



Heating and Air Conditioning

Technical Guide

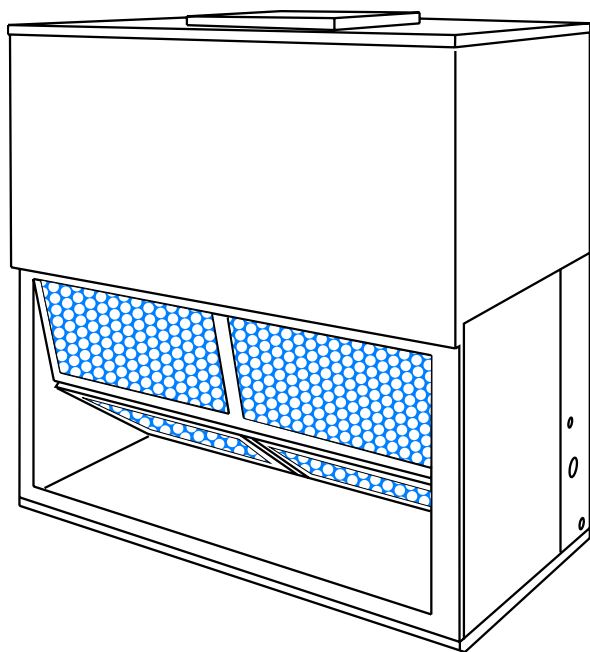
SPLIT-SYSTEM

EVAPORATOR BLOWERS

K2EU060, K4EU090, K3EU120 &

K3EU180

5 THRU 15 NOMINAL TONS



DESCRIPTION

These completely assembled units include a well-insulated cabinet, a DX cooling coil with copper tubes and aluminum fins, expansion valve(s), distributor(s), throwaway filters, a centrifugal blower, a blower motor, an adjustable belt drive, a blower motor contactor and a small holding charge of refrigerant-22.

The units are shipped in the vertical position ready for field installation. They can be installed for horizontal operation by reversing the position of the solid bottom panel with the return air duct flange on the front of the unit.

ACCESSORIES—FIELD INSTALLED

SUPPLY AIR PLENUMS

These fully insulated plenums are available for free standing units located within the conditioned space, are shipped knocked-down for easy field assembly, are finished to match the exterior of the basic unit, and have double deflection grills that can be adjusted to vary the throw, spread and drop of the supply air.

RETURN AIR GRILLS

These expanded metal grills are available for free standing units located within the conditioned space, are finished to match the exterior of the basic unit and are shipped in one piece for easy installation.

BASES

Bases are available to raise vertical units above the floor. Outdoor air may be introduced through these bases by cutting an access opening to accommodate the outdoor air duct connection. These bases are finished to match the exterior of the basic unit. They may have to be insulated in the field for certain applications.

THREE-PHASE ELECTRIC HEATERS

Electric heaters are available in several capacities to provide maximum flexibility. Both the air conditioning unit and the heater can be selected to precisely match the cooling and heating requirements of the conditioned space. These heaters are designed for easy field installation over the supply air opening of the unit. They have been tested by and will be shipped with a CSA label. Every heater will be fully protected against excessive current and temperature by fuses and two high limit thermostats.

Units with electric heat will require only one power supply for both the heating elements and the supply air blower motor, and the power wiring can be protected by either dual element/time delay fuses or an inverse time circuit breaker.

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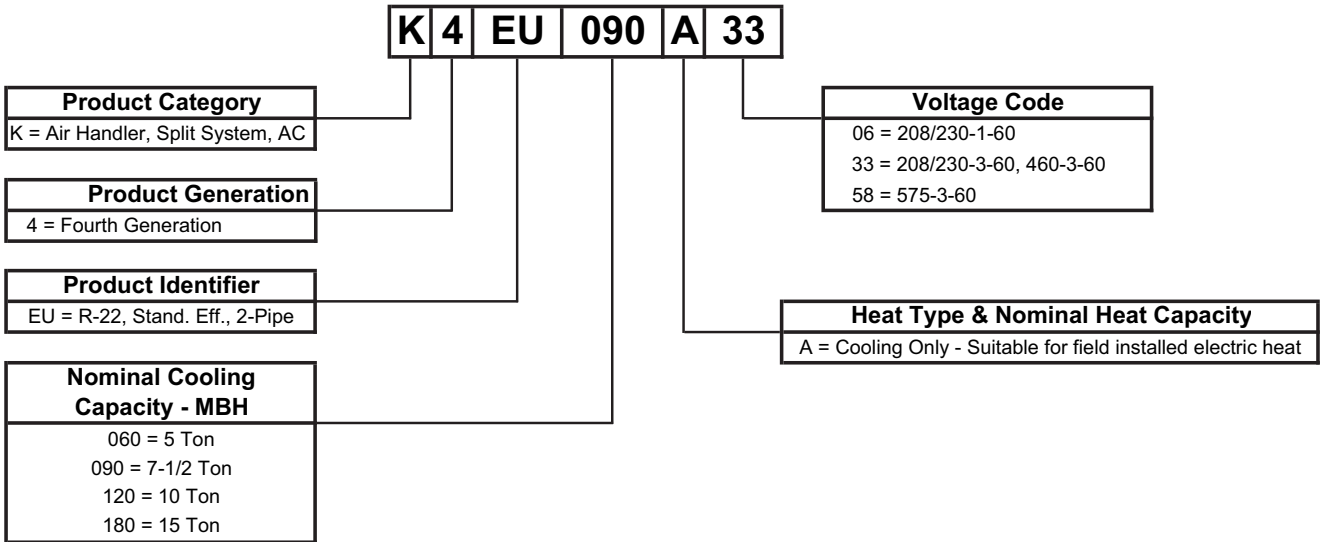
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NOMENCLATURE

York Indoor Split System Product Nomenclature



ACCESSORIES-FIELD INSTALLED (CONT.)

HOT WATER COILS

These drainable coils have 2 rows of 1/2" copper tubes, 12 aluminum fins per inch, a casing that is finished to match the exterior of the basic unit, but no water control valve. The coils slide out of their casings for easy field installation. They should be mounted over the return air opening on 5, 7-1/2 and 10-ton units—between the unit coil and blower sections on 15-ton units.

STEAM COILS

These non-freeze coils have 1 row of 1" copper tubes, a 5/8" copper tube inside each 1" tube to distribute the steam evenly across the entire length of the coil, 8 aluminum fins per inch, a casing that is finished to match the exterior of the basic unit,

but no steam control valve. The coils slide out of their casings for easy field installation and are pitched in their casings to facilitate condensate drainage. They should be mounted over the return air opening on 5, 7-1/2 and 10-ton units—between the unit coil and blower sections on 15-ton units.

SUSPENSION KIT

Suspension kit 1HH0451 is available for 15-ton units installed horizontally. The accessory includes two channel iron supports and the hardware to secure them to the top of the unit. The hanger rods must be supplied by the field.

THERMOSTATS

Wall-mounted thermostats and subbases (24-volt) with system and fan switches are available to control the operation of these split system air conditioners.

APPLICATION FLEXIBILITY

MODELS 5, 7-1/2 & 10 TON

These units are built in a single cabinet with two condensate drain pans. This allows the units to be installed in either the vertical or horizontal position for maximum flexibility.

On vertical applications, the air velocity across the cooling coil keeps the condensate from dripping off the finned surface onto the filters.

On horizontal applications, the unit must be installed with the condensate drain pan under the entire cooling coil.

- The Supply Air Plenum and the Return Air Grill accessories can be used on either arrangement.
- The Base accessory can only be used on the vertical arrangement.

Units installed horizontally are designed for ceiling suspension. Four 3/8"-16 weld nuts are provided in the angle supports on the front of the unit (the side with the logo). Knockouts are provided in the exterior panels for access to these weld nuts. The hanger rods must be supplied in the field.

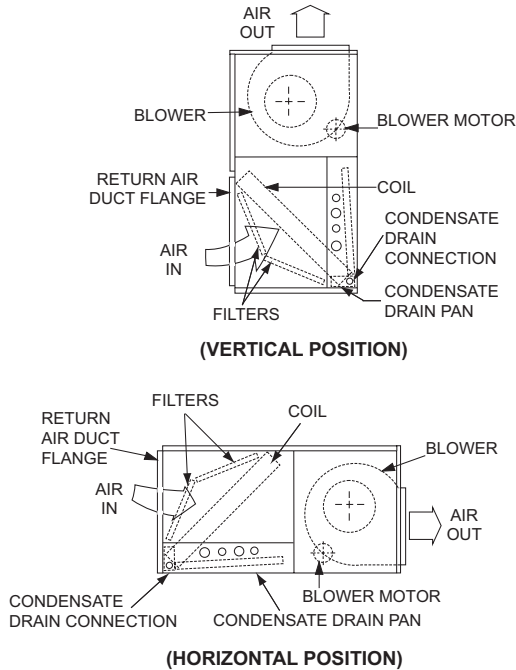


FIGURE 1 - VERTICAL AND HORIZONTAL APPLICATION KEU060, 090 & 120

MODEL 15 TON

These units have two distinct modules . . . a blower module and a coil module. Although the unit is always shipped in the vertical position with a vertical air discharge as shown in illustration (a), the blower module can be repositioned in the field as shown in illustrations (b) and (c) for maximum flexibility.

- The Supply Air Plenum, Return Air Grill and Base accessories can be applied on arrangement (a).
- The Return Air Grill and Base accessories can be applied on arrangement (b).
- The Supply Air Plenum, Return Air Grill and Suspension accessories can be applied on arrangement (c).

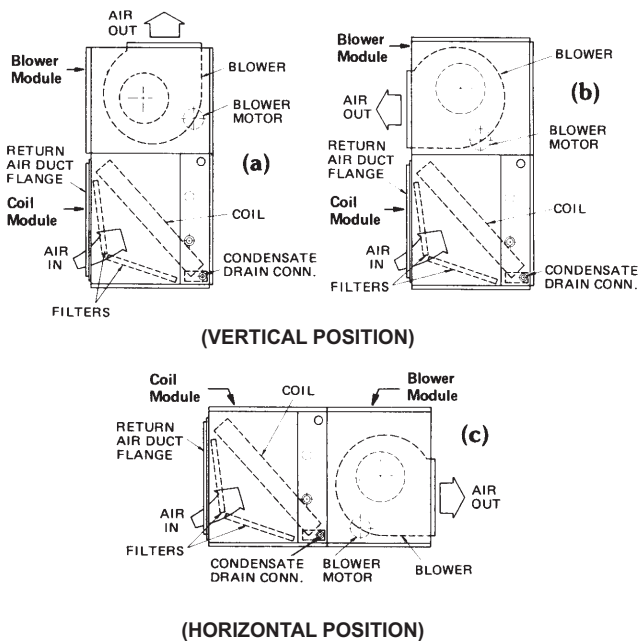


FIGURE 2 - VERTICAL AND HORIZONTAL APPLICATION KEU180

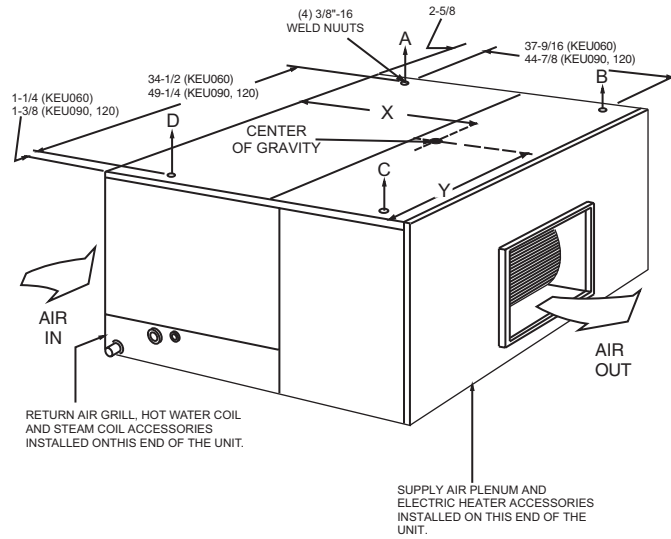


FIGURE 3 - SUSPENSION MOUNTING (HORIZONTAL) - KEU060, 090 AND 120

TABLE 1: UNIT SUSPENSION MOUNTING (HORIZONTAL APPLICATION) WEIGHTS

| Unit Model | Shipping Weight (lb) | Operating Weight (lb) | CG (in) | | 4-Point Loading (lb) | | | |
|------------|----------------------|-----------------------|---------|-------|----------------------|----|-----|-----|
| | | | X | Y | A | B | C | D |
| K*EU060 | 225 | 210 | 22.50 | 15.00 | 47 | 51 | 58 | 53 |
| K*EU090 | 340 | 235 | 26.50 | 24.00 | 78 | 84 | 84 | 78 |
| K*EU120 | 370 | 355 | 26.50 | 24.00 | 86 | 92 | 92 | 86 |
| K*EU180 | 440 | 425 | 26.50 | 24.00 | 104 | 77 | 104 | 141 |

TABLE 2: KEU OPERATING WEIGHTS (LBS.)

| MODEL | | 060 | 090 | 120 | 180 | |
|--------------------|-------------------|-------|-----|-----|-----|--|
| BASIC UNIT | (Cooling Only) | 210 | 325 | 325 | 425 | |
| ACCESSORIES | Base | 45 | 55 | 55 | 65 | |
| | Return Air Grill | 10 | 15 | 15 | 20 | |
| | Supply Air Plenum | 90 | 100 | 100 | 115 | |
| | Hot Water Coil | 70 | 105 | 105 | 135 | |
| | Steam Coil | 80 | 115 | 115 | 145 | |
| | Electric Heater | 10 KW | 66 | | | |
| | | 16 KW | 70 | | | |
| | | 26 KW | 74 | | | |
| 36 KW | | 77 | | | | |
| 72 KW | | 125 | | | | |

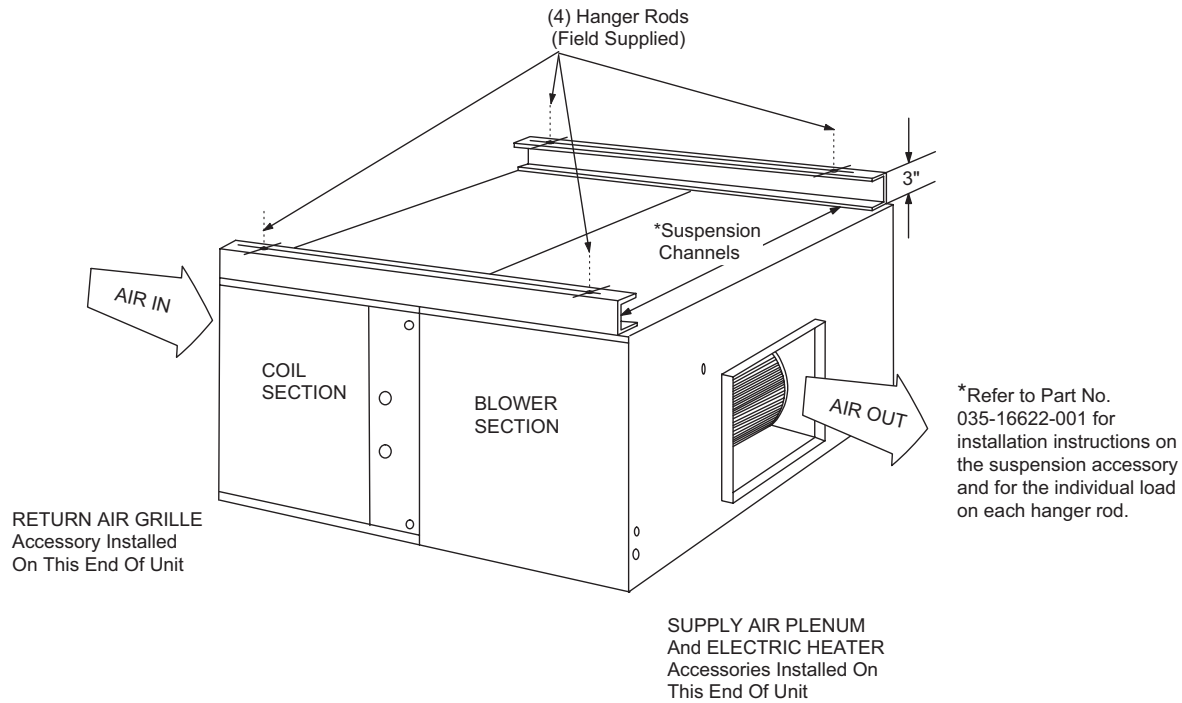


FIGURE 4 - SUSPENSION ACCESSORY (HORIZONTAL) - KEU180

TABLE 3: SOUND POWER RATINGS

| UNIT MODEL | CFM | ESP | BLOWER | | SOUND POWER (dB 10 ⁻¹² WATTS) | | | | | | | | | | | |
|------------|-------|------|--------|------|--|-----|-----|----|-----|-----|-----|-------|-------|-------|-----------|-----------------------------------|
| | | | | | OCTAVE BAND CENTERLINE FREQUENCY (HZ) | | | | | | | | | | SWL dB(a) | dB(A) @ 10 FT. ¹ |
| | | | | | IWG | RPM | BHP | 63 | 125 | 250 | 500 | 1,000 | 2,000 | 4,000 | | |
| 060 | 2,000 | 0.50 | 940 | 0.70 | 88 | 88 | 78 | 71 | 73 | 66 | 61 | 56 | 77 | 44 | | |
| 090 | 3,000 | 0.60 | 750 | 1.05 | 88 | 88 | 78 | 73 | 71 | 66 | 61 | 56 | 77 | 45 | | |
| 120 | 4,000 | 0.70 | 850 | 1.75 | 91 | 91 | 81 | 74 | 76 | 69 | 64 | 59 | 81 | 48 | | |
| 180 | 6,000 | 0.75 | 750 | 2.75 | 95 | 95 | 85 | 80 | 78 | 73 | 68 | 63 | 84 | 52 | | |

1. At a distance of 10 feet from the blower.

NOTE: These values have been accessed using a model of sound propagation from a point source into the hemispheric free field. The dBA values provided are for reference only. Calculation of dBA values cover matters of system design and the fan manufacturer has no way of knowing the details of each system. This constitutes an exception to any specification or guarantee requiring a dBA value or sound data in any other form than sound power level ratings.

TABLE 4: HEATING CAPACITY - ELECTRIC HEAT ACCESSORY

| UNIT MODEL | HEATER MODEL | | VOLTAGE TEST | NOMINAL RATINGS ¹ | | CAPACITY | | | |
|------------|--------------|----|------------------------|------------------------------|------|-----------|------|-----------|------|
| | | | | | | 1ST STAGE | | 2ND STAGE | |
| | | | | KW | MBH | KW | MBH | KW | MBH |
| 060 | 2HT045010 | 25 | 208 / 240 ² | 10 | 34.2 | 10 | 34.2 | - | - |
| | 2HT045016 | 25 | 208 / 240 ² | 16 | 54.7 | 10 | 34.2 | 6 | 20.5 |
| | 2HT045026 | 25 | 208 / 240 ² | 26 | 88.9 | 16 | 54.7 | 10 | 34.2 |
| 090, 120 | 2HS045010 | 25 | 208 / 240 ² | 10 | 34.2 | 10 | 34.2 | - | - |
| | | 46 | 480 ³ | | | | | | |
| | | 58 | 600 ⁴ | | | | | | |
| | 2HS045016 | 25 | 208 / 240 ² | 16 | 54.7 | 10 | 34.2 | 6 | 20.5 |
| | | 46 | 480 ³ | | | | | | |
| | | 58 | 600 ⁴ | | | | | | |
| | 2HS045026 | 25 | 208 / 240 ² | 26 | 88.9 | 16 | 54.7 | 10 | 34.2 |
| | | 46 | 480 ³ | | | | | | |
| | | 58 | 600 ⁴ | | | | | | |
| | 2HS045036 | 25 | 208 / 240 ² | 36 | 123 | 16 | 54.7 | 20 | 68.3 |
| | | 46 | 480 ³ | | | | | | |
| | | 58 | 600 ⁴ | | | | | | |
| 180 | 2HS045010 | 25 | 208 / 240 ² | 10 | 34.2 | 10 | 34.2 | - | - |
| | | 46 | 280 ³ | | | | | | |
| | | 58 | 600 ⁴ | | | | | | |
| | 2HS045016 | 25 | 208 / 240 ² | 16 | 54.7 | 10 | 34.2 | 6 | 20.5 |
| | | 46 | 280 ³ | | | | | | |
| | | 58 | 600 ⁴ | | | | | | |
| | 2HS045026 | 25 | 208 / 240 ² | 26 | 88.9 | 16 | 54.7 | 10 | 34.2 |
| | | 46 | 280 ³ | | | | | | |
| | | 58 | 600 ⁴ | | | | | | |
| | 2HS045036 | 25 | 208 / 240 ² | 36 | 123 | 16 | 54.7 | 20 | 68.3 |
| | | 46 | 280 ³ | | | | | | |
| | | 58 | 600 ⁴ | | | | | | |
| | 2HS045072 | 25 | 208 / 240 ² | 72 | 246 | 36 | 123 | 36 | 123 |
| | | 46 | 280 ³ | | | | | | |
| | | 58 | 600 ⁴ | | | | | | |

1. Capacity Ratings do not include the heat generated by the air blower motor.
2. For 208 volts, multiply the MBH and KW by $(208/240)^2$ or 0.751.
For 230 volts, multiply the MBH and KW by $(230/240)^2$ or 0.918.
3. For 460 volts, multiply the MBH and KW by $(460/480)^2$ or 0.918.
4. For 575 volts, multiply the MBH and KW by $(575/600)^2$ or 0.918.

TABLE 5: STEAM COIL CAPACITY¹, MBH@2 PSIG²

| STEAM COIL MODEL | UNIT MODEL | CFM | DRY BULB TEMPERATURE OF AIR ENTERING COIL, °F | | | |
|------------------|------------|------|---|-------|-------|-------|
| | | | 10 | 30 | 50 | 70 |
| 1NF0450 | 060 | 1600 | 104.0 | 94.0 | 83.9 | 73.9 |
| | | 2000 | 115.2 | 104.0 | 93.1 | 81.9 |
| | | 2400 | 124.9 | 113.0 | 100.9 | 89.0 |
| 1NF0451 | 090 | 2400 | 172.2 | 155.5 | 139.1 | 122.4 |
| | | 3000 | 191.2 | 172.6 | 154.3 | 136.0 |
| | | 3600 | 207.5 | 187.1 | 167.4 | 147.4 |
| | 120 | 3200 | 196.4 | 177.6 | 158.8 | 140.0 |
| | | 4000 | 217.3 | 195.3 | 175.3 | 154.8 |
| | | 4800 | 236.1 | 212.9 | 190.4 | 167.8 |
| 1NF0452 | 180 | 4800 | 298.2 | 268.4 | 236.7 | 211.5 |
| | | 6000 | 329.1 | 297.0 | 265.6 | 234.1 |
| | | 7200 | 356.4 | 321.8 | 287.9 | 254.0 |

1. These capacities do not include any blower motor heat.
2. Multiply these capacities by the following factors to correct for higher steam pressures.

| Steam Pressure, psig | 5 | 10 | 15 | 20 | 25 |
|----------------------------|------|------|------|------|------|
| Capacity correction factor | 1.05 | 1.12 | 1.19 | 1.25 | 1.30 |

NOTE: Steam rate (lb./hr.) = 1.025 x MBH

CAUTION: Do NOT operate a motor above its nominal HP rating when a unit is equipped with a steam coil accessory.

TABLE 6: HOT WATER CAPACITY¹, MBH

| WATER COIL MODEL | UNIT MODEL | GPM | CFM | ENTERING WATER TEMP. MINUS ENTERING AIR TEMP., °F | | | | |
|------------------|------------|-----|------|---|-------|-------|-------|-------|
| | | | | 70 | 90 | 110 | 130 | 150 |
| 1HW0450 | 060 | 10 | 1600 | 46.5 | 60.4 | 74.6 | 89.0 | 101.8 |
| | | | 2000 | 51.7 | 67.2 | 83.0 | 99.2 | 113.4 |
| | | | 2400 | 56.0 | 73.0 | 90.4 | 107.9 | 123.3 |
| 1HW0451 | 090 | 15 | 2400 | 78.0 | 101.3 | 124.7 | 148.5 | 169.7 |
| | | | 3000 | 87.7 | 113.3 | 139.6 | 166.6 | 190.4 |
| | | | 3600 | 95.5 | 124.0 | 153.0 | 182.1 | 208.1 |
| | 120 | 15 | 3200 | 90.3 | 117.1 | 144.6 | 172.1 | 196.6 |
| | | | 4000 | 100.2 | 130.2 | 160.7 | 191.3 | 218.6 |
| | | | 4800 | 108.3 | 140.9 | 174.3 | 207.5 | 237.4 |
| 1HW0452 | 180 | 20 | 4800 | 135.5 | 175.1 | 215.8 | 257.4 | 294.1 |
| | | | 6000 | 150.0 | 195.0 | 240.3 | 285.9 | 326.6 |
| | | | 7200 | 162.4 | 210.8 | 260.4 | 309.8 | 354.3 |

1. These capacities do no include any blower motor heat.
- NOTE: Water Temperature Drop, °F = 2 x MBH
 CAUTION: Do NOT operate a motor above its nominal HP rating when a unit is equipped with a hot water coil accessory.

TABLE 7: PRESSURE DROP VS. GPM

| | | | | |
|---------|--------------------|-----|-----|------|
| 1HW0450 | GPM | 10 | 20 | 30 |
| | Pressure Drop, PSI | .10 | .32 | .67 |
| 1HW0451 | GPM | 15 | 30 | 45 |
| | Pressure Drop, PSI | .17 | .58 | 1.22 |
| 1HW0452 | GPM | 20 | 40 | 60 |
| | Pressure Drop, PSI | .20 | .67 | 1.41 |

TABLE 8: CAPACITY CORRECTION VS. GPM

| | | | |
|---------|---------------------|------|------|
| 1HW0450 | GPM | 20 | 30 |
| | Capacity Correction | 1.12 | 1.16 |
| 1HW0451 | GPM | 30 | 45 |
| | Capacity Correction | 1.11 | 1.15 |
| 1HW0452 | GPM | 40 | 60 |
| | Capacity Correction | 1.12 | 1.17 |

TABLE 9: SUPPLY AIR BLOWER PERFORMANCE - KEU060 (5 TON)

| CFM | EXTERNAL STATIC PRESSURE | | | | | | | | | | | |
|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 0.2 | | | 0.4 | | | 0.6 | | | 0.8 | | |
| | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP |
| 1400 | 677 | 74 | 0.08 | 753 | 174 | 0.19 | 831 | 268 | 0.29 | 912 | 355 | 0.38 |
| 1600 | 725 | 225 | 0.24 | 801 | 325 | 0.35 | 879 | 419 | 0.45 | 959 | 506 | 0.54 |
| 1800 | 773 | 366 | 0.39 | 849 | 466 | 0.50 | 927 | 560 | 0.60 | 1008 | 647 | 0.69 |
| 2000 | 822 | 507 | 0.54 | 898 | 607 | 0.65 | 975 | 701 | 0.75 | 1056 | 789 | 0.85 |
| 2200 | 871 | 657 | 0.70 | 947 | 757 | 0.81 | 1025 | 851 | 0.91 | 1106 | 938 | 1.01 |
| 2400 | 922 | 818 | 0.88 | 997 | 918 | 0.99 | 1075 | 1012 | 1.09 | 1156 | 1100 | 1.18 |
| 2600 | 972 | 994 | 1.07 | 1048 | 1094 | 1.17 | 1126 | 1188 | 1.27 | 1207 | 1276 | 1.37 |
| 2800 | 1024 | 1187 | 1.27 | 1100 | 1286 | 1.38 | 1178 | 1380 | 1.48 | 1258 | 1468 | 1.57 |
| 3000 | 1076 | 1395 | 1.50 | 1152 | 1495 | 1.60 | 1230 | 1589 | 1.70 | 1311 | 1677 | 1.80 |
| 3200 | 1129 | 1622 | 1.74 | 1205 | 1721 | 1.85 | 1283 | 1815 | 1.95 | ---- | ---- | ---- |

| CFM | EXTERNAL STATIC PRESSURE | | | | | | | | | | | |
|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1.0 | | | 1.2 | | | 1.4 | | | 1.6 | | |
| | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP |
| 1400 | 997 | 435 | 0.47 | 1086 | 507 | 0.54 | 1181 | 570 | 0.61 | 1282 | 622 | 0.67 |
| 1600 | 1044 | 586 | 0.63 | 1134 | 658 | 0.71 | 1228 | 721 | 0.77 | 1329 | 774 | 0.83 |
| 1800 | 1092 | 727 | 0.78 | 1182 | 799 | 0.86 | 1276 | 861 | 0.92 | 1377 | 914 | 0.98 |
| 2000 | 1141 | 869 | 0.93 | 1230 | 940 | 1.01 | 1325 | 1003 | 1.08 | 1426 | 1056 | 1.13 |
| 2200 | 1191 | 1018 | 1.09 | 1280 | 1090 | 1.17 | 1375 | 1153 | 1.24 | 1476 | 1205 | 1.29 |
| 2400 | 1241 | 1180 | 1.27 | 1330 | 1251 | 1.34 | 1425 | 1314 | 1.41 | 1526 | 1367 | 1.47 |
| 2600 | 1292 | 1356 | 1.45 | 1381 | 1427 | 1.53 | 1476 | 1490 | 1.60 | 1577 | 1543 | 1.66 |
| 2800 | 1343 | 1548 | 1.66 | 1433 | 1620 | 1.74 | 1527 | 1682 | 1.80 | 1628 | 1735 | 1.86 |
| 3000 | 1395 | 1757 | 1.88 | 1485 | 1828 | 1.96 | ---- | ---- | ---- | ---- | ---- | ---- |
| 3200 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |


 Exceeds the BHP limitation.

TABLE 10: SUPPLY AIR BLOWER PERFORMANCE - KEU090 (7.5 TON)

| CFM | EXTERNAL STATIC PRESSURE | | | | | | | | | | | |
|------|--------------------------|------|------|-----|------|------|-----|------|------|-----|------|------|
| | 0.2 | | | 0.4 | | | 0.6 | | | 0.8 | | |
| | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP |
| 2200 | 561 | 281 | 0.30 | 612 | 400 | 0.43 | 670 | 530 | 0.57 | 734 | 661 | 0.71 |
| 2400 | 579 | 414 | 0.44 | 630 | 533 | 0.57 | 688 | 663 | 0.71 | 752 | 794 | 0.85 |
| 2600 | 599 | 542 | 0.58 | 649 | 662 | 0.71 | 707 | 792 | 0.85 | 771 | 922 | 0.99 |
| 2800 | 619 | 666 | 0.71 | 670 | 786 | 0.84 | 728 | 916 | 0.98 | 792 | 1047 | 1.12 |
| 3000 | 640 | 786 | 0.84 | 691 | 905 | 0.97 | 749 | 1035 | 1.11 | 813 | 1166 | 1.25 |
| 3200 | 662 | 901 | 0.97 | 713 | 1021 | 1.10 | 771 | 1151 | 1.23 | 835 | 1282 | 1.37 |
| 3400 | 684 | 1013 | 1.09 | 735 | 1132 | 1.21 | 793 | 1262 | 1.35 | 857 | 1393 | 1.49 |
| 3600 | 706 | 1120 | 1.20 | 757 | 1239 | 1.33 | 815 | 1369 | 1.47 | 879 | 1500 | 1.61 |
| 3800 | 728 | 1223 | 1.31 | 779 | 1342 | 1.44 | 837 | 1472 | 1.58 | 900 | 1603 | 1.72 |
| 4000 | 750 | 1322 | 1.42 | 800 | 1441 | 1.55 | 859 | 1571 | 1.69 | 922 | 1702 | 1.83 |
| 4200 | 771 | 1418 | 1.52 | 822 | 1537 | 1.65 | 880 | 1667 | 1.79 | 944 | 1798 | 1.93 |
| 4400 | 792 | 1510 | 1.62 | 843 | 1629 | 1.75 | 901 | 1759 | 1.89 | 965 | 1890 | 2.03 |
| 4600 | 813 | 1599 | 1.72 | 864 | 1718 | 1.84 | 922 | 1848 | 1.98 | 986 | 1979 | 2.12 |

| CFM | EXTERNAL STATIC PRESSURE | | | | | | | | | | | |
|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1.0 | | | 1.2 | | | 1.4 | | | 1.6 | | |
| | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP |
| 2200 | 801 | 783 | 0.84 | 869 | 886 | 0.95 | 936 | 962 | 1.03 | 1000 | 999 | 1.07 |
| 2400 | 819 | 916 | 0.98 | 887 | 1019 | 1.09 | 954 | 1095 | 1.17 | 1018 | 1132 | 1.21 |
| 2600 | 838 | 1044 | 1.12 | 906 | 1148 | 1.23 | 973 | 1223 | 1.31 | 1038 | 1261 | 1.35 |
| 2800 | 859 | 1169 | 1.25 | 927 | 1272 | 1.36 | 994 | 1348 | 1.45 | 1058 | 1385 | 1.49 |
| 3000 | 880 | 1288 | 1.38 | 948 | 1392 | 1.49 | 1015 | 1467 | 1.57 | 1079 | 1505 | 1.61 |
| 3200 | 902 | 1404 | 1.51 | 970 | 1507 | 1.62 | 1037 | 1583 | 1.70 | 1101 | 1620 | 1.74 |
| 3400 | 924 | 1515 | 1.63 | 992 | 1618 | 1.74 | 1059 | 1694 | 1.82 | 1123 | 1731 | 1.86 |
| 3600 | 945 | 1622 | 1.74 | 1014 | 1725 | 1.85 | 1081 | 1801 | 1.93 | 1145 | 1838 | 1.97 |
| 3800 | 967 | 1725 | 1.85 | 1036 | 1828 | 1.96 | 1103 | 1904 | 2.04 | 1167 | 1941 | 2.08 |
| 4000 | 989 | 1824 | 1.96 | 1057 | 1928 | 2.07 | 1124 | 2003 | 2.15 | 1189 | 2041 | 2.19 |
| 4200 | 1011 | 1920 | 2.06 | 1079 | 2023 | 2.17 | 1146 | 2099 | 2.25 | 1210 | 2136 | 2.29 |
| 4400 | 1032 | 2012 | 2.16 | 1100 | 2116 | 2.27 | ---- | ---- | ---- | ---- | ---- | ---- |
| 4600 | 1052 | 2101 | 2.25 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |

 Exceeds the BHP limitation.

TABLE 11: SUPPLY AIR BLOWER PERFORMANCE - KEU120 (10 TON)

| CFM | EXTERNAL STATIC PRESSURE | | | | | | | | | | | |
|------|--------------------------|------|------|-----|------|------|------|------|------|------|------|------|
| | 0.2 | | | 0.4 | | | 0.6 | | | 0.8 | | |
| | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP |
| 2800 | 571 | 122 | 0.13 | 630 | 332 | 0.36 | 682 | 489 | 0.52 | 733 | 618 | 0.66 |
| 3000 | 595 | 349 | 0.37 | 654 | 559 | 0.60 | 706 | 716 | 0.77 | 756 | 845 | 0.91 |
| 3200 | 619 | 558 | 0.60 | 678 | 768 | 0.82 | 730 | 925 | 0.99 | 780 | 1054 | 1.13 |
| 3400 | 643 | 753 | 0.81 | 702 | 964 | 1.03 | 754 | 1120 | 1.20 | 804 | 1249 | 1.34 |
| 3600 | 667 | 939 | 1.01 | 726 | 1149 | 1.23 | 778 | 1306 | 1.40 | 829 | 1435 | 1.54 |
| 3800 | 692 | 1119 | 1.20 | 751 | 1329 | 1.43 | 803 | 1485 | 1.59 | 853 | 1614 | 1.73 |
| 4000 | 716 | 1294 | 1.39 | 775 | 1504 | 1.61 | 827 | 1661 | 1.78 | 877 | 1790 | 1.92 |
| 4200 | 740 | 1468 | 1.57 | 799 | 1678 | 1.80 | 852 | 1834 | 1.97 | 902 | 1963 | 2.11 |
| 4400 | 765 | 1641 | 1.76 | 824 | 1851 | 1.99 | 876 | 2008 | 2.15 | 926 | 2136 | 2.29 |
| 4600 | 789 | 1815 | 1.95 | 848 | 2025 | 2.17 | 900 | 2182 | 2.34 | 950 | 2310 | 2.48 |
| 4800 | 813 | 1991 | 2.14 | 872 | 2201 | 2.36 | 924 | 2357 | 2.53 | 974 | 2486 | 2.67 |
| 5000 | 837 | 2169 | 2.33 | 896 | 2380 | 2.55 | 948 | 2536 | 2.72 | 998 | 2665 | 2.86 |
| 5200 | 861 | 2352 | 2.52 | 920 | 2562 | 2.75 | 972 | 2718 | 2.92 | 1022 | 2847 | 3.05 |
| 5400 | 884 | 2538 | 2.72 | 943 | 2748 | 2.95 | 995 | 2905 | 3.12 | 1045 | 3033 | 3.25 |
| 5600 | 907 | 2728 | 2.93 | 966 | 2939 | 3.15 | 1019 | 3095 | 3.32 | 1069 | 3224 | 3.46 |

| CFM | EXTERNAL STATIC PRESSURE | | | | | | | | | | | |
|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1.0 | | | 1.2 | | | 1.4 | | | 1.6 | | |
| | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP |
| 2800 | 786 | 744 | 0.80 | 846 | 893 | 0.96 | 920 | 1092 | 1.17 | 1010 | 1364 | 1.46 |
| 3000 | 809 | 971 | 1.04 | 870 | 1121 | 1.20 | 943 | 1319 | 1.41 | 1034 | 1592 | 1.71 |
| 3200 | 833 | 1180 | 1.27 | 894 | 1329 | 1.43 | 967 | 1528 | 1.64 | 1057 | 1800 | 1.93 |
| 3400 | 857 | 1375 | 1.48 | 918 | 1525 | 1.64 | 991 | 1723 | 1.85 | 1082 | 1996 | 2.14 |
| 3600 | 882 | 1561 | 1.67 | 942 | 1711 | 1.84 | 1016 | 1909 | 2.05 | 1106 | 2182 | 2.34 |
| 3800 | 906 | 1741 | 1.87 | 967 | 1890 | 2.03 | 1040 | 2088 | 2.24 | 1130 | 2361 | 2.53 |
| 4000 | 930 | 1916 | 2.06 | 991 | 2066 | 2.22 | 1064 | 2264 | 2.43 | 1155 | 2536 | 2.72 |
| 4200 | 955 | 2090 | 2.24 | 1016 | 2239 | 2.40 | 1089 | 2437 | 2.61 | 1179 | 2710 | 2.91 |
| 4400 | 979 | 2263 | 2.43 | 1040 | 2412 | 2.59 | 1113 | 2610 | 2.80 | 1203 | 2883 | 3.09 |
| 4600 | 1003 | 2437 | 2.61 | 1064 | 2586 | 2.77 | 1137 | 2784 | 2.99 | 1228 | 3057 | 3.28 |
| 4800 | 1027 | 2613 | 2.80 | 1088 | 2762 | 2.96 | 1161 | 2960 | 3.18 | 1252 | 3233 | 3.47 |
| 5000 | 1051 | 2791 | 2.99 | 1112 | 2941 | 3.15 | 1185 | 3139 | 3.37 | ---- | ---- | ---- |
| 5200 | 1075 | 2973 | 3.19 | 1136 | 3123 | 3.35 | ---- | ---- | ---- | ---- | ---- | ---- |
| 5400 | 1098 | 3160 | 3.39 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| 5600 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |


 Exceeds the BHP limitation.

TABLE 12: SUPPLY AIR BLOWER PERFORMANCE - KEU180 (15 TON)

| CFM | EXTERNAL STATIC PRESSURE | | | | | | | | | | | |
|------|--------------------------|------|------|-----|------|------|-----|------|------|-----|------|------|
| | 0.2 | | | 0.4 | | | 0.6 | | | 0.8 | | |
| | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP |
| 4000 | 555 | 382 | 0.41 | 594 | 620 | 0.67 | 633 | 851 | 0.91 | 676 | 1085 | 1.16 |
| 4200 | 562 | 616 | 0.66 | 600 | 854 | 0.92 | 640 | 1085 | 1.16 | 683 | 1319 | 1.42 |
| 4400 | 569 | 828 | 0.89 | 608 | 1066 | 1.14 | 648 | 1297 | 1.39 | 690 | 1531 | 1.64 |
| 4600 | 577 | 1022 | 1.10 | 616 | 1260 | 1.35 | 656 | 1491 | 1.60 | 698 | 1725 | 1.85 |
| 4800 | 586 | 1202 | 1.29 | 624 | 1440 | 1.55 | 664 | 1671 | 1.79 | 707 | 1905 | 2.04 |
| 5000 | 595 | 1372 | 1.47 | 634 | 1610 | 1.73 | 673 | 1841 | 1.97 | 716 | 2075 | 2.23 |
| 5200 | 604 | 1533 | 1.64 | 643 | 1771 | 1.90 | 683 | 2002 | 2.15 | 726 | 2236 | 2.40 |
| 5400 | 614 | 1689 | 1.81 | 653 | 1927 | 2.07 | 693 | 2158 | 2.31 | 735 | 2392 | 2.57 |
| 5600 | 624 | 1841 | 1.97 | 663 | 2079 | 2.23 | 703 | 2310 | 2.48 | 745 | 2544 | 2.73 |
| 5800 | 635 | 1991 | 2.14 | 673 | 2228 | 2.39 | 713 | 2459 | 2.64 | 756 | 2694 | 2.89 |
| 6000 | 645 | 2140 | 2.30 | 684 | 2378 | 2.55 | 724 | 2609 | 2.80 | 766 | 2843 | 3.05 |
| 6200 | 656 | 2290 | 2.46 | 695 | 2528 | 2.71 | 735 | 2759 | 2.96 | 777 | 2993 | 3.21 |
| 6400 | 667 | 2442 | 2.62 | 706 | 2679 | 2.87 | 746 | 2910 | 3.12 | 788 | 3145 | 3.37 |
| 6600 | 679 | 2596 | 2.78 | 717 | 2833 | 3.04 | 757 | 3064 | 3.29 | 800 | 3299 | 3.54 |
| 6800 | 690 | 2753 | 2.95 | 729 | 2991 | 3.21 | 768 | 3222 | 3.46 | 811 | 3456 | 3.71 |
| 7000 | 701 | 2915 | 3.13 | 740 | 3153 | 3.38 | 780 | 3384 | 3.63 | 823 | 3618 | 3.88 |

| CFM | EXTERNAL STATIC PRESSURE | | | | | | | | | | | |
|------|--------------------------|------|------|-----|------|------|-----|------|------|------|------|------|
| | 1.0 | | | 1.2 | | | 1.4 | | | 1.6 | | |
| | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP | RPM | W | BHP |
| 4000 | 723 | 1333 | 1.43 | 775 | 1604 | 1.72 | 833 | 1910 | 2.05 | 900 | 2258 | 2.42 |
| 4200 | 729 | 1567 | 1.68 | 781 | 1839 | 1.97 | 840 | 2144 | 2.30 | 907 | 2493 | 2.67 |
| 4400 | 737 | 1779 | 1.91 | 789 | 2051 | 2.20 | 848 | 2356 | 2.53 | 915 | 2704 | 2.90 |
| 4600 | 745 | 1973 | 2.12 | 797 | 2245 | 2.41 | 856 | 2550 | 2.74 | 923 | 2899 | 3.11 |
| 4800 | 754 | 2153 | 2.31 | 806 | 2425 | 2.60 | 864 | 2730 | 2.93 | 931 | 3079 | 3.30 |
| 5000 | 763 | 2323 | 2.49 | 815 | 2594 | 2.78 | 873 | 2899 | 3.11 | 940 | 3248 | 3.48 |
| 5200 | 772 | 2484 | 2.66 | 824 | 2755 | 2.96 | 883 | 3061 | 3.28 | 950 | 3409 | 3.66 |
| 5400 | 782 | 2640 | 2.83 | 834 | 2911 | 3.12 | 893 | 3216 | 3.45 | 960 | 3565 | 3.82 |
| 5600 | 792 | 2792 | 2.99 | 844 | 3063 | 3.29 | 903 | 3368 | 3.61 | 970 | 3717 | 3.99 |
| 5800 | 802 | 2942 | 3.16 | 854 | 3213 | 3.45 | 913 | 3518 | 3.77 | 980 | 3867 | 4.15 |
| 6000 | 813 | 3091 | 3.32 | 865 | 3362 | 3.61 | 924 | 3667 | 3.93 | 991 | 4016 | 4.31 |
| 6200 | 824 | 3241 | 3.48 | 876 | 3512 | 3.77 | 935 | 3817 | 4.10 | 1002 | 4166 | 4.47 |
| 6400 | 835 | 3392 | 3.64 | 887 | 3664 | 3.93 | 946 | 3969 | 4.26 | 1013 | 4318 | 4.63 |
| 6600 | 846 | 3547 | 3.80 | 898 | 3818 | 4.10 | 957 | 4123 | 4.42 | 1024 | 4472 | 4.80 |
| 6800 | 858 | 3704 | 3.97 | 910 | 3976 | 4.26 | 968 | 4281 | 4.59 | 1035 | 4629 | 4.97 |
| 7000 | 869 | 3866 | 4.15 | 921 | 4137 | 4.44 | 980 | 4442 | 4.77 | 1047 | 4791 | 5.14 |

 Exceeds the BHP limitation.

TABLE 13: STATIC RESISTANCE FOR UNIT ACCESSORIES (IWG) - KEU060-120

| CFM | Electric Heat KW | | | | Supply Air Plenum | Return Air Grill | Hot Water Coil | Steam Coil |
|------|------------------|------|------|------|-------------------|------------------|----------------|------------|
| | 10 | 16 | 26 | 36 | | | | |
| 2200 | 0.01 | 0.01 | 0.03 | 0.04 | 0.02 | 0.02 | 0.07 | 0.11 |
| 2400 | 0.01 | 0.02 | 0.03 | 0.05 | 0.03 | 0.03 | 0.09 | 0.13 |
| 2600 | 0.01 | 0.02 | 0.04 | 0.06 | 0.03 | 0.03 | 0.10 | 0.15 |
| 2800 | 0.01 | 0.03 | 0.04 | 0.07 | 0.04 | 0.04 | 0.12 | 0.16 |
| 3000 | 0.01 | 0.03 | 0.05 | 0.08 | 0.04 | 0.04 | 0.14 | 0.18 |
| 3200 | 0.02 | 0.04 | 0.06 | 0.09 | 0.05 | 0.05 | 0.16 | 0.20 |
| 3400 | 0.02 | 0.04 | 0.07 | 0.10 | 0.05 | 0.05 | 0.17 | 0.23 |
| 3600 | 0.02 | 0.05 | 0.07 | 0.11 | 0.06 | 0.06 | 0.19 | 0.25 |
| 3800 | 0.02 | 0.06 | 0.08 | 0.12 | 0.06 | 0.06 | 0.22 | 0.27 |
| 4000 | 0.03 | 0.06 | 0.09 | 0.14 | 0.07 | 0.07 | 0.24 | 0.30 |
| 4200 | 0.03 | 0.07 | 0.10 | 0.15 | 0.07 | 0.07 | 0.26 | 0.33 |
| 4400 | 0.03 | 0.07 | 0.11 | 0.16 | 0.08 | 0.08 | 0.28 | 0.36 |
| 4600 | 0.03 | 0.08 | 0.12 | 0.18 | 0.09 | 0.09 | 0.31 | 0.39 |
| 4800 | 0.04 | 0.08 | 0.13 | 0.19 | 0.10 | 0.10 | 0.33 | 0.43 |
| 5000 | 0.04 | 0.09 | 0.14 | 0.21 | 0.10 | 0.10 | 0.36 | 0.46 |

TABLE 14: STATIC RESISTANCE FOR UNIT ACCESSORIES (IWG) - KEU180

| CFM | Electric Heat KW | | | | | Supply Air Plenum | Return Air Grill | Hot Water Coil | Steam Coil |
|------|------------------|------|------|------|------|-------------------|------------------|----------------|------------|
| | 10 | 16 | 26 | 36 | 72 | | | | |
| 4600 | 0.03 | 0.08 | 0.12 | 0.18 | 0.23 | 0.05 | 0.05 | 0.31 | 0.39 |
| 4800 | 0.04 | 0.08 | 0.13 | 0.19 | 0.25 | 0.06 | 0.06 | 0.33 | 0.43 |
| 5000 | 0.04 | 0.09 | 0.14 | 0.21 | 0.27 | 0.06 | 0.06 | 0.36 | 0.46 |
| 5200 | 0.04 | 0.10 | 0.16 | 0.23 | 0.29 | 0.06 | 0.06 | 0.38 | 0.50 |
| 5400 | 0.05 | 0.10 | 0.17 | 0.24 | 0.31 | 0.07 | 0.07 | 0.41 | 0.54 |
| 5600 | 0.05 | 0.11 | 0.18 | 0.26 | 0.34 | 0.07 | 0.07 | 0.44 | 0.58 |
| 5800 | 0.06 | 0.11 | 0.20 | 0.28 | 0.37 | 0.08 | 0.08 | 0.47 | 0.62 |
| 6000 | 0.06 | 0.12 | 0.21 | 0.30 | 0.40 | 0.08 | 0.08 | 0.50 | 0.66 |
| 6200 | 0.07 | 0.13 | 0.22 | 0.32 | 0.43 | 0.08 | 0.08 | 0.53 | 0.71 |
| 6400 | 0.07 | 0.13 | 0.24 | 0.34 | 0.47 | 0.09 | 0.09 | 0.56 | 0.75 |
| 6600 | 0.08 | 0.14 | 0.25 | 0.36 | 0.51 | 0.09 | 0.09 | 0.59 | 0.80 |
| 6800 | 0.08 | 0.15 | 0.27 | 0.38 | 0.55 | 0.10 | 0.10 | 0.62 | 0.85 |
| 7000 | 0.09 | 0.15 | 0.29 | 0.41 | 0.59 | 0.10 | 0.10 | 0.66 | 0.90 |
| 7200 | 0.09 | 0.16 | 0.30 | 0.43 | 0.64 | 0.10 | 0.10 | 0.69 | 0.95 |
| 7400 | 0.10 | 0.17 | 0.32 | 0.45 | 0.68 | 0.11 | 0.11 | 0.73 | 1.01 |

TABLE 15: SUPPLY AIR PLENUM PERFORMANCE DATA

| Model | CFM | Face Velocity (FPM) | Angle of Deflection | | | | | | | | | | | | | | | | | |
|-------|------|---------------------|---------------------|------|---|------|--|------|----------------|------|------------------------------|-------------|-------------------------------------|------|--------------|------|------------------------------|-------------|-------------------------------------|------|
| | | | 0° SPREAD | | Vertical Louvers ¹ (Plan View) | | Horizontal Louvers ² (Elevation View) | | 22-1/2° SPREAD | | Vertical Louvers (Plan View) | | Horizontal Louvers (Elevation View) | | 45° SPREAD | | Vertical Louvers (Plan View) | | Horizontal Louvers (Elevation View) | |
| | | | Throw (Feet) | | Spread (Feet) ³ | | Drop (Feet) ⁴ | | Throw (Feet) | | Spread (Feet) | | Drop (Feet) | | Throw (Feet) | | Spread (Feet) | | Drop (Feet) | |
| | | | Min. | Max. | Min. | Max. | Drop (Feet) ⁴ | Min. | Max. | Min. | Max. | Drop (Feet) | Min. | Max. | Drop (Feet) | Min. | Max. | Drop (Feet) | Min. | Max. |
| 060 | 1600 | 630 | 38 | 59 | 13 | 20 | 15 | 8 | 27 | 43 | 12 | 19 | 14 | 7 | 21 | 32 | 33 | 48 | 8 | 4 |
| | 1800 | 710 | 43 | 67 | 14 | 22 | 16 | 8 | 30 | 48 | 14 | 22 | 14 | 7 | 23 | 37 | 35 | 56 | 8 | 4 |
| | 2000 | 790 | 48 | 74 | 16 | 25 | 16 | 9 | 34 | 53 | 15 | 24 | 14 | 8 | 25 | 40 | 38 | 60 | 9 | 5 |
| | 2200 | 870 | 52 | 81 | 17 | 27 | 16 | 9 | 37 | 58 | 17 | 26 | 15 | 8 | 29 | 44 | 44 | 66 | 9 | 5 |
| | 2400 | 940 | 57 | 89 | 19 | 30 | 17 | 9 | 41 | 64 | 18 | 29 | 15 | 8 | 30 | 48 | 45 | 72 | 9 | 5 |
| 090 | 2400 | 615 | 47 | 74 | 20 | 29 | 19 | 9 | 34 | 53 | 23 | 33 | 17 | 8 | 26 | 39 | 45 | 65 | 9 | 5 |
| | 2700 | 690 | 53 | 83 | 22 | 32 | 20 | 10 | 39 | 59 | 25 | 36 | 18 | 9 | 29 | 45 | 48 | 71 | 10 | 5 |
| | 3000 | 770 | 59 | 92 | 24 | 35 | 21 | 10 | 42 | 66 | 27 | 40 | 19 | 9 | 32 | 50 | 52 | 78 | 10 | 5 |
| | 3300 | 845 | 65 | 101 | 26 | 38 | 21 | 10 | 46 | 73 | 29 | 44 | 19 | 9 | 35 | 55 | 56 | 85 | 10 | 5 |
| | 3600 | 920 | 71 | 110 | 28 | 41 | 22 | 11 | 50 | 79 | 32 | 47 | 20 | 10 | 38 | 60 | 60 | 91 | 11 | 6 |
| 120 | 3200 | 820 | 63 | 98 | 25 | 37 | 21 | 10 | 45 | 70 | 29 | 43 | 19 | 9 | 34 | 53 | 54 | 82 | 10 | 5 |
| | 3600 | 920 | 71 | 110 | 28 | 41 | 22 | 11 | 50 | 79 | 32 | 47 | 20 | 10 | 38 | 60 | 60 | 91 | 11 | 6 |
| | 4000 | 1025 | 78 | 123 | 30 | 45 | 22 | 11 | 56 | 88 | 35 | 52 | 20 | 10 | 42 | 66 | 67 | 102 | 11 | 6 |
| | 4400 | 1130 | 86 | 135 | 33 | 49 | 23 | 12 | 62 | 97 | 38 | 57 | 21 | 11 | 47 | 73 | 76 | 115 | 12 | 6 |
| | 4800 | 1230 | 94 | 147 | 35 | 53 | 23 | 12 | 68 | 106 | 41 | 62 | 21 | 11 | 51 | 80 | 85 | 127 | 12 | 6 |
| 180 | 4800 | 880 | 84 | 132 | 32 | 48 | 23 | 12 | 61 | 95 | 38 | 56 | 21 | 11 | 46 | 72 | 73 | 112 | 12 | 6 |
| | 5400 | 1000 | 95 | 149 | 36 | 54 | 24 | 12 | 68 | 107 | 42 | 63 | 22 | 11 | 52 | 81 | 81 | 124 | 12 | 6 |
| | 6000 | 1110 | 106 | 165 | 39 | 59 | 25 | 13 | 76 | 119 | 46 | 69 | 23 | 12 | 57 | 89 | 90 | 138 | 13 | 7 |
| | 6600 | 1220 | 116 | 182 | 43 | 65 | 26 | 13 | 84 | 131 | 50 | 76 | 23 | 12 | 63 | 98 | 99 | 152 | 13 | 7 |
| | 7200 | 1330 | 126 | 199 | 46 | 70 | 27 | 14 | 92 | 143 | 55 | 83 | 24 | 12 | 68 | 107 | 109 | 166 | 14 | 7 |

1. Adjusting the vertical louvers will vary the throw, the spread and the drop.
2. Adjusting the horizontal louvers will only vary the drop.
3. The velocity of the air will be 125 ft./min. at the minimum distance and 80 ft./min. at the maximum distance.
4. The velocity of the conditioned air at the bottom of the drop will be 50 ft./min. Drafts will occur if the drop extends into the occupied level of the conditioned space.

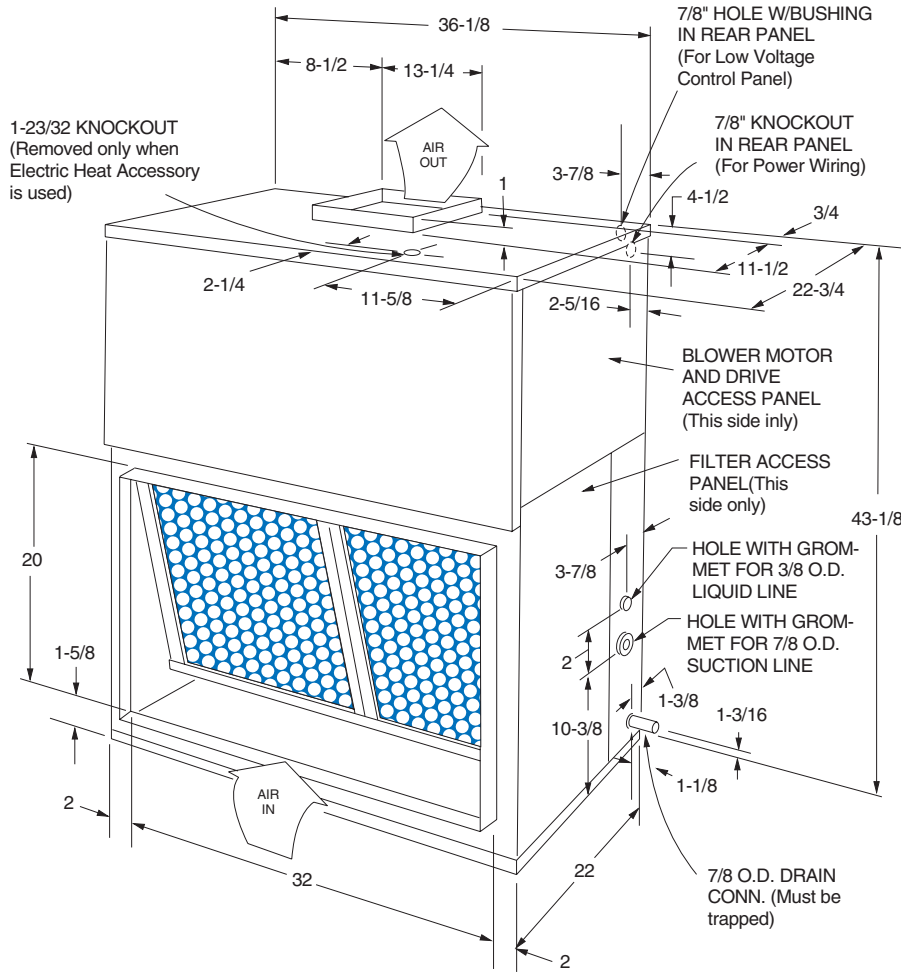
TABLE 16: BLOWER MOTOR AND DRIVE DATA

| MODEL | BLOWER RANGE (RPM) | MOTOR | | ADJUSTABLE MOTOR PULLEY | | | | FIXED BLOWER PULLEY | | | | BELT (NOTCHED) | | |
|-------|--------------------|-------|-------|-------------------------|--------------------|------------------|------------|---------------------|--------------------|------------------|------------|----------------|--------------------|------|
| | | HP | FRAME | DESIG-NATION | OUTSIDE DIA. (IN.) | PITCH DIA. (IN.) | BORE (IN.) | DESIG-NATION | OUTSIDE DIA. (IN.) | PITCH DIA. (IN.) | BORE (IN.) | DESIG-NATION | PITCH LENGTH (IN.) | QTY. |
| 060 | 810/1110 | 3/4 | 56 | 1VL44 | 3.1-4.1 | 2.8-3.8 | 5/8 | AL64 | 6.2 | 5.8 | 3/4 | A32 | 33.3 | 1 |
| 090 | 655/880 | 1-1/2 | 56 | 1VL44 | 2.1-4.1 | 2.8-3.8 | 7/8 | AK79 | 7.9 | 7.5 | 1 | A36 | 37.3 | 1 |
| 120 | 700/950 | 2 | 56 | 1VL44 | 3.1-4.1 | 2.8-3.8 | 7/8 | BK80 | 7.4 | 7.0 | 1 | A36 | 37.3 | 1 |
| 180 | 625/810 | 3 | 56 | 1VM50 | 3.7-4.7 | 3.4-4.4 | 7/8 | BK105 | 9.9 | 9.5 | 1 | A57 | 58.3 | 1 |

TABLE 17: KEU PHYSICAL DATA

| Component | Description | Model | | | |
|--------------------------------|-------------------------------------|-------------|-------------|-------------|-------------|
| | | 060 | 090 | 120 | 180 |
| EVAPORATOR BLOWER ¹ | Centrifugal Blower (Dia. X Wd. in.) | 15 X 15 | 15 X 15 | 15 X 15 | 18 X 18 |
| | Fan Motor HP (Belt Drive) | 3/4 | 1-1/2 | 2 | 3 |
| EVAPORATOR COIL | Rows Deep | 3 | 3 | 3 | 3 |
| | Finned Length (in.) | 30 | 46 | 46 | 54 |
| | Fins per Inch | 13 | 13 | 13 | 13 |
| | Face Area (ft. ²) | 5.0 | 8.6 | 10.2 | 12.1 |
| HOT WATER COIL | Rows Deep | 2 | 2 | 2 | 2 |
| | Finned Length (in.) | 30 | 46 | 46 | 54 |
| | Fins Per Inch | 12 | 12 | 12 | 12 |
| | Face Area (ft. ²) | 3.8 | 5.4 | 5.4 | 9.0 |
| | Inlet Connection | 1" NPTE | 1" NPTE | 1" NPTE | 1-3/8" O.D |
| | Outlet Connection | 1" NPTE | 1" NPTE | 1" NPTE | 1-3/8" O.D |
| STEAM COIL | Rows Deep | 1 | 1 | 1 | 1 |
| | Finned Length (in.) | 30 | 46 | 46 | 54 |
| | Fins Per Inch | 8 | 8 | 8 | 8 |
| | Face Area (ft. ²) | 3.8 | 5.4 | 5.4 | 9.0 |
| | Inlet Connection | 1-1/2" NPTE | 1-1/2" NPTE | 1-1/2" NPTE | 1-1/2" NPTE |
| | Outlet Connection | 1-1/2" NPTE | 1-1/2" NPTE | 1-1/2" NPTE | 1-1/2" NPTE |
| AIR FILTERS | Quantity Per Unit (16" X 25" X 1") | 2 | 4 | 4 | 0 |
| | Quantity Per Unit (20" X 20" X 1") | 0 | 0 | 0 | 6 |
| | Total Face Area (ft. ²) | 5.6 | 11.1 | 11.1 | 16.7 |
| HOLDING CHARGE | Refrigerant 22 (lbs./oz.) | 0/7 | 0/7 | 0/10 | 0/0 |

1. Refer to Blower Motor and Drive Data table for additional blower and drive information.
All of these 1750 RPM motors are solid base, 56 frame with 1.15 service factor, inherent protection and permanently lubricated ball bearings.



All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

FIGURE 1 - UNIT DIMENSIONS KEU060

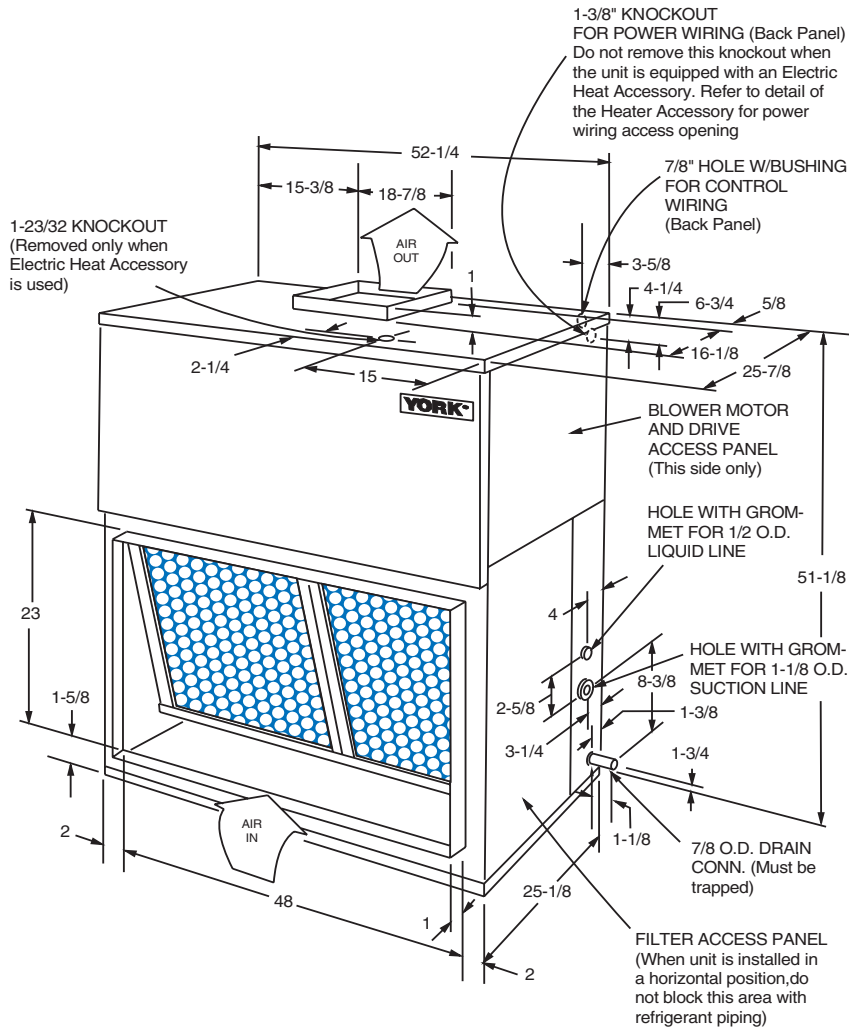
ACCESSORIES

- ELECTRIC HEATER - Add 13" to unit height when used.
- SUPPLY AIR PLENUM - Add 24-1/4" to unit height when used.
- BASE - Add 20" to unit height when used.

1. Overall dimensions of the unit will vary if an electric heater, a supply air plenum or a base is used.
2. This dimension is required for removal of the coil. Only 26" is required for normal service.
3. Although no clearance is required for service and operation, some clearance may be required for routing the power and control wiring.
4. Allow enough clearance to trap the condensate drain line.

TABLE 18: UNIT CLEARANCES KEU060

| MINIMUM CLEARANCES | 060 |
|---|-----|
| Side with RETURN AIR opening | 24" |
| Side with SUPPLY AIR opening ¹ | 24" |
| Side with PIPING CONNECTIONS ² | 36" |
| Side opposite with PIPING CONNECTIONS | 12" |
| Side with access for both POWER & CONTROL WIRING ³ . | - |
| Bottom ⁴ | - |



All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

FIGURE 2 - UNIT DIMENSIONS KEU090 & 120

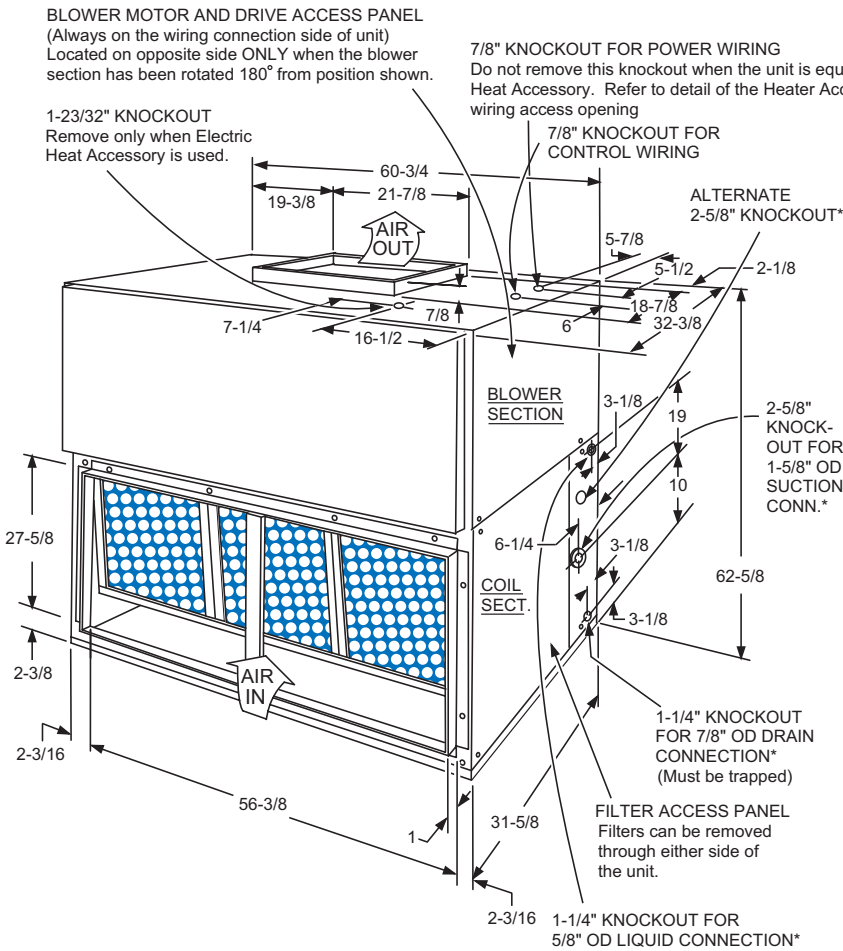
ACCESSORIES

- ELECTRIC HEATER - Add 14-1/4" to unit height when used.
- SUPPLY AIR PLENUM - Add 27-1/2" to unit height when used.
- BASE - Add 20" to unit height when used.

1. Overall dimensions of the unit will vary if an electric heater, a supply air plenum or a base is used.
2. This dimension is required for removal of the coil. Only 26" is required for normal service.
3. Although no clearance is required for service and operation, some clearance may be required for routing the power and control wiring.
4. Allow enough clearance to trap the condensate drain line.

TABLE 19: UNIT CLEARANCES KEU090 & 120

| MINIMUM CLEARANCES | 090-120 |
|---|---------|
| Side with RETURN AIR opening | 24" |
| Side with SUPPLY AIR opening ¹ | 24" |
| Side with PIPING CONNECTIONS ² | 36" |
| Side opposite with PIPING CONNECTIONS | 12" |
| Side with access for both POWER & CONTROL WIRING ³ . | - |
| Bottom ⁴ | - |



All dimensions are in inches. They are subject to change without notice. Certified dimensions will be provided upon request.

*Refer to INSTALLING REFRIGERANT MAINS in installation instruction when piping through the opposite side of the unit.

FIGURE 3 - UNIT DIMENSIONS KEU180

ACCESSORIES

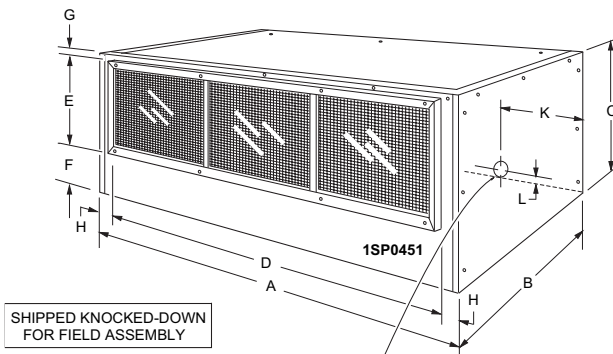
- ELECTRIC HEATER - Add 14-1/4" to unit height when using 10, 16, 26, or 36 KW heater
- SUPPLY AIR PLENUM - Add 27" to unit height when used.
- BASE - Add 24" to unit height when used.
- HOT WATER OR STEAM COIL - Add 6" to unit depth when used.

TABLE 20: UNIT CLEARANCES KEU180

| MINIMUM CLEARANCES | 180 |
|---|-----|
| Side Air with RETURN AIR opening | 24" |
| Side with SUPPLY AIR opening ¹ | 24" |
| Side with PIPING CONNECTIONS ² | 61" |
| Side opposite PIPING CONNECTIONS ³ | 26" |
| Bottom ⁴ | - |

1. Overall dimension of the unit will vary if an electric heater, a supply air plenum or a base is used.
2. This dimension is required for removal of the DX coil. Only 26" is required for normal servicing.
3. If the coil has to be removed, this dimension is required to loosen screws that secure the coil to the unit frame. This dimension will also be required for blower motor access if the piping connections are made on the opposite side of the unit.
4. Allow enough clearance to trap the condensate drain lines.

SUPPLY AIR PLENUM



060, 090, 120 - KNOCKOUT FOR POWER WIRING

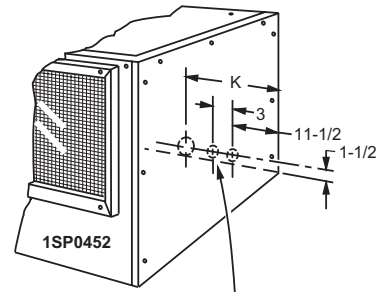
WITH ELECTRIC HEAT - Remove this 2-1/2" knockout from the rear panel of the plenum. Route the power wiring conduit through this opening and connect it to the field-supplied fitting on the electric heat accessory. Connect the power wiring to the fuse block in the heater control box.

Install the control wiring per basic unit Installation Manual. **DO NOT** route any field control wiring through the plenum.

Electric Heaters are NOT CSA approved for installation within a supply air plenum.

WITHOUT ELECTRIC HEAT - Install the power and the control wiring per basic unit Installation Manual. **DO NOT** route any wiring through the plenum and **DO NOT** remove this knockout.

| Plenum Model | Unit Model | Plenum Dimensions (inches) | | | | | | | | | |
|--------------|------------|----------------------------|--------|--------|--------|--------|-------|-----|-------|--------|-------|
| | | A | B | C | D | E | F | G | H | K | L |
| 1SP0450 | 060 | 36 | 25-1/2 | 34-2/8 | 31-3/4 | 15-3/4 | 7-5/8 | 7/8 | 2-1/8 | 11-1/4 | 2 |
| 1SP0451 | 090 120 | 52-1/8 | 28-1/4 | 27-1/2 | 49-3/8 | 17-7/8 | 8-3/4 | 7/8 | 1-1/8 | 15-1/4 | 1-3/4 |
| 1SP0452 | 180 | 60-3/4 | 31 | 27 | 55-3/4 | 19-7/8 | 6-1/8 | 1 | 2-1/2 | 19-1/2 | 1-3/4 |



180 - KNOCKOUTS FOR POWER & CONTROL WIRING

WITH ELECTRIC HEAT - Remove this 2-1/2" knockout and one of the 7/8" knockouts from the rear panel of the plenum. Remove the 1-23/32" knockout and one of the 7/8" knockouts from the top panel of the basic unit. Install a 1/2" squeeze connector in both of the 7/8" openings.

Route the power wiring conduit through the 2-1/2" opening and connect it to the field-supplied fitting on the electric heat accessory. Connect the power wiring to the fuse block in the heater control box.

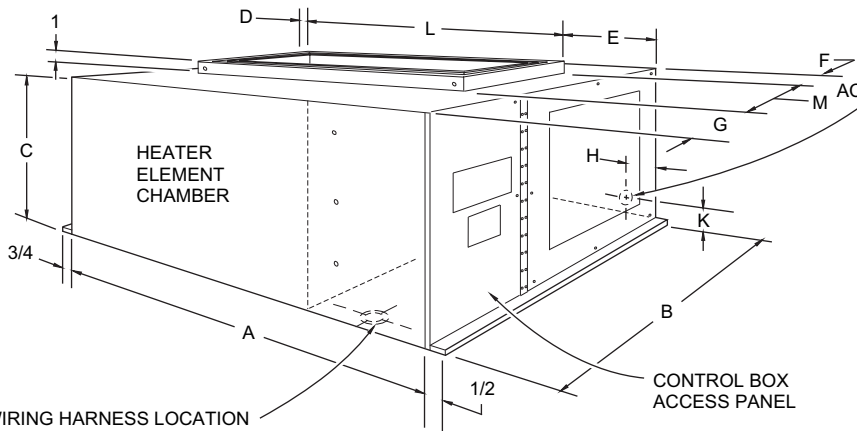
Route the control wires through the 7/8" openings and connect them to the terminals on block TB1. Secure them with the 1/2" squeeze connectors.

Electric Heaters are NOT CSA approved for installation within a supply air plenum.

WITHOUT ELECTRIC HEAT - Remove both 7/8" knockouts from the rear panel of the plenum and both 7/8" knockouts from the top panel of the basic unit. Install a 1/2" squeeze connector in one of the plenum openings and both of the unit openings. Install a 1/2" conduit fitting in the other opening of the plenum.

Connect the power wiring conduit to the fitting on the plenum. Route the power wiring through the conduit, one of the squeeze connectors on the unit, and the field-supplied squeeze connector on the blower motor contactor box. Connect the power wiring to the blower motor contactor.

Route the control wires through the remaining plenum and unit openings and connect them to the terminals on block TB1. Secure them with the 1/2" squeeze connectors.



WIRING HARNESS LOCATION
This opening in the bottom of the heater control box is used for the wiring harness that connects the heater accessory to the basic unit. It is provided with a squeeze connector for securing the wiring harness, and its location corresponds to the location of the 1-23/32" knockout in the top panel of the basic unit.

ACCESS OPENING FOR POWER SUPPLY WIRING

10KW THRU 36KW - Add a 1-1/4" conduit fitting to the 1-23/32" hole for wire sizes up through #1 AWG. Remove the knockout ring and add a 1-1/2" conduit fitting to the 1-31/32" hole for wire sizes up through #0 AWG.

72KW THRU 36KW - Add a 1-1/4" conduit fitting to the 1-23/32" hole for wire sizes up through #1 AWG. Remove the knockout ring and add a 2" conduit fitting to the 2-1/2" hole for wire sizes up through #0000 AWG.

FIGURE 5 - ACCESSORY DIMENSIONS

TABLE 21: ELECTRIC HEATER DIMENSIONS KEU060, 090, 120 & 180

| Heater Model | Nom. kW | Unit Model | Heater Dimensions (inches) | | | | | | | | | | |
|--------------------------|---------|------------|----------------------------|--------|--------|-------|-------|-----|-------|---------|-------|--------|--------|
| | | | A | B | C | D | E | F | G | H | K | L | M |
| 2HT04501025 ¹ | 10 | 060 | 25-1/8 | 22-1/2 | 13 | 7/8 | 4 | 1/2 | 5-1/4 | 1-11/16 | 1-3/4 | 20-1/8 | 16-7/8 |
| 2HT04501625 ¹ | 16 | | | | | | | | | | | | |
| 2HT04502625 ¹ | 26 | | | | | | | | | | | | |
| 2HS04501025, 46, 58 | 10 | 090 | 27-1/4 | 25-1/4 | 14-1/4 | 1 | 4 | 1/2 | 5-1/2 | 1-1/2 | 1-1/2 | 22-1/4 | 19-1/4 |
| 2HS04501625, 46, 58 | 16 | 120 | | | | | | | | | | | |
| 2HS04502625, 46, 58 | 26 | 180 | | | | | | | | | | | |
| 2HS04503625, 46, 58 | 36 | | | | | | | | | | | | |
| 2HS04507225, 46, 58 | 72 | 180 | 29-7/8 | 26-3/8 | 21-3/4 | 2-3/8 | 5-1/4 | 3/4 | 6-3/8 | 2-1/4 | 2-1/2 | 22-1/4 | 19-1/4 |

1. The 2HT heaters are not CSA approved for 060 units mounted horizontally.

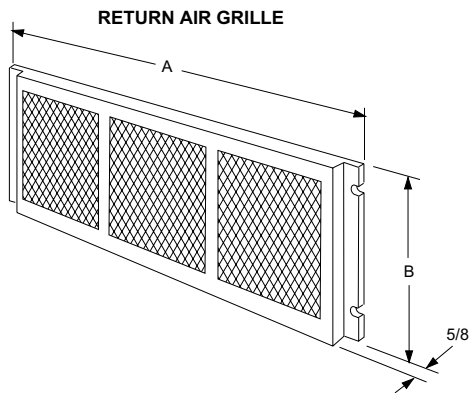


FIGURE 6 - RETURN AIR GRILLE

| Grill Model | Unit Model | Grill Dimensions (Inches) | |
|-------------|------------|---------------------------|----|
| | | A | B |
| 1RG0450 | 060 | 36 | 22 |
| 1RG0451 | 090 120 | 52 | 25 |
| 1RG0452 | 180 | 60-3/4 | 31 |

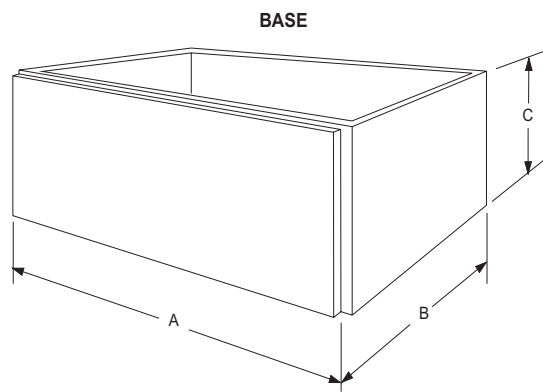


FIGURE 7 - BASE ACCESSORY

| Grill Model | Unit Model | Grill Dimensions (Inches) | | |
|-------------|------------|---------------------------|--------|----|
| | | A | B | C |
| 1BS0450 | 060 | 36 | 22 | 20 |
| 1BS0451 | 090 120 | 52 | 25-1/8 | 20 |
| 1BS0452 | 180 | 60-3/4 | 31-5/8 | 24 |

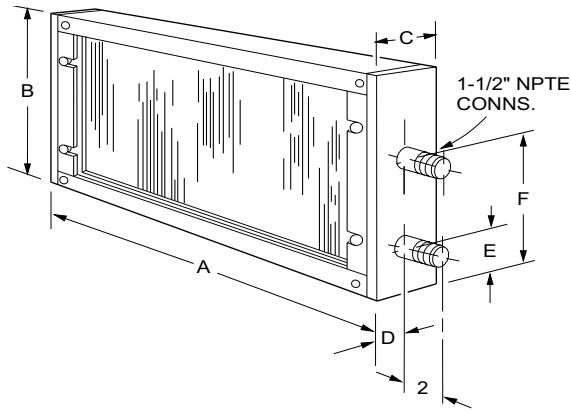


FIGURE 8 - STEAM COIL

| Coil Model | Unit Model | Steam Coil Dimensions (inches) | | | | | |
|----------------------|------------|--------------------------------|--------|---|--------|-------|--------|
| | | A | B | C | D | E | F |
| 1NF0450 ¹ | 060 | 36 | 21-7/8 | 5 | 2-1/2 | 2-5/8 | 10-5/8 |
| 1NF0451 ¹ | 090 | 52 | 25 | 5 | 2-1/2 | 2-5/8 | 13-5/8 |
| 1NF0451 ¹ | 120 | 52 | 25 | 5 | 2-1/2 | 2-5/8 | 13-5/8 |
| 1NF0452 ² | 180 | 60-3/4 | 32-1/4 | 6 | 3-5/16 | 3-1/2 | 17-1/2 |

1. Installs over the return air opening of the unit-before the filters.
2. Installs between the coil and blower section of the unit.

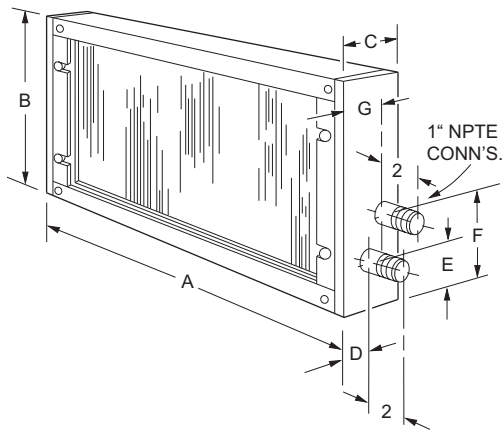


FIGURE 9 - HOT WATER COIL

| Coil Model | Unit Model | Hot Water Coil Dimensions (inches) | | | | | | | |
|----------------------|------------|------------------------------------|--------|---|---------|--------|--------|---------|------------|
| | | A | B | C | D | E | F | G | H |
| 1HW0450 ¹ | 060 | 36 | 21-7/8 | 5 | 1-11/16 | 2-3/4 | 6-1/4 | 3-3/8 | 1" NPTE |
| 1HW0451 ¹ | 090 | 52 | 25 | 5 | 1-11/16 | 2-3/4 | 5-7/8 | 3-3/8 | 1" NPTE |
| 1HW0451 ¹ | 120 | 52 | 25 | 5 | 1-11/16 | 2-3/4 | 5-7/8 | 3-3/8 | 1" NPTE |
| 1HW0452 ² | 180 | 60-3/4 | 32-1/4 | 6 | 2-5/32 | 3-5/16 | 6-9/16 | 3-27/32 | 1-3/8 NPTE |

1. Installs over the return air opening of the unit-before the filters.
2. Installs between the coil and blower section of the unit.

TABLE 22: KEU ELECTRICAL DATA

| Model (TONS) | Power Supply Voltage | Indoor Motor FLA | Heater Model Number | Nominal Heater KW | Applied Heater KW | Electric Heat Amps | Min. Circuit Ampacity (AMPS) | Max. Fuse ¹ / HACR Breaker ² (AMPS) |
|-------------------------|----------------------|------------------|---------------------|-------------------|-------------------|--------------------|------------------------------|---|
| 060 ³ (5) | 208 | 7.6 | None | -- | -- | -- | 9.5 | 15 |
| | | | 2HT04501025 | 10 | 7.5 | 20.8 | 35.6 | 40 |
| | | | 2HT04501625 | 16 | 12.0 | 33.4 | 51.2 | 60 |
| | | | 2HT04502625 | 26 | 19.5 | 54.2 | 77.3 | 80 |
| | 240 | 6.9 | None | -- | -- | -- | 8.6 | 15 |
| | | | 2HT04501025 | 10 | 10.0 | 24.1 | 38.7 | 40 |
| | | | 2HT04501625 | 16 | 16.0 | 38.5 | 56.7 | 60 |
| | | | 2HT04502625 | 26 | 26.0 | 62.5 | 86.8 | 90 |
| 090 (7.5) | 208 | 6.6 | None | -- | -- | -- | 8.3 | 15 |
| | | | 2HS04501025 | 10 | 7.5 | 20.8 | 34.3 | 35 |
| | | | 2HS04501625 | 16 | 12.0 | 33.4 | 49.9 | 50 |
| | | | 2HS04502625 | 26 | 19.5 | 54.2 | 76.0 | 80 |
| | | | 2HS04503625 | 36 | 27.0 | 75.1 | 102.1 | 110 |
| | 240 | 6.0 | None | -- | -- | -- | 7.5 | 15 |
| | | | 2HS04501025 | 10 | 10.0 | 24.1 | 37.6 | 40 |
| | | | 2HS04501625 | 16 | 16.0 | 38.5 | 55.6 | 60 |
| | | | 2HS04502625 | 26 | 26.0 | 62.5 | 85.7 | 90 |
| | | | 2HS04503625 | 36 | 36.0 | 86.6 | 115.8 | 125 |
| | 460 | 3.0 | None | -- | -- | -- | 3.8 | 15 |
| | | | 2HS04501046 | 10 | 10.0 | 12.0 | 18.8 | 20 |
| | | | 2HS04501646 | 16 | 16.0 | 19.2 | 27.8 | 30 |
| | | | 2HS04502646 | 26 | 26.0 | 31.3 | 42.8 | 45 |
| | | | 2HS04503646 | 36 | 36.0 | 43.3 | 57.9 | 60 |
| | 575 | 2.4 | None | -- | -- | -- | 3.0 | 15 |
| | | | 2HS04501058 | 10 | 10.0 | 9.6 | 15.0 | 20 |
| | | | 2HS04501658 | 16 | 16.0 | 15.4 | 22.2 | 25 |
| | | | 2HS04502658 | 26 | 26.0 | 25.0 | 34.3 | 35 |
| | | | 2HS04503658 | 36 | 36.0 | 34.6 | 46.3 | 50 |
| 120 (10) | 208 | 7.5 | None | -- | -- | -- | 9.4 | 15 |
| | | | 2HS04501025 | 10 | 7.5 | 20.8 | 35.4 | 40 |
| | | | 2HS04501625 | 16 | 12.0 | 33.4 | 51.1 | 60 |
| | | | 2HS04502625 | 26 | 19.5 | 54.2 | 77.1 | 80 |
| | | | 2HS04503625 | 36 | 27.0 | 75.1 | 103.2 | 110 |
| | 240 | 6.8 | None | -- | -- | -- | 8.5 | 15 |
| | | | 2HS04501025 | 10 | 10.0 | 24.1 | 38.6 | 40 |
| | | | 2HS04501625 | 16 | 16.0 | 38.5 | 56.6 | 60 |
| | | | 2HS04502625 | 26 | 26.0 | 62.5 | 86.7 | 90 |
| | | | 2HS04503625 | 36 | 36.0 | 86.6 | 116.8 | 125 |
| | 460 | 3.4 | None | -- | -- | -- | 4.3 | 15 |
| | | | 2HS04501046 | 10 | 10.0 | 12.0 | 19.3 | 20 |
| | | | 2HS04501646 | 16 | 16.0 | 19.2 | 28.3 | 30 |
| | | | 2HS04502646 | 26 | 26.0 | 31.3 | 43.3 | 45 |
| | | | 2HS04503646 | 36 | 36.0 | 43.3 | 58.4 | 60 |
| | 575 | 2.7 | None | -- | -- | -- | 3.4 | 15 |
| | | | 2HS04501058 | 10 | 10.0 | 9.6 | 15.4 | 20 |
| | | | 2HS04501658 | 16 | 16.0 | 15.4 | 22.6 | 25 |
| | | | 2HS04502658 | 26 | 26.0 | 25.0 | 34.6 | 35 |
| | | | 2HS04503658 | 36 | 36.0 | 34.6 | 46.7 | 50 |

TABLE 22: KEU ELECTRICAL DATA (CONTINUED)

| Model (TONS) | Power Supply Voltage | Indoor Motor FLA | Heater Model Number | Nominal Heater KW | Applied Heater KW | Electric Heat Amps | Min. Circuit Ampacity (AMPS) | Max. Fuse ¹ / HACR Breaker ² (AMPS) |
|-----------------|----------------------|------------------|---------------------|-------------------|-------------------|--------------------|------------------------------|---|
| 180 (15) | 208 | 10.6 | None | -- | -- | -- | 13.3 | 20 |
| | | | 2HS04501025 | 10 | 7.5 | 20.8 | 39.3 | 40 |
| | | | 2HS04501625 | 16 | 12.0 | 33.4 | 54.9 | 60 |
| | | | 2HS04502625 | 26 | 19.5 | 54.2 | 81.0 | 90 |
| | | | 2HS04503625 | 36 | 27.0 | 75.1 | 107.1 | 110 |
| | | | 2HS04507225 | 72 | 54.1 | 150.1 | 200.9 | 225 |
| | 240 | 9.6 | None | -- | -- | -- | 12.0 | 15 |
| | | | 2HS04501025 | 10 | 10.0 | 24.1 | 42.1 | 45 |
| | | | 2HS04501625 | 16 | 16.0 | 38.5 | 60.1 | 70 |
| | | | 2HS04502625 | 26 | 26.0 | 62.5 | 90.2 | 100 |
| | | | 2HS04503625 | 36 | 36.0 | 86.6 | 120.3 | 125 |
| | | | 2HS04507225 | 72 | 72.0 | 173.2 | 228.5 | 250 |
| | 460 | 4.8 | None | -- | -- | -- | 6.0 | 15 |
| | | | 2HS04501046 | 10 | 10.0 | 12.0 | 21.0 | 25 |
| | | | 2HS04501646 | 16 | 16.0 | 19.2 | 30.1 | 35 |
| | | | 2HS04502646 | 26 | 26.0 | 31.3 | 45.1 | 50 |
| | | | 2HS04503646 | 36 | 36.0 | 43.3 | 60.1 | 70 |
| | | | 2HS04507246 | 72 | 72.0 | 86.6 | 114.3 | 125 |
| | 575 | 3.9 | None | -- | -- | -- | 4.9 | 15 |
| | | | 2HS04501058 | 10 | 10.0 | 9.6 | 16.9 | 20 |
| | | | 2HS04501658 | 16 | 16.0 | 15.4 | 24.1 | 25 |
| | | | 2HS04502658 | 26 | 26.0 | 25.0 | 36.1 | 40 |
| | | | 2HS04503658 | 36 | 36.0 | 34.6 | 48.2 | 50 |
| | | | 2HS04507258 | 72 | 72.0 | 69.3 | 91.5 | 100 |

1. Dual element time delay.
2. HACR type per NEC.
3. The K*EU060 indoor motor is single phase. The electrical heaters MUST be supplied with 3-phase voltage only.

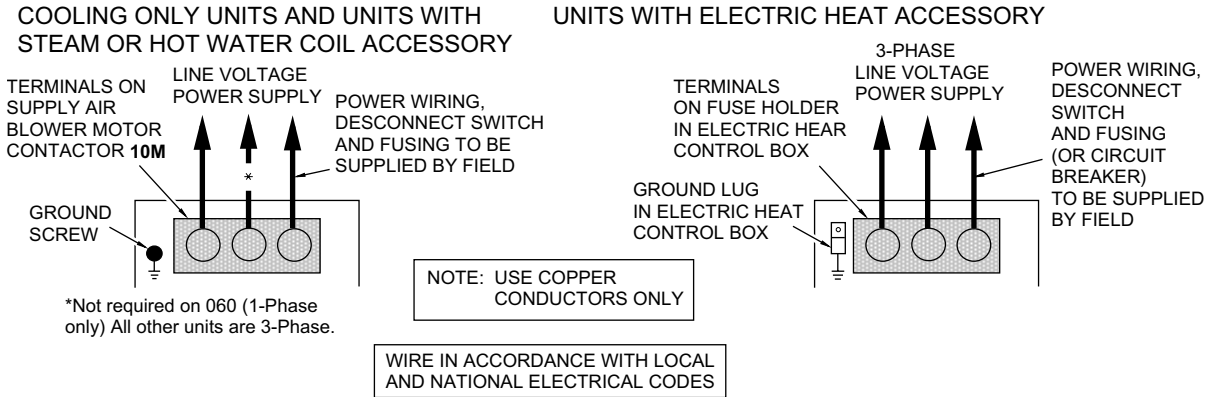


FIGURE 10 - FIELD WIRING FOR POWER SUPPLY

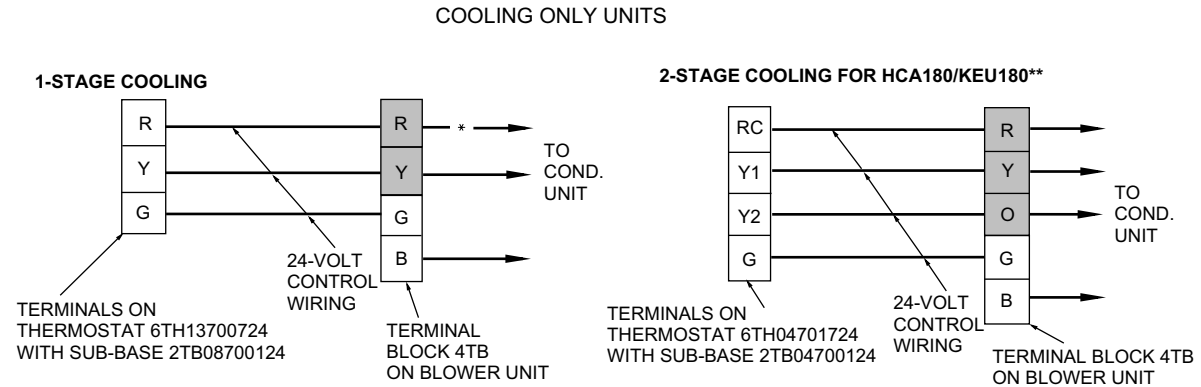


FIGURE 11 - COOLING ONLY UNIT

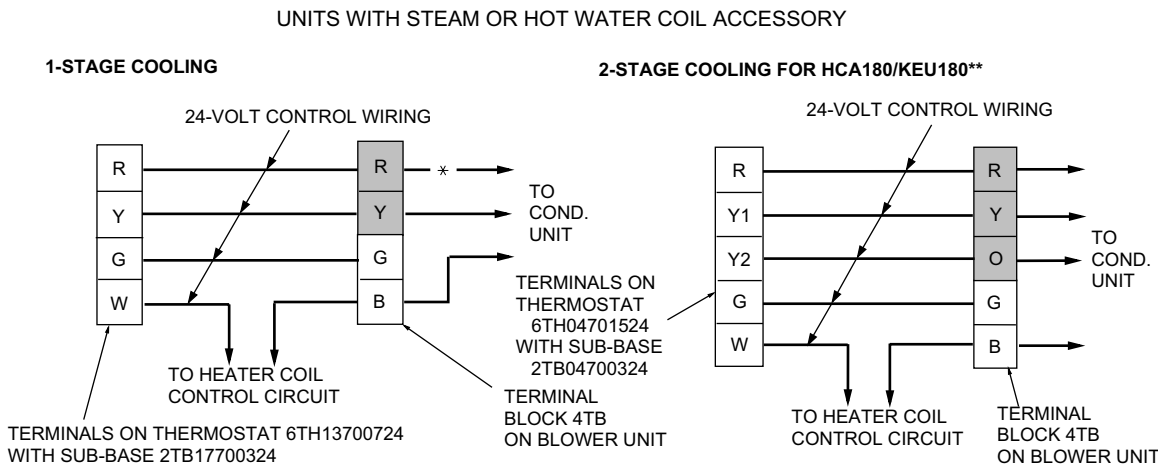


FIGURE 12 - UNIT WITH STEAM OR HOT WATER COIL ACCESSORY

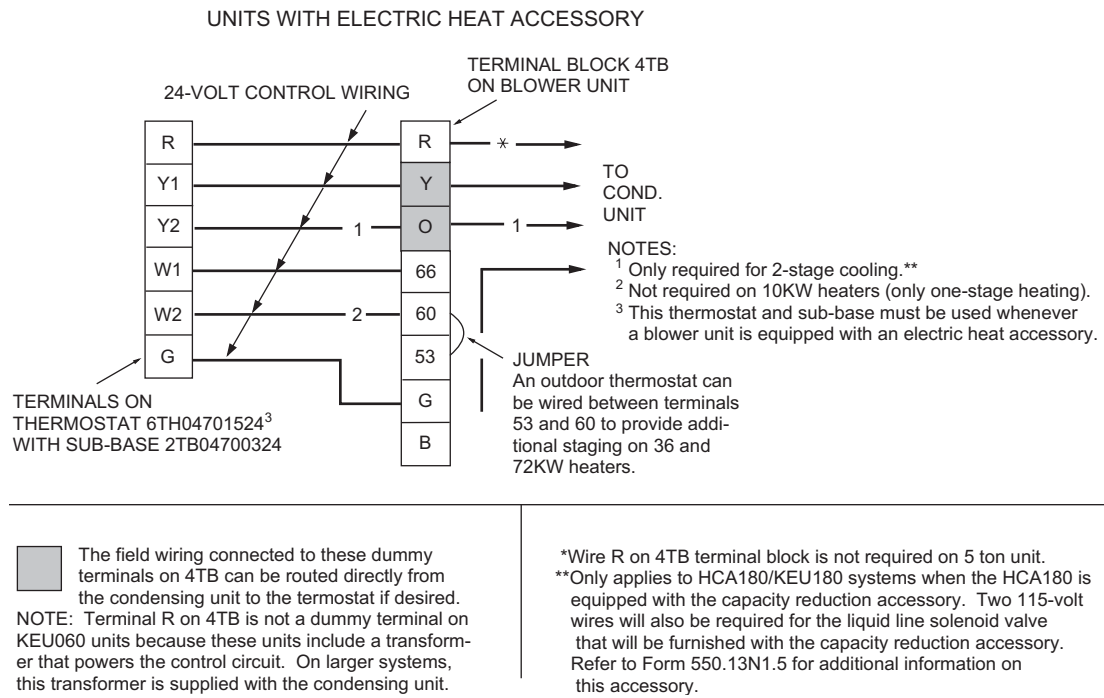


FIGURE 13 - FIELD WIRING FOR UNITS WITH ELECTRIC HEAT

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