



FEATURES

CABINET

- Enhanced grommets - secure & tight.
- Multi-position available from factory and field convertible.
- Side return right- or left-hand capable on 12 to 30 and 36 size models.
- All air handlers are basiloid packaged with bar coding and full description on label.
- Magnetic filter rack door makes for easy filter replacement and a tight seal for less air leakage.
- Fiberglass air filter comes with every air handler and filter racks accepts readily available size filters.
- Rigid beige painted cabinets constructed of heavy gauge steel to prevent corrosion and are lined with high quality
- 9.5 mm (5/8 in.) foil faced insulation to prevent sweating.

EVAPORATOR COIL

- Patented lanced fin design and internally enhanced copper tubing.
- Suitable for use with R-22 and R-410A.
- Dual 19 mm (3/4 in.) FPT left and right condensate drain connections.
- Drain pans are molded of corrosion proof high temperature engineering polymer.
- Coils are air pressure tested at 72 kPa (500 PSI), pressure tested with Helium, sealed and then charged with dry air.
- Fluorator, non-bleed A/C or HP TXV's available factory installed. Screw-on TXV's also available for field installation.

HOT WATER HEAT

- Suitable for potable water systems.
- Hot Water Heat Kits available both factory and field installed.
- Easy to replace hot water coil. Remove one screw and slide out.
- Optional factory installed circulating pump fully encased in cabinet.
- Purge valve on hot water coil allows for manual release of any air trapped in coil during installation or servicing.
- Water connections 7/8 in. ODF (for 3/4 in. water pipe) on 12 to 30, and 36 size models and 1-1/8 in. ODF (for 1 in. water pipe) on 31, and 37 - 60 size models.
- Control board comes standard factory installed on all Air Handlers and includes the following features:
 - Features are compatible with both factory and field installed circulating pumps.



**3.5 to 17.6 kW (1 to 5 Tons)
Optional Electric Heat - 2.5 to 25 kW
Optional Hot Water Heat -
2.6 to 36.3 kW (9,000 to 124,000 Btuh)**

1. Pump timer activates pump for 1 minute every 6 hours eliminating stagnant water in hot water coil.
2. 24 VAC isolation valve control-allows for zoning control.
3. Auxiliary contacts for water heater or boiler activation.
4. Freeze protection- standard factory installed, activates at 4°C (40°F) and deactivates at 21°C (70°F).
5. Thermostat connections.
6. Time delay for blower activation:
 - 60 seconds (tap in OFF position)
 - 54°C (130°F) Aquastat (tap in ON position)

Note: Aquastat tap only included if ordered

FEATURES

VARIABLE-SPEED MOTOR

Variable-speed control board includes dry contacts for thermostat connections.

Constant air circulation feature runs airflow at 50% of cooling airflow, improves indoor air quality and eliminates stratification.

Control Board LED Lights display operation mode and when dehumidification is activated.

Dehumidification - cutting dehumidification resistor on variable-speed control board reduces cooling airflow by 10%.

Choose your own cooling/heating airflow settings, by selecting taps A-D on the variable-speed control board.

Fine tune your airflow setting by selecting (+) tap to increase airflow by 10% and (-) tap to decrease airflow by 12%.

Soft start feature runs airflow at 82% of cooling airflow for first 7.5 minutes of operation.

Time Delay- 1.5 minute blower off delay at the end of a call for cooling.

ELECTRICAL FEATURES

Blower door safety switch on all models.

Dynamically balanced high efficiency three-speed motors for project flexibility.

Easy to adjust blower speeds for fine tuning customer comfort.

Electrical connections can be made on top or both sides of cabinet.

Electric heat kits available factory installed for 2.5 & 5 kW. Higher kW heat kits available for field installation.

Factory installed fan time delay postpones blower shutoff 30 seconds in heating mode and 45 seconds in cooling mode.

MODEL NUMBER IDENTIFICATION

| | | | | | | | | | |
|---|---|---|---|----|---|----|---|----|---|
| B | C | R | M | A1 | 2 | 24 | S | 2P | 3 |
|---|---|---|---|----|---|----|---|----|---|

B = Beige Painted Cabinet

MOTOR TYPE

C = Three-Speed

V = Variable-Speed***

Horizontal Drain Pan Position*

L = Left-Hand

R = Right-Hand

O = No Cooling Coil

AIRFLOW CONFIGURATION

V = Vertical Only

M = Multi-position

SLAB NUMBER

A1 Thru Z9

00 = No Cooling Coil, Heating Only

METERING DEVICE

0 = No Cooling Coil

1 = Piston R-410A

2 = Piston R-22

3 = Bleed TXV (R-22)

4 = Non-Bleed A/C TXV (R-22)

5 = Non-Bleed HP-A/C TXV (R-22)

6 = Non-Bleed A/C TXV (R-410A)

9 = Non-Bleed HP-A/C TXV (R-410A)

UNIT SIZE

| | |
|------------------------|--------------------|
| 12, 18, 24, 25, 30, 36 | 31, 37, 42, 48, 60 |
|------------------------|--------------------|

| | |
|------------|----------|
| Slant Coil | 'A' Coil |
|------------|----------|

(side return capable)

⁽¹⁾ Electric heat models not available in 120V, 60 Hz.

* Horizontal Drain Pans can be field installed as an accessory in Vertical Only Air Handlers for multi-position configuration.

** Elec. Heat Kits higher than 5 Kw only available as field installed kits.

***Variable-Speed Motor Option available only in 25-31 and 37-60 size models.

Note: Horizontal Drain Pan Position for slant coil models indicate that the opposing side of the cabinet is side air return capable.

All Air Handlers with slant coils can be field converted to allow for either left or right side air return.

VOLTAGE ⁽¹⁾

1 = 208/240 V, 60 Hz, 1 ph. with time delay

2 = 208/240 V, 60 Hz, 1 ph. w/ time delay & 130°F Aquastat

3 = 120 V, 60 Hz, 1 ph. with time delay

4 = 120 V, 60 Hz, 1 ph. w/ time delay & 130°F Aquastat

5 = 220 V, 50 Hz, 1 ph. with time delay (Only available in three-speed blower options and 2N, 3N, & 4N Heat options)

HEAT

0 = No Heat

2 = 3 Kw ELEC.**

5 = 5 Kw ELEC.**

Hot Water Coil with Pump & Valve Assembly

2P = 2 Row hot water coil [sizes 12-30,36]

3P = 3 Row hot water coil [all sizes]

4P = 4 Row hot water coil [sizes 31,37-60]

Hot Water Coil without Pump & Valve Assembly

2N = 2 Row hot water coil [sizes 12-30,36]

3N = 3 Row hot water coil [all sizes]

4N = 4 Row hot water coil [sizes 31,37-60]

LINE VOLTAGE CONNECTION

S = Stripped Wire

T = Terminal Block

SPECIFICATIONS

| General Data | | Size | 12 | 18 | 24 | 25 | 30 | 31 |
|----------------------------------------------------------|-------------------------------------------|-------------------|------------------------|------------------------|------------------------|---------------------------|----------------------------|----------------------------|
| | | Nominal kW (tons) | 3.5 (1) | 5.3 (1.5) | 7.0 (2) | 7.0 (2) | 8.8 (2.5) | 8.8 (2.5) |
| Connections | Suction line (o.d.) - mm (in.) sweat | | 19 (3/4) | 19 (3/4) | 19 (3/4) | 19 (3/4) | 19 (3/4) | 26 (7/8) |
| | Liquid line (o.d.) - mm (in.) sweat | | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) |
| | Condensate - in. fpt | | (2) 3/4 | (2) 3/4 | (2) 3/4 | (2) 3/4 | (2) 3/4 | (2) 3/4 |
| | Circulating pump connection size - in. | | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 |
| Florator Piston Size | R-22 | | 0.041 | 0.053 | 0.059 | 0.059 | 0.067 | 0.067 |
| | R-410A | | 0.041 | 0.049 | 0.053 | 0.053 | 0.059 | 0.059 |
| Three Speed Blower | Wheel nominal diameter x width - mm (in.) | | 229 x 152 (9 x 6) | | | 254 x 203 (10 x 8) | | |
| | Blower motor output - W (hp) | | 149 (1/5) | 187 (1/4) | | 224 (1/3) | | |
| | Nominal air volume - L/s (cfm) | | 190 (400) | 285 (600) | 380 (800) | 380 (800) | 470 (1000) | 470 (1000) |
| Variable Speed Blower | Wheel nominal diameter x width - mm (in.) | | --- | --- | --- | 229 x 152 (9 x 6) | 254 x 203 (10 x 8) | 254 x 203 (10 x 8) |
| | Blower motor output - W (hp) | | --- | --- | --- | 224 (1/3) | 373 (1/2) | 373 (1/2) |
| | Cooling range - L/s (cfm) | | --- | --- | --- | 285 - 470 (600 - 1000) | 285 - 565 (600 - 1200) | 285 - 565 (600 - 1200) |
| | Heating range L/s (cfm) | | --- | --- | --- | 285 - 470 (600 - 1000) | 520 - 565 (1100 - 1200) | 520 - 565 (1100 - 1200) |
| Filters | Size of filter - mm (in.) | | 305 x 508 (12 x 20) | 305 x 508 (12 x 20) | 305 x 508 (12 x 20) | 406 x 508 (16 x 20) | 406 x 508 (16 x 20) | 406 x 635 (16 x 25) |
| Shipping Data -1 package - kg (lbs.) less hot water coil | | | 54 (120) | 54 (120) | 54 (120) | 59 (130) | 64 (140) | 68 (150) |

ELECTRICAL DATA

| | | | | | | | |
|--------------------------------------|--|---------------------------------------------------------------|-----|-----|-------------------------------------------|-----|-----|
| Available Voltage (three speed) | | ¹ 120V or 208/240V, 60Hz, 1 ph or 220V, 50Hz, 1 ph | | | | | |
| Full load amps at 120V | | 2.0 | 3.2 | 3.2 | 5.3 | 5.3 | 7.1 |
| Full load amps at 240V | | 1.4 | 1.4 | 1.8 | 2.2 | 2.2 | 2.6 |
| Available Voltage (variable speed) | | --- | --- | --- | ¹ 120V or 208/240V, 60Hz, 1 ph | | |
| Full load amps at 120V | | --- | --- | --- | 4.8 | 5.4 | 5.4 |
| Full load amps at 240V | | --- | --- | --- | 2.4 | 2.7 | 2.7 |
| Transformer size and type | | 40VA, Class 2 | | | | | |
| Voltage (hot water circulating pump) | | 120V or 208/240V | | | | | |
| Amps | | 0.52 | | | | | |

¹ Electric heat models not available in 120 V, 60 Hz.

SPECIFICATIONS

| General Data | | Size | 36 | 37 | 42 | 48 | 60 |
|-----------------------------|----------------------------------------------|------|---------------------------------------------------------------|------------------------------|----------------------------|----------------------------|----------------------------|
| | Nominal kW (tons) | | 10.5 (3) | 10.5 (3) | 12.3 (3.5) | 14.1 (4) | 17.6 (5) |
| Connections | Suction (vapor) line (o.d.) - mm (in.) sweat | | 19 (3/4) | 26 (7/8) | 26 (7/8) | 26 (7/8) | 26 (7/8) |
| | Liquid line (o.d.) - mm (in.) sweat | | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) |
| | Condensate - in. fpt | | (2) 3/4 | (2) 3/4 | (2) 3/4 | (2) 3/4 | (2) 3/4 |
| | Circulating pump connection size - in. | | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 |
| Florator Piston Size | R-22 | | 0.073 | 0.073 | 0.080 | 0.084 | 0.093 |
| | R-410A | | 0.067 | 0.067 | 0.073 | 0.076 | 0.093 |
| Three Blower Blower | Wheel nominal diameter x width - mm (in.) | | 254 x 203 (10 x 8) | | | | 254 x 254 (10 x 10) |
| | Blower motor output - W (hp) | | 224 (1/3) | 224 (1/3) | 373 (1/2) | 560 (3/4) | 560 (3/4) |
| | Nominal L/s (cfm) | | 565(1200) | 565 (1200) | 660 (1400) | 755 (1600) | 945 (2000) |
| Variable Speed Blower | Wheel nominal diameter x width - mm (in.) | | --- | 254 x 203 (10 x 8) | 254 x 203 (10 x 8) | 254 x 203 (10 x 8) | 254 x 254 (10 x 10) |
| | Blower motor output - W (hp) | | --- | 373 (1/2) | 373 (1/2) | 560 (3/4) | 746 (1) |
| | Cooling range - L/s (cfm) | | --- | 285 - 565 (600 - 1200) | 470 - 710 (1000 - 1500) | 660 - 850 (1400 - 1800) | 800 - 895 (1700 - 1900) |
| | Heating range L/s (cfm) | | --- | 520 - 565 (1100 - 1200) | 565 - 710 (1200 - 1500) | 755 - 850 (1600 - 1800) | 800 - 895 (1700 - 1900) |
| Filters | Size of filter - mm (in.) | | 406 x 508 (16 x 20) | 406 x 635 (16 x 25) | 406 x 635 (16 x 25) | 406 x 635 (16 x 25) | 457 x 635 (18 x 25) |
| Shipping Data | -1 package - kg (lbs.) less hot water coil | | 64 (140) | 68 (150) | 95 (210) | 104 (230) | 109 (240) |
| ELECTRICAL DATA | | | | | | | |
| | Available Voltage (three speed) | | ¹ 120V or 208/240V, 60Hz, 1 ph or 220V, 50Hz, 1 ph | | | | |
| | Full load amps at 120V | | 7.1 | 7.1 | 8.5 | 7.5 | 10.5 |
| | Full load amps at 240V | | 2.6 | 2.6 | 3.0 | 4.4 | 4.3 |
| | Available Voltage (variable speed) | | --- | 120V or 208/240V, 60Hz, 1 ph | | | |
| | Full load amps at 120V | | --- | 6.0 | 6.0 | 7.2 | 10.2 |
| | Full load amps at 240V | | --- | 3.0 | 3.0 | 3.5 | 5.1 |
| | Transformer size and type | | 40VA, Class 2 | | | | |
| | Voltage (hot water circulating pump) | | 120V or 208/240V | | | | |
| | Amps | | 0.52 | | | | |

¹ Electric heat models not available in 120 V, 60 Hz.

BLOWER DATA

THREE-SPEED BLOWER PERFORMANCE

| Unit Size | Fan Speed Setting | Electric Heat Models | | | | | | | | | | Water Heat Models | | | | | | | | | |
|-----------|-------------------|----------------------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-------------------|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| | | Pa | In. w.g. | Pa | In. w.g. | Pa | In. w.g. | Pa | In. w.g. | Pa | In. w.g. | Pa | In. w.g. | Pa | In. w.g. | Pa | In. w.g. | Pa | In. w.g. | Pa | In. w.g. |
| | | 25 | 0.10 | 50 | 0.20 | 75 | 0.30 | 100 | 0.40 | 125 | 0.50 | 150 | 0.10 | 175 | 0.20 | 200 | 0.30 | 225 | 0.40 | 250 | 0.50 |
| 12 | *Low | 235 | 499 | 233 | 493 | 222 | 470 | 206 | 437 | 189 | 401 | 216 | 458 | 210 | 445 | 203 | 431 | 190 | 402 | 174 | 368 |
| | Med | 317 | 671 | 300 | 636 | 288 | 611 | 263 | 557 | 231 | 490 | 298 | 631 | 288 | 611 | 274 | 581 | 256 | 543 | 229 | 485 |
| | High | 343 | 727 | 337 | 715 | 319 | 675 | 298 | 631 | 255 | 540 | 342 | 725 | 326 | 691 | 307 | 650 | 284 | 602 | 257 | 544 |
| 18 | Low | 235 | 499 | 233 | 493 | 222 | 470 | 206 | 437 | 189 | 401 | 216 | 458 | 210 | 445 | 203 | 431 | 190 | 402 | 174 | 368 |
| | *Med | 317 | 671 | 300 | 636 | 288 | 611 | 263 | 557 | 231 | 490 | 298 | 631 | 288 | 611 | 274 | 581 | 256 | 543 | 229 | 485 |
| | High | 343 | 727 | 337 | 715 | 319 | 675 | 298 | 631 | 255 | 540 | 342 | 725 | 326 | 691 | 307 | 650 | 284 | 602 | 257 | 544 |
| 24 | Low | 324 | 687 | 276 | 584 | 273 | 579 | 259 | 549 | 230 | 487 | 277 | 588 | 274 | 580 | 266 | 564 | 253 | 537 | 222 | 471 |
| | *Med | 420 | 889 | 400 | 847 | 375 | 795 | 345 | 731 | 314 | 666 | 364 | 771 | 353 | 747 | 335 | 710 | 317 | 671 | 283 | 600 |
| | High | 449 | 952 | 423 | 896 | 400 | 847 | 368 | 780 | 329 | 697 | 421 | 893 | 400 | 848 | 378 | 801 | 337 | 714 | 302 | 639 |
| 25 | *Low | 386 | 819 | 383 | 812 | 380 | 805 | 369 | 782 | 347 | 735 | 369 | 781 | 367 | 777 | 365 | 773 | 359 | 760 | 350 | 741 |
| | Med | 479 | 1015 | 474 | 1004 | 465 | 986 | 453 | 961 | 439 | 930 | 467 | 989 | 467 | 989 | 464 | 983 | 456 | 967 | 445 | 942 |
| | High | 545 | 1155 | 542 | 1149 | 529 | 1122 | 514 | 1090 | 490 | 1039 | 517 | 1095 | 514 | 1089 | 506 | 1072 | 495 | 1049 | 481 | 1020 |
| 30 | Low | 386 | 819 | 383 | 812 | 380 | 805 | 369 | 782 | 347 | 735 | 369 | 781 | 367 | 777 | 365 | 773 | 359 | 760 | 350 | 741 |
| | *Med | 479 | 1015 | 474 | 1004 | 465 | 986 | 453 | 961 | 439 | 930 | 467 | 989 | 467 | 989 | 464 | 983 | 456 | 967 | 445 | 942 |
| | High | 545 | 1155 | 542 | 1149 | 529 | 1122 | 514 | 1090 | 490 | 1039 | 517 | 1095 | 514 | 1089 | 506 | 1072 | 495 | 1049 | 481 | 1020 |
| 31 | *Low | 529 | 1121 | 524 | 1110 | 519 | 1099 | 503 | 1065 | 483 | 1023 | 528 | 1118 | 524 | 1111 | 518 | 1097 | 500 | 1060 | 478 | 1013 |
| | Med | 614 | 1302 | 603 | 1278 | 582 | 1233 | 565 | 1197 | 540 | 1144 | 602 | 1275 | 595 | 1261 | 577 | 1222 | 551 | 1168 | 525 | 1112 |
| | High | 683 | 1448 | 656 | 1391 | 641 | 1359 | 613 | 1298 | 577 | 1223 | 639 | 1355 | 628 | 1330 | 621 | 1317 | 598 | 1267 | 564 | 1196 |
| 36 | Low | 529 | 1121 | 524 | 1110 | 519 | 1099 | 503 | 1065 | 483 | 1023 | 528 | 1118 | 524 | 1111 | 518 | 1097 | 500 | 1060 | 478 | 1013 |
| | *Med | 614 | 1302 | 603 | 1278 | 582 | 1233 | 565 | 1197 | 540 | 1144 | 602 | 1275 | 595 | 1261 | 577 | 1222 | 551 | 1168 | 525 | 1112 |
| | High | 683 | 1448 | 656 | 1391 | 641 | 1359 | 613 | 1298 | 577 | 1223 | 639 | 1355 | 628 | 1330 | 621 | 1317 | 598 | 1267 | 564 | 1196 |
| 37 | Low | 562 | 1190 | 530 | 1122 | 496 | 1052 | 485 | 1028 | 473 | 1003 | 506 | 1072 | 477 | 1011 | 447 | 947 | 437 | 926 | 426 | 903 |
| | *Med | 678 | 1437 | 639 | 1355 | 599 | 1270 | 586 | 1241 | 572 | 1212 | 638 | 1351 | 601 | 1274 | 563 | 1194 | 551 | 1167 | 537 | 1139 |
| | High | 684 | 1449 | 674 | 1429 | 655 | 1389 | 634 | 1344 | 613 | 1298 | 642 | 1361 | 633 | 1342 | 616 | 1305 | 596 | 1263 | 575 | 1219 |
| 42 | Low | 635 | 1345 | 628 | 1331 | 614 | 1302 | 605 | 1282 | 593 | 1257 | 544 | 1153 | 540 | 1144 | 540 | 1144 | 536 | 1135 | 536 | 1135 |
| | *Med | 793 | 1681 | 762 | 1615 | 749 | 1587 | 718 | 1521 | 702 | 1487 | 705 | 1494 | 682 | 1445 | 675 | 1431 | 658 | 1395 | 633 | 1342 |
| | High | 844 | 1788 | 815 | 1727 | 790 | 1674 | 756 | 1603 | 722 | 1529 | 786 | 1666 | 750 | 1590 | 741 | 1571 | 713 | 1511 | 693 | 1469 |
| 48 | Low | 740 | 1568 | 721 | 1527 | 709 | 1502 | 676 | 1433 | 659 | 1397 | 716 | 1518 | 680 | 1440 | 665 | 1409 | 653 | 1383 | 631 | 1338 |
| | *Med | 838 | 1775 | 814 | 1724 | 789 | 1672 | 738 | 1563 | 710 | 1505 | 780 | 1652 | 743 | 1575 | 727 | 1541 | 711 | 1506 | 689 | 1459 |
| | High | 888 | 1881 | 865 | 1834 | 833 | 1765 | 799 | 1693 | 754 | 1597 | 819 | 1736 | 787 | 1668 | 762 | 1614 | 738 | 1564 | 719 | 1524 |
| 60 | Low | 784 | 1662 | 779 | 1650 | 775 | 1643 | 762 | 1614 | 740 | 1568 | 777 | 1646 | 775 | 1642 | 773 | 1639 | 769 | 1630 | 758 | 1606 |
| | *Med | 874 | 1853 | 868 | 1840 | 856 | 1813 | 824 | 1746 | 790 | 1675 | 865 | 1833 | 862 | 1826 | 859 | 1820 | 833 | 1766 | 803 | 1702 |
| | High | 984 | 2085 | 490 | 1038 | 939 | 1990 | 904 | 1916 | 868 | 1839 | 974 | 2065 | 957 | 2029 | 935 | 1981 | 905 | 1918 | 872 | 1847 |

* Factory speed setting for heating and cooling.

NOTE - All data is measured while air handler is operating with a dry DX coil and air filter installed.
Cooling speeds should not be reduced below factory setting.

BLOWER DATA

VARIABLE-SPEED BLOWER PERFORMANCE & ADJUSTMENT TABLE

| Unit Size | Operating Mode | Control Board Taps | | | | | | | | | | | | | | | |
|-----------|----------------|--------------------|------|-----|------|-----|------|-----|------|---------|------|-----|------|------|-------|------|-------|
| | | Cooling | | | | | | | | Heating | | | | | | | |
| | | A | | B | | C | | D | | A | | B | | C | | D | |
| | | L/s | cfm | L/s | cfm | L/s | cfm | L/s | cfm | L/s | cfm | L/s | cfm | L/s | cfm | L/s | cfm |
| 25 | Cooling | 400 | 850 | 330 | 700 | 285 | 600 | 235 | 500 | | | | | | | | |
| | HP Heating | | | | | | | | | 400 | 850 | 320 | 675 | 285* | 600* | 235* | 500* |
| | Continuous | 200 | 425 | 165 | 350 | 140 | 300 | 120 | 250 | | | | | | | | |
| | Aux. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 400 | 850 | 330 | 700 | 285* | 600* | 235* | 500* |
| | Emer. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 400 | 850 | 330 | 700 | 285* | 600* | 235* | 500* |
| 30, 31 | Cooling | 565 | 1200 | 470 | 1000 | 380 | 800 | 285 | 600 | | | | | | | | |
| | HP Heating | | | | | | | | | 565 | 1200 | 470 | 1000 | 380* | 800* | 285* | 600* |
| | Continuous | 285 | 600 | 235 | 500 | 190 | 400 | 165 | 350 | | | | | | | | |
| | Aux. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 565 | 1200 | 470 | 1000 | 380* | 800* | 285* | 600* |
| | Emer. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 565 | 1200 | 470 | 1000 | 380* | 800* | 285* | 600* |
| 37 | Cooling | 660 | 1400 | 580 | 1230 | 520 | 1100 | 470 | 1000 | | | | | | | | |
| | HP Heating | | | | | | | | | 660 | 1400 | 580 | 1230 | 520* | 1100* | 470* | 1000* |
| | Continuous | 330 | 700 | 290 | 615 | 260 | 550 | 235 | 500 | | | | | | | | |
| | Aux. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 660 | 1400 | 580 | 1230 | 520* | 1100* | 470* | 1000* |
| | Emer. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 660 | 1400 | 580 | 1230 | 520* | 1100* | 470* | 1000* |
| 42 | Cooling | 660 | 1400 | 580 | 1230 | 520 | 1100 | 470 | 1000 | | | | | | | | |
| | HP Heating | | | | | | | | | 660 | 1400 | 580 | 1230 | 520* | 1100* | 470* | 1000* |
| | Continuous | 330 | 700 | 290 | 615 | 260 | 550 | 235 | 500 | | | | | | | | |
| | Aux. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 660 | 1400 | 580 | 1230 | 520* | 1100* | 470* | 1000* |
| | Emer. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 660 | 1400 | 580 | 1230 | 520* | 1100* | 470* | 1000* |
| 48 | Cooling | 755 | 1600 | 685 | 1450 | 635 | 1350 | 590 | 1250 | | | | | | | | |
| | HP Heating | | | | | | | | | 755 | 1600 | 685 | 1450 | 635* | 1350* | 590* | 1250* |
| | Continuous | 375 | 800 | 340 | 725 | 320 | 675 | 295 | 625 | | | | | | | | |
| | Aux. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 755 | 1600 | 685 | 1450 | 635* | 1350* | 590* | 1250* |
| | Emer. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 755 | 1600 | 685 | 1450 | 635* | 1350* | 590* | 1250* |
| 60 | Cooling | 895 | 1900 | 875 | 1850 | 850 | 1800 | 800 | 1700 | | | | | | | | |
| | HP Heating | | | | | | | | | 895 | 1900 | 875 | 1850 | 850 | 1800 | 800 | 1700 |
| | Continuous | 450 | 950 | 435 | 925 | 425 | 900 | 400 | 850 | | | | | | | | |
| | Aux. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 895 | 1900 | 875 | 1850 | 850 | 1800 | 800 | 1700 |
| | Emer. Heat | ** | ** | ** | ** | ** | ** | ** | ** | 895 | 1900 | 875 | 1850 | 850 | 1800 | 800 | 1700 |

* This air volume is not approved for use with the highest kW heater size.

**Airflow is the greater of the COOL and HEAT values when both electric heat and heat pump are operating.

NOTES: The heating and cooling taps are factory set on "A" except model 37 is set on "B"

Adjust tap (+) will increase airflow by 10%, while tap (-) will decrease airflow by 12%.

Adjust tap "test" will cause motor to run at 70% of full airflow. Use this for troubleshooting only.

At the start of a call for cooling there is a short run at 82% of airflow for 7.5 minutes.

At the end of a call for cooling there is a blower off delay of 1.5 minutes.

If humidistat is used it will reduce cooling airflow by 10% in high humidity.

Special Note for Units Equipped with Humidistat: If using a humidistat, the Dehumidify resistor located on the bottom right of the control board must be removed.

ELECTRICAL DATA

| Air Handler Size (mBtuh) | Electric Heat Capacity | | Three Speed Blower | | | | Variable Speed Blower | | | Circuit Breaker Amps Per Stage | | |
|--------------------------|------------------------|--------|-----------------------|-------------------|-------------------|---------------------------------------------|-----------------------|------|--------------------------|--------------------------------|------|------|
| | kW | Btuh | Minimum Heat Settings | Amps | | Three Speed Blower Minimum Circuit Ampacity | Amps | | Minimum Circuit Ampacity | | | |
| | | | | ¹ 240V | ¹ 240V | | 120V | 240V | | 240 V | 120V | 240V |
| | | | | | | | | | | 1 | 2 | 3 |
| 12 Water Heat | 0 | 0 | Low | 2.0 | 1.4 | 1.8 | --- | --- | --- | 15 | --- | --- |
| 12 No Heat | 0 | 0 | Low | 2.0 | 1.4 | 1.8 | --- | --- | --- | 15 | --- | --- |
| 12 Elec. Heat | 2.5 | 8,530 | Low | --- | 1.4 | 14.8 | --- | --- | --- | 15 | --- | --- |
| 12 Elec. Heat | 5 | 17,065 | Low | --- | 1.4 | 27.8 | --- | --- | --- | 30 | --- | --- |
| 18 Water Heat | 0 | 0 | Low | 3.2 | 1.4 | 1.8 | --- | --- | --- | 15 | --- | --- |
| 18 No Heat | 0 | 0 | Low | 3.2 | 1.4 | 1.8 | --- | --- | --- | 15 | --- | --- |
| 18 Elec. Heat | 2.5 | 8,530 | Low | --- | 1.4 | 14.8 | --- | --- | --- | 15 | --- | --- |
| 18 Elec. Heat | 5 | 17,065 | Low | --- | 1.4 | 27.8 | --- | --- | --- | 30 | --- | --- |
| 18 Elec. Heat | 7.5 | 25,598 | Med | --- | 1.4 | 40.8 | --- | --- | --- | 45 | --- | --- |
| 18 Elec. Heat | 10 | 34,130 | Med | --- | 1.4 | 53.8 | --- | --- | --- | 60 | --- | --- |
| 24 Water Heat | 0 | 0 | Low | 3.2 | 1.8 | 2.3 | --- | --- | --- | 15 | --- | --- |
| 24 No Heat | 0 | 0 | Low | 3.2 | 1.8 | 2.3 | --- | --- | --- | 15 | --- | --- |
| 24 Elec. Heat | 2.5 | 8,530 | Low | --- | 1.8 | 15.3 | --- | --- | --- | 30 | --- | --- |
| 24 Elec. Heat | 5 | 17,065 | Low | --- | 1.8 | 28.3 | --- | --- | --- | 30 | --- | --- |
| 24 Elec. Heat | 7.5 | 25,598 | Low | --- | 1.8 | 41.3 | --- | --- | --- | 45 | --- | --- |
| 24 Elec. Heat | 10 | 34,130 | Med | --- | 1.8 | 54.3 | --- | --- | --- | 60 | --- | --- |
| 24 Elec. Heat | 12.5 | 42,663 | Med | --- | 1.8 | 67.4 | --- | --- | --- | 45 | 30 | --- |
| 25 Water Heat | 0 | 0 | Low | 5.3 | 2.2 | 2.8 | 4.8 | 2.4 | 3.0 | 15 | --- | --- |
| 25 No Heat | 0 | 0 | Low | 5.3 | 2.2 | 2.8 | 4.8 | 2.4 | 3.0 | 15 | --- | --- |
| 25 Elec. Heat | 2.5 | 8,530 | Low | --- | 2.2 | 15.8 | --- | 2.4 | 16.0 | 30 | --- | --- |
| 25 Elec. Heat | 5 | 17,065 | Low | --- | 2.2 | 28.8 | --- | 2.4 | 29.0 | 30 | --- | --- |
| 25 Elec. Heat | 7.5 | 25,598 | Low | --- | 2.2 | 41.8 | --- | 2.4 | 42.1 | 45 | --- | --- |
| 25 Elec. Heat | 10 | 34,130 | Low | --- | 2.2 | 54.8 | --- | 2.4 | 55.1 | 60 | --- | --- |
| 25 Elec. Heat | 12.5 | 42,663 | Low | --- | 2.2 | 67.9 | --- | 2.4 | 68.1 | 45 | 30 | --- |
| 30 Water Heat | 0 | 0 | Low | 5.3 | 2.2 | 2.8 | 5.4 | 2.7 | 3.4 | 15 | --- | --- |
| 30 No Heat | 0 | 0 | Low | 5.3 | 2.2 | 2.8 | 5.4 | 2.7 | 3.4 | 15 | --- | --- |
| 30 Elec. Heat | 2.5 | 8,530 | Low | --- | 2.2 | 15.8 | --- | 2.7 | 16.4 | 30 | --- | --- |
| 30 Elec. Heat | 5 | 17,065 | Low | --- | 2.2 | 28.8 | --- | 2.7 | 29.4 | 45 | --- | --- |
| 30 Elec. Heat | 7.5 | 25,598 | Low | --- | 2.2 | 41.8 | --- | 2.7 | 42.4 | 45 | --- | --- |
| 30 Elec. Heat | 10 | 34,130 | Low | --- | 2.2 | 54.8 | --- | 2.7 | 55.5 | 60 | --- | --- |
| 30 Elec. Heat | 12.5 | 42,663 | Med | --- | 2.2 | 67.9 | --- | 2.7 | 68.5 | 45 | 30 | --- |
| 30 Elec. Heat | 15 | 51,195 | Med | --- | 2.2 | 80.9 | --- | 2.7 | 81.5 | 60 | 30 | --- |
| 30 Elec. Heat | 17.5 | 59,728 | Med | --- | 2.2 | 93.9 | --- | 2.7 | 94.5 | 60 | 45 | --- |
| 31 Water Heat | 0 | 0 | Low | 7.1 | 2.6 | 3.3 | 5.4 | 2.7 | 3.4 | 15 | --- | --- |
| 31 No Heat | 0 | 0 | Low | 7.1 | 2.6 | 3.3 | 5.4 | 2.7 | 3.4 | 15 | --- | --- |
| 31 Elec. Heat | 2.5 | 8,530 | Low | --- | 2.6 | 16.3 | --- | 2.7 | 16.4 | 30 | --- | --- |
| 31 Elec. Heat | 5 | 17,065 | Low | --- | 2.6 | 29.3 | --- | 2.7 | 29.4 | 45 | --- | --- |
| 31 Elec. Heat | 7.5 | 25,598 | Low | --- | 2.6 | 42.3 | --- | 2.7 | 42.4 | 45 | --- | --- |
| 31 Elec. Heat | 10 | 34,130 | Low | --- | 2.6 | 55.3 | --- | 2.7 | 55.5 | 60 | --- | --- |
| 31 Elec. Heat | 12.5 | 42,663 | Low | --- | 2.6 | 68.4 | --- | 2.7 | 68.5 | 45 | 30 | --- |
| 31 Elec. Heat | 15 | 51,195 | Low | --- | 2.6 | 81.4 | --- | 2.7 | 81.5 | 60 | 30 | --- |
| 31 Elec. Heat | 17.5 | 59,728 | Low | --- | 2.6 | 94.4 | --- | 2.7 | 94.5 | 60 | 45 | --- |

NOTE - Electric heat capacity (kW) in **bold** indicates that heat packages require and include circuit breakers. Optional for others.
¹ For 208 Volts use 0.751 correction factor for kW & Btuh.

ELECTRICAL DATA

| Air Handler Size (mBtuh) | Electric Heat Capacity | | Three Speed Blower | | | | Variable Speed Blower | | | Circuit Breaker Amps Per Stage | | |
|--------------------------|------------------------|--------|-----------------------|-------------------|-------------------|---------------------------------------------|-----------------------|-------|--------------------------|--------------------------------|-------|-----|
| | kW | Btuh | Minimum Heat Settings | Amps | | Three Speed Blower Minimum Circuit Ampacity | Amps | | Minimum Circuit Ampacity | | | |
| | | | | ¹ 240V | ¹ 240V | 120V | 240V | 240 V | 120V | 240V | 240 V | 1 |
| 36 Water Heat | 0 | 0 | Low | 7.1 | 2.6 | 3.3 | --- | --- | --- | 15 | --- | --- |
| 36 No Heat | 0 | 0 | Low | 7.1 | 2.6 | 3.3 | --- | --- | --- | 15 | --- | --- |
| 36 Elec. Heat | 2.5 | 8,530 | Low | --- | 2.6 | 16.3 | --- | --- | --- | 30 | --- | --- |
| 36 Elec. Heat | 5 | 17,065 | Low | --- | 2.6 | 29.3 | --- | --- | --- | 30 | --- | --- |
| 36 Elec. Heat | 7.5 | 25,598 | Low | --- | 2.6 | 42.3 | --- | --- | --- | 45 | --- | --- |
| 36 Elec. Heat | 10 | 34,130 | Low | --- | 2.6 | 55.3 | --- | --- | --- | 60 | --- | --- |
| 36 Elec. Heat | 12.5 | 42,663 | Med | --- | 2.6 | 68.4 | --- | --- | --- | 45 | 30 | --- |
| 36 Elec. Heat | 15 | 51,195 | Med | --- | 2.6 | 81.4 | --- | --- | --- | 60 | 30 | --- |
| 36 Elec. Heat | 17.5 | 59,728 | Med | --- | 2.6 | 94.4 | --- | --- | --- | 60 | 45 | --- |
| 36 Elec. Heat | 20 | 68,260 | Med | --- | 2.6 | 107.4 | --- | --- | --- | 60 | 60 | --- |
| 37 Water Heat | 0 | 0 | L | 7.1 | 2.6 | 3.3 | 6 | 3.0 | 3.8 | 15 | --- | --- |
| 37 No Heat | 0 | 0 | L | 7.1 | 2.6 | 3.3 | 6 | 3.0 | 3.8 | 15 | --- | --- |
| 37 Elec. Heat | 5 | 17,065 | L | --- | 2.6 | 29.3 | --- | 3.0 | 29.8 | 45 | --- | --- |
| 37 Elec. Heat | 10 | 34,130 | L | --- | 2.6 | 55.3 | --- | 3.0 | 55.8 | 45 | 30 | --- |
| 37 Elec. Heat | 12.5 | 42,663 | M | --- | 2.6 | 68.4 | --- | 3.0 | 68.9 | 60 | 30 | --- |
| 37 Elec. Heat | 15 | 51,195 | M | --- | 2.6 | 81.4 | --- | 3.0 | 81.9 | 60 | 30 | --- |
| 37 Elec. Heat | 20 | 68,260 | M | --- | 2.6 | 107.4 | --- | 3.0 | 107.9 | 60 | 45 | 30 |
| 42 Water Heat | 0 | 0 | L | 8.5 | 3.0 | 3.8 | 6 | 3.0 | 3.8 | 15 | --- | --- |
| 42 No Heat | 0 | 0 | L | 8.5 | 3.0 | 3.8 | 6 | 3.0 | 3.8 | 15 | --- | --- |
| 42 Elec. Heat | 5 | 17,065 | L | --- | 3.0 | 29.8 | --- | 3.0 | 29.8 | 45 | --- | --- |
| 42 Elec. Heat | 10 | 34,130 | L | --- | 3.0 | 55.8 | --- | 3.0 | 55.8 | 45 | 30 | --- |
| 42 Elec. Heat | 12.5 | 42,663 | L | --- | 3.0 | 68.9 | --- | 3.0 | 68.9 | 45 | 30 | --- |
| 42 Elec. Heat | 15 | 51,195 | M | --- | 3.0 | 81.9 | --- | 3.0 | 81.9 | 60 | 30 | --- |
| 42 Elec. Heat | 20 | 68,260 | M | --- | 3.0 | 107.9 | --- | 3.0 | 107.9 | 60 | 45 | 30 |
| 48 Water Heat | 0 | 0 | L | 7.5 | 4.4 | 5.5 | 7 | 3.5 | 4.4 | 15 | --- | --- |
| 48 No Heat | 0 | 0 | L | 7.5 | 4.4 | 5.5 | 7 | 3.5 | 4.4 | 15 | --- | --- |
| 48 Elec. Heat | 5 | 17,065 | L | --- | 4.4 | 31.5 | --- | 3.5 | 30.4 | 45 | --- | --- |
| 48 Elec. Heat | 10 | 34,130 | L | --- | 4.4 | 57.6 | --- | 3.5 | 56.5 | 60 | --- | --- |
| 48 Elec. Heat | 12.5 | 42,663 | L | --- | 4.4 | 70.6 | --- | 3.5 | 69.5 | 45 | 30 | --- |
| 48 Elec. Heat | 15 | 51,195 | L | --- | 4.4 | 83.6 | --- | 3.5 | 82.5 | 60 | 45 | --- |
| 48 Elec. Heat | 20 | 68,260 | L | --- | 4.4 | 109.7 | --- | 3.5 | 108.5 | 60 | 45 | 30 |
| 48 Elec. Heat | 25 | 85,325 | M | --- | 4.4 | 135.7 | --- | 4.3 | 135.6 | 60 | 60 | 30 |
| 60 Water Heat | 0 | 0 | L | 10.5 | 4.3 | 5.4 | 10.2 | 5.1 | 6.4 | 15 | --- | --- |
| 60 No Heat | 0 | 0 | L | 10.5 | 4.3 | 5.4 | 10.2 | 5.1 | 6.4 | 15 | --- | --- |
| 60 Elec. Heat | 5 | 17,065 | L | --- | 4.3 | 31.4 | --- | 5.1 | 32.4 | 45 | --- | --- |
| 60 Elec. Heat | 10 | 34,130 | L | --- | 4.3 | 57.5 | --- | 5.1 | 58.5 | 60 | --- | --- |
| 60 Elec. Heat | 12.5 | 42,663 | L | --- | 4.3 | 70.5 | --- | 5.1 | 71.5 | 45 | 30 | --- |
| 60 Elec. Heat | 15 | 51,195 | L | --- | 4.3 | 83.5 | --- | 5.1 | 84.5 | 60 | 30 | --- |
| 60 Elec. Heat | 20 | 68,260 | L | --- | 4.3 | 109.5 | --- | 5.1 | 110.5 | 60 | 60 | --- |
| 60 Elec. Heat | 25 | 85,325 | M | --- | 4.3 | 135.6 | --- | 4.3 | 135.6 | 60 | 60 | 30 |

NOTE - Electric heat capacity (kW) in **bold** indicates that heat packages require and include circuit breakers. Optional for others.

¹ For 208 Volts use 0.751 correction factor for kW & Btuh.

WATER HEATING CAPACITY

WATER HEATING CAPACITY KW (BTUH)

12, 18 and 24

| Coil Size No. of rows | Entering Water Temp. °C | 3.7 LPM (1 GPM) | | | | | | 7.4 LPM (2 GPM) | | | | | | 11.1 LPM (3 GPM) | | | | | | | | | | | | |
|-----------------------|-------------------------|---------------------|---------|-----|---------|--------|-------|---------------------|---------|--------|---------|-----|------|---------------------|---------|--------|---------|--------|-----|-----|-------|--------|-------|--------|-------|--------|
| | | Water Pressure Drop | | Pa | in. ft. | L/s | cfm | Water Pressure Drop | | Pa | in. ft. | L/s | cfm | Water Pressure Drop | | Pa | in. ft. | L/s | cfm | | | | | | | |
| | | Pa | in. ft. | | | | | Pa | in. ft. | | | | | Pa | in. ft. | | | | | | | | | | | |
| 2 | 49 | 120 | 50 | 0.2 | 2.64 | 9,004 | 3.22 | 10,979 | 3.49 | 11,914 | 149 | 0.6 | 3.41 | 11,639 | 4.10 | 13,997 | 4.60 | 15,683 | 348 | 1.4 | 3.67 | 12,536 | 4.51 | 15,396 | 5.14 | 17,522 |
| | 60 | 140 | 50 | 0.2 | 3.87 | 13,209 | 4.57 | 15,600 | 4.97 | 16,942 | 149 | 0.6 | 4.82 | 16,452 | 5.81 | 19,823 | 6.52 | 22,240 | 323 | 1.3 | 5.18 | 17,683 | 6.38 | 21,757 | 7.27 | 24,793 |
| | 71 | 160 | 50 | 0.2 | 5.17 | 17,628 | 5.95 | 20,302 | 6.47 | 22,065 | 149 | 0.6 | 6.25 | 21,316 | 7.54 | 25,727 | 8.45 | 28,834 | 323 | 1.3 | 6.70 | 22,872 | 8.26 | 28,184 | 9.42 | 32,151 |
| 3 | 49 | 120 | 50 | 0.2 | 9.59 | 32,738 | 7.35 | 25,065 | 7.99 | 27,260 | 149 | 0.6 | 7.68 | 26,217 | 9.29 | 31,687 | 10.44 | 35,621 | 323 | 1.3 | 8.23 | 28,091 | 10.16 | 34,659 | 11.60 | 39,573 |
| | 60 | 140 | 50 | 0.2 | 13.81 | 44,044 | 10.44 | 33,771 | 14.38 | 14,944 | 224 | 0.9 | 4.26 | 14,528 | 5.22 | 17,826 | 5.91 | 20,160 | 472 | 1.9 | 4.57 | 15,582 | 5.75 | 19,636 | 6.64 | 22,659 |
| | 71 | 160 | 50 | 0.2 | 19.81 | 58,400 | 14.72 | 46,320 | 20.86 | 21,177 | 224 | 0.9 | 6.01 | 20,496 | 7.38 | 25,194 | 8.36 | 28,524 | 472 | 1.9 | 6.43 | 21,942 | 8.12 | 27,701 | 9.38 | 32,004 |
| 25, 30 and 36 | 82 | 180 | 50 | 0.2 | 7.89 | 26,908 | 9.14 | 31,193 | 9.93 | 33,891 | 224 | 0.9 | 9.54 | 32,564 | 11.77 | 40,145 | 13.34 | 45,532 | 448 | 1.8 | 10.19 | 34,771 | 12.90 | 44,014 | 14.93 | 50,947 |

25, 30 and 36

| Coil Size No. of rows | Entering Water Temp. °C | 7.4 LPM (2 GPM) | | | | | | 11.1 LPM (3 GPM) | | | | | | 14.8 LPM (4 GPM) | | | | | | | | | | | | |
|-----------------------|-------------------------|---------------------|---------|-----|---------|--------|-------|---------------------|---------|--------|---------|-----|-------|---------------------|---------|--------|---------|--------|-----|-----|-------|--------|-------|--------|-------|--------|
| | | Water Pressure Drop | | Pa | in. ft. | L/s | cfm | Water Pressure Drop | | Pa | in. ft. | L/s | cfm | Water Pressure Drop | | Pa | in. ft. | L/s | cfm | | | | | | | |
| | | Pa | in. ft. | | | | | Pa | in. ft. | | | | | Pa | in. ft. | | | | | | | | | | | |
| 2 | 49 | 120 | 124 | 0.5 | 5.06 | 17,277 | 5.29 | 18,048 | 5.60 | 19,124 | 249 | 1.0 | 5.74 | 19,588 | 6.01 | 20,523 | 6.45 | 21,997 | 423 | 1.7 | 6.15 | 20,990 | 6.46 | 22,035 | 6.96 | 23,750 |
| | 60 | 140 | 124 | 0.5 | 7.19 | 24,529 | 7.51 | 25,619 | 7.96 | 27,164 | 249 | 1.0 | 8.13 | 27,747 | 8.52 | 29,072 | 9.13 | 31,155 | 423 | 1.7 | 8.70 | 29,682 | 9.13 | 31,163 | 9.85 | 33,616 |
| | 71 | 160 | 124 | 0.5 | 9.35 | 31,899 | 9.76 | 33,313 | 10.36 | 35,341 | 249 | 1.0 | 10.55 | 36,013 | 11.06 | 37,734 | 11.86 | 40,464 | 398 | 1.6 | 11.27 | 38,472 | 11.84 | 40,396 | 12.78 | 43,602 |
| 3 | 49 | 120 | 174 | 0.7 | 6.25 | 21,309 | 6.68 | 22,783 | 7.15 | 24,501 | 348 | 1.4 | 7.18 | 24,501 | 7.67 | 26,156 | 8.25 | 28,137 | 597 | 2.4 | 7.52 | 25,648 | 8.26 | 28,187 | 8.96 | 30,578 |
| | 60 | 140 | 149 | 0.6 | 8.84 | 30,149 | 9.45 | 32,261 | 10.04 | 34,255 | 323 | 1.3 | 9.96 | 33,970 | 10.84 | 36,982 | 11.67 | 39,809 | 572 | 2.3 | 10.60 | 36,180 | 11.66 | 39,801 | 12.66 | 43,208 |
| | 71 | 160 | 149 | 0.6 | 11.46 | 39,095 | 12.27 | 41,866 | 13.03 | 44,472 | 323 | 1.3 | 12.89 | 43,988 | 14.05 | 47,928 | 15.13 | 51,621 | 547 | 2.2 | 13.72 | 46,799 | 15.10 | 51,526 | 16.40 | 55,970 |
| 31 and 37 | 82 | 180 | 149 | 0.6 | 14.10 | 48,121 | 15.11 | 51,564 | 16.06 | 54,794 | 323 | 1.3 | 15.85 | 54,077 | 17.28 | 58,963 | 18.62 | 63,537 | 547 | 2.2 | 16.85 | 57,481 | 18.56 | 63,331 | 20.17 | 68,827 |

31 and 37

| Coil Size No. of rows | Entering Water Temp. °C | 11.1 LPM (3 GPM) | | | | | | 14.8 LPM (4 GPM) | | | | | | 18.5 LPM (5 GPM) | | | | | | | | | | | | |
|-----------------------|-------------------------|---------------------|---------|-----|---------|--------|-------|---------------------|---------|--------|---------|-----|-------|---------------------|---------|--------|---------|--------|-----|-----|-------|--------|-------|--------|-------|--------|
| | | Water Pressure Drop | | Pa | in. ft. | L/s | cfm | Water Pressure Drop | | Pa | in. ft. | L/s | cfm | Water Pressure Drop | | Pa | in. ft. | L/s | cfm | | | | | | | |
| | | Pa | in. ft. | | | | | Pa | in. ft. | | | | | Pa | in. ft. | | | | | | | | | | | |
| 3 | 49 | 120 | 199 | 0.8 | 8.42 | 28,726 | 8.77 | 29,931 | 9.09 | 31,014 | 348 | 1.4 | 9.10 | 31,055 | 9.53 | 32,522 | 9.92 | 33,856 | 497 | 2 | 9.55 | 32,602 | 10.04 | 34,260 | 10.49 | 35,779 |
| | 60 | 140 | 199 | 0.8 | 11.90 | 40,610 | 12.41 | 42,329 | 12.86 | 43,874 | 323 | 1.3 | 12.85 | 43,847 | 13.46 | 45,937 | 14.02 | 47,838 | 497 | 2 | 13.48 | 45,986 | 14.17 | 48,344 | 14.80 | 50,505 |
| | 71 | 160 | 199 | 0.8 | 15.42 | 52,624 | 16.08 | 54,869 | 16.67 | 56,888 | 323 | 1.3 | 16.63 | 56,759 | 17.43 | 59,485 | 18.16 | 61,965 | 472 | 1.9 | 17.43 | 59,479 | 18.33 | 62,550 | 19.16 | 65,366 |
| 4 | 49 | 120 | 249 | 1.0 | 9.81 | 33,478 | 10.25 | 34,963 | 10.65 | 36,329 | 423 | 1.7 | 10.61 | 36,193 | 11.15 | 38,088 | 11.65 | 39,751 | 646 | 2.6 | 11.12 | 37,946 | 11.74 | 40,069 | 12.31 | 42,015 |
| | 60 | 140 | 249 | 1.0 | 13.85 | 47,246 | 14.47 | 49,386 | 15.03 | 51,301 | 423 | 1.7 | 14.95 | 51,024 | 15.73 | 53,674 | 16.44 | 56,080 | 646 | 2.6 | 15.66 | 53,450 | 16.55 | 56,462 | 17.36 | 59,224 |
| | 71 | 160 | 249 | 1.0 | 17.92 | 61,139 | 18.73 | 63,925 | 19.47 | 66,420 | 423 | 1.7 | 19.33 | 65,969 | 20.34 | 69,616 | 21.26 | 72,548 | 622 | 2.5 | 20.24 | 69,055 | 21.39 | 72,970 | 22.44 | 76,562 |
| 31 and 37 | 82 | 180 | 249 | 1.0 | 22.02 | 75,121 | 23.02 | 78,563 | 23.93 | 81,645 | 398 | 1.6 | 23.74 | 80,995 | 24.11 | 82,250 | 26.12 | 89,117 | 597 | 2.4 | 24.83 | 84,734 | 26.25 | 89,561 | 27.55 | 93,993 |

All capacities are based on 21°C (70°F) entering air temperature.
 For entering air temperatures other than 21°C (70°F) use the following capacity correction factors:
 22.2°C (72°F) x 0.982, 20°C (68°F) x 1.02, 18.8°C (66°F) x 1.04.
 Glycol correction factors: (10% X 0.98), (20% X 0.95), (30% X 0.92), (40% X 0.88)

WATER HEATING CAPACITY

42 and 48

| Coil Size No. of rows | Entering Water Temp. °C | 11.1 LPM (3 GPM) | | | | | | 14.8 LPM (4 GPM) | | | | | | 18.5 LPM (5 GPM) | | | | | | | | | | | | |
|-----------------------|-------------------------|---------------------|---------|-----|---------|--------|---------|---------------------|---------|--------|---------|-----|---------|---------------------|---------|--------|---------|---------|---------|-----|-------|---------|-------|---------|-------|---------|
| | | Water Pressure Drop | | L/s | | cfm | | Water Pressure Drop | | L/s | | cfm | | Water Pressure Drop | | L/s | | cfm | | | | | | | | |
| | | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | | | | | | | |
| 3 | 49 | 120 | 199 | 0.8 | 9.64 | 32,883 | 9.87 | 33,695 | 10.09 | 34,441 | 348 | 1.4 | 10.61 | 36,190 | 10.91 | 37,221 | 11.19 | 38,173 | 497 | 2.0 | 11.27 | 38,464 | 11.62 | 39,660 | 11.93 | 40,722 |
| | 60 | 140 | 199 | 0.8 | 13.64 | 46,541 | 13.98 | 47,701 | 14.29 | 48,766 | 323 | 1.3 | 15.00 | 51,167 | 15.44 | 52,686 | 15.82 | 53,996 | 497 | 2.0 | 15.92 | 54,329 | 16.42 | 56,032 | 16.89 | 57,617 |
| | 71 | 160 | 199 | 0.8 | 17.69 | 60,372 | 18.14 | 61,888 | 18.55 | 63,279 | 323 | 1.3 | 19.43 | 66,310 | 20.00 | 68,229 | 20.52 | 70,004 | 472 | 1.9 | 20.62 | 70,350 | 21.27 | 72,572 | 21.87 | 74,640 |
| 4 | 49 | 120 | 249 | 1.0 | 11.32 | 38,636 | 11.61 | 39,631 | 11.88 | 40,540 | 423 | 1.7 | 12.52 | 42,707 | 12.90 | 44,006 | 13.25 | 45,204 | 646 | 2.6 | 13.32 | 45,457 | 13.77 | 46,988 | 14.19 | 48,409 |
| | 60 | 140 | 249 | 1.0 | 16.00 | 54,582 | 16.41 | 55,996 | 16.79 | 57,288 | 423 | 1.7 | 17.67 | 60,284 | 18.21 | 62,131 | 18.71 | 63,834 | 646 | 2.6 | 18.79 | 64,115 | 19.43 | 66,290 | 20.02 | 68,310 |
| | 71 | 160 | 249 | 1.0 | 20.72 | 70,692 | 21.26 | 72,535 | 21.75 | 74,216 | 423 | 1.7 | 22.87 | 78,023 | 23.57 | 80,428 | 24.22 | 82,647 | 622 | 2.5 | 24.30 | 82,925 | 25.13 | 85,756 | 25.90 | 88,386 |
| 60 | 82 | 180 | 249 | 1.0 | 25.47 | 86,924 | 26.14 | 89,200 | 26.75 | 91,276 | 398 | 1.6 | 28.10 | 95,879 | 28.97 | 98,851 | 29.77 | 101,592 | 597 | 2.4 | 29.85 | 101,845 | 30.87 | 105,340 | 31.82 | 108,588 |

60

| Coil Size No. of rows | Entering Water Temp. °C | 11.1 LPM (3 GPM) | | | | | | 14.8 LPM (4 GPM) | | | | | | 18.5 LPM (5 GPM) | | | | | | | | | | | | |
|-----------------------|-------------------------|---------------------|---------|-----|---------|--------|---------|---------------------|---------|---------|---------|-----|---------|---------------------|---------|---------|---------|---------|---------|-----|-------|---------|-------|---------|-------|---------|
| | | Water Pressure Drop | | L/s | | cfm | | Water Pressure Drop | | L/s | | cfm | | Water Pressure Drop | | L/s | | cfm | | | | | | | | |
| | | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | Pa | in. ft. | | | | | | | |
| 3 | 49 | 120 | 298 | 1.2 | 10.93 | 37,308 | 11.12 | 37,936 | 11.29 | 38,521 | 522 | 2.1 | 12.20 | 41,636 | 12.44 | 42,459 | 12.67 | 43,229 | 796 | 3.2 | 13.09 | 44,672 | 13.38 | 45,650 | 13.65 | 46,570 |
| | 60 | 140 | 298 | 1.2 | 15.47 | 52,797 | 15.74 | 53,693 | 15.98 | 54,526 | 522 | 2.1 | 17.25 | 58,874 | 17.60 | 60,047 | 17.92 | 61,145 | 796 | 3.2 | 18.50 | 63,115 | 15.97 | 54,508 | 19.29 | 65,818 |
| | 71 | 160 | 298 | 1.2 | 20.07 | 68,481 | 20.41 | 69,650 | 20.73 | 70,737 | 497 | 2.0 | 22.36 | 76,308 | 22.81 | 77,839 | 23.23 | 79,273 | 771 | 3.1 | 23.96 | 81,747 | 24.49 | 83,564 | 24.99 | 85,273 |
| 4 | 49 | 120 | 274 | 1.1 | 12.80 | 43,662 | 13.01 | 44,406 | 13.22 | 45,095 | 472 | 1.9 | 14.39 | 49,104 | 14.69 | 50,118 | 14.97 | 51,065 | 721 | 2.9 | 15.50 | 52,882 | 15.86 | 54,114 | 16.20 | 55,271 |
| | 60 | 140 | 274 | 1.1 | 18.07 | 61,666 | 18.38 | 62,721 | 18.67 | 63,698 | 472 | 1.9 | 20.32 | 69,318 | 20.74 | 70,759 | 21.13 | 72,104 | 696 | 2.8 | 21.86 | 74,605 | 22.38 | 76,356 | 22.86 | 77,999 |
| | 71 | 160 | 274 | 1.1 | 23.40 | 79,853 | 23.80 | 81,224 | 24.18 | 82,492 | 448 | 1.8 | 26.30 | 89,723 | 26.84 | 91,598 | 27.36 | 93,347 | 696 | 2.8 | 28.29 | 96,514 | 23.09 | 78,793 | 29.58 | 100,931 |
| 60 | 82 | 180 | 274 | 1.1 | 28.77 | 98,172 | 29.27 | 99,863 | 29.73 | 101,427 | 448 | 1.8 | 32.32 | 110,265 | 32.99 | 112,579 | 33.63 | 114,739 | 671 | 2.7 | 34.75 | 118,557 | 35.57 | 121,369 | 36.34 | 124,009 |

All capacities are based on 21°C (70°F) entering air temperature.
 For entering air temperatures other than 21°C (70°F) use the following capacity correction factors:
 22.2°C (72°F) x 0.982, 20°C (68°F) x 1.02, 18.8°C (66°F) x 1.04.
 Glycol correction factors: (10% X 0.98), (20% X 0.95), (30% X 0.92), (40% X 0.88)

Hydronic System Design

Includes: Heating coil selection, line sizing and selected pump supplied by other

Sample Application

10.5 kW Cooling Load
 82°C Water Temp
 40% Glycol Mixture
 17.6 kW Heat Required

(1) From the 10.5 kW heating capacity tables select a hot water coil that supplies at least 17.6 kW at 565 L/s, 82°C water temperature

The 3 row coil supplies 20.2 kW @ 14.8 LPM, 0.5 kPa pressure drop

Correct capacity for 40% glycol (correction factors found below capacity chart)

Corrected coil heating capacity (kW)

$$\begin{array}{r} 20.2 \\ \times 0.88 \\ \hline = 17.7 \end{array}$$

(2) Determine total equivalent line length

Note: Use the following line sizes as a guide for initial selection

| | | |
|---------------------|---------------------|---------------------|
| 1 - 11.1 LPM, 19 mm | 4 - 18.5 LPM, 25 mm | 6 - 29.6 LPM, 32 mm |
|---------------------|---------------------|---------------------|

| Line size | 25 mm | | Equiv. length of pipe (Table 3) | | | |
|-------------------------------------|-----------------|---|---------------------------------|---|---------------|-----------------|
| Total number of fittings | <u>Quantity</u> | | | = | | |
| 90° SR elbows | <u>20</u> | X | <u>0.79 m</u> | = | <u>16.4 m</u> | <u>16.4 m</u> |
| 90° LR elbows | <u>0</u> | X | <u>0</u> | = | <u>0</u> | + <u>0</u> |
| 45° elbows | <u>0</u> | X | <u>0</u> | = | <u>0</u> | + <u>0</u> |
| gate valves | <u>2</u> | X | <u>533 mm</u> | = | <u>1.2 m</u> | + <u>1.1 m</u> |
| Total supply and return line length | | | | | | + <u>56.7 m</u> |
| Total equivalent line length | | | | | | = 74.3 m |

(3) Determine total pump head required

Press. Drop/Pa
(Table 1)

| | | | | | | |
|---------------------------------------------------------------|---------------|---|------------|---|-------------|-----------------|
| Total equivalent line length | <u>74.3 m</u> | X | <u>3.7</u> | = | <u>2.75</u> | <u>1.1 m</u> |
| Total pressure drop through coil (found on capacity chart) | | | | | | + <u>0.67 m</u> |
| Line length correction factor for 40% glycol @ 82°C (Table 2) | | | | | | X <u>1.12</u> |
| Total pump head required | | | | | | 2.0 m |

(4) Now select a pump that supplies 14.8 LPM with at least 2.0 m head capability.

Note: If desired, recalculation can be done with another line size to vary pump requirement.

| Nominal Pipe Size | LPM | | | | | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 1 | 1.25 | 1.5 | 1.75 | 2 | 2.25 | 2.5 | 2.75 | 3 | 3.25 | 3.5 | 3.75 | 4 | 4.5 | 5 | 6 | 7 | 8 |
| 1/2 in. | .030 | .048 | .065 | .083 | .100 | .125 | .150 | .175 | .200 | - | - | - | - | - | - | - | - | - |
| 3/4 in. | .005 | .009 | .012 | .016 | .019 | .024 | .029 | .034 | .039 | .045 | .050 | .056 | .062 | .077 | .092 | .130 | - | - |
| 1 in. | - | - | - | - | .005 | .006 | .007 | .008 | .009 | .011 | .012 | .014 | .015 | .019 | .023 | .033 | .042 | .053 |
| 1-1/4 in. | - | - | - | - | - | - | - | - | - | - | - | - | .005 | .007 | .008 | .011 | .015 | .018 |

| % Glycol | 60°C | 71°C | 82°C |
|----------|------|------|------|
| 10 | 1.04 | 1.04 | 1.02 |
| 20 | 1.08 | 1.07 | 1.04 |
| 30 | 1.13 | 1.11 | 1.08 |
| 40 | 1.19 | 1.16 | 1.12 |
| 50 | 1.24 | 1.21 | 1.17 |

| Pipe Size | 90° SR el | 90° LR el | 45° el | gate valve |
|-----------|-----------|-----------|--------|------------|
| 1/2" | 1.5 | 0.8 | 1 | 1 |
| 3/4" | 2 | 1 | 1.4 | 1.4 |
| 1" | 2.7 | 1.3 | 1.9 | 1.9 |
| 1 1/4" | 3.6 | 1.8 | 2.5 | 2.5 |

MAXIMUM LINE LENGTHS FOR HEATING COILS

Maximum Line Lengths for Heating Coils Using Furnished Pump

All line lengths are total for supply and return

| Air Handler Size | Water Coil Size (rows) | Nominal Pipe Size (ID) | Maximum Supply Pipe Length - m (ft.) type K copper | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|-----|-----|
| | | | LPM GPM LPM GPM LPM GPM LPM GPM LPM GPM LPM GPM LPM GPM LPM GPM LPM GPM LPM GPM LPM GPM LPM GPM LPM GPM LPM GPM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 3.7 | 1 | 5 | 1.3 | 5.5 | 1.5 | 6.6 | 1.8 | 7.4 | 2 | 8.5 | 2 | 9 | 2.5 | 10 | 3 | 11 | 3 | 12 | 3.3 | 13 | 3.5 | 14 | 3.8 | 15 | 4 | 16 | 4.3 | 16.5 | 4.5 | 18 | 4.8 | 18.5 | 5 | |
| 12, 18, 24 | 2 | 13 | 1/2 | 78 | 256 | 45 | 149 | 30 | 100 | 22 | 71 | 16 | 53 | 11 | 35 | 7 | 23 | 5 | 15 | 2 | 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |
| | | 19 | 3/4 | --- | --- | --- | 141 | 464 | 110 | 361 | 80 | 263 | 60 | 198 | 46 | 152 | 36 | 118 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |
| | 25 | 1/2 | 78 | 256 | 45 | 148 | 30 | 98 | 21 | 70 | 16 | 51 | 10 | 33 | 6 | 20 | 4 | 12 | 2 | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |
| 30, 36 | 3 | 19 | 3/4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |
| | | 25 | 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 13 | 1/2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |
| 31, 37, 42, 48 | 4 | 19 | 3/4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |
| | | 25 | 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 19 | 3/4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 60 | 3 | 19 | 3/4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | | 25 | 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | 32 | 1 1/4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 77 | 4 | 19 | 3/4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 25 | 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | 32 | 1 1/4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

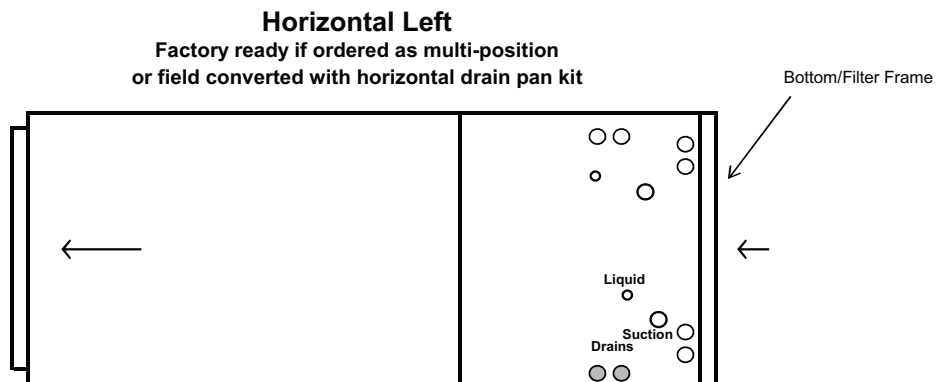
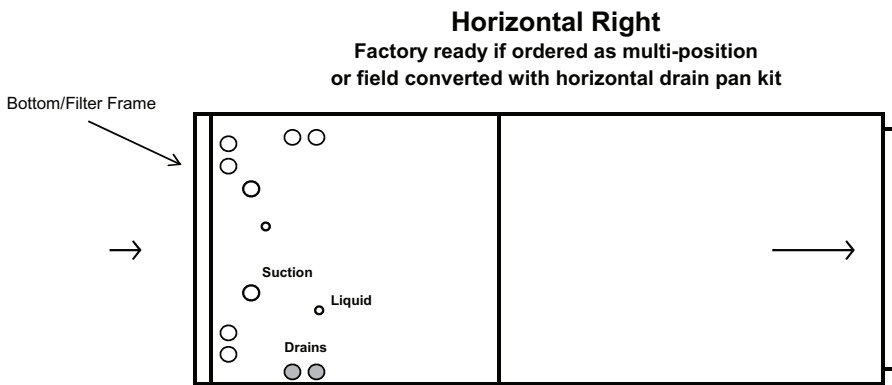
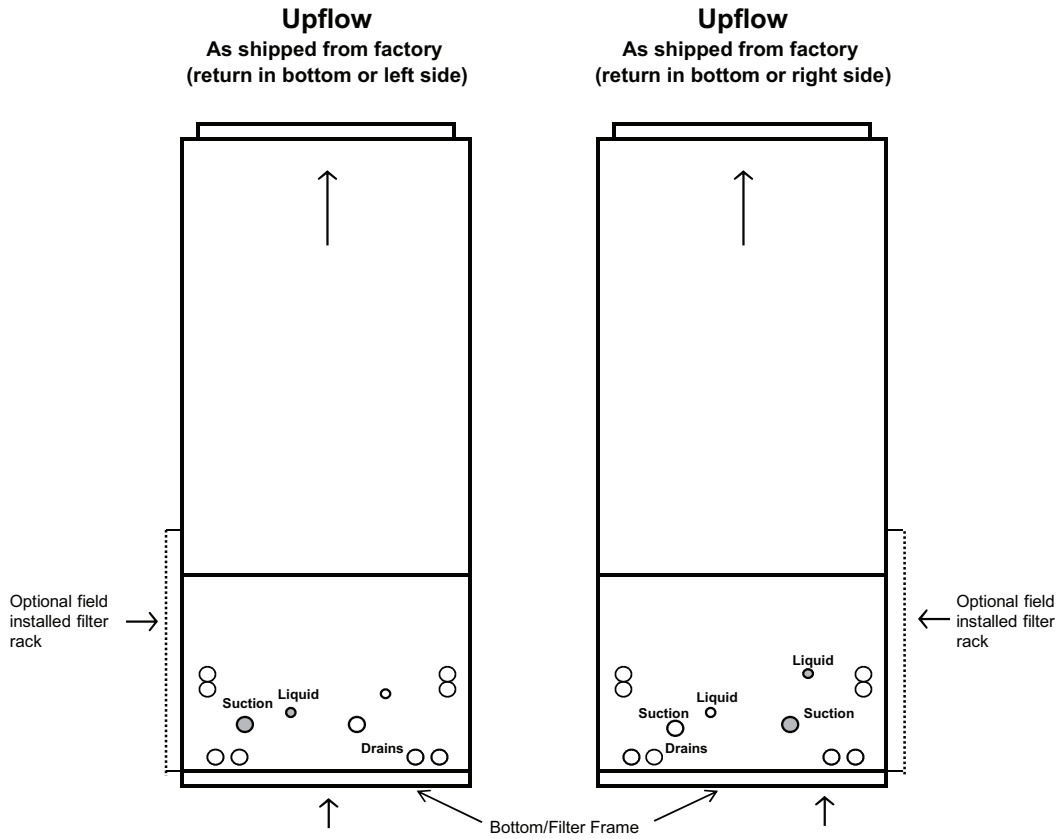
- Notes:
- Line lengths are based on water only. To adjust maximum line lengths for glycol, divide length by the factors shown in Table 2.
 - IMPORTANT: Glycol should never be used in a potable water system.
 - All lengths are based on closed loop systems.
 - Line lengths in **bold** should not be used when a water heater is the source of heat. When using a boiler for these line lengths, excessive line temperature loss will occur and must be accounted for.
 - Supply and return lines must be properly insulated to reduce temperature loss and to prevent freezing when passing through an unconditioned space.
 - All lengths include (12) 90° short radius elbows. To adjust for extra or fewer fittings, use the factors in Table 1.
 - Always use full flow ball or gate valves to minimize pressure drop.

MAXIMUM LINE LENGTHS FOR HEATING COILS

| TABLE 1 | | Equivalent length of pipe | | | | | | | |
|-----------|-------|---------------------------|-----|-----------|-----|--------|-----|------------|-----|
| Pipe size | | 90° SR el | | 90° LR el | | 45° el | | Gate Valve | |
| mm | in. | mm | ft. | mm | ft. | mm | ft. | mm | ft. |
| 13 | 1/2 | 457 | 1.5 | 244 | 0.8 | 254 | 1 | 254 | 1 |
| 19 | 3/4 | 610 | 2 | 254 | 1 | 427 | 1.4 | 427 | 1.4 |
| 25 | 1 | 822 | 2.7 | 396 | 1.3 | 579 | 1.9 | 579 | 1.9 |
| 32 | 1-1/4 | 1097 | 3.6 | 549 | 1.8 | 762 | 2.5 | 762 | 2.5 |

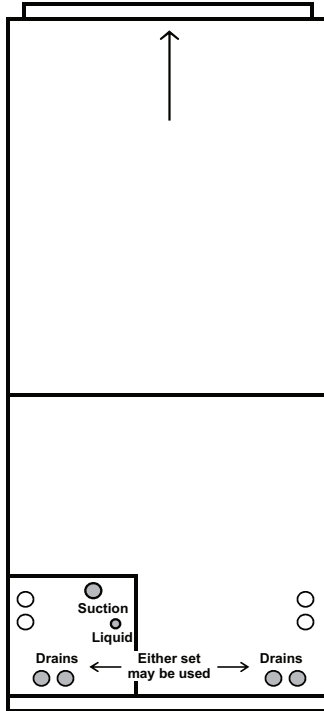
| TABLE 2 | Fluid Temperature | | |
|----------|-------------------|--------------|--------------|
| % Glycol | 60°C (140°F) | 71°C (160°F) | 82°C (180°F) |
| 10 | 1.04 | 1.04 | 1.02 |
| 20 | 1.08 | 1.07 | 1.04 |
| 30 | 1.13 | 1.11 | 1.08 |
| 40 | 1.19 | 1.16 | 1.12 |
| 50 | 1.24 | 1.21 | 1.17 |

Shading Indicates Proper Line Connections



Shading Indicates Proper Line Connections

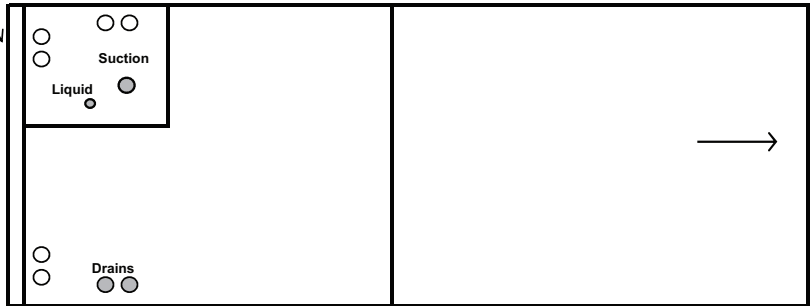
Upflow
As shipped from factory
(return in bottom)



Bottom/Filter
Frame

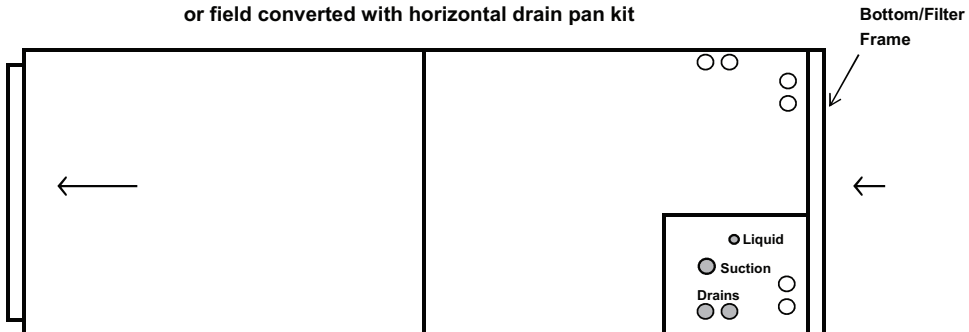
Horizontal Right

Factory ready if ordered as multi-position
or field converted with horizontal drain pan kit



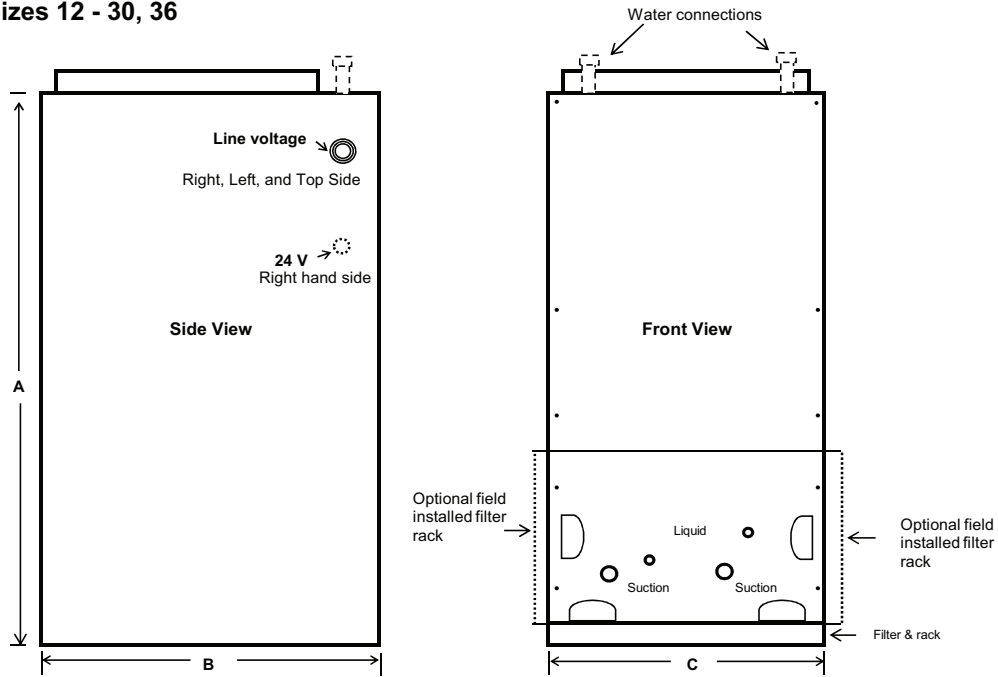
Horizontal Left

Factory ready if ordered as multi-position
or field converted with horizontal drain pan kit



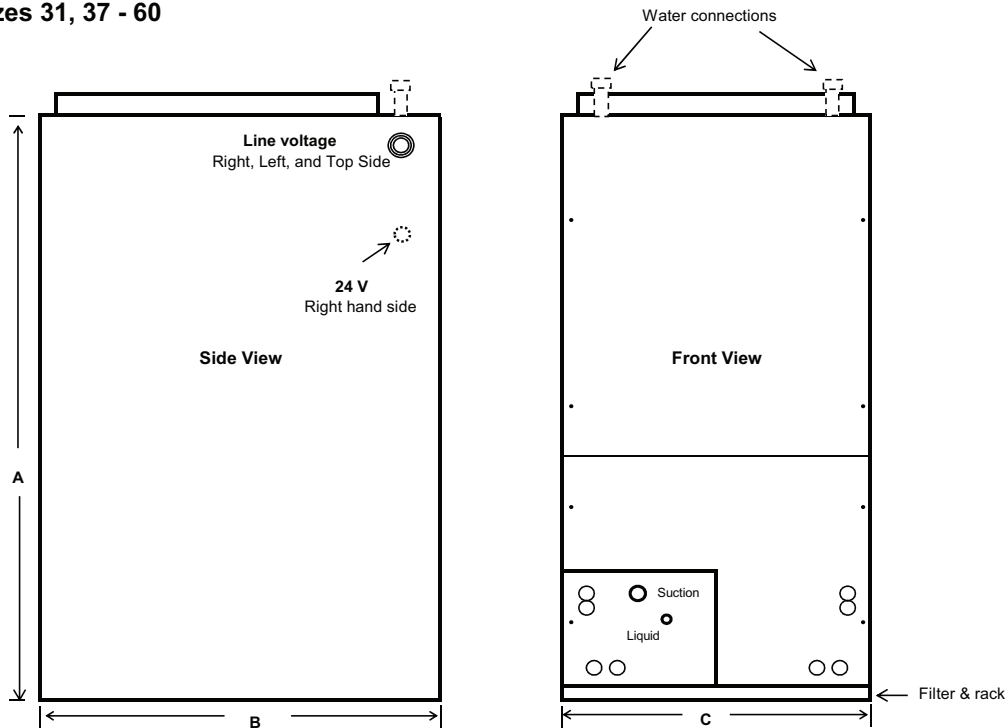
DIMENSIONS - MM (INCHES)

Sizes 12 - 30, 36



| Unit Size | A | | B | | C | | Supply Duct Opening | | | | Return Duct Opening | | | |
|-------------|---------------|-----|---------------|-----|---------------|--------|---------------------|-----|---------------|--------|---------------------|--------|---------------|--------|
| | Depth X Width | | Depth X Width | | Depth X Width | | Depth X Width | | Depth X Width | | Depth X Width | | Depth X Width | |
| | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. |
| 12, 18 & 24 | 1118 | 44 | 559 | 22 | 381 | 15 | 432 | 17 | 343 | 13-1/2 | 438 | 17-1/4 | 260 | 10-1/4 |
| 25, 30 & 36 | 1219 | 48 | 559 | 22 | 470 | 18-1/2 | 432 | 17 | 432 | 17 | 438 | 17-1/4 | 356 | 14 |

Sizes 31, 37 - 60



| Unit Size | A | | B | | C | | Supply Duct Opening | | | | Return Duct Opening | | | |
|-----------------|---------------|-----|---------------|-----|---------------|-----|---------------------|-----|---------------|--------|---------------------|-----|---------------|--------|
| | Depth X Width | | Depth X Width | | Depth X Width | | Depth X Width | | Depth X Width | | Depth X Width | | Depth X Width | |
| | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. |
| 31, 37, 42 & 48 | 1244 | 49 | 660 | 26 | 508 | 20 | 533 | 21 | 470 | 18-1/2 | 559 | 22 | 400 | 15-3/4 |
| 60 | 1346.2 | 53 | 660 | 26 | 559 | 22 | 533 | 21 | 521 | 20-1/2 | 559 | 22 | 451 | 17-3/4 |



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