45.9              | 32.5 | 14.1 | 40.0     | 30.3 | 12.3 | 34.0     | 28.0 | 10.5 |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### COOLING CAPACITIES (CONT'D)

| COOLING CAPACITY (1000 BTUH) (3 ROW AND 3/2) |             |     |                 |                   |      |      |          |      |      |          |      |      |                   |      |      |          |      |      |          |      |      |
|----------------------------------------------|-------------|-----|-----------------|-------------------|------|------|----------|------|------|----------|------|------|-------------------|------|------|----------|------|------|----------|------|------|
| MODEL                                        | NOMINAL CFM | GPM | P.D. (FT. WTR.) | 75°F DB / 63°F WB |      |      |          |      |      |          |      |      | 80°F DB / 67°F WB |      |      |          |      |      |          |      |      |
|                                              |             |     |                 | 40°F EWT          |      |      | 45°F EWT |      |      | 50°F EWT |      |      | 40°F EWT          |      |      | 45°F EWT |      |      | 50°F EWT |      |      |
|                                              |             |     |                 | TH                | SH   | TR   | TH       | SH   | TR   | TH       | SH   | TR   | TH                | SH   | TR   | TH       | SH   | TR   | TH       | SH   | TR   |
| 03                                           | 300         | 1.5 | 2.6             | 9.6               | 7.5  | 12.8 | 7.9      | 6.7  | 10.5 | 6.3      | 5.9  | 8.3  | 11.5              | 8.3  | 15.3 | 9.7      | 7.6  | 12.9 | 7.9      | 6.8  | 10.5 |
|                                              |             | 2.5 | 7               | 11.6              | 8.4  | 9.2  | 9.4      | 7.4  | 7.4  | 7.2      | 6.5  | 5.7  | 14                | 9.4  | 11.1 | 11.7     | 8.4  | 9.3  | 9.4      | 7.4  | 7.5  |
|                                              |             | 3.5 | 13.3            | 12.7              | 8.9  | 7.2  | 10.2     | 7.8  | 5.8  | 7.8      | 6.7  | 4.4  | 15.5              | 10   | 8.8  | 12.9     | 8.9  | 7.3  | 10.3     | 7.8  | 5.9  |
| 04                                           | 400         | 1.5 | 2.7             | 10.9              | 9.1  | 14.4 | 9        | 8.2  | 12   | 7.3      | 7.2  | 9.7  | 12.9              | 10   | 17.1 | 11       | 9.2  | 14.5 | 9.1      | 8.3  | 12.1 |
|                                              |             | 2.5 | 7               | 13.4              | 10.2 | 10.6 | 10.9     | 9.1  | 8.7  | 8.5      | 8    | 6.8  | 16.1              | 11.3 | 12.8 | 13.5     | 10.3 | 10.7 | 10.9     | 9.2  | 8.7  |
|                                              |             | 3.5 | 13.3            | 14.9              | 10.9 | 8.5  | 12.1     | 9.6  | 6.9  | 9.3      | 8.4  | 5.3  | 18.1              | 12.2 | 10.2 | 15.1     | 10.9 | 8.6  | 12.1     | 9.7  | 6.9  |
| 06                                           | 600         | 2.5 | 3.3             | 14.5              | 12.3 | 11.6 | 12.6     | 11.6 | 10.1 | 10.9     | 10.9 | 8.7  | 18.9              | 14.1 | 15.1 | 16.5     | 13.2 | 13.2 | 14.0     | 12.3 | 11.2 |
|                                              |             | 3.5 | 6.1             | 16.8              | 13.3 | 9.6  | 14.6     | 12.4 | 8.4  | 12.4     | 11.6 | 7.1  | 22.0              | 15.2 | 12.6 | 19.2     | 14.2 | 10.9 | 16.3     | 13.1 | 9.3  |
|                                              |             | 4.5 | 9.7             | 18.4              | 13.9 | 8.2  | 16.0     | 13.0 | 7.1  | 13.6     | 12.0 | 6.1  | 24.2              | 16.1 | 10.7 | 21.0     | 14.9 | 9.3  | 17.9     | 13.7 | 7.9  |
| 08                                           | 800         | 4.0 | 7.8             | 19.7              | 16.4 | 9.8  | 17.1     | 15.4 | 8.6  | 14.5     | 14.5 | 7.3  | 25.7              | 18.7 | 12.9 | 23.7     | 17.0 | 11.9 | 19.0     | 16.2 | 9.5  |
|                                              |             | 5.0 | 11.8            | 21.4              | 17.1 | 8.6  | 18.6     | 16.0 | 7.5  | 15.8     | 14.9 | 6.3  | 28.1              | 19.6 | 11.2 | 25.9     | 17.8 | 10.4 | 20.7     | 16.8 | 8.3  |
|                                              |             | 6.0 | 16.5            | 22.7              | 17.6 | 7.6  | 19.7     | 16.4 | 6.6  | 16.8     | 15.2 | 5.6  | 29.7              | 20.2 | 9.9  | 27.4     | 18.3 | 9.1  | 21.9     | 17.3 | 7.3  |
| 10                                           | 1000        | 4.0 | 9.7             | 22.9              | 19.9 | 11.4 | 19.9     | 18.7 | 9.9  | 17.6     | 17.6 | 8.8  | 30.0              | 22.6 | 15.0 | 26.1     | 21.2 | 13.0 | 22.1     | 19.8 | 11.1 |
|                                              |             | 5.0 | 14.7            | 25.3              | 20.8 | 10.1 | 22.0     | 19.5 | 8.8  | 18.7     | 18.2 | 7.5  | 33.1              | 23.8 | 13.2 | 28.8     | 22.2 | 11.5 | 24.5     | 20.6 | 9.8  |
|                                              |             | 6.0 | 20.6            | 27.0              | 21.5 | 9.0  | 23.5     | 20.1 | 7.8  | 20.0     | 18.7 | 6.7  | 35.4              | 24.7 | 11.8 | 30.8     | 22.9 | 10.3 | 26.1     | 21.2 | 8.7  |
| 12                                           | 1200        | 4.0 | 9.7             | 24.7              | 22.5 | 12.3 | 21.5     | 21.3 | 1.7  | 20.1     | 20.1 | 10.1 | 32.3              | 25.5 | 16.2 | 28.1     | 24.0 | 14.1 | 23.9     | 22.5 | 11.9 |
|                                              |             | 5.0 | 14.7            | 27.7              | 23.7 | 11.1 | 24.1     | 22.3 | 9.6  | 20.9     | 20.9 | 8.4  | 36.2              | 26.9 | 14.5 | 31.5     | 25.2 | 12.6 | 26.8     | 23.5 | 10.7 |
|                                              |             | 6.0 | 20.6            | 29.8              | 24.5 | 9.9  | 25.9     | 23.0 | 8.6  | 22.1     | 21.5 | 7.4  | 39.1              | 28.0 | 13.0 | 34.0     | 26.1 | 11.3 | 28.9     | 24.2 | 9.6  |



# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### HEATING CAPACITIES – (3 ROW ) (3/1 ROW)

| HEATING CAPACITY (1000 BTUH) (3 ROW) |                |     |                    |                            |       |       |       |
|--------------------------------------|----------------|-----|--------------------|----------------------------|-------|-------|-------|
| MODEL                                | NOMINAL<br>CFM | GPM | P.D.<br>(FT. WTR.) | ENTERING WATER TEMPERATURE |       |       |       |
|                                      |                |     |                    | 180°F                      | 160°F | 140°F | 120°F |
| 03                                   | 300            | 1.0 | 1.1                | 25.5                       | 20.8  | 16.2  | 11.5  |
|                                      |                | 1.5 | 3.9                | 30.8                       | 25.2  | 19.5  | 13.9  |
|                                      |                | 2.0 | 8.4                | 32.6                       | 26.7  | 20.7  | 14.7  |
| 04                                   | 400            | 1.0 | 1.1                | 29.4                       | 24    | 18.6  | 13.2  |
|                                      |                | 2.0 | 3.9                | 37.6                       | 30.7  | 23.8  | 16.9  |
|                                      |                | 3.0 | 8.4                | 40.7                       | 33.3  | 25.8  | 18.4  |
| 06                                   | 600            | 3.0 | 4.6                | 56.3                       | 46.1  | 35.8  | 25.6  |
|                                      |                | 4.0 | 7.8                | 58.8                       | 48.1  | 37.4  | 26.7  |
|                                      |                | 5.0 | 11.8               | 60.5                       | 49.5  | 38.5  | 27.5  |
| 08                                   | 800            | 4.0 | 7.8                | 72.0                       | 58.9  | 45.8  | 32.7  |
|                                      |                | 5.0 | 11.8               | 74.4                       | 60.9  | 47.4  | 33.8  |
|                                      |                | 6.0 | 16.5               | 76.2                       | 62.3  | 48.5  | 34.6  |
| 10                                   | 1000           | 4.0 | 9.7                | 88.9                       | 72.7  | 56.8  | 40.4  |
|                                      |                | 5.0 | 14.7               | 92.3                       | 75.5  | 58.7  | 42.0  |
|                                      |                | 6.0 | 20.6               | 94.7                       | 77.5  | 60.3  | 43.1  |
| 12                                   | 1200           | 4.0 | 9.7                | 100.2                      | 82.0  | 63.7  | 45.6  |
|                                      |                | 5.0 | 14.7               | 104.5                      | 85.5  | 66.5  | 47.5  |
|                                      |                | 6.0 | 20.6               | 107.6                      | 88.0  | 68.4  | 48.9  |

| HEATING CAPACITY (1000 BTUH) (3/1 ROW) |                |     |                    |                            |       |       |       |
|----------------------------------------|----------------|-----|--------------------|----------------------------|-------|-------|-------|
| MODEL                                  | NOMINAL<br>CFM | GPM | P.D.<br>(FT. WTR.) | ENTERING WATER TEMPERATURE |       |       |       |
|                                        |                |     |                    | 180°F                      | 160°F | 140°F | 120°F |
| 03                                     | 300            | 1.0 | 1.4                | 17.7                       | 14.5  | 11.2  | 8.0   |
|                                        |                | 2.0 | 5.2                | 19.8                       | 16.2  | 12.6  | 9.0   |
|                                        |                | 3.0 | 11.1               | 20.5                       | 16.8  | 13.1  | 9.3   |
| 04                                     | 400            | 1.0 | 1.4                | 19.1                       | 15.7  | 12.2  | 8.7   |
|                                        |                | 2.0 | 5.2                | 21.9                       | 17.9  | 13.9  | 9.9   |
|                                        |                | 3.0 | 11.1               | 22.9                       | 18.7  | 14.6  | 10.4  |
| 06                                     | 600            | 1.0 | 2.1                | 26.4                       | 21.6  | 16.8  | 12.0  |
|                                        |                | 2.0 | 7.3                | 31.4                       | 25.7  | 20.0  | 14.3  |
|                                        |                | 3.0 | 15.2               | 33.2                       | 27.2  | 21.2  | 15.1  |
| 08                                     | 800            | 1.0 | 2.1                | 28.2                       | 23.1  | 18.0  | 12.8  |
|                                        |                | 2.0 | 7.3                | 34.5                       | 28.2  | 21.9  | 15.7  |
|                                        |                | 3.0 | 15.2               | 37.0                       | 30.3  | 23.6  | 16.8  |
| 10                                     | 1000           | 1.0 | 1.1                | 34.0                       | 27.8  | 21.7  | 15.5  |
|                                        |                | 2.0 | 5.4                | 42.3                       | 34.6  | 26.9  | 19.2  |
|                                        |                | 3.0 | 13.8               | 46.0                       | 37.7  | 29.3  | 20.9  |
| 12                                     | 1200           | 1.5 | 2.8                | 40.8                       | 33.4  | 26.0  | 18.5  |
|                                        |                | 2.5 | 9.1                | 47.3                       | 38.7  | 30.1  | 21.5  |
|                                        |                | 3.4 | 19.6               | 50.4                       | 41.2  | 32.1  | 22.9  |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### HEATING CAPACITIES – (4 ROW ) (4/1 ROW)

| HEATING CAPACITY (1000 BTUH) (4 ROW) |             |     |                 |                            |       |       |       |
|--------------------------------------|-------------|-----|-----------------|----------------------------|-------|-------|-------|
| MODEL                                | NOMINAL CFM | GPM | P.D. (FT. WTR.) | ENTERING WATER TEMPERATURE |       |       |       |
|                                      |             |     |                 | 180°F                      | 160°F | 140°F | 120°F |
| 03                                   | 300         | 2.0 | 3.6             | 32.0                       | 26.2  | 20.4  | 14.5  |
|                                      |             | 3.0 | 8.0             | 33.7                       | 27.6  | 21.4  | 15.3  |
|                                      |             | 4.0 | 17.3            | 34.7                       | 28.6  | 22.1  | 15.8  |
| 04                                   | 400         | 2.0 | 3.6             | 40.4                       | 33.0  | 25.7  | 18.3  |
|                                      |             | 3.0 | 8.0             | 42.8                       | 35.0  | 27.2  | 19.5  |
|                                      |             | 4.0 | 14.0            | 44.2                       | 36.2  | 28.2  | 20.1  |
| 06                                   | 600         | 3.0 | 5.1             | 60.5                       | 49.5  | 38.5  | 27.5  |
|                                      |             | 4.0 | 8.7             | 63.2                       | 51.7  | 40.2  | 28.7  |
|                                      |             | 5.0 | 13.1            | 65.0                       | 53.2  | 41.4  | 29.6  |
| 08                                   | 800         | 4.0 | 8.7             | 79.2                       | 64.8  | 50.4  | 36.0  |
|                                      |             | 5.0 | 13.1            | 81.8                       | 67.0  | 52.1  | 37.2  |
|                                      |             | 6.0 | 18.4            | 83.7                       | 68.5  | 53.3  | 38.1  |
| 10                                   | 1000        | 4.0 | 7.9             | 95.5                       | 78.1  | 60.8  | 43.4  |
|                                      |             | 5.0 | 11.8            | 99.2                       | 81.2  | 63.1  | 45.1  |
|                                      |             | 6.0 | 16.4            | 102.0                      | 83.5  | 64.9  | 46.4  |
| 12                                   | 1200        | 4.0 | 7.9             | 108.8                      | 89.1  | 69.3  | 49.5  |
|                                      |             | 5.0 | 11.8            | 113.6                      | 92.9  | 72.3  | 51.6  |
|                                      |             | 6.0 | 16.4            | 117.1                      | 95.8  | 74.5  | 53.2  |

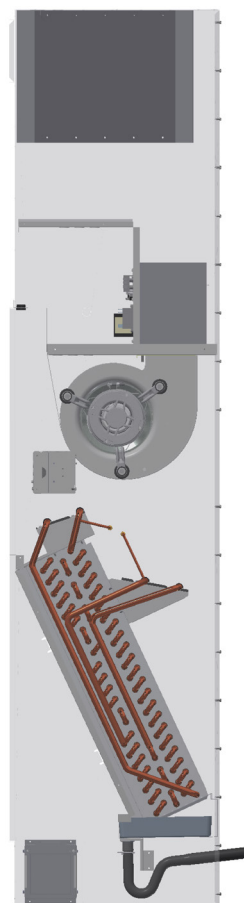
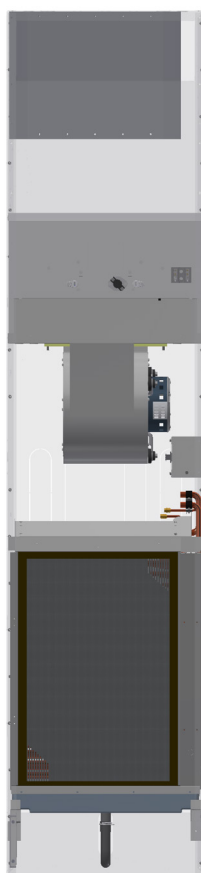
| HEATING CAPACITY (1000 BTUH) (4/1 ROW) |             |     |                 |                            |       |       |       |
|----------------------------------------|-------------|-----|-----------------|----------------------------|-------|-------|-------|
| MODEL                                  | NOMINAL CFM | GPM | P.D. (FT. WTR.) | ENTERING WATER TEMPERATURE |       |       |       |
|                                        |             |     |                 | 180°F                      | 160°F | 140°F | 120°F |
| 03                                     | 300         | 1.0 | 1.4             | 16.0                       | 13.1  | 10.2  | 7.3   |
|                                        |             | 2.0 | 5.2             | 17.9                       | 14.6  | 11.4  | 8.1   |
|                                        |             | 3.0 | 11.1            | 18.5                       | 15.2  | 11.8  | 8.4   |
| 04                                     | 400         | 1.0 | 1.4             | 17.3                       | 14.2  | 11.0  | 7.9   |
|                                        |             | 2.0 | 5.2             | 19.8                       | 16.2  | 12.6  | 9.0   |
|                                        |             | 3.0 | 11.1            | 20.7                       | 16.9  | 13.2  | 9.4   |
| 06                                     | 600         | 1.0 | 2.1             | 23.9                       | 19.6  | 15.2  | 10.9  |
|                                        |             | 2.0 | 7.3             | 28.4                       | 23.2  | 18.1  | 12.9  |
|                                        |             | 3.0 | 15.2            | 30.1                       | 24.6  | 19.2  | 13.7  |
| 08                                     | 800         | 1.0 | 2.1             | 25.6                       | 20.9  | 16.3  | 11.6  |
|                                        |             | 2.0 | 7.3             | 31.3                       | 25.6  | 19.9  | 14.2  |
|                                        |             | 3.0 | 15.2            | 33.6                       | 27.5  | 21.4  | 15.3  |
| 10                                     | 1000        | 1.0 | 1.1             | 30.9                       | 25.2  | 19.6  | 14.0  |
|                                        |             | 2.0 | 5.4             | 38.4                       | 31.4  | 24.4  | 17.4  |
|                                        |             | 3.0 | 13.8            | 41.7                       | 34.2  | 26.6  | 19.0  |
| 12                                     | 1200        | 1.5 | 2.8             | 37.0                       | 30.3  | 23.6  | 16.8  |
|                                        |             | 2.5 | 9.1             | 42.9                       | 35.1  | 27.3  | 19.5  |
|                                        |             | 3.5 | 19.6            | 45.7                       | 37.4  | 29.1  | 20.8  |

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### HEATING CAPACITIES – (3/2 ROW)

| HEATING CAPACITY (1000 BTUH) (3/2 ROW) |             |     |                    |                            |       |       |       |
|----------------------------------------|-------------|-----|--------------------|----------------------------|-------|-------|-------|
| MODEL                                  | NOMINAL CFM | GPM | P.D.<br>(FT. WTR.) | ENTERING WATER TEMPERATURE |       |       |       |
|                                        |             |     |                    | 180°F                      | 160°F | 140°F | 120°F |
| 03                                     | 300         | 1.0 | 0.8                | 21.9                       | 17.8  | 13.8  | 9.8   |
|                                        |             | 1.5 | 3.1                | 26.1                       | 21.3  | 16.5  | 11.7  |
|                                        |             | 2.0 | 6.7                | 27.8                       | 22.7  | 17.6  | 12.5  |
| 04                                     | 400         | 1.0 | 0.8                | 25.2                       | 20.5  | 15.8  | 11.2  |
|                                        |             | 2.0 | 3.1                | 31.3                       | 25.5  | 19.7  | 14    |
|                                        |             | 3.0 | 6.7                | 33.9                       | 27.6  | 21.4  | 15.2  |
| 06                                     | 600         | 1.0 | 0.7                | 27                         | 21.9  | 16.9  | 11.9  |
|                                        |             | 2.0 | 2.6                | 35.5                       | 28.8  | 22.2  | 15.7  |
|                                        |             | 3.0 | 5.6                | 39.5                       | 32.1  | 24.8  | 17.5  |
| 08                                     | 800         | 1.0 | 0.7                | 29.3                       | 23.7  | 18.3  | 12.9  |
|                                        |             | 2.0 | 2.6                | 39.8                       | 32.3  | 24.9  | 17.5  |
|                                        |             | 3.0 | 5.6                | 45.1                       | 36.6  | 28.2  | 19.9  |
| 10                                     | 1000        | 3.0 | 5.8                | 66.6                       | 54.5  | 42.4  | 30.3  |
|                                        |             | 4.0 | 10.3               | 70.4                       | 57.6  | 44.8  | 32.0  |
|                                        |             | 5.0 | 15.9               | 72.6                       | 59.4  | 46.2  | 33.0  |
| 12                                     | 1200        | 3.0 | 5.8                | 73.7                       | 60.3  | 46.9  | 33.5  |
|                                        |             | 4.0 | 10.3               | 78.3                       | 64.1  | 49.8  | 35.6  |
|                                        |             | 5.0 | 15.9               | 81.2                       | 66.4  | 51.7  | 36.9  |



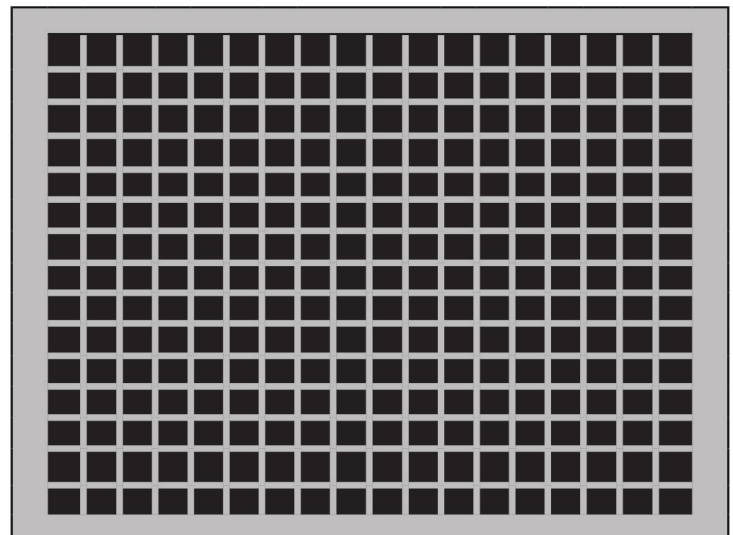
# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### SUPPLY AIR LOUVERS

| RR – LOUVERS         |             |                                                    |                     |                     |                                                    |                     |                     |                           |                     |
|----------------------|-------------|----------------------------------------------------|---------------------|---------------------|----------------------------------------------------|---------------------|---------------------|---------------------------|---------------------|
| STANDARD 88" CABINET |             | LOUVER SIZES AVAILABLE WITH SINGLE DISCHARGE UNITS |                     |                     | LOUVER SIZES AVAILABLE WITH DOUBLE DISCHARGE UNITS |                     |                     | TOP SINGLE SUPPLY OPENING |                     |
| RR Series            |             |                                                    |                     |                     |                                                    |                     |                     |                           |                     |
| UNIT SIZE            | NOMINAL CFM | QTY                                                | NOMINAL Louver SIZE | CORE AREA (SG. FT.) | QTY                                                | NOMINAL Louver SIZE | CORE AREA (SQ. FT.) | QTY                       | NOMINAL Louver SIZE |
| 3                    | 300         | 1                                                  | 14 X 8              | 0.65                | 2                                                  | 14 X 6              | 1                   | 1                         | 14 X 10             |
| 4                    | 400         | 1                                                  | 14 X 12             | 1                   | 2                                                  | 14 X 6              | 1                   | 1                         | 14 X 10             |
| 6                    | 600         | 1                                                  | 18 X 10             | 1.13                | 2                                                  | 18 X 6              | 1.3                 | 1                         | 16 X 12             |
| 8                    | 800         | 1                                                  | 18 X 12             | 1.37                | 2                                                  | 18 X 6              | 1.3                 | 1                         | 16 X 12             |
| 10                   | 1000        | 1                                                  | 18 X 16             | 1.85                | 2                                                  | 22 X 8              | 2.2                 | 1                         | 18 X 16             |
| 12                   | 1200        | 1                                                  | 18 X 16             | 1.85                | 2                                                  | 22 X 8              | 2.2                 | 1                         | 18 X 16             |

- Standard louver is a double deflection type with streamlined shaped roll-formed blades on 3/4" centers. 1 1/4" wide face border with a 1" overlap margin standard, furnished with countersunk screw holes. Rigid, roll-formed frames with reinforced mitered corners.
- Vertical and horizontal blades are friction pivoted and easily adjusted to provide desired spread or deflection.
- Blades maintain adjustable deflection setting during all conditions to velocity and pressure



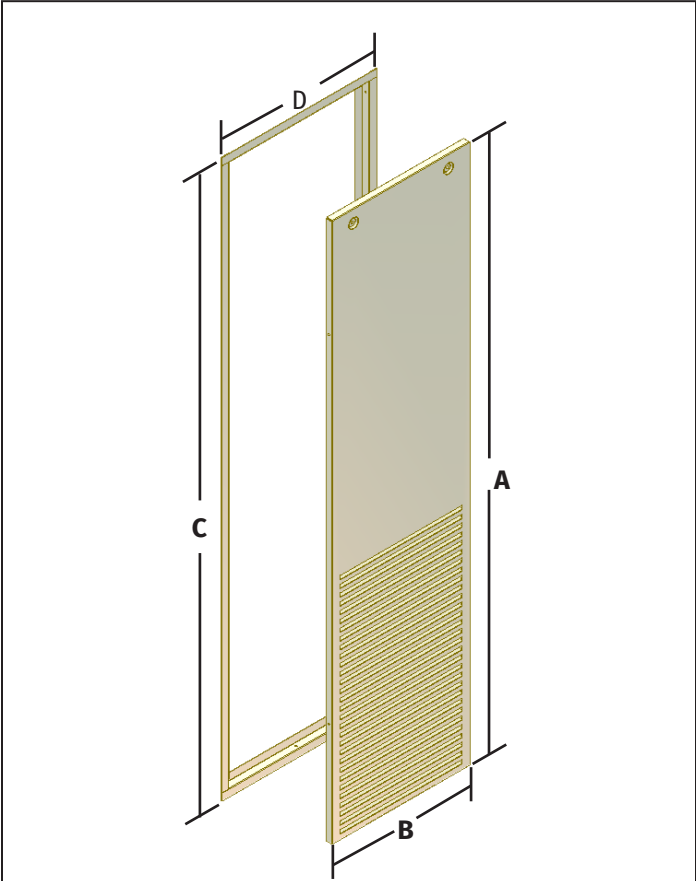
Standard louver finish is an appliance white baked enamel.



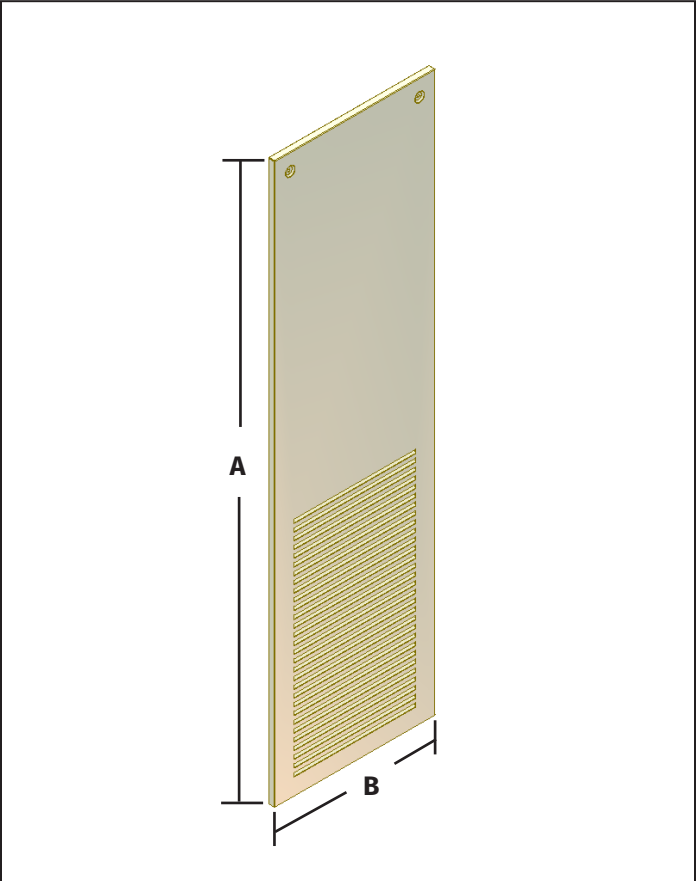
# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### ACCESS PANEL / RETURN LOUVER



| FLUSH MOUNT DIMENSIONS |             |      |      |      |      |
|------------------------|-------------|------|------|------|------|
| UNIT MODEL             | PART NUMBER | A    | B    | C    | D    |
| 03/04                  | 9PWRF01     | 53.4 | 13.6 | 55.0 | 15.2 |
| 06/08                  | 9PWRF02     | 53.4 | 17.6 | 55.0 | 19.2 |
| 10/12                  | 9PWRF03     | 53.4 | 21.6 | 55.0 | 23.2 |



| SURFACE MOUNT DIMENSIONS |             |      |      |
|--------------------------|-------------|------|------|
| UNIT MODEL               | PART NUMBER | A    | B    |
| 03/04                    | 9PWRS01     | 55.5 | 15.8 |
| 06/08                    | 9PWRS02     | 55.5 | 19.8 |
| 10/12                    | 9PWRS03     | 55.5 | 23.8 |

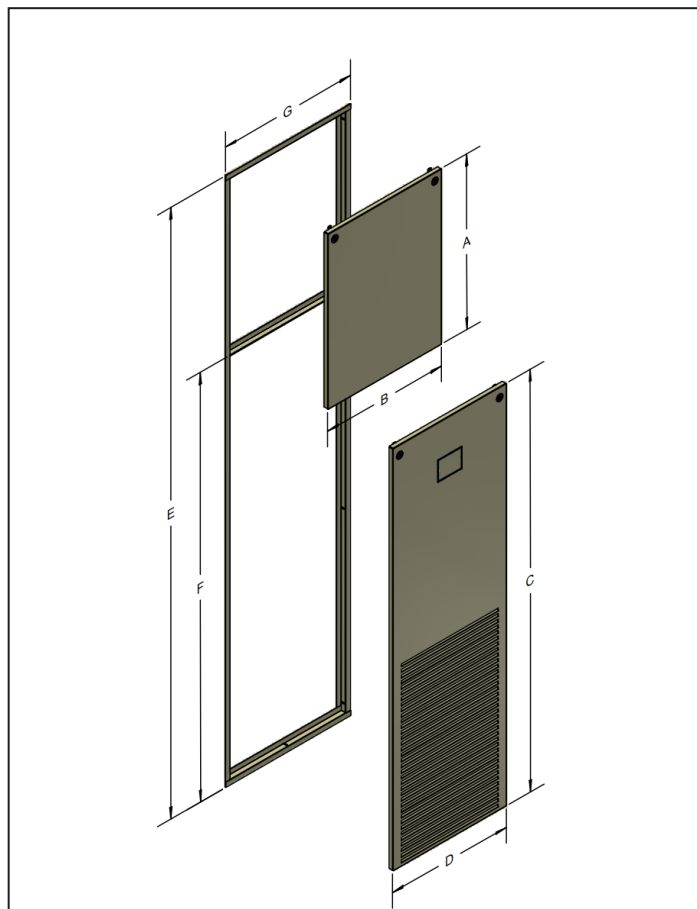
### ACCESS PANEL SPECIFICATION

- Optional panels include flush mount or frame type
- Constructed from 18 gauge galvanized steel and coated with white epoxy powder finish
- Panel is insulated with 1/2" heavy density fiberglass insulation
- Panel mounted with tamper-proof fasteners
- Integral stamped steel return air louvers
- Panel provides access to all internal components
- Framed panels require field installation of frame

# RR SERIES

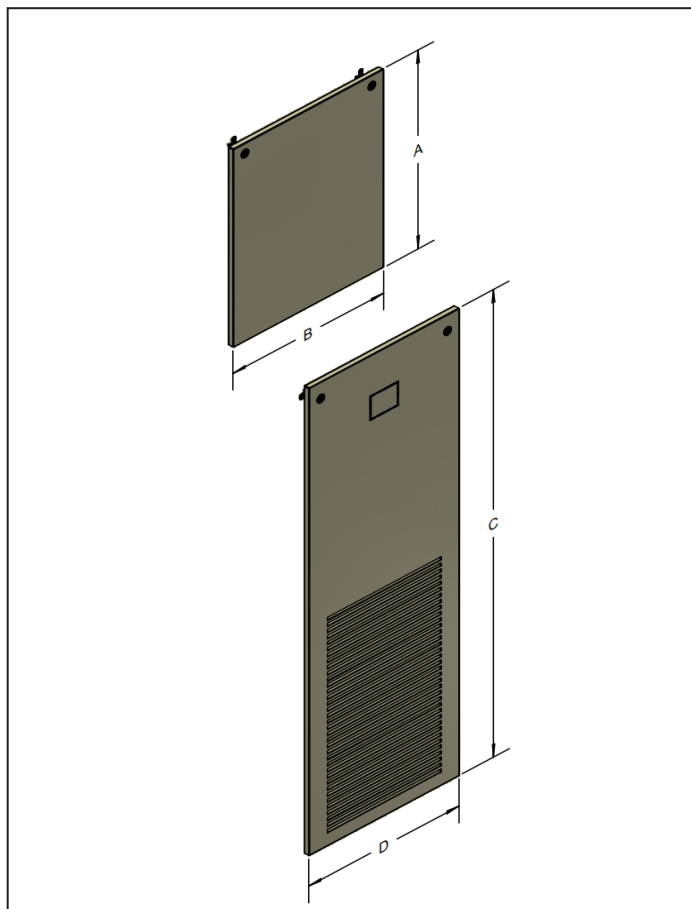
## VERTICAL HIGH RISE FAN COILS

### ACCESS PANEL / RETURN LOUVER FOR ERV



**FLUSH MOUNT DIMENSIONS**

| UNIT MODEL | PART NUMBER | A    | B    | C    | D    | E    | F    | G    |
|------------|-------------|------|------|------|------|------|------|------|
| 03/04      | 9PFWREF01   | 23.5 | 17.5 | 56.5 | 17.5 | 81.9 | 57.5 | 19.3 |
| 06/08      | 9PFWREF02   | 23.5 | 17.5 | 56.5 | 17.5 | 81.9 | 57.5 | 19.3 |
| 10/12      | 9PFWREF03   | 23.5 | 21.5 | 56.5 | 21.5 | 81.9 | 57.5 | 23.3 |



**SURFACE MOUNT DIMENSIONS**

| UNIT MODEL | PART NUMBER | A    | B    | C    | D    |
|------------|-------------|------|------|------|------|
| 03/04      | 9PFWRES01   | 24.6 | 19.9 | 57.8 | 19.9 |
| 06/08      | 9PFWRES01   | 24.6 | 19.9 | 57.8 | 19.9 |
| 10/12      | 9PFWRES13   | 24.6 | 23.9 | 57.8 | 23.9 |

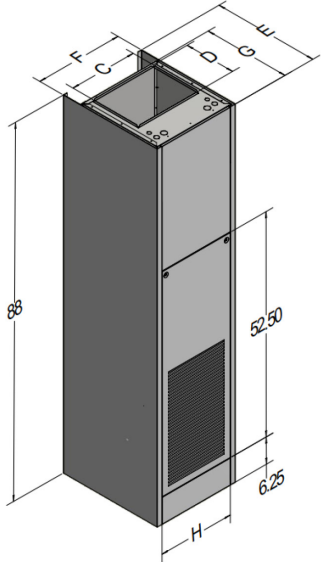
### ACCESS PANEL SPECIFICATION

- Optional panels include flush mount or frame type
- Constructed from 18 gauge galvanized steel and coated with white epoxy powder finish
- Panel is insulated with 1/2" heavy density fiberglass insulation
- Panel mounted with tamper-proof fasteners
- Integral stamped steel return air louvers
- Panel provides access to all internal components
- Framed panels require field installation of frame

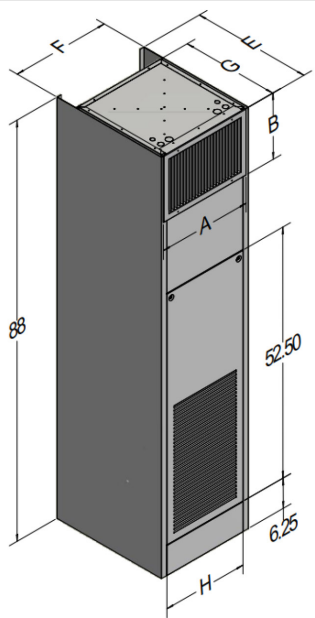
# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### EXPOSED CABINET SPECIFICATION



| TOP SUPPLY OPENING |    |    |       |       |       |       |       |                   |
|--------------------|----|----|-------|-------|-------|-------|-------|-------------------|
| MODEL              | C  | D  | SIZE  | E     | F     | G     | H     | FILTER SIZE       |
| 3RR                | 14 | 10 | 14x10 | 22.20 | 18.00 | 17.00 | 14.13 | 12.5 X 24.25 X 1  |
| 4RR                |    |    |       |       |       |       |       |                   |
| 6RR                | 16 | 12 | 16x12 | 25.20 | 21.00 | 20.00 | 18.13 | 16.25 X 26.75 X 1 |
| 8RR                |    |    |       |       |       |       |       |                   |
| 10RR               | 18 | 16 | 18x16 | 29.20 | 25.00 | 24.00 | 22.13 | 20.50 X 29.25 X 1 |
| 12RR               |    |    |       |       |       |       |       |                   |



| MODEL | SINGLE SUPPLY OPENING |    |       | DOUBLE SUPPLY OPENING (2) |   |      |       |       |       |       | FILTER SIZE       |
|-------|-----------------------|----|-------|---------------------------|---|------|-------|-------|-------|-------|-------------------|
|       | A                     | B  | SIZE  | A                         | B | SIZE | E     | F     | G     | H     |                   |
| 3RR   | 14                    | 12 | 12X14 | 14                        | 6 | 14X6 | 22.20 | 18.00 | 17.00 | 14.13 | 12.5 X 24.25 X 1  |
| 4RR   |                       |    |       |                           |   |      |       |       |       |       |                   |
| 6RR   | 18                    | 12 | 18X12 | 18                        | 6 | 18X6 | 25.20 | 21.00 | 20.00 | 18.13 | 16.25 X 26.75 X 1 |
| 8RR   |                       |    |       |                           |   |      |       |       |       |       |                   |
| 10RR  | 20                    | 16 | 20x16 | 22                        | 8 | 22X8 | 29.20 | 25.00 | 24.00 | 22.13 | 20.50 X 29.25 X 1 |
| 12RR  |                       |    |       |                           |   |      |       |       |       |       |                   |

### EXPOSED CABINET SPECIFICATION

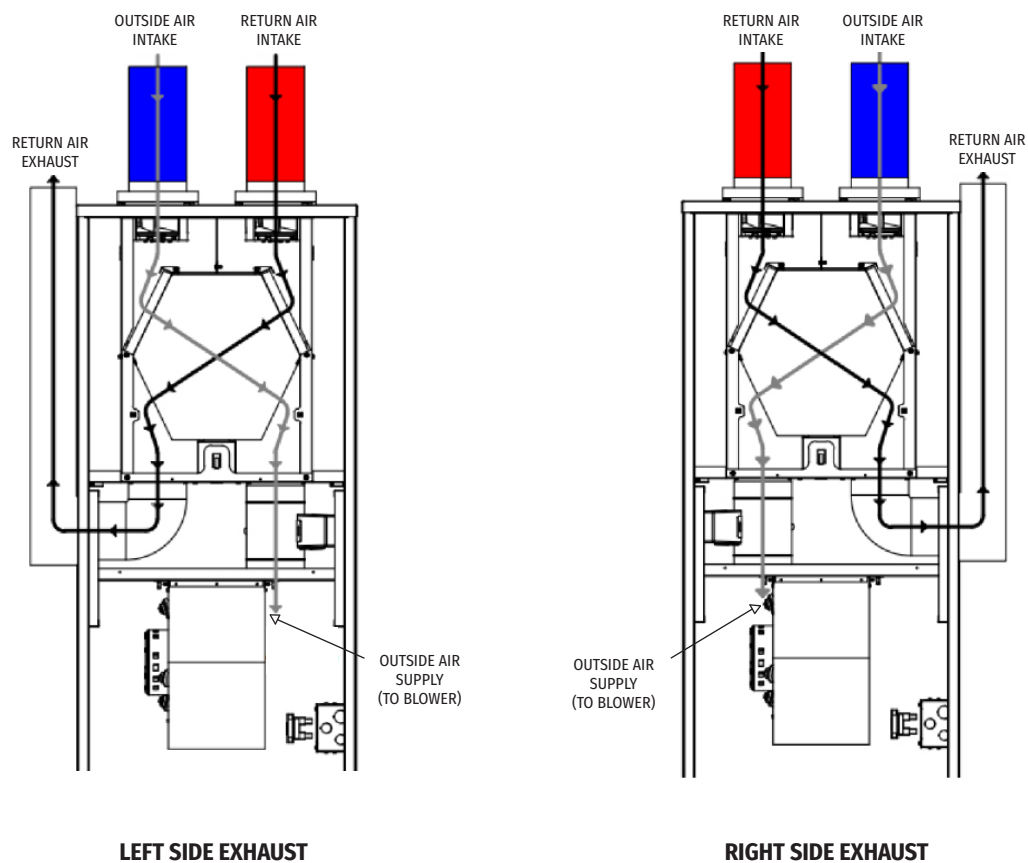
- Clean, fastener free exterior
- Exterior panels constructed from 18 gauge galvanized steel and coated with white epoxy powder finish
- Insulated steel Return Air/ Access Panel included with 1/4 turn tamper proof fasteners
- Flush stamped Return Air Louvers
- Rear pipe chase to facilitate hydronic and electric connections
- Optional aluminum single front discharge double deflection Supply Air Louver painted white (not applicable to top discharge units)
- Framed panels require field installation of frame

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### ERV CABINET SPECIFICATION

- Fully integrated, higher efficiency counter-flow ERV module with washable core
- Multi-function microprocessor control board for ERV control and integrated defrost
- Push button adjustable ERV fan speed set points using 0-10V control signal
- Universal cabinet design for flexible installation requirements
- Factory installed 120V relay for wall timer/switch activation
- Segmented Access panel for easy maintenance access
- Framed panels require field installation of frame



The exhaust air is ducted via a factory installed chimney to the top of the cabinet so connections can be made at the same location for the Outside Air supply (5" Duct Collar), Return Air Intake (5" Duct Collar), and Return Air Exhaust (6"X4" Duct), While the Outside Air Supply is ducted through a motorized damper, internally controlled, into the supply of the unit blower. The blower operates so that the blower will not pull air through the ERV, should the ERV be in an inactive state.

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### DEFROST OUTSIDE AIR TEMPERATURE

| RR – CFM DATA |             |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|-------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| KW            | EAT<br>(°F) | FRESH AIR CFM |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |             | 30            | 35    | 40    | 45    | 50    | 55    | 60    | 65    | 70    | 75    | 80    | 85    | 90    | 95    | 100   |
| 1             | -10         | 95.3          | 80.3  | 69.0  | 60.2  | 53.2  | 47.5  | 42.7  | 38.6  | 35.1  | 32.1  | 29.5  | 27.2  | 25.1  | 23.3  | 21.6  |
|               | -20         | 85.3          | 70.3  | 59.0  | 50.2  | 43.2  | 37.5  | 32.7  | 28.6  | 25.1  | 22.1  | 19.5  | 17.2  | 15.1  | 13.3  | 11.6  |
|               | -30         | 75.3          | 60.3  | 49.0  | 40.2  | 33.2  | 27.5  | 22.7  | 18.6  | 15.1  | 12.1  | 9.5   | 7.2   | 5.1   | 3.3   | 1.6   |
|               | -40         | 65.3          | 50.3  | 39.0  | 30.2  | 23.2  | 17.5  | 12.7  | 8.6   | 5.1   | 2.1   | -0.5  | -2.8  | -4.9  | -6.7  | -8.4  |
|               | -50         | 55.3          | 40.3  | 29.0  | 20.2  | 13.2  | 7.5   | 2.7   | -1.4  | -4.9  | -7.9  | -10.5 | -12.8 | -14.9 | -16.7 | -18.4 |
| 1.5           | -10         | 148.0         | 125.4 | 108.5 | 95.3  | 84.8  | 76.2  | 69.0  | 62.9  | 57.7  | 53.2  | 49.3  | 45.8  | 42.7  | 39.9  | 37.4  |
|               | -20         | 138.0         | 115.4 | 98.5  | 85.3  | 74.8  | 66.2  | 59.0  | 52.9  | 47.7  | 43.2  | 39.3  | 35.8  | 32.7  | 29.9  | 27.4  |
|               | -30         | 128.0         | 105.4 | 88.5  | 75.3  | 64.8  | 56.2  | 49.0  | 42.9  | 37.7  | 33.2  | 29.3  | 25.8  | 22.7  | 19.9  | 17.4  |
|               | -40         | 118.0         | 95.4  | 78.5  | 65.3  | 54.8  | 46.2  | 39.0  | 32.9  | 27.7  | 23.2  | 19.3  | 15.8  | 12.7  | 9.9   | 7.4   |
|               | -50         | 108.0         | 85.4  | 68.5  | 55.3  | 44.8  | 36.2  | 29.0  | 22.9  | 17.7  | 13.2  | 9.3   | 5.8   | 2.7   | -0.1  | -2.6  |
| 2             | -10         | 200.7         | 170.6 | 148.0 | 130.4 | 116.4 | 104.9 | 95.3  | 87.2  | 80.3  | 74.3  | 69.0  | 64.4  | 60.2  | 56.5  | 53.2  |
|               | -20         | 190.7         | 160.6 | 138.0 | 120.4 | 106.4 | 94.9  | 85.3  | 77.2  | 70.3  | 64.3  | 59.0  | 54.4  | 50.2  | 46.5  | 43.2  |
|               | -30         | 180.7         | 150.6 | 128.0 | 110.4 | 96.4  | 84.9  | 75.3  | 67.2  | 60.3  | 54.3  | 49.0  | 44.4  | 40.2  | 36.5  | 33.2  |
|               | -40         | 170.7         | 140.6 | 118.0 | 100.4 | 86.4  | 74.9  | 65.3  | 57.2  | 50.3  | 44.3  | 39.0  | 34.4  | 30.2  | 26.5  | 23.2  |
|               | -50         | 160.7         | 130.6 | 108.0 | 90.4  | 76.4  | 64.9  | 55.3  | 47.2  | 40.3  | 34.3  | 29.0  | 24.4  | 20.2  | 16.5  | 13.2  |
| 3             | -10         | 306.0         | 260.9 | 227.0 | 200.7 | 179.6 | 162.4 | 148.0 | 135.8 | 125.4 | 116.4 | 108.5 | 101.5 | 95.3  | 89.8  | 84.8  |
|               | -20         | 296.0         | 250.9 | 217.0 | 190.7 | 169.6 | 152.4 | 138.0 | 125.8 | 115.4 | 106.4 | 98.5  | 91.5  | 85.3  | 79.8  | 74.8  |
|               | -30         | 286.0         | 240.9 | 207.0 | 180.7 | 159.6 | 142.4 | 128.0 | 115.8 | 105.4 | 96.4  | 88.5  | 81.5  | 75.3  | 69.8  | 64.8  |
|               | -40         | 276.0         | 230.9 | 197.0 | 170.7 | 149.6 | 132.4 | 118.0 | 105.8 | 95.4  | 86.4  | 78.5  | 71.5  | 65.3  | 59.8  | 54.8  |
|               | -50         | 266.0         | 220.9 | 187.0 | 160.7 | 139.6 | 122.4 | 108.0 | 95.8  | 85.4  | 76.4  | 68.5  | 61.5  | 55.3  | 49.8  | 44.8  |

For installations in cold climates, the ERV unit is designed to operate with a field installed, electric pre-heat device to provide a constant outside air supply, without the need for recirculation air to interrupt the fresh air supply. Care should be taken to ensure that the correctly sized electric heating device is paired with the winter design temperature and fresh air CFM range during normal operation so that frosting does not occur on the energy recovery core. The Defrost Outside Air Temperature table can be used as a guide to determine the correct sized heater (in KW) based on the expected entering air temperature (°F) during the winter condition, and the design CFM.

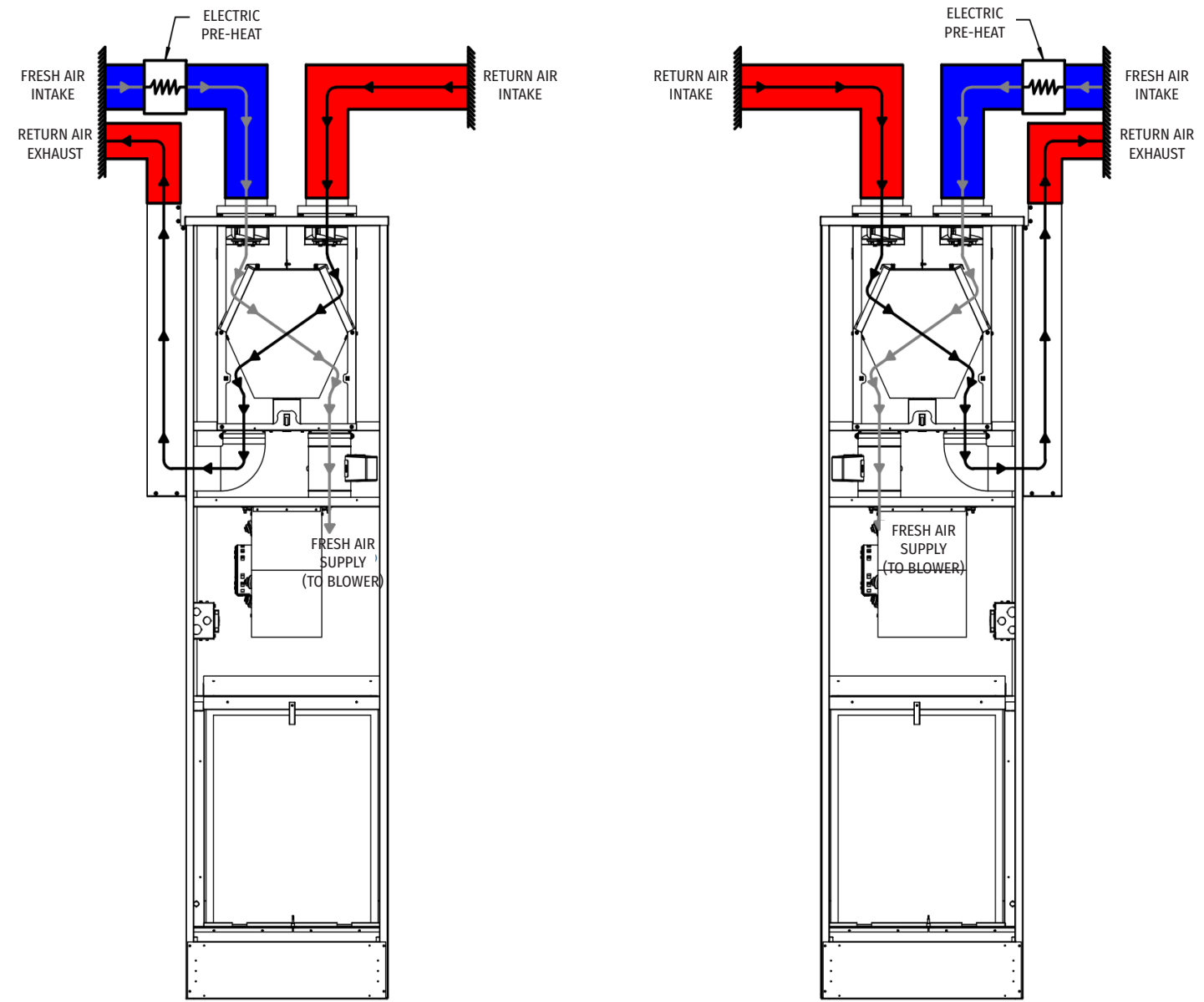
In the event of the Outside Air temperature falling below 30°F (-1°C) the ERV control will temporarily reduce both the Outside Air and Return air fan speeds to increase the temperature of the Outside Air into the unit, without creating a negative pressure environment inside the occupied space.

For installations without pre-heating devices, a recirculation damper can be installed that allows the recirculation of air from the occupied space into the Fresh Air supply of the ERV. Special care should be taken to ensure that class II air is not recirculated with Class I air in installations where the ERV return is ducted from areas such as a kitchen fan hood or bathroom fan.

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### ERV RISER CABINET

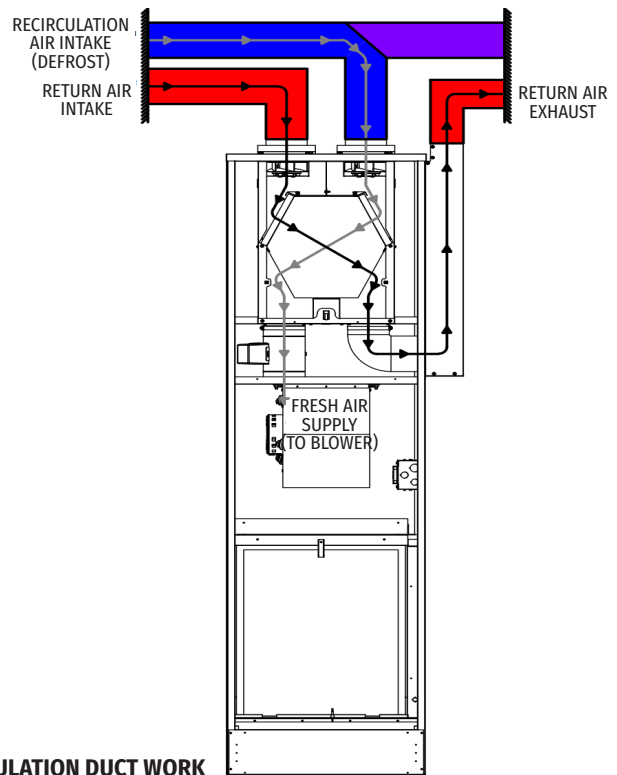
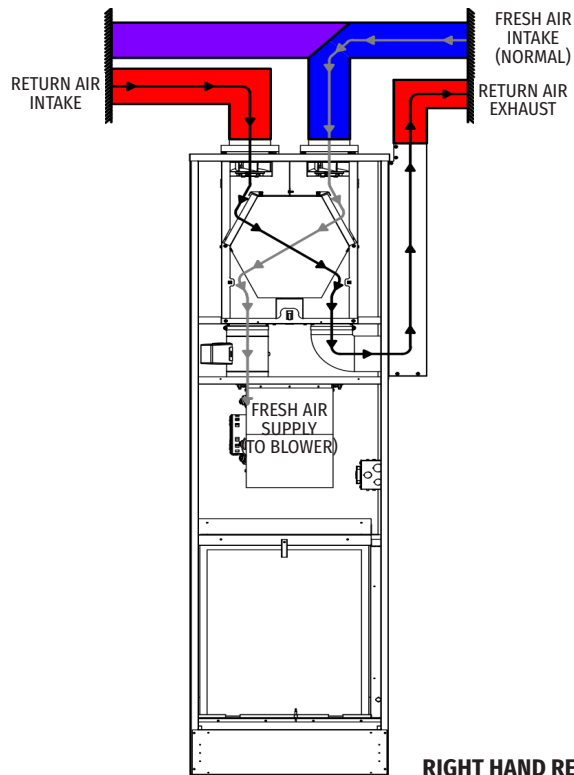


LEFT AND RIGHT HAND ELECTRIC PRE-HEAT DUCT WORK

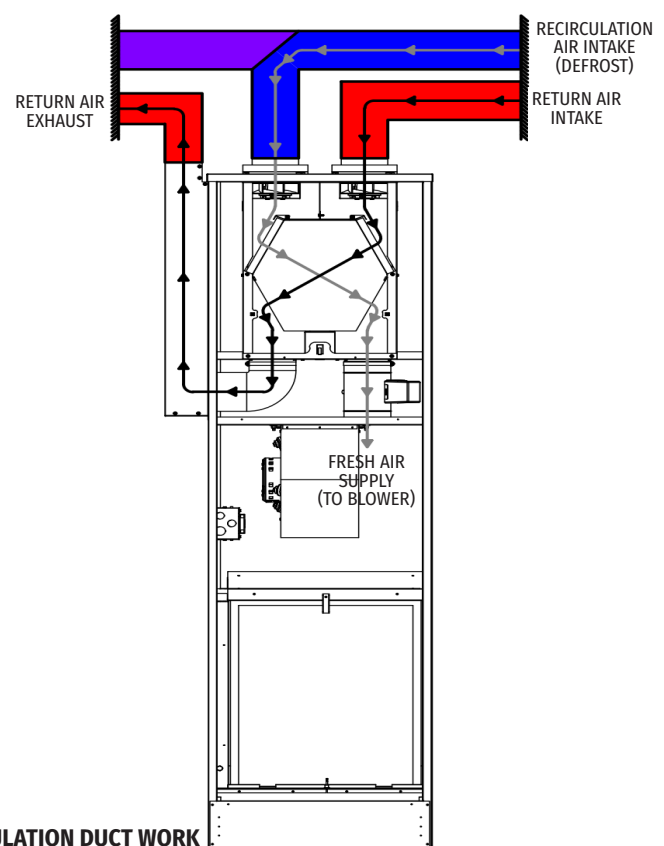
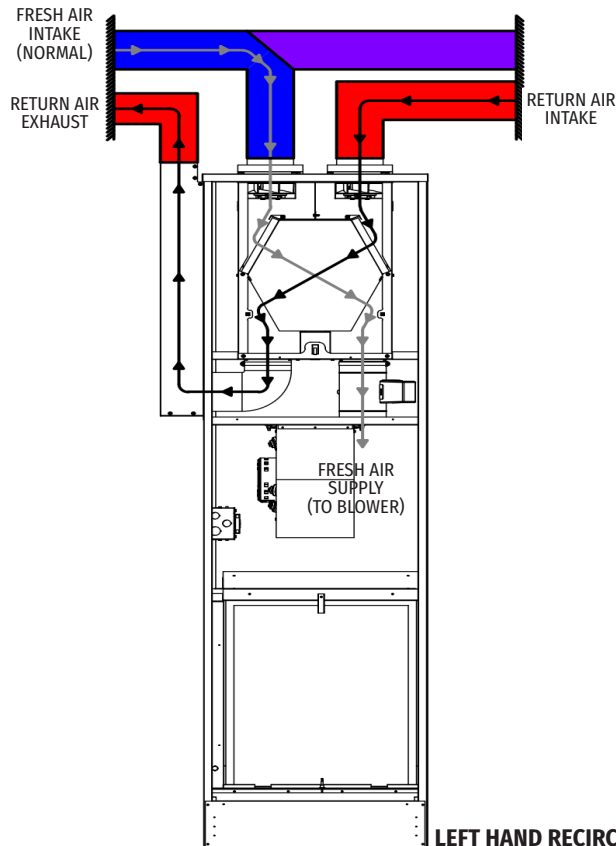
# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### ERV RISER CABINET



RIGHT HAND RECIRCULATION DUCT WORK



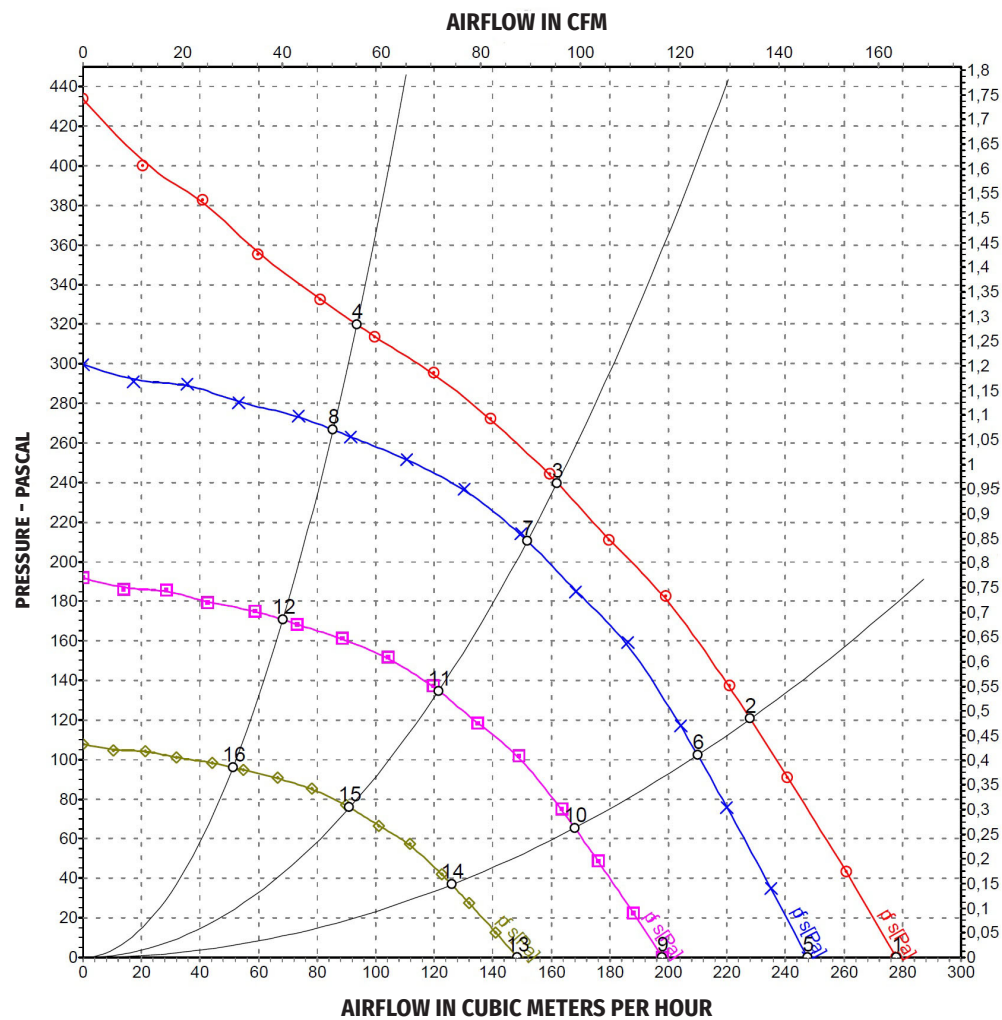
LEFT HAND RECIRCULATION DUCT WORK

# RR SERIES

VERTICAL HIGH RISE FAN COILS

## ERV FAN PERFORMANCE

ERV FAN CURVE – AIR FLOW AT 60HZ



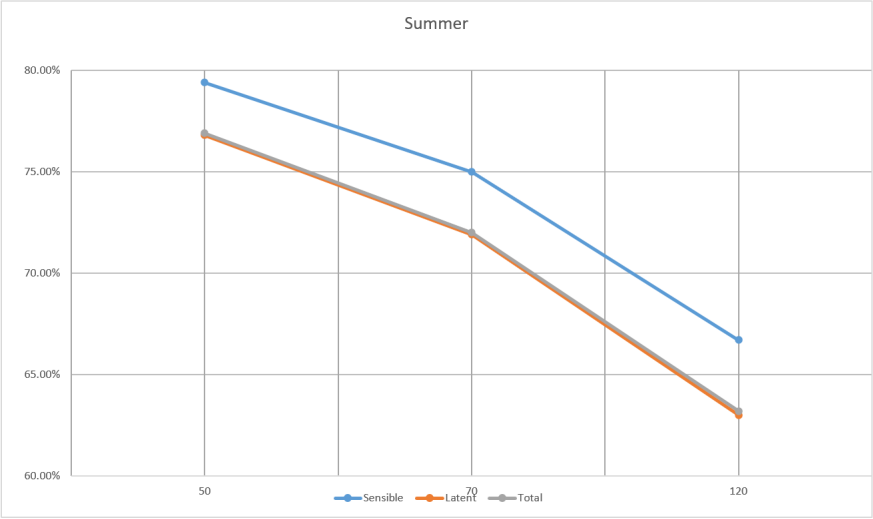
|    | Voltage | Frequency Hz | Speed (Rev/min) | Power (Watts) | Current (Amps) | Airflow (m <sup>3</sup> /h) | Pressure (Pa) | Airflow (CFM) | Pressure (IN H2O) |
|----|---------|--------------|-----------------|---------------|----------------|-----------------------------|---------------|---------------|-------------------|
| 1  | 230     | 60           | 3930            | 24            | 0.23           | 280                         | 0             | 165           | 0.00              |
| 2  | 230     | 60           | 3800            | 26            | 0.26           | 230                         | 120           | 136           | 0.48              |
| 3  | 230     | 60           | 3770            | 27            | 0.27           | 160                         | 240           | 95            | 0.96              |
| 4  | 230     | 60           | 3835            | 26            | 0.25           | 95                          | 320           | 56            | 1.28              |
| 5  | 230     | 60           | 3500            | 17            | 0.16           | 250                         | 0             | 148           | 0.00              |
| 6  | 230     | 60           | 3500            | 20            | 0.2            | 210                         | 102           | 124           | 0.41              |
| 7  | 230     | 60           | 3500            | 22            | 0.22           | 150                         | 211           | 89            | 0.85              |
| 8  | 230     | 60           | 3500            | 19            | 0.19           | 85                          | 267           | 51            | 1.07              |
| 9  | 230     | 60           | 2800            | 8.5           | 0.08           | 200                         | 0             | 118           | 0.00              |
| 10 | 230     | 60           | 2800            | 10            | 0.1            | 170                         | 66            | 101           | 0.26              |
| 11 | 230     | 60           | 2800            | 11            | 0.11           | 120                         | 135           | 71            | 0.54              |
| 12 | 230     | 60           | 2800            | 9.9           | 0.1            | 70                          | 171           | 42            | 0.69              |
| 13 | 230     | 60           | 2100            | 3.6           | 0.04           | 150                         | 0             | 89            | 0.00              |
| 14 | 230     | 60           | 2100            | 4.4           | 0.04           | 125                         | 37            | 74            | 0.15              |
| 15 | 230     | 60           | 2100            | 4.8           | 0.05           | 90                          | 76            | 53            | 0.31              |
| 16 | 230     | 60           | 2100            | 4.2           | 0.04           | 50                          | 96            | 30            | 0.39              |



# RR SERIES

## VERTICAL HIGH RISE FAN COILS

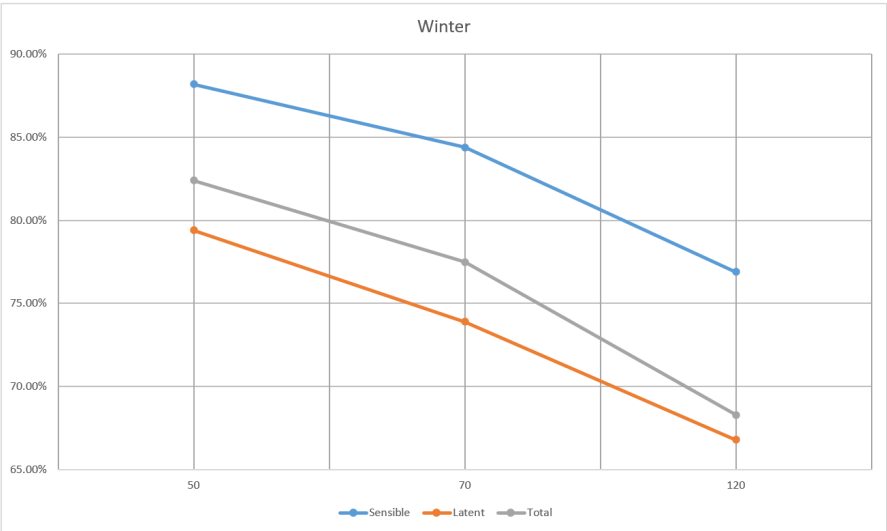
### ERV PERFORMANCE SUMMER



| OUTDOOR     |     | RETURN        |     |
|-------------|-----|---------------|-----|
| DB °F (°C)  | RH% | DB °F (°C)    | RH% |
| 81°F (27°C) | 63% | 78°F (25.5°C) | 65% |

| CFM | Sensible % | Latent % | Total % |
|-----|------------|----------|---------|
| 50  | 79.40%     | 76.80%   | 76.90%  |
| 70  | 75%        | 71.90%   | 72%     |
| 120 | 66.70%     | 63%      | 63.20%  |

### WINTER



| OUTDOOR     |     | RETURN      |     |
|-------------|-----|-------------|-----|
| DB °F (°C)  | RH% | DB °F (°C)  | RH% |
| 27°F (-3°C) | 26% | 68°F (20°C) | 20% |

| CFM | Sensible % | Latent % | Total % |
|-----|------------|----------|---------|
| 50  | 88.20%     | 79.40%   | 82.40%  |
| 70  | 84.40%     | 73.90%   | 77.50%  |
| 120 | 76.90%     | 66.80%   | 68.30%  |

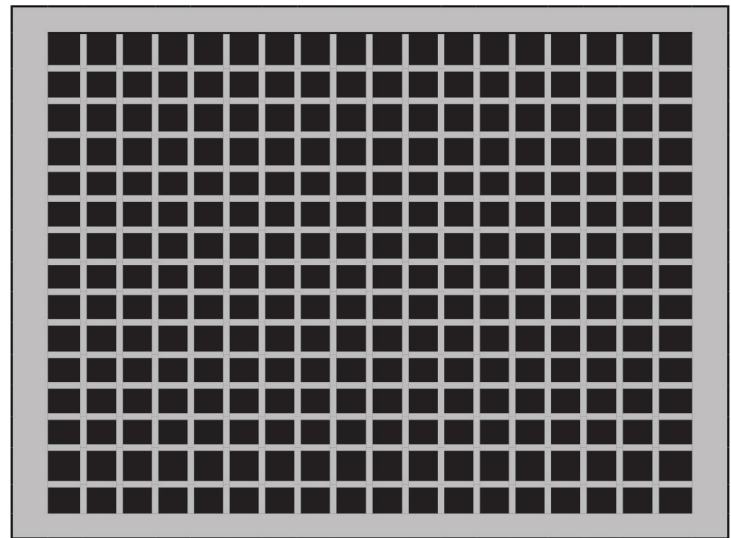
# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### SUPPLY AIR LOUVER – ERV

| RR – LOUVER DATA |      |                                                   |                        |                     |                        |                     |                       |                     |                       |                     |
|------------------|------|---------------------------------------------------|------------------------|---------------------|------------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|
| RR Series        |      | Top Duct<br>(Requires Side/<br>Front Double Duct) | Front Duct<br>(Single) |                     | Front Duct<br>(Double) |                     | Side Duct<br>(Single) |                     | Side Duct<br>(Double) |                     |
| Unit Size        | CFM  | Nominal Louver Size                               | Nominal Louver Size    | Core Area (SQ. FT.) | Nominal Louver Size    | Core Area (SQ. FT.) | Nominal Louver Size   | Core Area (SQ. FT.) | Nominal Louver Size   | Core Area (SQ. FT.) |
| 3                | 300  | 14 X 6                                            | 14 X 8                 | 0.65                | 14 X 6                 | 0.5                 | 14 X 6                | 0.5                 | 14 X 6                | 0.5                 |
| 4                | 400  | 14 X 6                                            | 14 X 8                 | 0.65                | 14 X 6                 | 0.5                 | 14 X 6                | 0.5                 | 14 X 6                | 0.5                 |
| 6                | 600  | 14 X 6                                            | 14 X 12                | 1                   | 14 X 8                 | 0.65                | 22 X 6                | 0.8                 | 18 X 6                | 0.65                |
| 8                | 800  | 14 X 6                                            | 14 X 12                | 1                   | 14 X 8                 | 0.65                | 22 X 6                | 0.8                 | 18 X 6                | 0.65                |
| 10               | 1000 | 18 X 10                                           | 18 X 16                | 1.85                | 18 X 10                | 1.13                | 22 X 10               | 1.37                | 22 X 8                | 1.2                 |
| 12               | 1200 | 18 X 10                                           | 18 X 16                | 1.85                | 18 X 10                | 1.13                | 22 X 10               | 1.37                | 22 X 8                | 1.2                 |

- Standard louver is a double deflection type with streamlined shaped roll-formed blades on 3/4" centers. 1 1/4" wide face border with a 1" overlap margin standard, furnished with countersunk screw holes. Rigid, roll-formed frames with reinforced mitered corners.
- Vertical and horizontal blades are friction pivoted and easily adjusted to provide desired spread or deflection.
- Blades maintain adjustable deflection setting during all conditions to velocity and pressure.
- ERV Riser louver configurations come with either one single discharge, or any combination of two double discharge duct sizes. Top ducted units without a double duct configuration may cause excess noise depending on the CFM requirements.



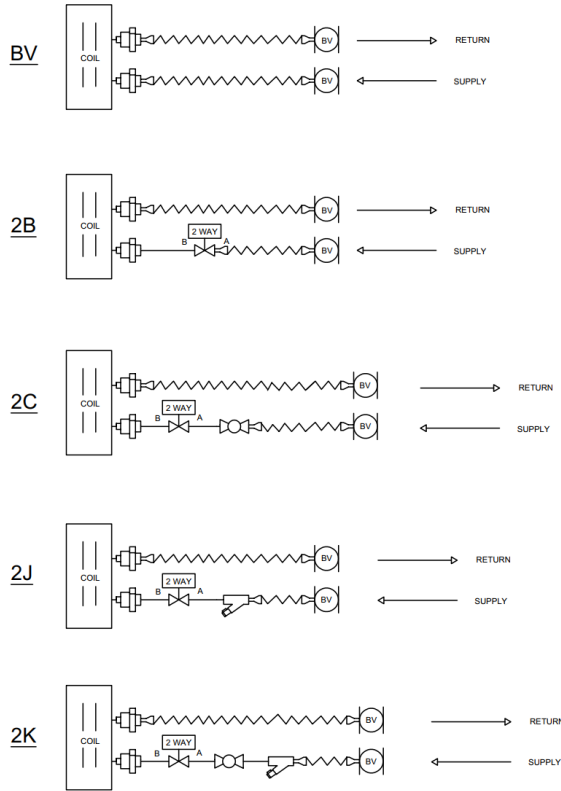
Standard louver finish is an appliance white baked enamel.

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### VALVE PACKAGES

#### RISER VALVE 1



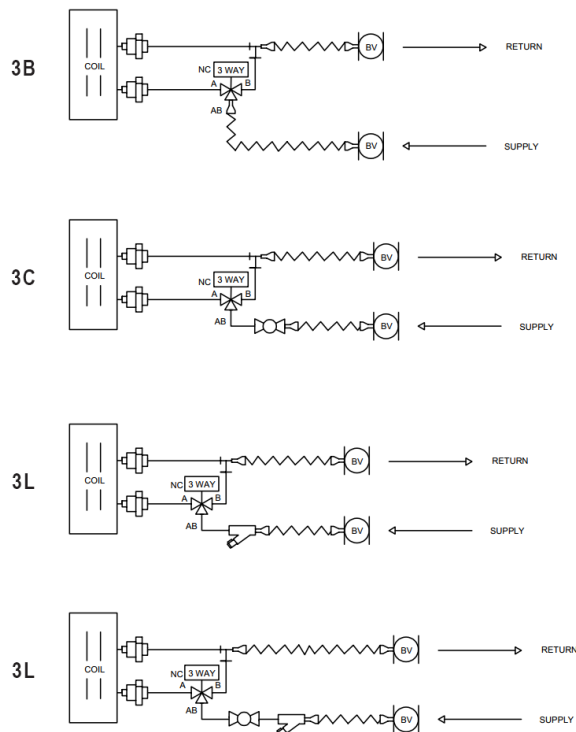
#### LEGEND

- UNION W/1/8", 1/4" PORTS (CAPPED FOR FUTURE USE)
- HOSE W/ DBL SWIVEL
- BALL VALVE CP9
- STRAINER WITH BLOW DOWN
- FLOW SETTER
- TWO WAY MTR VALVE
- FEMALE ADAPTER CP1413

#### OPTIONAL

- (A) P & T
- (B) AUTO AIRVENT
- (C) BLOW DOWN

#### RISER VALVE 2



#### LEGEND

- UNION W/1/8", 1/4" PORTS (CAPPED FOR FUTURE USE)
- HOSE W/ DBL SWIVEL
- BALL VALVE CP9
- STRAINER WITH BLOW DOWN
- FLOW SETTER
- TWO WAY MTR VALVE
- FEMALE ADAPTER CP1413
- COPPER TEE CP2507
- AQUASTAT

#### OPTIONAL

- (A) P & T
- (B) AUTO AIRVENT
- (C) BLOW DOWN

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# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### SPECIFICATION GUIDE

#### SIZE RANGE:

300 to 1200 Nominal Cfm

#### PART 1 — GENERAL

##### 1.01 SYSTEM DESCRIPTION

Stack fan coil units, 2-pipe, 4-pipe or electric heat for furred-in cabinets that are floor mounted in multi-story buildings.

##### 1.02 QUALITY ASSURANCE

Units shall be tested in accordance with AHRI standard 440. All units shall be ETL approved. Each coil shall be factory tested for leakage at 300 psig air pressure with coil submerged in water. Insulation and adhesive shall meet NFPA-90A requirements for flame spread and smoke generation. All equipment wiring shall comply with NEC requirements.

##### 1.03 DELIVERY, STORAGE AND HANDLING

Unit shall be handled and stored in accordance with the manufacturer's instructions.

#### PART 2 — PRODUCTS

##### 2.01 EQUIPMENT

- **General: Standard Features**

Factory assembled, stack fan coil units. Units are complete with water coil, fan, motor, drain pan, and all required wiring, piping, controls, and special features.

- **Furred-In Stack Unit:**

The unit shall be constructed of 20-gage galvanized steel frame and 20-gage galvanized steel back panel. The fan coil is open or enclosed for furred-in installation. These units are designed to have the wallboard applied directly to the unit surface and all openings have standard 3/4-in. thick antimicrobial coated Tuf-skin RX fiberglass insulation. Units have double deflection aluminum discharge louver(s) and painted, stamped (standard) return-air louver panel. Removable return-air louver provides access to all internal piping and wiring. Controls are provided with a quick disconnect plug for field-mounting on front of unit.

- **Drain Pan:**

Removable drain pan shall be formed of heavy gauge galvanized steel and shall be coated inside with insulation. The drain is factory piped to the drain riser that has a removable "P-trap" allowing easy cleaning. Optional stainless steel drain pan shall be available for factory installation.

- **Filter:**

A filter track complete with 1-in. fiberglass throwaway filter shall be installed in the unit. Optional MERV 10 filters available for factory installation.

- **Fan:**

- Centrifugal fan directly driven by an electric motor.
- Double-width, forward-curved fan wheel constructed of galvanized steel, statically and dynamically balanced.

- **Coil:**

- Standard base unit shall be equipped with a 3-row for installation in a 2-pipe system. Additional coil depth and circuiting shall be provided for installation in a 4-pipe system as described in the Special Features section.
- All coils shall have 12-in. copper tubes and aluminum fins spacing; coil fins are mechanically bonded to tube joints. The copper tubes comply with the ASTM B-75. The fin thickness is 0.06-in. and tube thickness is 0.016-inches. All coils are tested with air under water and are suitable for design working pressures of 300 psig.
- Coil shall be equipped with a manual air vent and shall be piped to supply and return risers with valves as specified on the equipment drawings.
- Piping between coil and risers shall compensate for maximum riser expansion and contraction of 1-1/2 inches.

- **Risers:**

- Factory installed or shipped loose in 116" or 120" lengths with straight ends for pro-press fittings.
- Type L or Type M copper insulated with either 1/2", 3/4" or 1" thick synthetic rubber.
- Drain riser diameter: 1 in.; supply and return risers as shown on equipment drawings.

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### SPECIFICATION GUIDE (CONT'D)

- **Valve Packages:**
  - **Flexible Hoses (STANDARD (FH)):** Enable the Supply and Return water connections between the Unit and the water Loop Risers. The two stainless steel FH are made of a stainless-steel outer braid with an inner core of tube made of a nontoxic synthetic polymer material. Fire rated materials per ASTM E84-00 (NFPA 255, ANSI/UL 723 & UBC 8-1). The FH terminations are swivel MPT (Male Pipe Thread) fitting at one end and at the opposite end with a MPT connector sealed with a fiber or EPDM washer, shipped inside the connection. Swivel connection provides union between chassis and risers. The FH have a max working pressure of 400 PSI, temperature-operating range of 15°F to 180°F however, operation below 32°F requires antifreeze.
  - **Automatic Water Balancing Valve (OPTIONAL) (AWBV):** Regulates the amount of water into each unit to enable a proper Water System balance. The AWBV is provided from the factory at specific selectable flow rates and automatically controls the water flow to within 10% of the rated value over a 40 to 1 differential pressure, and operating range (2 to 80 PSID). The AWBV has an operating pressure rate of XX psi with a temperature range of 32 to 225°F, and a pressure differential range of 2 to 80 PSID. The AWBV is manufacture with precision sculptured brass and a polyphenylsulfone orifice with an elastomeric diaphragm. The valve body shall be construct from hot forged brass UNS C37700 per ASTM B-283 latest revision.
  - **Strainer (OPTIONAL) (ST):** The ST valve body is constructed from dezincification resistant brass with a 600 PSI and a max working temperature of 325°F. The ST filter screen is made of a 20-mesh screen constructed of 304 stainless steel and removable via a cap with an FKM sealing O-Ring. The ST cap has a ¼" or ½" FNPT Port to which a blowdown ball valve is attach including a hose bib threaded connection and cap.
  - **Isolation Valves (OPTIONAL) (IBV):** Isolation ball valves mounted between the unit and the supply and return lines of the loop to isolate the water flow to the unit in a maintenance or service situation. The IBV are rated to 600 psi nonshock cold working pressure. Full port, two-piece body with blowout-proof stem and PTFE Seats. ASME B16.33: 125 psig (maximum) and operating temperature of -4°F to 194°F
  - **Motorized Control Valves (OPTIONAL) (MCV):** The MCV actuator is easily removed, ON/OFF type, 2-way, normally close with a spring close actuation and actuates with a 24VAC control signal. The MCV valve body comes in two options. Option 1 can operate at a maximum operating pressure of 300 psi, a maximum pressure differential of 30 PSI, operating with fluid temperatures between 32°F to 240°F and a max glycol percentage allowable of 50%. Option 2 can operate at a maximum operating pressure of 360 psi, a maximum pressure differential of 75 PSI, operating with fluid temperatures between 36°F to 212°F and a max glycol percentage allowable of 60%.
- **Controls and Safeties:**
  - Standard controls for a 2-pipe system shall consist of a heating/cooling thermostat (SPDT) with 3-speed fan control for 2-pipe systems. Fan motor equipped with integral motor protection
- **Operating Characteristics:**
  - A unit with a conventional coil, installed in a 2-pipe system, shall be capable of providing heating or cooling as determined by the operating mode of the central water supply system.
  - A unit with a row-split coil, installed in a 4-pipe system, shall be capable of providing sequenced heating and cooling.
- **Electrical Requirements:**

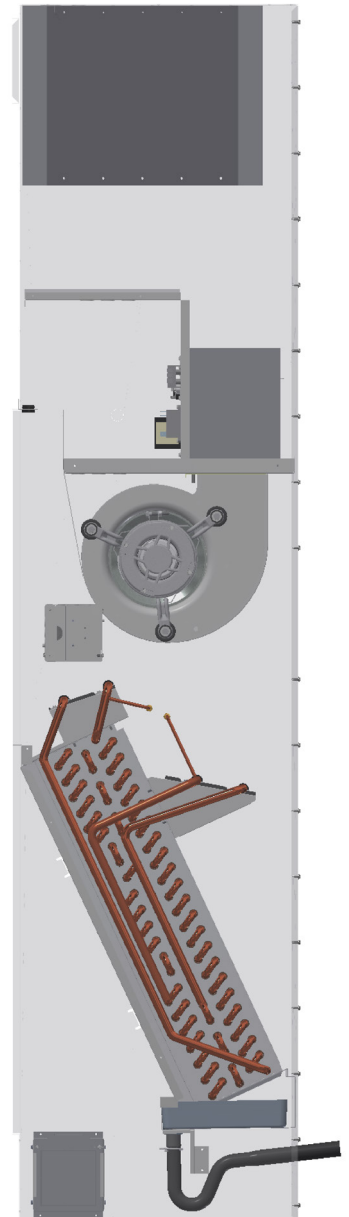
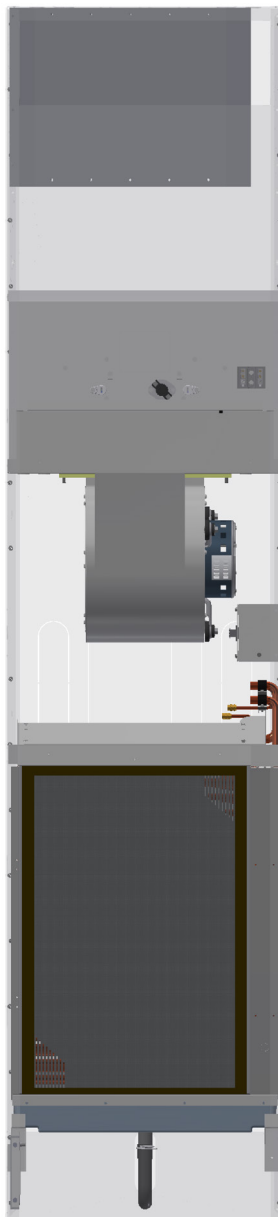
Supply voltage options for 115V, 208/240V or 277V single phase, 60-Hz electrical power supply.
- **Electrical Heaters:**
  - Unit shall be equipped with nichrome wire electric strip heaters for total or auxiliary electric heat as specified on the equipment schedule.
  - Heaters shall be protected by an automatic reset safety cutout switch.
  - Heater capacity shall be as specified on the equipment schedule.
  - Heaters shall be single phase, 60 Hz for 120, 208, 240 or 277 volts as specified on the equipment schedule.
  - For total electric heat, unit controls may include a sequenced heating and cooling thermostat.
  - For auxiliary electric heat or twilight heat, unit controls shall include 2 additional automatic changeover devices.
- **Motor:**
  - Fan motors are 3-speed, with 115V, 208/240V and 277V options, single phase, 60-Hz electronically commutated motor type, factory mounted on the blower housing.
  - Bearings shall be of the sealed sleeve type.

# RR SERIES

## VERTICAL HIGH RISE FAN COILS

### SPECIFICATION GUIDE (CONT'D)

- **Access Panels:**
  - Tamper-proof fasteners shall be installed on the access panels
  - Return Air Panels
    - Short surface mount.
    - Short flush mount (framed)



RR – Vertical High Rise Fan Coil



YOUR VISION. YOUR BUILD. OUR EXPERTISE.



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