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| DESIGNATION | CONFIGURATION               | AIR CONNECTIONS   |               |                  | SUPPLY FAN DATA      |                   |                            |             |             |               |                |                 |             |            | COILS        |                  |       |    | CHILLED WATER (OR DUAL TEMP) COIL COOLING DATA |           |                           |       |      |          |           |     |             |             | HOT WATER (OR DUAL TEMP) COIL HEATING DATA |             |             |                |       |       |          |       |             |             | ELECTRICAL DATA |             |             |                |       |    |    |                   |           |           | FILTER PRE-FILTER | UNIT OVERALL DIMENSIONS |            |     | WEIGHT (LBS) | MANUFACTURER | MODEL | REMARKS |          |                 |
|-------------|-----------------------------|-------------------|---------------|------------------|----------------------|-------------------|----------------------------|-------------|-------------|---------------|----------------|-----------------|-------------|------------|--------------|------------------|-------|----|------------------------------------------------|-----------|---------------------------|-------|------|----------|-----------|-----|-------------|-------------|--------------------------------------------|-------------|-------------|----------------|-------|-------|----------|-------|-------------|-------------|-----------------|-------------|-------------|----------------|-------|----|----|-------------------|-----------|-----------|-------------------|-------------------------|------------|-----|--------------|--------------|-------|---------|----------|-----------------|
|             |                             | SUPPLY            | RETURN        | OUTSIDE AIR      | SUPPLY AIRFLOW (CFM) | FAN SPEED SETTING | MIN. OUTSIDE AIRFLOW (CFM) | ESP (IN WC) | NO. OF FANS | NO. OF MOTORS | HP (PER MOTOR) | BHP (PER MOTOR) | FAN TYPE    | DRIVE TYPE | STARTER TYPE | STARTER LOCATION | STEAM | DX | CHILLED WATER                                  | HOT WATER | DUAL TEMP & CHILLED WATER | FLUID | ROWS | TOT. MBH | SENS. MBH | GPM | E.W.T. (°F) | L.W.T. (°F) | E.A.T. (°F)                                | L.A.T. (°F) | L.A.T. (°F) | W.P.D. (FT-WC) | FLUID | ROWS  | TOT. MBH | GPM   | E.W.T. (°F) | L.W.T. (°F) | E.A.T. (°F)     | L.A.T. (°F) | L.A.T. (°F) | W.P.D. (FT-WC) | VOLTS | PH | Hz | DISCONNECT        |           |           |                   | EMER. PWR. (Y/N)        |            |     |              |              |       |         |          |                 |
|             |                             |                   |               |                  |                      |                   |                            |             |             |               |                |                 |             |            |              |                  |       |    |                                                |           |                           |       |      |          |           |     |             |             |                                            |             |             |                |       |       |          |       |             |             |                 |             |             |                |       |    |    | BY E.C. OR MANUF. | LOCATION  | TYPE      |                   |                         | ENCL. TYPE |     |              |              |       |         |          |                 |
|             |                             |                   |               |                  |                      |                   |                            |             |             |               |                |                 |             |            |              |                  |       |    |                                                |           |                           |       |      |          |           |     |             |             |                                            |             |             |                |       |       |          |       |             |             |                 |             |             |                |       |    |    |                   |           |           |                   |                         |            |     |              |              |       |         |          |                 |
| UV-A        | VERTICAL                    | TOP GRILLE        | LOW FRONT     | REAR DUCT COLLAR | 1,150                | MEDIUM            | RE: PLANS                  | 0           | 1           | 1             | 1/4            | -               | CENTRIFUGAL | DIRECT     | ECM          | AT MOTOR         | -     | -  | -                                              | -         | X                         | WATER | 4    | 48.9     | 29.4      | 8.6 | 44          | 54          | 80                                         | 67          | 57          | 53             | 7.8   | WATER | 4        | 100.4 | 8.6         | 140         | 117             | 52          | 132         | 7.8            | 120   | 1  | 60 | MANUF.            | UNIT MTD. | NON-FUSED | NEMA 1            | N                       | 1" MERV-13 | 105 | 30           | 21           | 470   | TRANE   | HUVE-150 | SEE NOTES BELOW |
| UV-B        | HORIZONTAL CEILING RECESSED | FRONT DUCT COLLAR | BOTTOM GRILLE | TOP DUCT COLLAR  | 1,150                | MEDIUM            | RE: PLANS                  | 0.30        | 1           | 1             | 1/4            | -               | CENTRIFUGAL | DIRECT     | ECM          | AT MOTOR         | -     | -  | -                                              | -         | X                         | WATER | 4    | 48.9     | 29.4      | 8.6 | 44          | 54          | 80                                         | 67          | 57          | 53             | 7.8   | WATER | 4        | 100.4 | 8.6         | 140         | 117             | 52          | 132         | 7.8            | 120   | 1  | 60 | MANUF.            | UNIT MTD. | NON-FUSED | NEMA 1            | N                       | 1" MERV-13 | 105 | 15           | 30           | 470   | TRANE   | HUVE-150 | SEE NOTES BELOW |

NOTES:

- PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR ALL UNITS:
  - COMBINATION OUTSIDE AIR AND RETURN AIR MOTORIZED DAMPER, SINGLE BLADE, NO LINKAGE, FULLY MODULATING.
- PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR UV-A:
  - FULL HEIGHT "FALSE BACK" ASSEMBLY WITH OUTSIDE AIR INTAKE PLENUM AT BACK OF UNIT. MOUNT UNIT TIGHT TO EXTERIOR WALL WITH GASKET.
- PROVIDE THE FOLLOWING FIELD SUPPLIED OPTIONS:
  - AUTOMATIC TEMPERATURE CONTROLS SUB-CONTRACTOR TO FURNISH AND FIELD-INSTALL BMS CONTROLS, DAMPER ACTUATORS, CONTROL VALVES, AND CONTROL WIRING.
  - FINISH COLOR SHALL BE "STONE GREY". SUBMIT COLOR CHART FOR APPROVAL.

| DESIGNATION | CONFIGURATION        | AIR CONNECTIONS   |                  | SUPPLY FAN DATA  |                      |                            |             |             |               |                |                 | COILS       |            |              |                  | CHILLED WATER (OR DUAL TEMP) COIL COOLING DATA |               |           |                         |       |      |      |      |       |             |     |             | HOT WATER (OR DUAL TEMP) COIL HEATING DATA |             |             |             |                |       |      |     |     |             |             |             | ELECTRICAL DATA |                |       |    |        |             |             |             |             |                | FILTER PRE-FILTER | UNIT OVERALL DIMENSIONS | WALL OR CEILING OPENING DIMENSIONS |       |      |     | FACEPLATE DIMENSIONS |             | WEIGHT (LBS) | MANUFACTURER | MODEL      | REMARKS         |             |             |             |                |                   |          |      |            |            |
|-------------|----------------------|-------------------|------------------|------------------|----------------------|----------------------------|-------------|-------------|---------------|----------------|-----------------|-------------|------------|--------------|------------------|------------------------------------------------|---------------|-----------|-------------------------|-------|------|------|------|-------|-------------|-----|-------------|--------------------------------------------|-------------|-------------|-------------|----------------|-------|------|-----|-----|-------------|-------------|-------------|-----------------|----------------|-------|----|--------|-------------|-------------|-------------|-------------|----------------|-------------------|-------------------------|------------------------------------|-------|------|-----|----------------------|-------------|--------------|--------------|------------|-----------------|-------------|-------------|-------------|----------------|-------------------|----------|------|------------|------------|
|             |                      | SUPPLY            | RETURN           | OUTSIDE AIR      | SUPPLY AIRFLOW (CFM) | MIN. OUTSIDE AIRFLOW (CFM) | ESP (IN WC) | NO. OF FANS | NO. OF MOTORS | HP (PER MOTOR) | BHP (PER MOTOR) | FAN TYPE    | DRIVE TYPE | STARTER TYPE | STARTER LOCATION | STEAM                                          | CHILLED WATER | HOT WATER | DUAL TEMP HOT & CHILLED | FLUID | ROWS | TOT. |      | SENS. |             | GPM | E.W.T. (°F) | L.W.T. (°F)                                | E.A.T. (°F) | L.A.T. (°F) | L.A.T. (°F) | W.P.D. (FT-WC) | FLUID | ROWS | MBH | GPM | E.W.T. (°F) | L.W.T. (°F) | E.A.T. (°F) | L.A.T. (°F)     | W.P.D. (FT-WC) | VOLTS | PH | Hz     | DISCONNECT  |             |             |             |                |                   |                         | EMER.                              |       |      |     |                      |             |              |              |            |                 |             |             |             |                |                   |          |      |            |            |
|             |                      |                   |                  |                  |                      |                            |             |             |               |                |                 |             |            |              |                  |                                                |               |           |                         |       |      | MBH  | MBH  | GPM   | E.W.T. (°F) |     |             |                                            |             |             |             |                |       |      |     |     |             |             |             |                 |                |       |    |        | L.W.T. (°F) | E.A.T. (°F) | L.A.T. (°F) | L.A.T. (°F) | W.P.D. (FT-WC) |                   |                         |                                    | FLUID | ROWS | MBH | GPM                  | E.W.T. (°F) |              |              |            |                 | L.W.T. (°F) | E.A.T. (°F) | L.A.T. (°F) | W.P.D. (FT-WC) | BY E.C. OR MANUF. | LOCATION | TYPE | ENCL. TYPE | PWR. (Y/N) |
|             |                      |                   |                  |                  |                      |                            |             |             |               |                |                 |             |            |              |                  |                                                |               |           |                         |       |      |      |      |       |             |     |             |                                            |             |             |             |                |       |      |     |     |             |             |             |                 |                |       |    |        |             |             |             |             |                |                   |                         |                                    |       |      |     |                      |             |              |              |            |                 |             |             |             |                |                   |          |      |            |            |
| FCU-A       | VERTICAL SLOPE TOP   | TOP GRILLE        | LOW FRONT GRILLE | REAR DUCT COLLAR | 600                  | RE: PLANS                  | 0           | 1           | 1             | 0.22           | 0.12            | CENTRIFUGAL | DIRECT     | ECM          | AT MOTOR         | -                                              | -             | -         | X                       | WATER | 4    | 18.9 | 14.9 | 3.1   | 44          | 56  | 80          | 67                                         | 57          | 56          | 4.7         | WATER          | 4     |      | 3.1 |     |             | 55          |             | 3.1             | 120            | 1     | 60 | MANUF. | UNIT MTD.   | NON-FUSED   | NEMA 1      | N           | 1" MERV-13     | 48                | 29                      | 10                                 | -     | -    | -   | -                    | -           | 155          | TRANE        | FC-J-B-060 | SEE NOTES BELOW |             |             |             |                |                   |          |      |            |            |
| FCU-B       | HORIZONTAL CONCEALED | FRONT DUCT COLLAR | REAR DUCT COLLAR | TOP DUCT COLLAR  | 600                  | RE: PLANS                  | 0.30        | 1           | 1             | 0.22           | 0.21            | CENTRIFUGAL | DIRECT     | ECM          | AT MOTOR         | -                                              | -             | -         | X                       | WATER | 4    | 18.9 | 14.9 | 3.1   | 44          | 56  | 80          | 67                                         | 57          | 56          | 4.7         | WATER          | 4     |      | 3.1 |     |             | 55          |             | 3.1             | 120            | 1     | 60 | MANUF. | UNIT MTD.   | NON-FUSED   | NEMA 1      | N           | 1" MERV-13     | 47                | 10                      | 25                                 | -     | -    | -   | -                    | -           | 139          | TRANE        | FC-C-B-060 | SEE NOTES BELOW |             |             |             |                |                   |          |      |            |            |

NOTES:

1. PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR ALL UNITS WITH OUTSIDE AIR INTAKE CONNECTIONS:

1.1. 2-POSITION OUTSIDE AIR MOTORIZED DAMPER AND ACTUATOR, "OPEN" POSITION FIELD ADJUSTABLE FROM 0-50%.

2. PROVIDE THE FOLLOWING FACTORY SUPPLIED FEATURES AND OPTIONS FOR ALL FLOOR-MOUNTED UNITS:

2.1. SUB-B-BASE, 4" HIGH.

3. PROVIDE THE FOLLOWING FIELD SUPPLIED OPTIONS FOR ALL UNITS:

3.1. AUTOMATIC TEMPERATURE CONTROLS SUB-CONTRACTOR TO FURNISH AND FIELD-INSTALL BMS CONTROLS, CONTROL VALVES, AND CONTROL WIRING.

4. FINISH COLOR SHALL BE "STONE GREY" FOR FCU-A AND FCU-B. SUBMIT COLOR CHART FOR APPROVAL.

1. PROVIDE THE FOLLOWING FACTORY-SUPPLIED FEATURES AND OPTIONS FOR ALL UNITS: FLANGED TYPE CONNECTIONS.

| DESIGNATION | DISCHARGE | HEAD AT  | SHUT-OFF | RESERVOIR | WEIGHT | MAX     | MOTOR | ELECTRICAL DATA |    |     |            |      |         |       | MANUFACTURER | MODEL     | REMARKS         |
|-------------|-----------|----------|----------|-----------|--------|---------|-------|-----------------|----|-----|------------|------|---------|-------|--------------|-----------|-----------------|
|             | FLOWRATE  | DESIGN   | HEAD     | CAPACITY  | (LBS)  | FLUID   | VOLTS | PH              | HZ | FLA | DISCONNECT |      |         | EMER. |              |           |                 |
|             | (GPH)     | FLOWRATE | (FT-WC)  | (GAL)     | TEMP.  | BY E.C. |       |                 |    |     | ENCL.      | PWR. |         |       |              |           |                 |
|             |           | (FT-WC)  |          |           |        | (°F)    | HP    |                 |    |     |            |      | OR TYPE | (Y/N) |              |           |                 |
| CP-A        | 80        | 18       | 20       | 1.0       | 15     | 140     | 1/30  | 120             | 1  | 60  | 1.5        | E.C. | NEMA 1  | N     | LITTLE GIANT | VCCA-20-P | SEE NOTES BELOW |

**NOTES:**

1. PROVIDE THE FOLLOWING FACTORY FEATURES AND OPTIONS:

- 1.1. UL 2043 PLENUM RATED, NON-COMBUSTIBLE CONSTRUCTION.
- 1.2. CAST ALUMINUM RESERVOIR.
- 1.3. STAINLESS STEEL SHAFT.
- 1.4. AUXILIARY SWITCH.
- 1.5. THERMAL OVERLOAD PROTECTOR.

1.6. HARD-WIRED, NO CORD OR PLUG.

1.7. FILTER SCREEN.

2. PROVIDE THE FOLLOWING FIELD ACCESSORIES:

- 2.1. CHECK VALVE.
- 2.2. BALL VALVE.

3. REFER TO PLANS FOR QUANTITIES AND LOCATIONS.

| DESIGNATION | LOCATION               | CONFIGURATION | GPM | FLUID TYPE           | MAX. WORKING TEMPERATURE (°F) | MAX. WORKING PRESSURE (PSI) | ASME SEC. VII DIV. 1 RATED (Y/N) | INTERNAL STRAINER (Y/N) | FLUID INLET & OUTLET SIZE (IN) | FLUID INLET & OUTLET CONFIG. | AIR OUTLET SIZE (IN) | AIR OUTLET CONFIG. | DRAIN SIZE (IN) | DRAIN CONFIG. | MANUFACTURER | MODEL | REMARKS         |
|-------------|------------------------|---------------|-----|----------------------|-------------------------------|-----------------------------|----------------------------------|-------------------------|--------------------------------|------------------------------|----------------------|--------------------|-----------------|---------------|--------------|-------|-----------------|
| AS-AH-HW-1  | ANNE HUTCH BOILER ROOM | VORTEX        | 430 | WATER                | 375                           | 165                         | Y                                | N                       | 6                              | 150# FLANGE                  | 1-1/2                | NPT                | 1               | NPT           | ARMSTRONG    | VA-6  | SEE NOTES BELOW |
| AS-AH-DTW-1 | ANNE HUTCH BOILER ROOM | VORTEX        | 300 | WATER                | 375                           | 165                         | Y                                | N                       | 5                              | 150# FLANGE                  | 1-1/2                | NPT                | 1               | NPT           | ARMSTRONG    | VA-5  | SEE NOTES BELOW |
| AS-AH-GL-1  | ANNE HUTCH BOILER ROOM | VORTEX        | 330 | 35% PROPYLENE GLYCOL | 375                           | 165                         | Y                                | N                       | 5                              | 150# FLANGE                  | 1-1/2                | NPT                | 1               | NPT           | ARMSTRONG    | VA-5  | SEE NOTES BELOW |

NOTES:

1. PROVIDE AN AUTOMATIC AIR REMINATOR FOR EACH AIR SEPARATOR, ARMSTRONG MODEL AA-750, WITH 250°F MAXIMUM OPERATING TEMPERATURE, 2-133 PSIG AIR PRESSURE OPERATING RANGE, 100% SPRING ACTION POSITIVE SHUTOFF, 3/4" NPT SYSTEM CONNECTION.

| DESIGNATION | LOCATION                    | CONFIGURATION | TANK VOLUME (GAL) | ACCEPTANCE VOLUME (GAL) | MAX. WORKING TEMPERATURE (°F) | MAX. WORKING PRESSURE (PSI) | ASME SEC. DIV. 1 RATED (Y/N) | SYSTEM CONN. SIZE (IN) | SYSTEM CONN. CONFIG. | CHARGING VALVE CONN. SIZE (IN) | CHARGING VALVE CONN. CONFIG. | DRAIN PLUG SIZE (IN) | DIMENSIONS DIAMETER (IN) | DIMENSIONS HEIGHT (IN) | OPERATING WEIGHT (LBS) | MANUFACTURER | MODEL | REMARKS         |
|-------------|-----------------------------|---------------|-------------------|-------------------------|-------------------------------|-----------------------------|------------------------------|------------------------|----------------------|--------------------------------|------------------------------|----------------------|--------------------------|------------------------|------------------------|--------------|-------|-----------------|
| ET-AH-GL-1  | ANNE HUTCHINSON BOILER ROOM | FLOOR MOUNTED | 53                | 48                      | 240                           | 125                         | Y                            | 1/2                    | NPTF                 | 1/2                            | NPTF                         | 1/2                  | 24                       | 36                     | 204                    | ARMSTRONG    | 290L  | SEE NOTES BELOW |
| ET-AH-DTW-1 | ANNE HUTCHINSON BOILER ROOM | FLOOR MOUNTED | 211               | 190                     | 240                           | 125                         | Y                            | 1/2                    | NPTF                 | 1/2                            | NPTF                         | 1/2                  | 30                       | 83                     | 680                    | ARMSTRONG    | 800L  | SEE NOTES BELOW |

NOTES:

- EACH UNIT SHALL BE FACTORY PRE-CHARGED TO 12 PSIG. CALCULATE, ADJUST, AND INCREASE CHARGE IN FIELD TO MAINTAIN SYSTEM PRESSURE OF 5 PSIG AT HIGHEST POINT OF ASSOCIATED HYDROIC SYSTEM.

| DESIGNATION | LOCATION             | AREA SERVED    | SERVICE   | CONFIGURATION | DRIVE TYPE | AIRFLOW (CFM) | EXTERNAL STATIC PRESSURE (IN WC) | RPM   | MHP | ELECTRICAL DATA   |          |      |                |                   |           |         |                |                   |                 |        |   |     |           | WEIGHT (LBS) | MANUFACTURER    | MODEL | REMARKS |
|-------------|----------------------|----------------|-----------|---------------|------------|---------------|----------------------------------|-------|-----|-------------------|----------|------|----------------|-------------------|-----------|---------|----------------|-------------------|-----------------|--------|---|-----|-----------|--------------|-----------------|-------|---------|
|             |                      |                |           |               |            |               |                                  |       |     | DISCONNECT        |          |      |                | STARTER           |           |         |                | EMER. POWER (V/N) |                 |        |   |     |           |              |                 |       |         |
|             |                      |                |           |               |            |               |                                  |       |     | BY E.C. OR MANUF. | LOCATION | TYPE | ENCLOSURE TYPE | BY M.C. OR MANUF. | LOCATION  | TYPE    | ENCLOSURE TYPE |                   |                 |        |   |     |           |              |                 |       |         |
| EF-AHR-1    | ROOF                 | CLASSROOM 111  | SPILL AIR | UPBLAST       | DIRECT     | 370           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-2    | ROOF                 | CLASSROOM 115  | SPILL AIR | UPBLAST       | DIRECT     | 350           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-3    | ROOF                 | CLASSROOM 117  | SPILL AIR | UPBLAST       | DIRECT     | 355           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-4    | ROOF                 | CLASSROOM 112  | SPILL AIR | UPBLAST       | DIRECT     | 365           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-5    | ROOF                 | CLASSROOM 114  | SPILL AIR | UPBLAST       | DIRECT     | 365           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-6    | ROOF                 | CLASSROOM 116  | SPILL AIR | UPBLAST       | DIRECT     | 360           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-7    | ROOF                 | CLASSROOM 118  | SPILL AIR | UPBLAST       | DIRECT     | 355           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-8    | ROOF                 | BAND ROOM 225  | SPILL AIR | UPBLAST       | DIRECT     | 370           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-9    | ROOF                 | CLASSROOM 223  | SPILL AIR | UPBLAST       | DIRECT     | 355           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-10   | ROOF                 | CLASSROOM 223A | SPILL AIR | UPBLAST       | DIRECT     | 330           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-11   | ROOF                 | CLASSROOM 221  | SPILL AIR | UPBLAST       | DIRECT     | 390           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-12   | ROOF                 | LIBRARY 222    | SPILL AIR | UPBLAST       | DIRECT     | 390           | 0.25                             | 1,550 | 110 | 115               | 1        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | MANUF.         | INTEGRAL TO MOTOR | ECM             | NEMA 1 | N | 40  | GREENHECK | CUE-080-VG   | SEE NOTES BELOW |       |         |
| EF-AHR-R-13 | MECHANICAL PENTHOUSE | CLASSROOMS     | SPILL AIR | UTILITY SET   | BELT       | 7,400         | 2.00                             | 2,177 | 1   | 208               | 3        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | M.C.           | WALL MOUNTED      | VFD WBYPASS     | NEMA 1 | N | 554 | GREENHECK | USF-324-B-X  | SEE NOTES BELOW |       |         |
| EF-AHR-R-14 | MECHANICAL PENTHOUSE | DRESSING ROOMS | EXHAUST   | UTILITY SET   | BELT       | 1,100         | 2.00                             | 2,177 | 1   | 208               | 3        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | M.C.           | WALL MOUNTED      | CONST. SPD WHOA | NEMA 1 | N | 159 | GREENHECK | USF-212-B-X  | SEE NOTES BELOW |       |         |
| EF-AHR-TX1  | MECHANICAL PENTHOUSE | TOILET ROOMS   | EXHAUST   | UTILITY SET   | BELT       | 1,600         | 2.00                             | 2,177 | 1   | 208               | 3        | 60   | MANUF.         | UNIT MTD.         | NON-FUSED | NEMA-3R | M.C.           | WALL MOUNTED      | CONST. SPD WHOA | NEMA 1 | N | 159 | GREENHECK | USF-212-B-X  | SEE NOTES BELOW |       |         |

NOTES:

- PROVIDE THE FOLLOWING FOR EACH ROOFTOP FAN:
  - 12" HIGH ROOF CURB. ROOF HEIGHT MEASURED FROM TOP OF ROOF SURFACE. INCREASE CURB HEIGHT AS NEEDED FOR ROOF INSULATION THICKNESS.
  - MOTORIZED BACKDRAFT DAMPER
  - ECM MOTOR CONTROLLER INTEGRAL TO FAN MOTOR, WITH CONTACTS SUITABLE FOR BMS TIE-IN, GREENHECK "VARI-GREEN" OR EQUAL.
- PROVIDE THE FOLLOWING FOR EACH UTILITY SET FAN:
  - MOTORIZED BACKDRAFT DAMPER
  - MOTOR HOOD, ACCESS DOOR, BELT COVER.

| DESIGNATION | LOCATION                         | CONSTRUCTION DATA |                            |                  |                                |                                    |                                        |                                           |                                   |                                    |                        |                        |                                 |                             |                                                 | APPROACH<br>TEMP. (°F) | HEAT<br>TRANSFER<br>(MBH) | SOURCE SIDE                |                                  |                                          |                         |                                |                                 |               |                          |                |                | LOAD SIDE                          |               |                |   |     |      |      |      |       |    | OPERATING<br>WEIGHT<br>(LBS) | MANUFACTURER | MODEL   | REMARKS      |                    |
|-------------|----------------------------------|-------------------|----------------------------|------------------|--------------------------------|------------------------------------|----------------------------------------|-------------------------------------------|-----------------------------------|------------------------------------|------------------------|------------------------|---------------------------------|-----------------------------|-------------------------------------------------|------------------------|---------------------------|----------------------------|----------------------------------|------------------------------------------|-------------------------|--------------------------------|---------------------------------|---------------|--------------------------|----------------|----------------|------------------------------------|---------------|----------------|---|-----|------|------|------|-------|----|------------------------------|--------------|---------|--------------|--------------------|
|             |                                  | PLATE<br>MATERIAL | PLATE<br>THICKNESS<br>(MM) | SEAL<br>MATERIAL | SINGLE<br>OR<br>DOUBLE<br>WALL | POTABLE<br>WATER<br>RATED<br>(Y/N) | MAX.<br>OPERATING<br>PRESSURE<br>(PSI) | MAX.<br>DIFFERENTIAL<br>PRESSURE<br>(PSI) | MAX.<br>TEST<br>PRESSURE<br>(PSI) | MAX.<br>OPERATING<br>TEMP.<br>(°F) | ASME<br>RATED<br>(Y/N) | AHRI<br>RATED<br>(Y/N) | DESIGN<br>DUTY<br>MARGIN<br>(%) | DESIGN<br>FOULING<br>FACTOR | SURFACE<br>AREA WITH<br>DUTY MARGIN<br>(SQ.FT.) |                        |                           | DESIGN<br>NO. OF<br>PLATES | SPACE<br>FOR<br>FUTURE<br>PLATES | SERVICE                                  | FLUID                   | INLET<br>PIPE<br>CONN.<br>(IN) | OUTLET<br>PIPE<br>CONN.<br>(IN) | FLOW<br>(GPM) | PRESS.<br>DROP.<br>(PSI) | E.W.T.<br>(°F) | L.W.T.<br>(°F) | LENGTH<br>(IN)                     | WIDTH<br>(IN) | HEIGHT<br>(IN) |   |     |      |      |      |       |    |                              |              |         |              |                    |
| PFHX-AH-1   | ELEMENTARY SCHOOL<br>BOILER ROOM | 304 SS            | 0.4                        | EPDM             | SINGLE                         | NO                                 | 150                                    | 150                                       | 195                               | 320                                | Y                      | Y                      | 10                              | 0.00011                     | 2124.5                                          | 389                    | 118                       | 2.0                        | 1,808                            | ELEMENTARY SCHOOL<br>CHILLER GLYCOL LOOP | 35% PROPYLENE<br>GLYCOL | 4                              | 4                               | 330           | 2.97                     | 42.0           | 54.0           | ELEMENTARY SCHOOL<br>CHILLED WATER | WATER         | 4              | 4 | 300 | 2.06 | 56.0 | 44.0 | 100.8 | 20 | 73                           | 4254         | WESSELS | AWP47-96-389 | SEE NOTES<br>BELOW |

NOTES:  
1. PROVIDE FRAME WITH FUTURE EXPANSION CAPACITY FOR 25% ADDITIONAL PLATES, UNLESS OTHERWISE NOTED.  
2. ALL PIPE CONNECTIONS SHALL BE ON FRONT FACE.