

*First Co.*

# UC SERIES

*UC0 • UCX • UC0W • UC0Q • UCXW • UCXRX*  
Wall Mount Fan Coils

**Compatible with R410A**  
**For Servicing Existing Equipment Only**

Wall / Closet Indoor Air Handler

1.5-3.0 Ton Cooling or Heating Pump

Up to 10 kW Electric Heat



**AHRI CERTIFIED®**  
[www.ahridirectory.org](http://www.ahridirectory.org)

Unitary Small AC  
AHRI Standard 210/240  
Certification applies only when the complete system is listed with AHRI.

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

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

# NOMENCLATURE

## FULL SERIES NOMENCLATURE

|                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |    |     |    |   |   |   |   |   |   |   |   |                                                                                                                                                                                       |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|----|-----|----|---|---|---|---|---|---|---|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  | 25 | UCX | 03 | X | 1 | 0 | A | V | 0 | 0 | 0 | F                                                                                                                                                                                     |  |  |
|                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |    |     |    |   |   |   |   |   |   |   |   | <b>BRAND</b><br>F - First Co.                                                                                                                                                         |  |  |
| <b>UNIT SIZE</b><br>18 }<br>19 } 18,000 BTUH<br>20 }<br>24 }<br>25 } 24,000 BTUH<br>26 }<br>30 }<br>31 } 30,000 BTUH<br>32 }<br>36 }<br>37 } 36,000 BTUH<br>38 }                            |  |  |  |  |  |  |  |  |  |    |     |    |   |   |   |   |   |   |   |   | <b>OPTIONS: GENERAL</b><br>0 - Standard<br>2 - 2-Way HW Valve<br>3 - 3-Way HW Valve<br>T - Stub Out Tubes                                                                             |  |  |
| <b>SERIES</b><br>UC0<br>UCU                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |    |     |    |   |   |   |   |   |   |   |   | <b>OPTIONS: SENSORS/SWITCHES</b><br>0 - None / Standard<br>1 - Freeze Stat<br>2 - Float Switch<br>3 - Freeze Stat & Float Switch<br>4 - DX Coil Sensor<br>5 - DX Sensor & Freeze Stat |  |  |
| <b>HEAT OPTION</b><br>00 - 0 KW No Heat<br>03 - 3 KW<br>04 - 4 KW<br>05 - 5 KW<br>06 - 6 KW<br>08 - 8 KW<br>10 - 10 KW<br>W3 - 3 Row HW<br>Q3 - 3 Row Pump HW<br>R3 - 3 Row Hi Flow Pump HW |  |  |  |  |  |  |  |  |  |    |     |    |   |   |   |   |   |   |   |   | <b>OPTIONS: CONTROL</b><br>0 - Standard<br>B - Standard Pump Control<br>T - Time Delay                                                                                                |  |  |
| <b>MOTOR TYPE</b><br>0 - PSC<br>X - ECM Multispeed                                                                                                                                          |  |  |  |  |  |  |  |  |  |    |     |    |   |   |   |   |   |   |   |   | <b>METERING DEVICE</b><br>C - Chilled Water Coil<br>V - Non Bleed TXV w/ Check                                                                                                        |  |  |
| <b>VOLTAGE</b><br>1 - 120/1/60<br>2 - 208-230/1/60                                                                                                                                          |  |  |  |  |  |  |  |  |  |    |     |    |   |   |   |   |   |   |   |   | <b>REFRIGERANT</b><br>A - R410A                                                                                                                                                       |  |  |
|                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |    |     |    |   |   |   |   |   |   |   |   | <b>CABINET OPTIONS</b><br>0 - Standard Front Return<br>B - Bottom Return                                                                                                              |  |  |

Model specific nomenclature presented at each respective section of document.

# UC SERIES

## WALL MOUNT FAN COILS

### APPLICATION

The A model of the UC Series product family ships with an R410A Non-Bleed TXV and is for servicing existing equipment only.

UC unit is designed as an upflow indoor air handler for use with today's higher efficiency split-system heat pumps or condensing units.

The cabinet is made of galvanized steel and is fully insulated. The condensate pan is sloped to ensure proper drainage. For installation flexibility, drain piping can come from the bottom, front, left, or right side of the cabinet.

The removable door of the optional wall panel now includes "captive screws" that will not fall out when the door is removed for service or filter change.

### STANDARD FEATURES

- 240V motor, 24V controls
- Factory installed disconnect with electric heat only.
- Factory or field installed electric heat on (heater kit) units only
- Separate compartment for drain connections
- Drain pan has 3/4" male or female primary and secondary fittings
- High efficiency cooling coil
- Convenient equalizer connection for factory or field installed TXV's (non- bleed type)
- Easily accessible 1" filter
- Cabinet air leakage is no more than 2% when tested in accordance with ASHRAE 193
- Wall hanging brackets are included with each unit

### OPTIONAL FEATURES

Optional accessories include field installed Heater Kits, factory or field installed TXV Kits (non-bleed type), Wall Panels with Captive Screws, Condensate Overflow Switch, Closet Hanger Bracket Kit, and Bottom Return Air Kit.



Field converted bottom return is achieved by removing the bottom panel and installing it on lower front of cabinet as shown.

Unit shown as  
Bottom Return

# UC SERIES

## WALL MOUNT FAN COILS

### ACCESSORIES

| OPTIONAL ACCESSORIES (ALL FIELD INSTALLED) |                                               |                                               |                                               |                                                       |                                                       |
|--------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| DESCRIPTION                                | PART #                                        |                                               |                                               | DIMENSIONS                                            |                                                       |
|                                            | 18-31UC                                       | 32-37UC                                       | 38UC                                          | (OUTSIDE FRAME)                                       | (INSIDE FRAME)                                        |
| <b>WALL PANEL (1)</b>                      | 9PWUC01L<br>(Louvered)<br>9PWUC01S<br>(Solid) | 9PWUC02L<br>(Louvered)<br>9PWUC02S<br>(Solid) | 9PWUC04L<br>(Louvered)<br>9PWUC04S<br>(Solid) | 43-3/8 X 25-5/8<br>46-3/8 X 25-5/8<br>52-1/2 X 31-5/8 | 40-3/8 X 22-5/8<br>43-3/8 X 22-5/8<br>49-1/2 X 28-5/8 |
| <b>HANGER BRKT SET</b>                     | 90PK3                                         | 90PK3                                         | 90PK31                                        | 1-3/4 X 22-1/8<br>1-3/4 X 27-15/16                    | - - -                                                 |
| <b>BOTTOM RETURN AIR KIT</b>               | 90PK4                                         | 90PK5                                         | 90PK51                                        | 19-13/16 X 22                                         | - - -                                                 |
|                                            |                                               |                                               |                                               | 20-7/16 X 22                                          |                                                       |
|                                            |                                               |                                               |                                               | 20-5/8 X 28                                           |                                                       |
| <b>3kW HEATER KIT (2)</b>                  | 9EHUC1-203 (2)                                | 9EHUC2-203 (2)                                | 9EHUC2-203 (2)                                | - - -                                                 | - - -                                                 |
| <b>5kW HEATER KIT (2)</b>                  | 9EHUC1-205 (2)                                | 9EHUC2-205 (2)                                | 9EHUC2-205 (2)                                |                                                       |                                                       |
| <b>6kW HEATER KIT (2)</b>                  | 9EHUC1-206 (2)                                | 9EHUC2-206 (2)                                | 9EHUC2-206 (2)                                |                                                       |                                                       |
| <b>8kW HEATER KIT (2)</b>                  | 9EHUC1-208 (2)                                | 9EHUC2-208 (2)                                | 9EHUC2-208 (2)                                |                                                       |                                                       |
| <b>10kW HEATER KIT (2)</b>                 | 9EHUC1-210 (2)                                | 9EHUC2-210 (2)                                | 9EHUC2-210 (2)                                |                                                       |                                                       |
| <b>CONDENSATE OVERFLOW KIT</b>             | SS3                                           | SS3                                           | SS3                                           | - - -                                                 | - - -                                                 |



**Optional Wall Panel**  
Recessed wall application

#### NOTES:

1. Dimensions for wall panels are the outside of the panels. Inside "Opening" dimensions are approximately 3" less than shown.
2. Heater kits are only approved for installation in the "O-HK" models. Heater kits are not approved for UC units that already contain factory installed heaters.

# UC SERIES

WALL MOUNT FAN COILS

## ACCESSORIES

| EXPANSION VALVE KITS (HEAT PUMP OR COOLING ONLY) |                                                          |
|--------------------------------------------------|----------------------------------------------------------|
| PART NUMBER                                      | DESCRIPTION                                              |
| 9EVR410-1                                        | UC 410A TXV (For servicing existing 410A equipment only) |

- NOTES:**
- 1. Above expansion valve kits are approved for both cooling only (non heat pump) or heat pumps applications.
  - 2. Valves are non-bleed type. Field added. Hard start kit may be required.
  - 3. Valves have screw-on connections.



Condensate Overflow Switch  
#SS3



Condensate drain connections  
(With drain cover removed)  
(Male connections shown)



Unit shown with optional  
bottom return air kit

# UC SERIES

## ELECTRIC HEAT W/PSC MOTOR

**UC0**

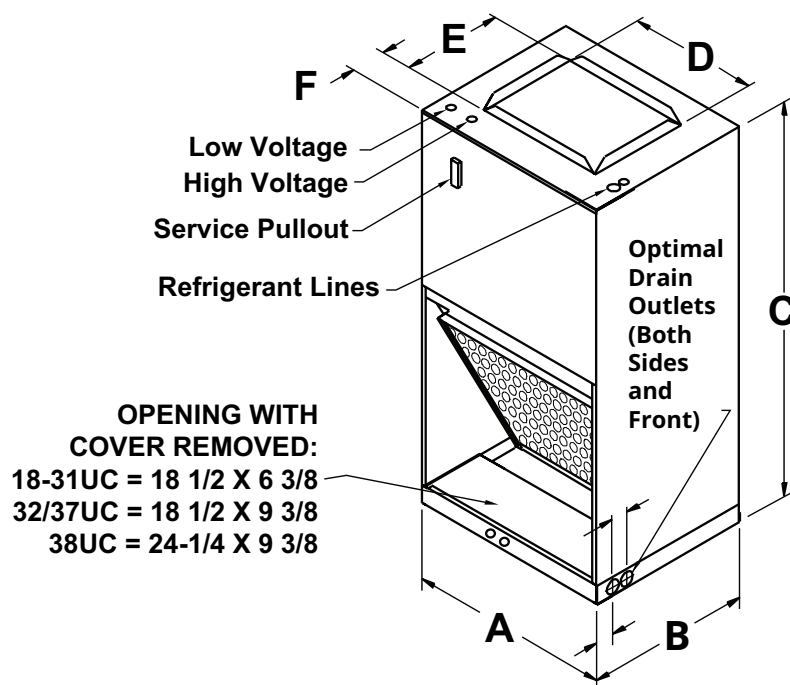
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNIT SIZE</b><br>18 }<br>19 } 18,000 BTUH<br>20 }<br>24 }<br>25 } 24,000 BTUH<br>26 }<br>30 }<br>31 } 30,000 BTUH<br>32 }<br>36 }<br>37 } 36,000 BTUH<br>38 }<br><br><b>SERIES</b><br>UC0<br><br><b>HEAT OPTION</b><br>00 - 0 KW No Heat<br>03 - 3 KW<br>04 - 4 KW<br>05 - 5 KW<br>06 - 6 KW<br>08 - 8 KW<br>10 - 10 KW<br><br><b>MOTOR TYPE</b><br>0 - PSC<br><br><b>VOLTAGE</b><br>1 - 120/1/60<br>2 - 208-230/1/60<br><br><b>CABINET OPTIONS</b><br>0 - Standard Front Return<br>B - Bottom Return | <b>25</b><br><b>UC0</b><br><b>05</b><br><b>0</b><br><b>2</b><br><b>0</b><br><b>A</b><br><b>V</b><br><b>0</b><br><b>0</b><br><b>0</b><br><b>F</b> | <b>BRAND</b><br>F - First Co.<br><br><b>OPTIONS: GENERAL</b><br>0 - Standard<br><br><b>OPTIONS: SENSORS/SWITCHES</b><br>0 - None / Standard<br>2 - Float Switch<br><br><b>OPTIONS: CONTROL</b><br>0 - Standard<br><br><b>METERING DEVICE</b><br>V - Non Bleed TXV w/ Check<br><br><b>REFRIGERANT</b><br>A - R410A |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| PHYSICAL DIMENSIONS |        |        |    |        |      |       |             |             |              |
|---------------------|--------|--------|----|--------|------|-------|-------------|-------------|--------------|
| UNIT MODEL          | A      | B      | C  | D      | E    | F     | FILTER SIZE | LIQUID LINE | SUCTION LINE |
| 18-25UC0            | 22-1/8 | 15-1/8 | 40 | 14     | 10.5 | 3-5/8 | 18 X 18     | 3/8 O.D.    | 5/8 O.D.     |
| 26/30/31UC0         | 22-1/8 | 15-1/8 | 40 | 14     | 10.5 | 3-5/8 | 18 X 20     | 3/8 O.D.    | 3/4 O.D.     |
| 32/37UC0            | 22-1/8 | 18-1/8 | 43 | 14     | 13   | 3-5/8 | 18 X 24     | 3/8 O.D.    | 3/4 O.D.     |
| 38UC0               | 28-1/8 | 21     | 46 | 16-1/2 | 13   | 7-1/2 | 24 x 24     | 3/8 O.D.    | 7/8 O.D.     |

### NOTES:

- Coil connections are sweat

| PERFORMANCE DATA        |      |          |                |                        |      |       |       |            |       |               |      |                             |      |
|-------------------------|------|----------|----------------|------------------------|------|-------|-------|------------|-------|---------------|------|-----------------------------|------|
| UNIT MODEL              |      | NOM. CFM | NOM. COOL BTUH | ELECTRIC HEAT CAPACITY |      |       |       | TOTAL AMPS |       | MIN. AMPACITY |      | MAX. OVERCURRENT PROTECTION |      |
|                         |      |          |                | kW                     |      | BTUH  |       |            |       | 240V          | 208V | 240V                        | 208V |
|                         |      |          |                | 240V                   | 208V | 240V  | 208V  | 240V       | 208V  |               |      |                             |      |
| 18UC0                   | 0-HK | 600      | 18000          | 0                      | 0    | 0     | 0     | 1.70       | 1.70  | 2             | 2    | 15                          | 15   |
| 19UC0                   | 3    |          |                | 3                      | 2.3  | 10239 | 7781  | 14         | 12.76 | 18            | 16   | 20                          | 20   |
| 20UC0                   |      |          |                |                        |      |       |       |            |       |               |      |                             |      |
| 24UC0<br>25UC0<br>26UC0 | 5    | 800      | 25000          | 5                      | 3.8  | 17065 | 12969 | 23         | 19.97 | 28            | 26   | 30                          | 30   |
|                         | 6    |          |                | 6                      | 4.5  | 20478 | 15358 | 27         | 23.34 | 33            | 29   | 35                          | 30   |
|                         | 8    |          |                | 8                      | 6.0  | 27304 | 20750 | 35         | 30.55 | 44            | 38   | 45                          | 40   |
|                         | 10   |          |                | 10                     | 7.5  | 34130 | 25597 | 43         | 37.76 | 54            | 47   | 60                          | 50   |
| 31UC0                   | 0-HK | 1000     | 30000          | 0                      | 0    | 0     | 0     | 2.0        | 2.0   | 3             | 3    | 15                          | 15   |
| 30UC0                   | 3    |          |                | 3                      | 2.3  | 10239 | 7781  | 15         | 15    | 18            | 16   | 20                          | 20   |
| 32UC0                   |      |          |                |                        |      |       |       |            |       |               |      |                             |      |
| 36UC0<br>37UC0<br>38UC0 | 5    | 1200     | 36000          | 5                      | 3.8  | 17065 | 12969 | 23         | 20    | 29            | 26   | 30                          | 30   |
|                         | 6    |          |                | 6                      | 4.5  | 20478 | 15358 | 27         | 24    | 34            | 30   | 35                          | 30   |
|                         | 8    |          |                | 8                      | 6.0  | 27304 | 20750 | 35         | 31    | 44            | 39   | 45                          | 40   |
|                         | 10   |          |                | 10                     | 7.5  | 34130 | 25597 | 44         | 38    | 55            | 48   | 60                          | 50   |



## NOTES:

- 0 - 10 kW is available for ALL UC models  
Model number example - 18UC5 (1.5 Ton, 5kW)

# UC SERIES

ELECTRIC HEAT W/PSC MOTOR

**UCO**

DATA TABLES

| BLOWER DATA |                      |           |                                  |      |      |      |      |
|-------------|----------------------|-----------|----------------------------------|------|------|------|------|
| MODEL       | MOTOR (HP)<br>(240V) | FAN SPEED | CFM VS. EXTERNAL STATIC PRESSURE |      |      |      |      |
|             |                      |           | 0.10                             | 0.20 | 0.30 | 0.40 | 0.50 |
| 18UC0       | 1/6                  | HIGH      | 880                              | 840  | 810  | 790  | 760  |
|             |                      | MEDIUM    | 660                              | 640  | 630  | 600  | 570  |
|             |                      | LOW       | 540                              | 520  | 500  | 470  | 440  |
| 19UC0       | 1/6                  | HIGH      | 850                              | 820  | 780  | 750  | 710  |
|             |                      | MEDIUM    | 660                              | 640  | 610  | 570  | 540  |
|             |                      | LOW       | 540                              | 520  | 500  | 470  | 430  |
| 20UC0       | 1/6                  | HIGH      | 840                              | 800  | 760  | 710  | 660  |
|             |                      | MEDIUM    | 660                              | 640  | 610  | 570  | 530  |
|             |                      | LOW       | 540                              | 510  | 500  | 460  | 420  |
| 24UC0       | 1/6                  | HIGH      | 870                              | 840  | 810  | 780  | 750  |
|             |                      | MEDIUM    | 670                              | 650  | 630  | 590  | 560  |
|             |                      | LOW       | 560                              | 540  | 510  | 480  | 440  |
| 25UC0       | 1/6                  | HIGH      | 840                              | 800  | 760  | 710  | 670  |
|             |                      | MEDIUM    | 660                              | 640  | 620  | 590  | 550  |
|             |                      | LOW       | 550                              | 530  | 490  | 460  | 430  |
| 26UC0       | 1/6                  | HIGH      | 860                              | 830  | 790  | 740  | 690  |
|             |                      | MEDIUM    | 670                              | 650  | 630  | 590  | 550  |
|             |                      | LOW       | 550                              | 530  | 500  | 470  | 440  |
| 30UC0       |                      | HIGH      | 1080                             | 1045 | 1030 | 975  | 920  |
|             |                      | MEDIUM    | 950                              | 940  | 910  | 865  | 820  |
|             |                      | LOW       | 865                              | 855  | 825  | 790  | 745  |
| 31UC0       | 1/4                  | HIGH      | 910                              | 880  | 840  | 790  | 740  |
|             |                      | MED-HIGH  | 860                              | 830  | 790  | 740  | 690  |
|             |                      | MED-LOW   | 830                              | 790  | 750  | 710  | 660  |
| 32UC0       | 1/4                  | MED-HIGH  | 1080                             | 1040 | 1000 | 950  | 900  |
|             |                      | MED-LOW   | 970                              | 940  | 900  | 850  | 800  |
|             |                      | LOW       | 690                              | 650  | 600  | 550  | 510  |
| 36UC0       | 1/4                  | HIGH      | 1300                             | 1240 | 1180 | 1120 | 1050 |
|             |                      | MED-HIGH  | 1100                             | 1050 | 1010 | 960  | 910  |
|             |                      | MED-LOW   | 980                              | 950  | 920  | 880  | 830  |
| 37UC0       | 1/4                  | HIGH      | 1240                             | 1180 | 1120 | 1070 | 1020 |
|             |                      | MED-HIGH  | 1080                             | 1040 | 1000 | 960  | 910  |
|             |                      | MED-LOW   | 980                              | 950  | 910  | 870  | 820  |
| 38UC0       | 1/2                  | HIGH      | 1430                             | 1400 | 1370 | 1340 | 1290 |
|             |                      | MED-HIGH  | 1260                             | 1230 | 1200 | 1180 | 1160 |
|             |                      | MED-LOW   | 1000                             | 990  | 980  | 970  | 950  |

## NOTES:

1. Add nominal .05 static if wall panel is used.
2. ALL models have multi-speed motors but are factory wired on the shaded speeds.
3. Contact factory for correct matches with outdoor units.
4. Approved for installation with "0" clearance to combustible material.

# UC SERIES

**UCOW**

## HYDRONIC HEAT W/PSC MOTOR & DX COIL FOR COOLING

|                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>UNIT SIZE</b></p> <p>18 }<br/>19 } 18,000 BTUH<br/>20 }<br/>24 }<br/>25 } 24,000 BTUH<br/>26 }<br/>30 }<br/>31 } 30,000 BTUH<br/>32 }<br/>36 }<br/>37 } 36,000 BTUH<br/>38 }</p> <p><b>SERIES</b><br/>UC0</p> <p><b>HEAT OPTION</b><br/>W3 - 3 Row HW</p> <p><b>MOTOR TYPE</b><br/>0 - PSC</p> <p><b>VOLTAGE</b><br/>1 - 120/1/60</p> <p><b>CABINET OPTIONS</b><br/>0 - Standard Front Return<br/>B - Bottom Return</p> | <p><b>25</b></p> <p><b>UC0</b></p> <p><b>W3</b></p> <p><b>0</b></p> <p><b>1</b></p> <p><b>0</b></p> <p><b>A</b></p> <p><b>V</b></p> <p><b>0</b></p> <p><b>3</b></p> <p><b>0</b></p> <p><b>F</b></p> | <p><b>BRAND</b><br/>F - First Co.</p> <p><b>OPTIONS: GENERAL</b><br/>0 - Standard<br/>2 - 2-Way HW Valve<br/>3 - 3-Way HW Valve<br/>T - Stub out Tubes</p> <p><b>OPTIONS: SENSORS/SWITCHES</b><br/>0 - None / Standard<br/>2 - Float Switch<br/>3 - Freeze Stat &amp; Float Switch</p> <p><b>OPTIONS: CONTROL</b><br/>0 - None / Standard</p> <p><b>METERING DEVICE</b><br/>V - Non Bleed TXV w/ Check</p> <p><b>REFRIGERANT</b><br/>A - R410A</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## UCOW OPTIONAL FEATURES

Optional features include Wall Panels with Captive Screws, factory or field installed TXVs (non-bleed type), Condensate Overflow Switch, Closet Hanger Bracket Kit, and Bottom Return Air Kit.

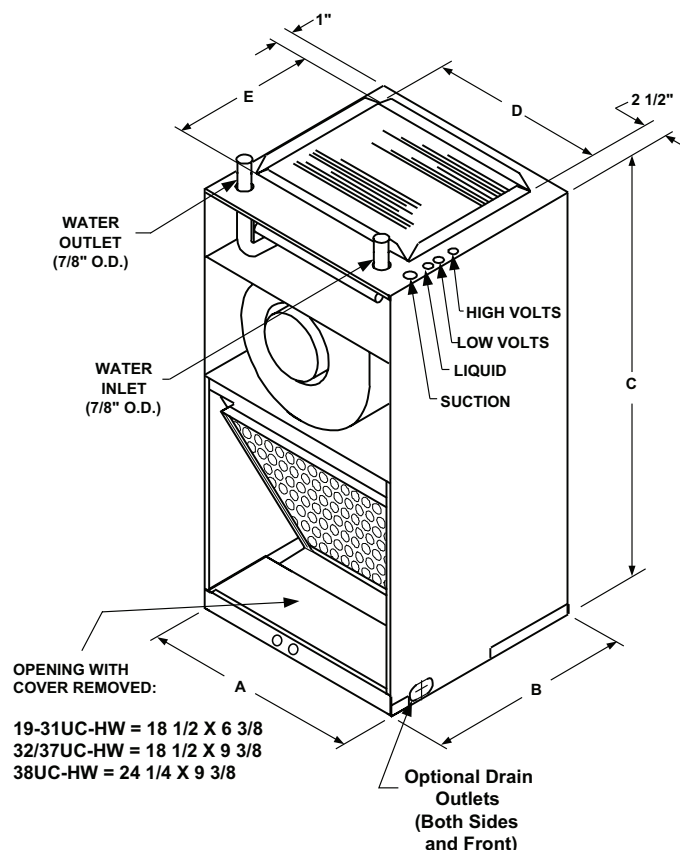
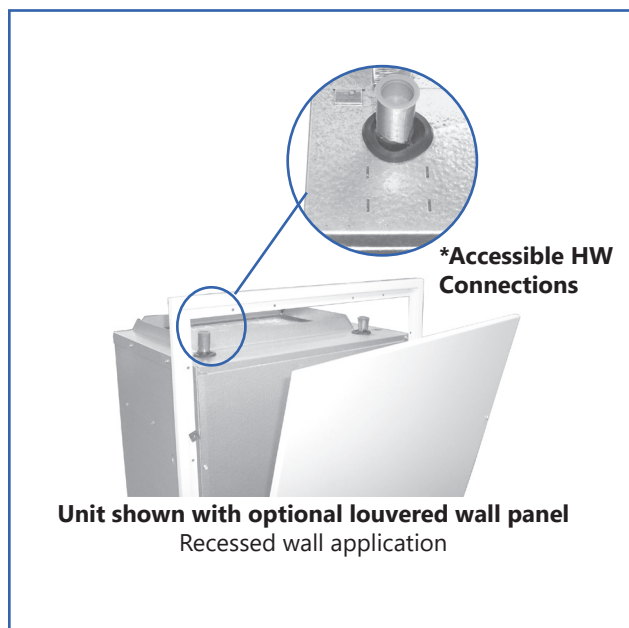
In recessed wall applications utilizing the optional wall panel, the hot water coil can be removed without modifications to the drywall. To allow this feature, the top of the **UCOW** cabinet is notched for coil removal and the wall panel is 3" taller than the cabinet.

# UC SERIES

## HYDRONIC HEAT W/PSC MOTOR & DX COIL FOR COOLING

# UCOW

## DATA TABLES



| HEATING PERFORMANCE AND ELECTRICAL DATA |                      |                              |                                                                   |     |       |     |       |     |                       |                           |
|-----------------------------------------|----------------------|------------------------------|-------------------------------------------------------------------|-----|-------|-----|-------|-----|-----------------------|---------------------------|
| UNIT MODEL                              | NOMINAL COOLING BTUH | P.D. (FT. WATER) (COIL ONLY) | HEATING BUTH (1000) AT ENTERING WATER TEMPERATURE (1) Delta-T 20° |     |       |     |       |     | MIN. CIRCUIT AMPACITY | MAX. FUSE OR HACR BREAKER |
|                                         |                      |                              | 120°F                                                             | GPM | 140°F | GPM | 180°F | GPM |                       |                           |
| 18-20UCOW                               | 18,000               | 3.3                          | 19.1                                                              | 1.9 | 26.8  | 2.7 | 42.1  | 4.2 | 8                     | 15                        |
|                                         |                      | 2.1                          | 18.5                                                              | 1.9 | 25.9  | 2.6 | 40.7  | 4.1 |                       |                           |
|                                         |                      | 1.2                          | 17.6                                                              | 1.8 | 24.6  | 2.5 | 38.7  | 3.9 |                       |                           |
| 24-26UCOW                               | 24,000 / 18,000      | 3.3                          | 22.9                                                              | 2.3 | 32.1  | 3.2 | 50.4  | 5.0 | 8                     | 15                        |
|                                         |                      | 2.1                          | 22.1                                                              | 2.2 | 31.0  | 3.1 | 48.7  | 4.9 |                       |                           |
|                                         |                      | 1.2                          | 20.8                                                              | 2.1 | 29.2  | 2.9 | 45.9  | 4.6 |                       |                           |
| 31UCOW                                  | 30,000 / 24,000      | 3.3                          | 26.1                                                              | 2.6 | 36.5  | 3.7 | 57.3  | 5.7 | 11                    | 15                        |
|                                         |                      | 2.1                          | 25.0                                                              | 2.5 | 35.1  | 3.5 | 55.1  | 5.5 |                       |                           |
|                                         |                      | 1.2                          | 23.5                                                              | 2.4 | 32.9  | 3.3 | 51.7  | 5.2 |                       |                           |
| 32UCOW                                  | 30,000 / 24,000      | 3.6                          | 28.1                                                              | 2.8 | 39.3  | 3.9 | 61.7  | 6.2 | 11                    | 15                        |
|                                         |                      | 2.4                          | 26.9                                                              | 2.7 | 37.7  | 3.8 | 59.2  | 5.9 |                       |                           |
|                                         |                      | 1.3                          | 25.2                                                              | 2.5 | 35.3  | 3.5 | 55.4  | 5.5 |                       |                           |
| 36-38UCOW                               | 36,000 / 30,000      | 3.6                          | 30.9                                                              | 3.1 | 43.2  | 4.3 | 67.9  | 6.8 | 11                    | 15                        |
|                                         |                      | 2.4                          | 29.6                                                              | 3.0 | 41.3  | 4.1 | 64.9  | 6.5 |                       |                           |
|                                         |                      | 1.3                          | 27.5                                                              | 2.8 | 38.5  | 3.9 | 60.5  | 6.1 |                       |                           |

### NOTES:

- 1.Heating output will not exceed output of hot water source.
- 2.Approved for installation with 0" clearance to combustible materials.
- 3.Contact factory for correct matches with outdoor unit or go to [www.ahridirectory.org](http://www.ahridirectory.org) or [www.firstco.co/ratings](http://www.firstco.co/ratings)

(1) Heat BTUH is at 70°F entering air temperature.  
Based pm 20°F Delta -T. Velocity not to exceed 4ft./sec.

# UC SERIES

HYDRONIC HEAT W/PSC MOTOR & DX COIL FOR COOLING

UCOW

DATA TABLES

| PHYSICAL DIMENSIONS |        |    |    |        |        |             |             |              |
|---------------------|--------|----|----|--------|--------|-------------|-------------|--------------|
| UNIT MODEL          | A      | B  | C  | D      | E      | FILTER SIZE | LIQUID LINE | SUCTION LINE |
| 18-25UC0W           | 22-1/8 | 18 | 43 | 18     | 12-1/2 | 18 X 18     | 3/8" O.D.   | 5/8" O.D.    |
| 26/31UC0W           | 22-1/8 | 18 | 43 | 18     | 12-1/2 | 18 X 20     | 3/8" O.D.   | 3/4" O.D.    |
| 32-37UC0W           | 22-1/8 | 21 | 43 | 18     | 15-1/2 | 18 X 24     | 3/8" O.D.   | 3/4" O.D.    |
| 38UC0W              | 28-1/8 | 21 | 46 | 24-1/8 | 15-3/4 | 24 X 24     | 3/8" O.D.   | 7/8" O.D.    |

| BLOWER DATA |                   |                   |           |                                  |      |      |      |      |      |      |
|-------------|-------------------|-------------------|-----------|----------------------------------|------|------|------|------|------|------|
| UNIT MODEL  | MOTOR H.P. (120V) | MOTOR AMPS (120V) | FAN SPEED | CFM vs. EXTERNAL STATIC PRESSURE |      |      |      |      |      |      |
|             |                   |                   |           | 0.10                             | 0.15 | 0.20 | 0.25 | 0.30 | 0.40 | 0.50 |
| 18/19UC0W   | 1/3               | 5.4               | MED-HIGH  | 790                              | 775  | 760  | 745  | 730  | 700  | 670  |
|             |                   |                   | MED-LOW   | 710                              | 695  | 680  | 665  | 650  | 630  | 610  |
|             |                   |                   | LOW       | 560                              | 550  | 540  | 525  | 510  | 490  | 460  |
| 20UC0W      | 1/3               | 5.4               | MED-HIGH  | 770                              | 750  | 730  | 710  | 690  | 650  | 610  |
|             |                   |                   | MED-LOW   | 690                              | 675  | 660  | 645  | 630  | 590  | 550  |
|             |                   |                   | LOW       | 540                              | 525  | 510  | 495  | 480  | 450  | 420  |
| 24/25UC0W   | 1/3               | 5.4               | HIGH      | 840                              | 820  | 800  | 780  | 760  | 710  | 660  |
|             |                   |                   | MED-HIGH  | 770                              | 750  | 730  | 710  | 690  | 650  | 610  |
|             |                   |                   | MED-LOW   | 690                              | 665  | 660  | 645  | 630  | 590  | 550  |
| 26UC0W      | 1/3               | 5.4               | HIGH      | 860                              | 845  | 830  | 810  | 790  | 750  | 700  |
|             |                   |                   | MED-HIGH  | 780                              | 765  | 750  | 735  | 720  | 680  | 640  |
|             |                   |                   | MED-LOW   | 700                              | 685  | 670  | 655  | 640  | 600  | 560  |
| 31UC0W      | 1/2               | 8.1               | HIGH      | 1070                             | 1045 | 1020 | 995  | 970  | 920  | 850  |
|             |                   |                   | MED-HIGH  | 1020                             | 1000 | 980  | 960  | 940  | 890  | 820  |
|             |                   |                   | MED-LOW   | 760                              | 755  | 750  | 735  | 720  | 680  | 640  |
| 32UC0W      | 1/2               | 8.1               | MED-HIGH  | 1140                             | 1110 | 1080 | 1050 | 1020 | 960  | 900  |
|             |                   |                   | MED-LOW   | 900                              | 885  | 870  | 855  | 840  | 790  | 740  |
|             |                   |                   | LOW       | 650                              | 645  | 640  | 635  | 630  | 610  | 580  |
| 36/37UC0W   | 1/2               | 8.1               | HIGH      | 1160                             | 1135 | 1110 | 1080 | 1050 | 990  | 930  |
|             |                   |                   | MED-HIGH  | 1120                             | 1095 | 1070 | 1045 | 1020 | 970  | 900  |
|             |                   |                   | MED-LOW   | 890                              | 875  | 860  | 845  | 830  | 790  | 740  |
| 38UC0W      | 1/2               | 8.1               | HIGH      | 1400                             | 1375 | 1350 | 1325 | 1300 | 1250 | 1200 |
|             |                   |                   | MED       | 1260                             | 1245 | 1230 | 1210 | 1190 | 1150 | 1100 |
|             |                   |                   | LOW       | 1090                             | 1080 | 1070 | 1055 | 1040 | 1010 | 970  |

## NOTES:

1. Add nominal .05 static when optional wall panel is used.
2. Shaded areas are factory motor settings.

## HYDRONIC HEAT W/CIRCULATOR PUMP & PSC MOTOR

| UNIT SIZE                                                                                                                                    | SERIES | HEAT OPTION        | MOTOR TYPE | VOLTAGE      | CABINET OPTIONS                                | BRAND         | OPTIONS: GENERAL                   | OPTIONS: SENSORS/SWITCHES                                                                                                   | OPTIONS: CONTROL          | METERING DEVICE                                      | REFRIGERANT |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------|------------|--------------|------------------------------------------------|---------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------|-------------|
| 18 } 18,000 BTUH<br>19 }<br>20 }<br>24 } 24,000 BTUH<br>25 }<br>26 }<br>30 } 30,000 BTUH<br>31 }<br>32 }<br>36 } 36,000 BTUH<br>37 }<br>38 } | UC0    | Q3 - 3 Row Pump HW | 0 - PSC    | 1 - 120/1/60 | 0 - Standard Front Return<br>B - Bottom Return | F - First Co. | 0 - Standard<br>T - Stub out Tubes | 0 - None / Standard<br>1 - Freeze Stat<br>2 - Float Switch<br>3 - Freeze Stat & Float Switch<br>5 - DX Sensor & Freeze Stat | B - Standard Pump Control | C - Chilled Water Coil<br>V - Non Bleed TXV w/ Check | A - R410A   |

# UC SERIES

HYDRONIC HEAT W/CIRCULATOR PUMP & PSC MOTOR

**UC0Q**  
DATA TABLES

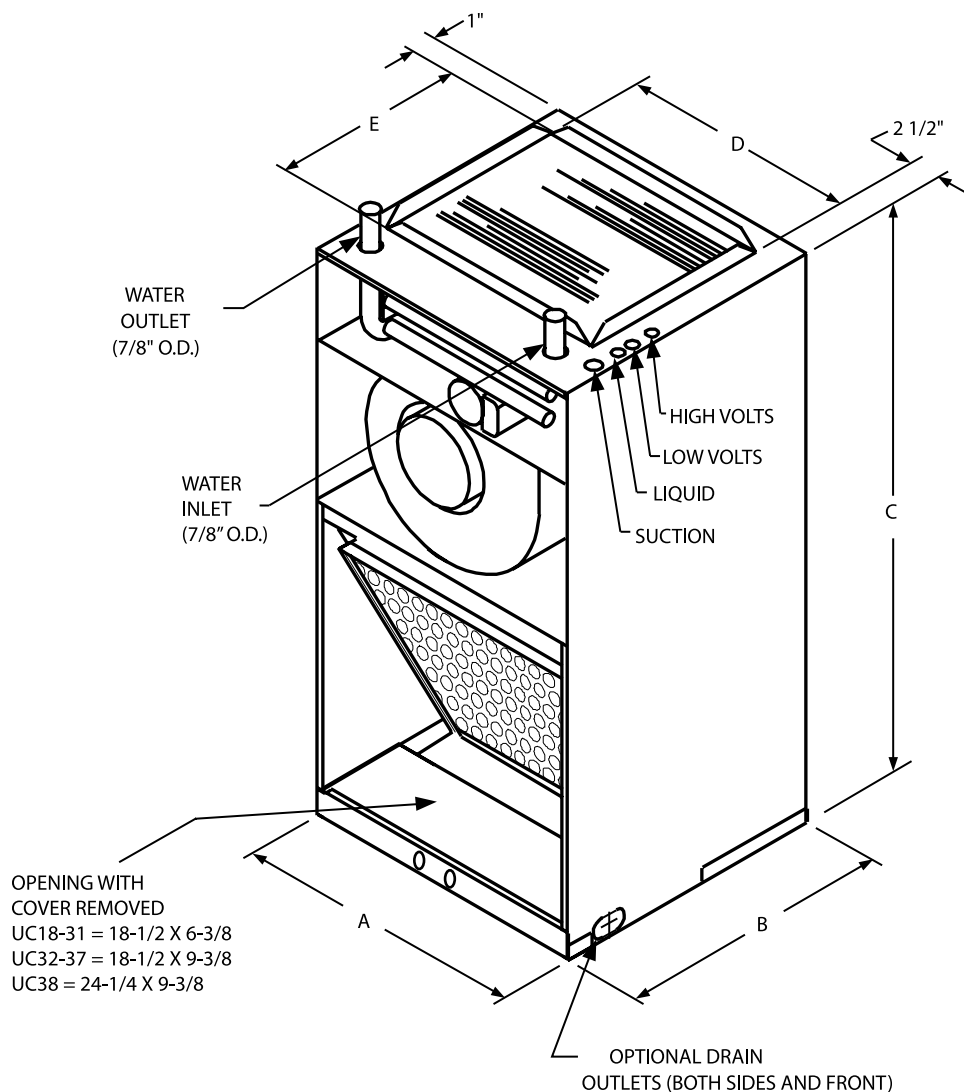
## UC0Q

COMPATIBLE WITH GAS FIRED WATER HEATERS OR BOILERS  
UP TO 45,300 BTUH HYDRONIC HEAT

| PHYSICAL DIMENSIONS |        |    |    |        |        |             |             |              |
|---------------------|--------|----|----|--------|--------|-------------|-------------|--------------|
| UNIT MODEL          | A      | B  | C  | D      | E      | FILTER SIZE | LIQUID LINE | SUCTION LINE |
| 18-25UC0Q           | 22-1/8 | 18 | 43 | 18     | 12-1/2 | 18 X 18     | 3/8" O.D.   | 5/8" O.D.    |
| 26/31UC0Q           | 22-1/8 | 18 | 43 | 18     | 12-1/2 | 18 X 20     | 3/8" O.D.   | 3/4" O.D.    |
| 32-37UC0Q           | 22-1/8 | 21 | 43 | 18     | 15-1/2 | 18 X 24     | 3/8" O.D.   | 3/4" O.D.    |
| 38UC0Q              | 28-1/8 | 21 | 46 | 24-1/8 | 15-3/4 | 24 X 24     | 3/8" O.D.   | 7/8" O.D.    |

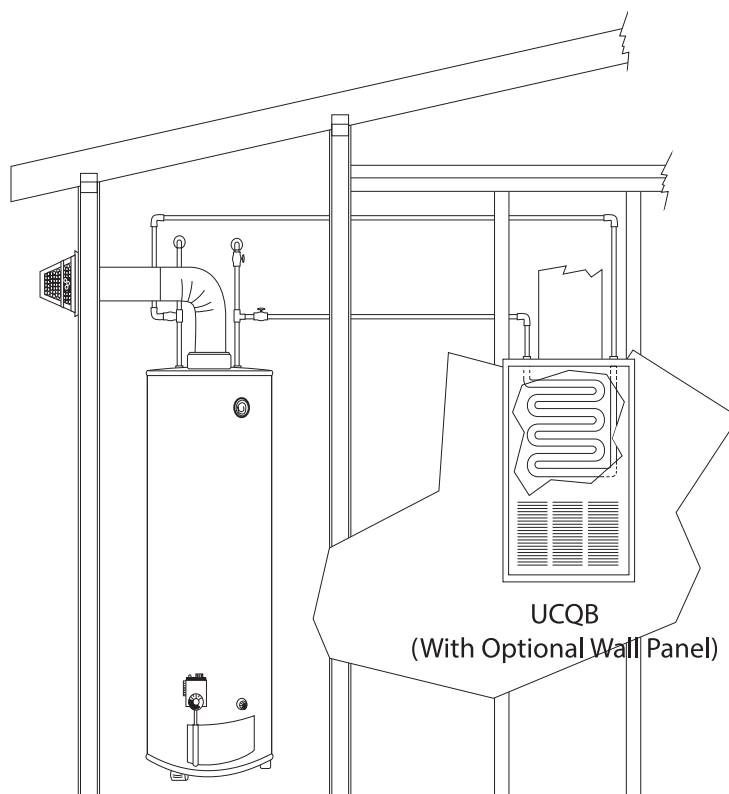
### NOTE:

1. All coil connections are sweat



### UC0Q OPTIONAL FEATURES

- Optional features include Wall Panels with Captive Screws Factory or Field installed TXVs (non-bleed type), Condensate Overflow Switch, Closet Hanger Bracket Kit, and Bottom Return Air Kit.
- In recessed wall applications utilizing the optional wall panel, the hot water coil can be removed without modifications to the drywall.
- To allow this feature, the top of the UC0Q cabinet is notched for coil removal and the wall panel is 3" taller than the cabinet.



| PERFORMANCE DATA |                      |                                                              |     |       |     |                     |                           |                               |                       |                           |
|------------------|----------------------|--------------------------------------------------------------|-----|-------|-----|---------------------|---------------------------|-------------------------------|-----------------------|---------------------------|
| UNIT MODEL       | NOMINAL COOLING BTUH | HEATING BTUH (1000) ENTERING TEMPERATURE Delta -T 20°F & GPM |     |       |     | AMPS (MOTOR) (120V) | AMPS Low Flow Bronze Bump | AMPS Med. Flow Cast Iron Pump | MIN. CIRCUIT AMPACITY | MAX. FUSE OR HACR BREAKER |
|                  |                      | 120°F                                                        | GPM | 140°F | GPM |                     |                           |                               |                       |                           |
| 18-20UC0Q        | 18,000               | 18.5                                                         | 1.9 | 25.9  | 2.6 | 5.4                 | 0.75                      | 0.54                          | 8                     | 15                        |
| 24-26UC0Q        | 24,000 / 18,000      | 22.1                                                         | 2.2 | 31.0  | 3.1 | 5.4                 | 0.75                      | 0.54                          | 8                     | 15                        |
| 30-31UC0Q        | 30,000 / 24,000      | 25.0                                                         | 2.5 | 35.1  | 3.5 | 8.1                 | 0.75                      | 0.54                          | 11                    | 15                        |
| 32UC0Q           | 30,000 / 24,000      | 27.0                                                         | 2.7 | 37.7  | 3.8 | 8.1                 | 0.75                      | 0.54                          | 11                    | 15                        |
| 36/37UC0Q        | 36,000 / 30,000      | 29.6                                                         | 3.0 | 41.3  | 4.1 | 8.1                 | 0.75                      | 0.54                          | 11                    | 15                        |
| 38UC0Q           | 36,000 / 30,000      | 32.3                                                         | 3.2 | 45.3  | 4.5 | 8.1                 | 0.75                      | 0.54                          | 11                    | 15                        |

#### NOTES:

1. Heating output will not exceed output of hot water source.
  2. Approved for installation with 0" clearance to combustible materials.
  3. Contact factory for correct matches with outdoor unit.
- (1) Heat BTUH is at 70°F entering air temperature.  
 (2) Based on 20° Delta -T. Velocity not to exceed 4ft./sec.

#### Pump Options:

- Low lead bronze NSF Compliant max. head pressure 9.5FT  
 Cast Iron non potable max. head pressure 10.0FT  
 Low lead bronze NSF Compliant max. head pressure 15FT

# UC SERIES

## HYDRONIC HEAT W/CIRCULATOR PUMP & PSC MOTOR

# UC0Q

## DATA TABLES

| ALL UC0Q OPTIONAL ACCESSORIES (FIELD INSTALLED) |                      |                     |                                                       |                                                      |
|-------------------------------------------------|----------------------|---------------------|-------------------------------------------------------|------------------------------------------------------|
| DESCRIPTION                                     | PART NO.             | FOR                 | DIMENSIONS                                            |                                                      |
| WALL PANEL (1)                                  | 9PWUC03L<br>9PWUC04L | 18-37UC0Q<br>38UC0Q | 49-3/8 X 25-5/8<br>52-1/2 X 31-5/8<br>(Outside Frame) | 46-3/8 x 22-5/8<br>49-1/2 X 28-5/8<br>(Inside Frame) |
| CLOSET BRKT.                                    | 90PK3<br>90PK31      | 18-37UC0Q<br>38UC0Q | 1-3/4 X 22-1/8<br>1-3/4 X 27-15/16                    | ---                                                  |
| BOTTOM RETURN AIR KIT                           | 90PK5<br>90PK51      | 18-37UC0Q<br>38UC0Q | 20-7/16 X 22<br>20-5/8 X 28                           | ---                                                  |
| CONDENSATE OVERFLOW SWITCH                      | SS3                  | ALL UC0Q            | ---                                                   | ---                                                  |
| FREEZE (2) PROTECTOR                            | 941-1                | ALL UC0Q            | ---                                                   | ---                                                  |

### NOTES:

(1) Wall Panels are taller than the UC0Q cabinet to allow access to hot water coil connections.

(2) Energizes the pump if HW coil temperature falls below 40°

| BLOWER DATA |                   |                   |           |                                  |      |      |      |      |      |      |
|-------------|-------------------|-------------------|-----------|----------------------------------|------|------|------|------|------|------|
| UNIT MODEL  | MOTOR H.P. (120V) | MOTOR AMPS (120V) | FAN SPEED | CFM vs. EXTERNAL STATIC PRESSURE |      |      |      |      |      |      |
|             |                   |                   |           | 0.10                             | 0.15 | 0.20 | 0.25 | 0.30 | 0.40 | 0.50 |
| 18/19UC0Q   | 1/3               | 5.4               | MED-HIGH  | 790                              | 775  | 760  | 745  | 730  | 700  | 670  |
|             |                   |                   | MED-LOW   | 710                              | 695  | 680  | 665  | 650  | 630  | 610  |
|             |                   |                   | LOW       | 560                              | 550  | 540  | 525  | 510  | 490  | 460  |
| 20UC0Q      | 1/3               | 5.4               | MED-HIGH  | 770                              | 750  | 730  | 710  | 690  | 650  | 610  |
|             |                   |                   | MED-LOW   | 690                              | 675  | 660  | 645  | 630  | 590  | 550  |
|             |                   |                   | LOW       | 540                              | 525  | 510  | 495  | 480  | 450  | 420  |
| 24/25UC0Q   | 1/3               | 5.4               | HIGH      | 840                              | 820  | 800  | 780  | 760  | 710  | 660  |
|             |                   |                   | MED-HIGH  | 770                              | 750  | 730  | 710  | 690  | 650  | 610  |
|             |                   |                   | MED-LOW   | 690                              | 665  | 660  | 645  | 630  | 590  | 550  |
| 26UC0Q      | 1/3               | 5.4               | HIGH      | 860                              | 845  | 830  | 810  | 790  | 750  | 700  |
|             |                   |                   | MED-HIGH  | 780                              | 765  | 750  | 735  | 720  | 680  | 640  |
|             |                   |                   | MED-LOW   | 700                              | 685  | 670  | 655  | 640  | 600  | 560  |
| 30/31UC0Q   | 1/2               | 8.1               | HIGH      | 1070                             | 1045 | 1020 | 995  | 970  | 920  | 850  |
|             |                   |                   | MED-HIGH  | 1020                             | 1000 | 980  | 960  | 940  | 890  | 820  |
|             |                   |                   | MED-LOW   | 760                              | 755  | 750  | 735  | 720  | 680  | 640  |
| 32UC0Q      | 1/2               | 8.1               | MED-HIGH  | 1140                             | 1110 | 1080 | 1050 | 1020 | 960  | 900  |
|             |                   |                   | MED-LOW   | 900                              | 885  | 870  | 855  | 840  | 790  | 740  |
|             |                   |                   | LOW       | 650                              | 645  | 640  | 635  | 630  | 610  | 580  |
| 36/37UC0Q   | 1/2               | 8.1               | HIGH      | 1160                             | 1135 | 1110 | 1080 | 1050 | 990  | 930  |
|             |                   |                   | MED-HIGH  | 1120                             | 1095 | 1070 | 1045 | 1020 | 970  | 900  |
|             |                   |                   | MED-LOW   | 890                              | 875  | 860  | 845  | 830  | 790  | 740  |
| 38UC0Q      | 1/2               | 8.1               | HIGH      | 1400                             | 1375 | 1350 | 1325 | 1300 | 1250 | 1200 |
|             |                   |                   | MED       | 1260                             | 1245 | 1230 | 1210 | 1190 | 1150 | 1100 |
|             |                   |                   | LOW       | 1090                             | 1080 | 1070 | 1055 | 1040 | 1010 | 970  |

### NOTES:

1. Add nominal .05 static when optional wall panel is used.

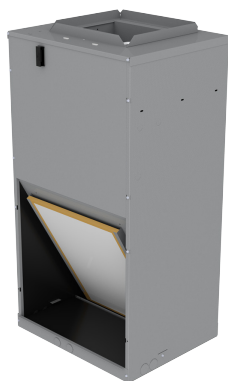
2. Shaded areas are factory motor settings.

### NOTE:

If cast iron pump is used then the unit is not NSF/ANSI rated.

### OPTIONAL FEATURES

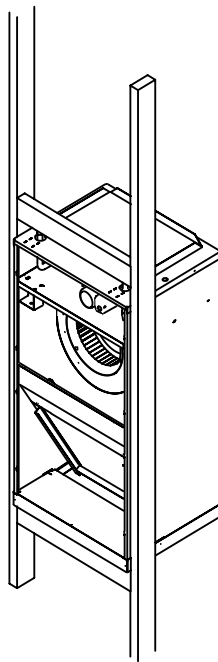
Optional accessories include field installed Heater Kits (only for 0kW models), factory or field installed TXV Kits (non-bleed type), Wall Panels with Captive Screws, Condensate Overflow Switch, Closet Hanger Bracket Kit, and Bottom Return Air Kit.



Unit shown with optional  
bottom return air kit



Unit shown with optional bottom  
return air kit



Typical recessed  
wall installation



Unit shown with front  
panel removed



Optional wall panel  
Recessed wall application



Condensate Overflow  
Switch #SS3



Condensate drain connections  
With drain cover removed  
Thermoplastic pan shown

# UC SERIES

## ELECTRIC HEAT W/ECM MOTOR

# UCX

## DATA TABLES

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNIT SIZE</b><br>18 }<br>19 } 18,000 BTUH<br>20 }<br>24 }<br>25 } 24,000 BTUH<br>26 }<br>30 }<br>31 } 30,000 BTUH<br>32 }<br>36 }<br>37 } 36,000 BTUH<br>38 }<br><br><b>SERIES</b><br>UCX<br><br><b>HEAT OPTION</b><br>00 - 0 KW No Heat<br>03 - 3 KW<br>04 - 4 KW<br>05 - 5 KW<br>06 - 6 KW<br>08 - 8 KW<br>10 - 10 KW<br><br><b>MOTOR TYPE</b><br>X - ECM<br><br><b>VOLTAGE</b><br>1 - 120/1/60<br>2 - 208-230/1/60<br><br><b>CABINET OPTIONS</b><br>0 - Standard Front Return<br>B - Bottom Return | <b>25</b><br><b>UCX</b><br><b>05</b><br><b>X</b><br><b>2</b><br><b>0</b><br><b>A</b><br><b>V</b><br><b>0</b><br><b>0</b><br><b>0</b><br><b>F</b> | <b>BRAND</b><br>F - First Co.<br><br><b>OPTIONS: GENERAL</b><br>0 - Standard<br><br><b>OPTIONS: SENSORS/SWITCHES</b><br>0 - None / Standard<br>2 - Float Switch<br><br><b>OPTIONS: CONTROL</b><br>0 - Standard<br><br><b>METERING DEVICE</b><br>V - Non Bleed TXV w/ Check<br><br><b>REFRIGERANT</b><br>A - R410A |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| PHYSICAL DATA |        |        |    |        |        |       |             |             |              |
|---------------|--------|--------|----|--------|--------|-------|-------------|-------------|--------------|
| UNIT MODEL    | A      | B      | C  | D      | E      | F     | FILTER SIZE | LIQUID LINE | SUCTION LINE |
| 19-25UCX      | 22-1/8 | 15-1/8 | 40 | 14     | 10-1/2 | 3-5/8 | 18 X 18     | 3/8 O.D.    | 5/8 O.D.     |
| 26, 31UCX     | 22-1/8 | 15-1/8 | 40 | 14     | 10-1/2 | 3-5/8 | 18 X 20     | 3/8 O.D.    | 3/4 O.D.     |
| 32, 37UCX     | 22-1/8 | 18-1/8 | 43 | 14     | 13     | 3-5/8 | 18 X 24     | 3/8 O.D.    | 3/4 O.D.     |
| 38UCX         | 28-1/8 | 21     | 46 | 16-1/2 | 13     | 7-1/2 | 24 x 24     | 3/8 O.D.    | 7/8 O.D.     |

### NOTES:

- Coil connections are sweat

# UC SERIES

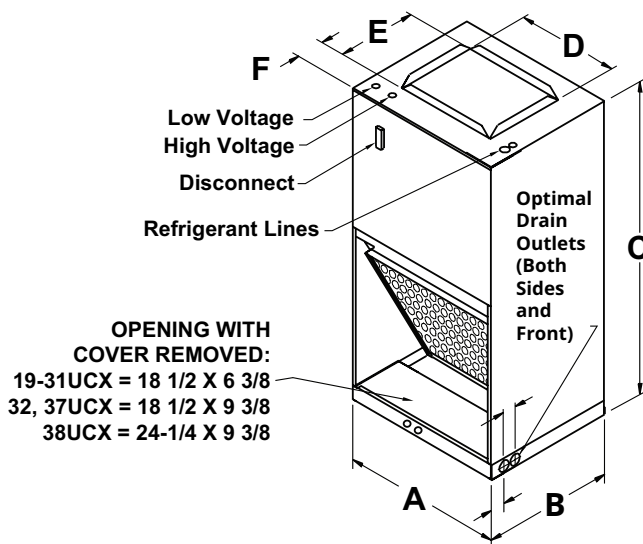
## ELECTRIC HEAT W/ECM MOTOR

UCX

## DATA TABLES



Unit shown with optional  
bottom return air kit



### PERFORMANCE DATA

| UNIT MODEL     | MOTOR HP | FAN SPEED TAP | MOTOR BHP | NOM. AMPS | CFM VS. EXTERNAL STATIC PRESSURE |      |      |      |      |
|----------------|----------|---------------|-----------|-----------|----------------------------------|------|------|------|------|
|                |          |               |           |           | 0.10                             | 0.20 | 0.30 | 0.40 | 0.50 |
| 19UCX<br>20UCX | 1/3      | 5             | 0.23      | 1.9       | 850                              | 830  | 800  | 770  | 730  |
|                |          | 4             | 0.16      | 1.2       | 680                              | 650  | 610  | 570  | 540  |
|                |          | 3             | 0.13      | 1.0       | 610                              | 570  | 530  | 490  | 460  |
| 25UCX<br>26UCX | 1/3      | 5             | 0.33      | 2.4       | 1030                             | 1000 | 970  | 930  | 890  |
|                |          | 4             | 0.25      | 2.1       | 890                              | 860  | 830  | 810  | 780  |
|                |          | 3             | 0.19      | 1.5       | 770                              | 740  | 710  | 680  | 640  |
|                |          | 2             | 0.15      | 1.2       | 670                              | 630  | 600  | 570  | 530  |
| 31UCX          | 1/2      | 4             | 0.50      | 2.8       | 1190                             | 1140 | 1090 | 1040 | 980  |
|                |          | 3             | 0.37      | 2.6       | 1120                             | 1090 | 1060 | 1010 | 960  |
|                |          | 2             | 0.27      | 2.0       | 940                              | 910  | 880  | 860  | 830  |
|                |          | 1             | 0.21      | 1.5       | 820                              | 790  | 760  | 730  | 700  |
| 32UCX          | 3/4      | 4             | 0.41      | 2.9       | 1250                             | 1220 | 1190 | 1150 | 1120 |
|                |          | 3             | 0.35      | 2.5       | 1090                             | 1060 | 1030 | 990  | 960  |
|                |          | 2             | 0.25      | 1.5       | 980                              | 940  | 910  | 870  | 840  |
|                |          | 1             | 0.19      | 1.0       | 870                              | 830  | 790  | 740  | 700  |
| 37UCX          | 3/4      | 5             | 0.75      | 3.9       | 1450                             | 1390 | 1330 | 1260 | 1190 |
|                |          | 4             | 0.41      | 3.1       | 1250                             | 1220 | 1190 | 1150 | 1120 |
|                |          | 3             | 0.33      | 2.3       | 1090                             | 1060 | 1030 | 990  | 960  |
|                |          | 2             | 0.27      | 1.9       | 980                              | 940  | 910  | 870  | 840  |
| 38UCX          | 3/4      | 5             | 0.53      | 3.5       | 1400                             | 1370 | 1350 | 1320 | 1290 |
|                |          | 4             | 0.47      | 2.8       | 1310                             | 1280 | 1250 | 1230 | 1200 |
|                |          | 3             | 0.38      | 2.1       | 1160                             | 1130 | 1100 | 1070 | 1040 |
|                |          | 2             | 0.34      | 1.8       | 1090                             | 1060 | 1020 | 990  | 960  |

#### NOTES:

1. Shaded rows are factory preset speeds.
2. Cooling = High Speed, Heating = Low Speed
3. Contact factory for correct matches with outdoor units.
4. Approved for installation with "0" clearance to combustible material.
5. Add nominal .05 static if wall panel is used.

# UC SERIES

## ELECTRIC HEAT W/ECM MOTOR

# UCX

## DATA TABLES

| PERFORMANCE DATA |                   |                            |                    |
|------------------|-------------------|----------------------------|--------------------|
| UNIT MODEL       | NOM. COOLING BTUH | MOTOR SPEED TAP CONNECTION |                    |
|                  |                   | HIGH SPD (GRN LEAD)        | LOW SPD (WHT LEAD) |
| 19/20UCX         | 18,000            | 4                          | 3                  |
| 25/26UCX         | 18,000            | 3                          | 2                  |
|                  | 24,000            | 4                          | 3                  |
| 31UCX            | 24,000            | 3                          | 2                  |
|                  | 30,000            | 4                          | 3                  |
| 32UCX            | 24,000            | 2                          | 1                  |
|                  | 30,000            | 3                          | 2                  |
| 37UCX            | 30,000            | 4                          | 3                  |
|                  | 36,000            | 5                          | 4                  |
| 38UCX            | 30,000            | 3                          | 2                  |
|                  | 36,000            | 4                          | 3                  |

| ELECTRICAL DATA         |      |             |                      |                        |      |       |       |            |      |                  |      |                                   |      |
|-------------------------|------|-------------|----------------------|------------------------|------|-------|-------|------------|------|------------------|------|-----------------------------------|------|
| UNIT MODEL              |      | NOM.<br>CFM | NOM.<br>COOL<br>BTUH | ELECTRIC HEAT CAPACITY |      |       |       | TOTAL AMPS |      | MIN.<br>AMPACITY |      | MAX.<br>OVERCURRENT<br>PROTECTION |      |
|                         |      |             |                      | kW                     |      | BTUH  |       |            |      | 240V             | 208V | 240V                              | 208V |
|                         |      |             |                      | 240V                   | 208V | 240V  | 208V  | 240V       | 208V |                  |      |                                   |      |
| 19UCX<br>20UCX          | 0-HK | 600         | 18000                | 0                      | 0    | 0     | 0     | 2.8        | 2.8  | 4                | 4    | 15                                | 15   |
|                         | 3    |             |                      | 3                      | 2.3  | 10236 | 6824  | 15.3       | 13.6 | 20               | 18   | 20                                | 20   |
|                         | 4    |             |                      | 4                      | 3.0  | 13648 | 10236 | 19.5       | 17.2 | 25               | 22   | 25                                | 25   |
|                         | 5    |             |                      | 5                      | 3.8  | 17061 | 13648 | 23.6       | 20.8 | 30               | 27   | 30                                | 30   |
|                         | 6    |             |                      | 6                      | 4.5  | 20473 | 15355 | 27.8       | 24.4 | 35               | 31   | 35                                | 35   |
|                         | 8    |             |                      | 8                      | 6    | 27297 | 20473 | 36.1       | 31.6 | 46               | 40   | 50                                | 40   |
|                         | 10   |             |                      | 10                     | 7.5  | 34121 | 25591 | 44.5       | 38.9 | 56               | 49   | 60                                | 50   |
| 25UCX<br>26UCX          | 0-HK | 800         | 24000/<br>18000      | 0                      | 0    | 0     | 0     | 2.8        | 2.8  | 4                | 4    | 15                                | 15   |
|                         | 3    |             |                      | 3                      | 2.3  | 10236 | 6824  | 15.3       | 13.6 | 20               | 18   | 20                                | 20   |
|                         | 4    |             |                      | 4                      | 3.0  | 13648 | 10236 | 19.5       | 17.2 | 25               | 22   | 25                                | 25   |
|                         | 5    |             |                      | 5                      | 3.8  | 17061 | 13648 | 23.6       | 20.8 | 30               | 27   | 30                                | 30   |
|                         | 6    |             |                      | 6                      | 4.5  | 20473 | 15355 | 27.8       | 24.4 | 35               | 31   | 35                                | 35   |
|                         | 8    |             |                      | 8                      | 6.   | 27297 | 20473 | 36.1       | 31.6 | 46               | 40   | 50                                | 40   |
|                         | 10   |             |                      | 10                     | 7.5  | 34121 | 25591 | 44.5       | 38.9 | 56               | 49   | 60                                | 50   |
| 31UCX                   | 0-HK | 1000        | 30000/<br>24000      | 0                      | 0    | 0     | 0     | 4.1        | 4.1  | 6                | 6    | 15                                | 15   |
|                         | 3    |             |                      | 3                      | 2.3  | 10236 | 6824  | 16.6       | 14.9 | 21               | 19   | 25                                | 20   |
|                         | 4    |             |                      | 4                      | 3.0  | 13648 | 10236 | 20.8       | 18.5 | 26               | 24   | 30                                | 25   |
|                         | 5    |             |                      | 5                      | 3.8  | 17061 | 13648 | 24.9       | 22.1 | 32               | 28   | 35                                | 30   |
|                         | 6    |             |                      | 6                      | 4.5  | 20473 | 15355 | 29.1       | 25.7 | 37               | 33   | 40                                | 35   |
|                         | 8    |             |                      | 8                      | 6.   | 27297 | 20473 | 37.4       | 32.9 | 47               | 42   | 50                                | 45   |
|                         | 10   |             |                      | 10                     | 7.5  | 34121 | 25591 | 45.8       | 40.2 | 58               | 50   | 60                                | 50   |
| 32UCX<br>37UCX<br>38UCX | 0-HK | 1200        | 36000/<br>30000      | 0                      | 0    | 0     | 0     | 6.0        | 6.0  | 8                | 8    | 15                                | 15   |
|                         | 3    |             |                      | 3                      | 2.3  | 10236 | 6824  | 18.5       | 16.8 | 24               | 22   | 25                                | 25   |
|                         | 5    |             |                      | 5                      | 3.8  | 17061 | 13648 | 26.8       | 24.0 | 34               | 31   | 35                                | 35   |
|                         | 6    |             |                      | 6                      | 4.5  | 20473 | 15355 | 31.0       | 27.6 | 39               | 35   | 40                                | 35   |
|                         | 8    |             |                      | 8                      | 6    | 27297 | 20473 | 39.3       | 34.8 | 50               | 44   | 50                                | 45   |
|                         | 10   |             |                      | 10                     | 7.5  | 34121 | 25591 | 47.7       | 42.1 | 60               | 53   | 60                                | 60   |

NOTES: (1) 0 - 10 kW is available for ALL UCX models

### ACCESSORIES

| OPTIONAL ACCESSORIES (ALL FIELD INSTALLED) |                |          |                |          |                |          |                                                       |                                                       |
|--------------------------------------------|----------------|----------|----------------|----------|----------------|----------|-------------------------------------------------------|-------------------------------------------------------|
| DESCRIPTION                                | PART #         |          |                |          |                |          | DIMENSIONS                                            |                                                       |
|                                            | 19-31UCX       |          | 32-37UCX       |          | 38UCX          |          | (OUTSIDE FRAME)                                       | (INSIDE FRAME)                                        |
|                                            | LOUVERED       | SOLID    | LOUVERED       | SOLID    | LOUVERED       | SOLID    |                                                       |                                                       |
| <b>WALL PANEL (1)</b>                      | 9PWUC01L       | 9PWUC01S | 9PWUC02L       | 9PWUC02S | 9PWUC04L       | 9PWUC04S | 43-3/8 X 25-5/8<br>46-3/8 X 25-5/8<br>52-1/2 X 31-5/8 | 40-3/8 X 22-5/8<br>43-3/8 X 22-5/8<br>49-1/2 X 28-5/8 |
| <b>HANGER BRKT SET</b>                     | 90PK3          |          | 90PK3          |          | 90PK31         |          | 1-3/4 X 22-1/8<br>1-3/4 X 27-15/16                    | ---                                                   |
| <b>BOTTOM RETURN AIR KIT</b>               | 90PK4          |          | 90PK5          |          | 90PK51         |          | 19-13/16 X 22<br>20-7/16 X 22<br>20-5/8 X 28          | ---                                                   |
| <b>3kW HEATER KIT (2)</b>                  | 9EHUC1-203 (2) |          | 9EHUC2-203 (2) |          | 9EHUC2-203 (2) |          | ---                                                   | ---                                                   |
| <b>5kW HEATER KIT (2)</b>                  | 9EHUC1-205 (2) |          | 9EHUC2-205 (2) |          | 9EHUC2-205 (2) |          |                                                       |                                                       |
| <b>6kW HEATER KIT (2)</b>                  | 9EHUC1-206 (2) |          | 9EHUC2-206 (2) |          | 9EHUC2-206 (2) |          |                                                       |                                                       |
| <b>8kW HEATER KIT (2)</b>                  | 9EHUC1-208 (2) |          | 9EHUC2-208 (2) |          | 9EHUC2-208 (2) |          |                                                       |                                                       |
| <b>10kW HEATER KIT (2)</b>                 | 9EHUC1-210 (2) |          | 9EHUC2-210 (2) |          | 9EHUC2-210 (2) |          |                                                       |                                                       |
| <b>CONDENSATE OVERFLOW KIT</b>             | SS3            |          | SS3            |          | SS3            |          | ---                                                   | ---                                                   |

#### NOTES:

1. Dimensions for wall panels are the outside of the panels. Inside "Opening" dimensions are approximately 3" less than shown.
2. Heater kits are only approved for installation in the "0-HK" models. Heater kits are not approved for UCX units that already contain factory installed heaters.



**Condensate Drain Connections**  
(With drain cover removed)  
(Male connections shown)



**Optional Wall Panel**  
Recessed wall application

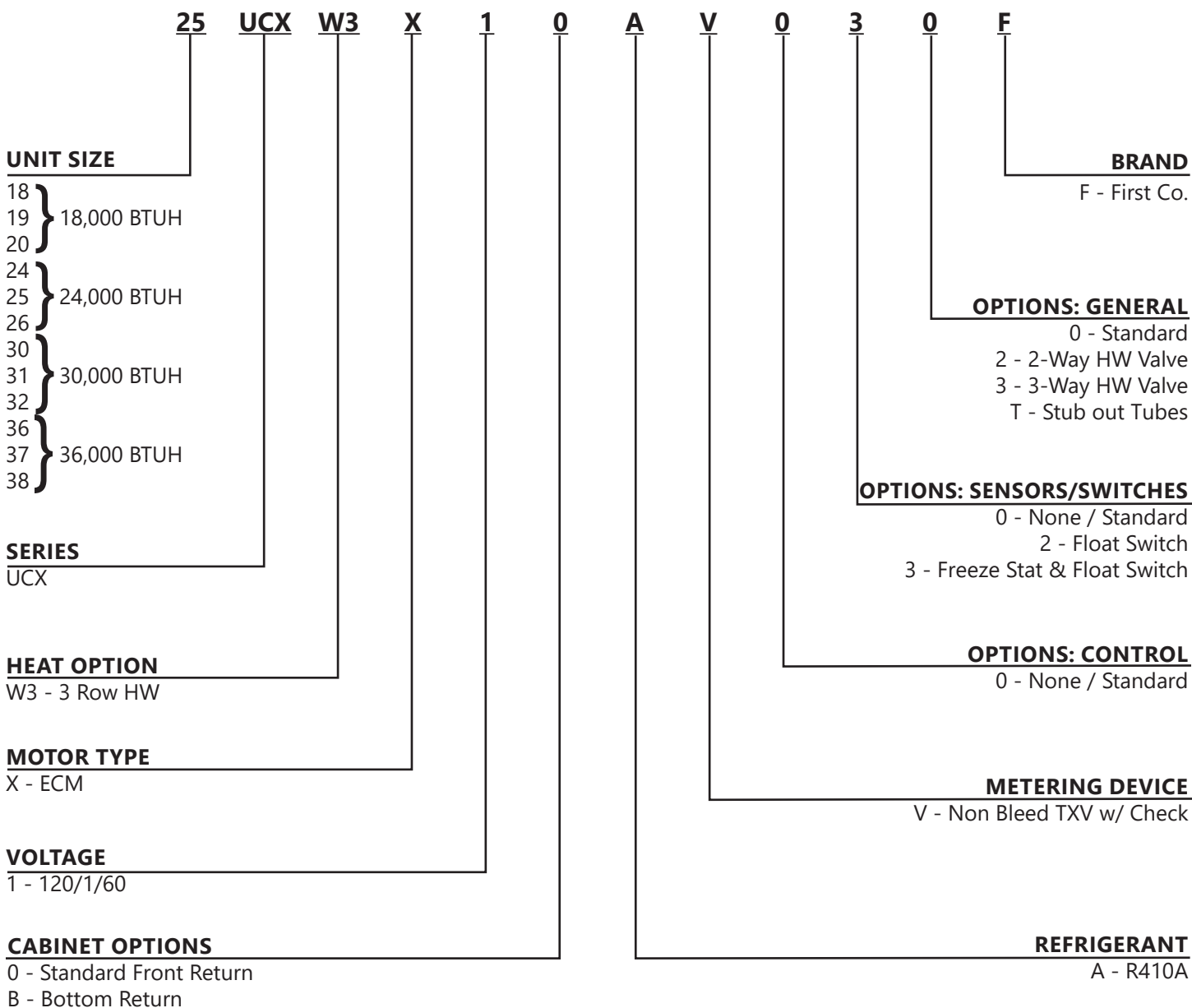


**#SS3**  
Condensate Overflow Switch

# UC SERIES

# UCXW

## HYDRONIC HEAT W/ECM MOTOR & DX COIL FOR COOLING



## OPTIONAL FEATURES

Optional features include wall panels with captive screws, condensate overflow switch, closet hanger bracket kit, and bottom return air kit.

**Unique Feature** - In recessed wall applications utilizing the optional wall panel, the hot water coil can be removed without modifications to the drywall. To allow this feature, the top of the **UCXW** cabinet is notched for coil removal and the wall panel is 3" taller than the cabinet.

# UC SERIES

HYDRONIC HEAT W/DCM MOTOR & DX COIL FOR COOLING

# UCXW

DATA TABLES

| PHYSICAL DIMENSIONS |        |    |    |        |        |             |             |              |
|---------------------|--------|----|----|--------|--------|-------------|-------------|--------------|
| UNIT MODEL          | A      | B  | C  | D      | E      | FILTER SIZE | LIQUID LINE | SUCTION LINE |
| 12-25UCX-HW         | 22-1/8 | 18 | 43 | 18     | 12-1/2 | 18 X 18     | 3/8" O.D.   | 5/8" O.D.    |
| 26/31UCX-HW         | 22-1/8 | 18 | 43 | 18     | 12-1/2 | 18 X 20     | 3/8" O.D.   | 3/4" O.D.    |
| 32/37UCX-HW         | 22-1/8 | 21 | 43 | 18     | 15-1/2 | 18 X 24     | 3/8" O.D.   | 3/4" O.D.    |
| 38UCX-HW            | 28-1/8 | 21 | 46 | 24-1/8 | 15-3/4 | 24 X 24     | 3/8" O.D.   | 7/8" O.D.    |

## NOTES:

1. All coil connections are sweat

| MOTOR SPEED TAP CONNECTION |                   |                     |                    |
|----------------------------|-------------------|---------------------|--------------------|
| UNIT MODEL                 | NOM. COOLING BTUH | HIGH SPD (VIO LEAD) | LOW SPD (GRY LEAD) |
| 12UCXW                     | 12,000            | GRY                 | VIO                |
| 19/20UCXW                  | 18,000            | 2                   | 1                  |
| 25/26UCXW                  | 18,000            | 2                   | 1                  |
|                            | 24,000            | 3                   | 2                  |
| 31/32UCXW                  | 24,000            | 2                   | 1                  |
|                            | 30,000            | 3                   | 2                  |
| 37/38UCXW                  | 30,000            | 2                   | 1                  |
|                            | 36,000            | 3                   | 2                  |

| PERFORMANCE DATA |                      |                         |                                                                         |     |       |     |       |     |
|------------------|----------------------|-------------------------|-------------------------------------------------------------------------|-----|-------|-----|-------|-----|
| UNIT MODEL       | NOMINAL COOLING BTUH | P.D. FT. WTR. COIL ONLY | HEATING BTUH (1000) AT ENTERING WATER TEMPERATURE<br>Delta-T 20°F & GPM |     |       |     |       |     |
|                  |                      |                         | 120°F                                                                   | GPM | 140°F | GPM | 180°F | GPM |
| 12UCXW           | 12,000               | 3.3                     | 11.4                                                                    | 1.1 | 16.0  | 1.6 | 25.1  | 2.5 |
|                  |                      | 2.1                     | 11.1                                                                    | 1.1 | 15.6  | 1.6 | 24.5  | 2.5 |
|                  |                      | 1.2                     | 10.8                                                                    | 1.1 | 15.1  | 1.5 | 23.7  | 2.4 |
| 19/20UCXW        | 18,000               | 3.3                     | 19.1                                                                    | 1.9 | 26.8  | 2.7 | 42.1  | 4.2 |
|                  |                      | 2.1                     | 18.5                                                                    | 1.9 | 25.9  | 2.6 | 40.7  | 4.1 |
|                  |                      | 1.2                     | 17.6                                                                    | 1.8 | 24.9  | 2.5 | 38.7  | 3.9 |
| 25/26UCXW        | 24,000 / 18,000      | 3.3                     | 22.9                                                                    | 2.3 | 32.1  | 3.2 | 50.4  | 5.0 |
|                  |                      | 2.1                     | 22.1                                                                    | 2.2 | 31.0  | 3.1 | 48.7  | 4.9 |
|                  |                      | 1.2                     | 20.8                                                                    | 2.1 | 29.2  | 2.9 | 45.9  | 4.6 |
| 31UCXW           | 30,000 / 24,000      | 3.3                     | 26.1                                                                    | 2.6 | 36.5  | 3.7 | 57.3  | 5.7 |
|                  |                      | 2.1                     | 25.0                                                                    | 2.5 | 35.1  | 3.5 | 55.1  | 5.5 |
|                  |                      | 1.2                     | 23.5                                                                    | 2.4 | 32.9  | 3.3 | 51.7  | 5.2 |
| 32UCXW           | 30,000 / 24,000      | 3.6                     | 28.1                                                                    | 2.8 | 39.3  | 3.9 | 61.7  | 6.2 |
|                  |                      | 2.4                     | 26.9                                                                    | 2.7 | 37.7  | 3.8 | 59.2  | 5.9 |
|                  |                      | 1.3                     | 25.2                                                                    | 2.5 | 35.3  | 3.5 | 55.4  | 5.5 |
| 37UCXW           | 36,000 / 30,000      | 3.6                     | 30.9                                                                    | 3.1 | 43.2  | 4.3 | 67.9  | 6.8 |
|                  |                      | 2.4                     | 29.6                                                                    | 3.0 | 41.3  | 4.1 | 64.9  | 6.5 |
|                  |                      | 1.3                     | 27.5                                                                    | 2.8 | 38.5  | 3.9 | 60.5  | 6.1 |
| 38UCXW           | 36,000 / 30,000      | 3.1                     | 33.8                                                                    | 3.4 | 47.4  | 4.7 | 74.4  | 7.4 |
|                  |                      | 1.7                     | 32.3                                                                    | 3.2 | 45.3  | 4.5 | 71.1  | 7.1 |
|                  |                      | 0.8                     | 30.0                                                                    | 3.0 | 42.1  | 4.2 | 66.1  | 6.6 |

## NOTES:

1. Heating output will not exceed output of hot water source.

2. Approved for installation with 0" clearance to combustible materials.

3. Contact factory for correct matches with outdoor unit.

(1) Heat BTUH is at 70°F entering air temperature. Based on 20°F Delta-T. Velocity not to exceed 4ft./sec.

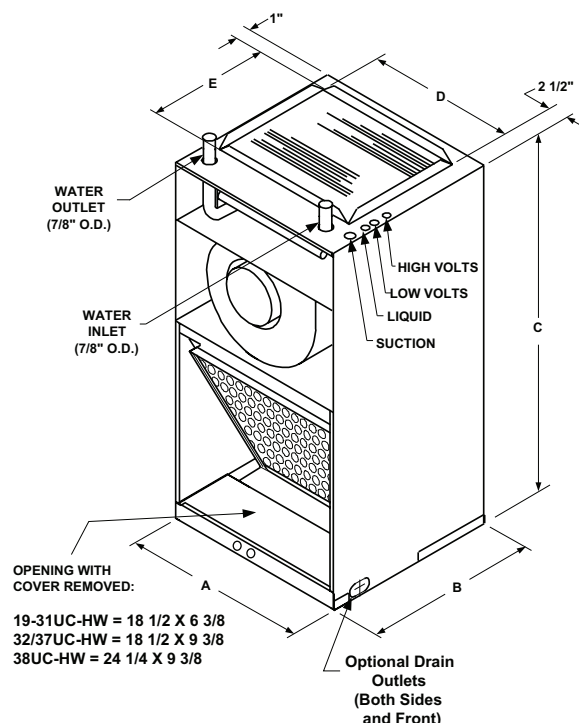
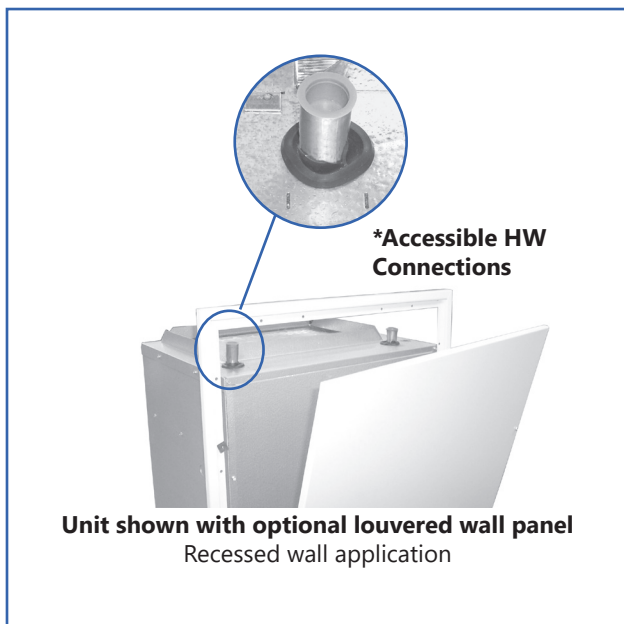
Based on 20°F Delta-T. Velocity not to exceed 4ft./sec.

# UC SERIES

HYDRONIC HEAT W/ECM MOTOR & DX COIL FOR COOLING

UCXW

DATA TABLES



| BLOWER DATA   |                         |                         |     |                 |              |     |     |                                  |      |      |      |      |      |      |
|---------------|-------------------------|-------------------------|-----|-----------------|--------------|-----|-----|----------------------------------|------|------|------|------|------|------|
| UNIT<br>MODEL | MOTOR<br>H.P.<br>(120V) | MOTOR<br>AMPS<br>(120V) | BHP | RUNNING<br>AMPS | SPEED<br>TAP | MCA | MOP | CFM vs. EXTERNAL STATIC PRESSURE |      |      |      |      |      |      |
|               |                         |                         |     |                 |              |     |     | 0.10                             | 0.15 | 0.20 | 0.25 | 0.30 | 0.40 | 0.50 |
| 12UCXW        | 1/4                     | 3.5                     | .11 | 1.6             | WHT          | 5   | 15  | 575                              | 555  | 540  | 525  | 505  | 465  | 425  |
|               |                         |                         | .09 | 1.3             | GRY          |     |     | 525                              | 505  | 490  | 470  | 450  | 405  | 360  |
|               |                         |                         | .04 | 0.5             | VIO          |     |     | 300                              | 275  | 250  | 225  | 200  | 155  | ---  |
| 19/20UCXW     | 1/3                     | 4.8                     | .24 | 3.0             | 3            | 6   | 15  | 690                              | 675  | 660  | 645  | 630  | 600  | 570  |
|               |                         |                         | .21 | 2.6             | 2            |     |     | 650                              | 630  | 610  | 590  | 570  | 540  | 510  |
|               |                         |                         | .16 | 1.7             | 1            |     |     | 530                              | 510  | 490  | 470  | 450  | 420  | 390  |
| 25/26UCXW     | 1/2                     | 6.8                     | .36 | 4.1             | 3            | 9   | 15  | 880                              | 865  | 850  | 835  | 820  | 790  | 760  |
|               |                         |                         | .23 | 2.4             | 2            |     |     | 670                              | 655  | 640  | 625  | 610  | 580  | 550  |
|               |                         |                         | .17 | 1.7             | 1            |     |     | 570                              | 550  | 530  | 515  | 500  | 470  | 440  |
| 31UCXW        | 1/2                     | 6.8                     | .50 | 5.1             | 3            | 9   | 15  | 930                              | 910  | 890  | 870  | 850  | 810  | 760  |
|               |                         |                         | .34 | 3.6             | 2            |     |     | 800                              | 785  | 770  | 750  | 730  | 700  | 690  |
|               |                         |                         | .22 | 2.1             | 1            |     |     | 610                              | 595  | 580  | 565  | 550  | 510  | 480  |
| 32UCXW        | 3/4                     | 8.4                     | .37 | 4.2             | 3            | 11  | 15  | 1010                             | 1000 | 990  | 975  | 960  | 930  | 900  |
|               |                         |                         | .24 | 2.6             | 2            |     |     | 790                              | 775  | 760  | 745  | 730  | 700  | 670  |
|               |                         |                         | .20 | 2.0             | 1            |     |     | 700                              | 685  | 670  | 650  | 630  | 600  | 560  |
| 37UCXW        | 3/4                     | 8.4                     | .75 | 6.7             | 3            | 11  | 15  | 1250                             | 1230 | 1210 | 1190 | 1170 | 1120 | 1070 |
|               |                         |                         | .49 | 5.5             | 2            |     |     | 1110                             | 1095 | 1080 | 1065 | 1050 | 1020 | 990  |
|               |                         |                         | .37 | 4.0             | 1            |     |     | 940                              | 925  | 910  | 895  | 880  | 850  | 820  |
| 38UCXW        | 3/4                     | 8.4                     | .47 | 5.6             | 3            | 11  | 15  | 1240                             | 1230 | 1220 | 1205 | 1190 | 1160 | 1130 |
|               |                         |                         | .38 | 5.2             | 2            |     |     | 1100                             | 1090 | 1080 | 1065 | 1050 | 1020 | 990  |
|               |                         |                         | .25 | 2.3             | 1            |     |     | 860                              | 845  | 830  | 815  | 800  | 760  | 730  |

## NOTES:

1. Add nominal .05 static when optional wall panel is used.
2. Shaded rows are factory preset speeds.
3. Add .05 static if wall panel is used.

# UC SERIES

HYDRONIC HEAT W/ECM MOTOR & DX COIL FOR COOLING

**UCXW**

DATA TABLES

## ACCESSORIES

| ALL UCXW OPTIONAL ACCESSORIES (FIELD INSTALLED) |                      |                     |                                                       |                                                      |
|-------------------------------------------------|----------------------|---------------------|-------------------------------------------------------|------------------------------------------------------|
| DESCRIPTION                                     | PART NO.             | FOR                 | DIMENSIONS                                            |                                                      |
| <b>WALL PANEL (1)</b>                           | 9PWUC03L<br>9PWUC04L | 12-37UCXW<br>38UCXW | 49-3/8 X 25-5/8<br>52-1/2 X 31-5/8<br>(Outside Frame) | 46-3/8 x 22-5/8<br>49-1/2 X 28-5/8<br>(Inside Frame) |
| <b>CLOSET BRKT.</b>                             | 90PK3<br>90PK31      | 12-37UCXW<br>38UCXW | 1-3/4 X 22-1/8<br>1-3/4 X 27-15/16                    | ---                                                  |
| <b>BOTTOM RETURN AIR KIT</b>                    | 90PK5<br>90PK51      | 12-37UCXW<br>38UCXW | 20-7/16 X 22<br>20-5/8 X 28                           | ---                                                  |
| <b>CONDENSATE OVERFLOW SWITCH</b>               | SS3                  | ALL UCXW            | ---                                                   | ---                                                  |
| <b>FREEZE (2) PROTECTOR</b>                     | 941-1                | ALL UCXW            | ---                                                   | ---                                                  |

### NOTES:

(1) Wall panels are taller than the UCXW cabinet to allow access to hot water coil connections.

(2) Energizes the pump if HW coil temperature falls below 40°.



**Optional Wall Panel**  
Recessed Wall Application



**#SS3**  
Condensate Overflow Switch



**Condensate Drain Connections**  
(With drain cover removed)  
(Male connections shown)



Unit Shown with Optional  
Bottom Return Air Kit



Unit Shown with  
Front Panel Removed

# UC SERIES

## HYDRONIC HEAT W/HI FLOW PUMP & ECM MOTOR

# UCXRX

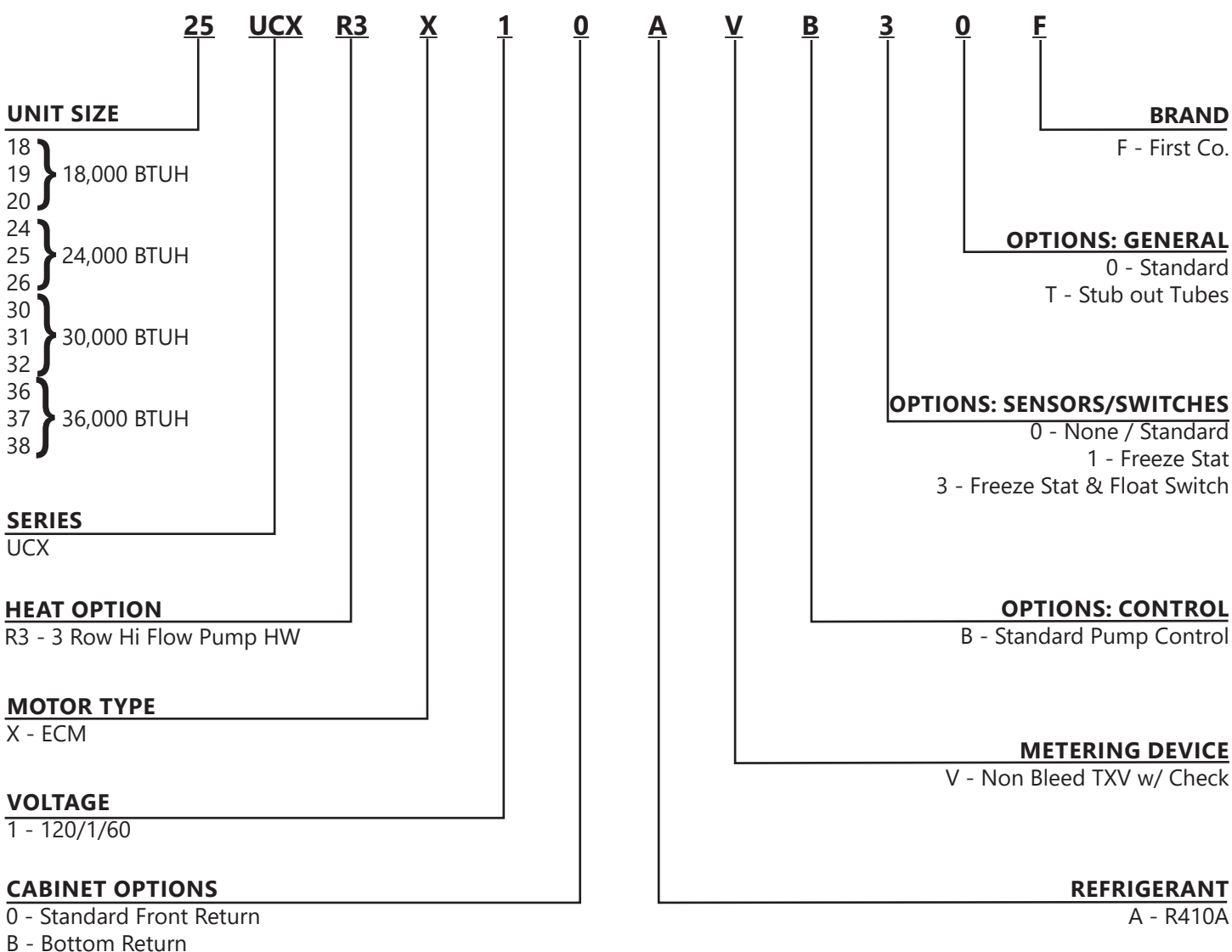
The **UCXRX** series air handlers are designed specifically for use with tankless water heaters. These air handlers allow high efficiency tankless water heaters to be used for two jobs instead of one, providing domestic hot water and high efficiency space heating! They are compatible with most of today's higher efficiency split-system heat pumps and condensing units.

These air handlers can be installed on a closet platform, hung on a closet wall, or recessed in a wall between the studs.

Important: In order for the **UCXRXs** to operate properly with tankless water heaters, the hot water coils must be piped to the tankless heaters according to the tankless manufacturer's instructions. Contact the water heater manufacturer for required accessories and piping requirements, as well as water heater sizing information.

The **UCXRX** air handlers include a high efficiency standard ECM motor, special circulating pump designed for tankless heaters, HW check valve, air purge valve, hot water coil, cooling coil, and multi-function circuit board.

**These fan coils are compatible with any source of hot water that does not exceed 180° and is NSF/ANSI certified for use with domestic water.**



## OPTIONAL FEATURES

**Unique New Feature** - In recessed wall applications utilizing the optional wall panel, the hot water coil can be removed without modifications to the drywall. To allow this feature, the top of the **UCXRX** cabinet is notched for coil removal and the wall panel is 3" taller than the cabinet.

Optional features include Wall Panels with Captive Screws, Condensate Overflow Switch, Closet Hanger Bracket Kit, and Bottom Return Air Kit.



Unit shown with optional  
bottom return air kit



**Standard Unit**  
Closet application - Front Return Air

| PERFORMANCE DATA |             |                       |                                                                               |     |      |     |       |     |       |     |       |     |                                         |                                   |                                 |                                   |
|------------------|-------------|-----------------------|-------------------------------------------------------------------------------|-----|------|-----|-------|-----|-------|-----|-------|-----|-----------------------------------------|-----------------------------------|---------------------------------|-----------------------------------|
| UNIT<br>MODEL    | NOM.<br>CFM | HTG.<br>GPM<br>(NOM.) | HEATING BTUH (1000) AT ENTERING WATER TEMPERATURE (1)<br>Delta - T 20°F & GPM |     |      |     |       |     |       |     |       |     | TOTAL<br>AMPS<br>(MO-<br>TOR)<br>(120V) | TOTAL<br>AMPS<br>(PUMP)<br>(120V) | MIN<br>CIRCUIT<br>AMPAC-<br>ITY | MAX<br>CIRCUIT<br>PROTEC-<br>TION |
|                  |             |                       | 120°F                                                                         | GPM | 130° | GPM | 140°F | GPM | 150°F | GPM | 160°F | GPM |                                         |                                   |                                 |                                   |
| 12UCXRX          | 275         | 4                     | 11.3                                                                          | 1.1 | 13.6 | 1.4 | 15.9  | 1.4 | 18.1  | 1.8 | 20.4  | 2.0 | 3.5                                     | .84                               | 6                               | 15                                |
| 19/20UCXRX       | 450         | 4                     | 15.6                                                                          | 1.6 | 18.8 | 1.9 | 21.9  | 1.9 | 25.0  | 2.5 | 28.2  | 2.8 | 4.8                                     | .84                               | 7                               | 15                                |
| 25/26UCXRX       | 610         | 4                     | 19.1                                                                          | 1.9 | 22.9 | 2.3 | 26.7  | 2.3 | 30.5  | 3.1 | 34.3  | 3.4 | 6.8                                     | .84                               | 10                              | 15                                |
| 31UCXRX          | 730         | 4                     | 21.3                                                                          | 2.1 | 25.6 | 2.6 | 29.9  | 2.6 | 34.2  | 3.4 | 38.5  | 3.9 | 6.8                                     | .84                               | 10                              | 15                                |
| 32UCXRX          | 730         | 4                     | 22.7                                                                          | 2.3 | 27.3 | 2.7 | 31.8  | 2.7 | 36.3  | 3.6 | 40.9  | 4.1 | 8.4                                     | .84                               | 12                              | 15                                |
| 37UCXRX          | 1050        | 4                     | 28.3                                                                          | 2.8 | 34.0 | 3.4 | 39.7  | 3.4 | 45.4  | 4.5 | 51.1  | 5.1 | 8.4                                     | .84                               | 12                              | 15                                |
| 38UCXRX          | 1050        | 4                     | 30.6                                                                          | 3.1 | 36.7 | 3.7 | 42.8  | 3.7 | 48.9  | 4.9 | 55.0  | 5.5 | 8.4                                     | .84                               | 12                              | 15                                |

### NOTES:

- (1) Heat BTUH is at 70°F entering air temperature.
- (2) Based on 20°F Delta-T. Velocity not to exceed 4ft./sec.
- (3) Heat BTUH output will not exceed output of water source.

# UC SERIES

## HYDRONIC HEAT W/HI FLOW PUMP & ECM MOTOR

# UCXRX

## DATA TABLES

| BLOWER DATA |                   |                   |     |              |           |                                  |      |      |      |      |      |      |
|-------------|-------------------|-------------------|-----|--------------|-----------|----------------------------------|------|------|------|------|------|------|
| UNIT MODEL  | MOTOR H.P. (120V) | MOTOR AMPS (120V) | BHP | RUNNING AMPS | SPEED TAP | CFM vs. EXTERNAL STATIC PRESSURE |      |      |      |      |      |      |
|             |                   |                   |     |              |           | 0.10                             | 0.15 | 0.20 | 0.25 | 0.30 | 0.40 | 0.50 |
| 12UCXRX     | 1/4               | 3.5               | .11 | 1.6          | WHT       | 575                              | 555  | 540  | 525  | 505  | 465  | 425  |
|             |                   |                   | .09 | 1.3          | GRY       | 525                              | 505  | 490  | 470  | 450  | 405  | 360  |
|             |                   |                   | .04 | 0.5          | VIO       | 300                              | 275  | 250  | 225  | 200  | 155  | ---  |
| 19/20UCXRX  | 1/3               | 4.8               | .24 | 3.0          | 3         | 690                              | 675  | 660  | 645  | 630  | 600  | 570  |
|             |                   |                   | .21 | 2.6          | 2         | 650                              | 630  | 610  | 590  | 570  | 540  | 510  |
|             |                   |                   | .16 | 1.7          | 1         | 530                              | 510  | 490  | 470  | 450  | 420  | 390  |
| 25/26UCXRX  | 1/2               | 6.8               | .36 | 4.1          | 3         | 880                              | 865  | 850  | 835  | 820  | 790  | 760  |
|             |                   |                   | .23 | 2.4          | 2         | 670                              | 655  | 640  | 625  | 610  | 580  | 550  |
|             |                   |                   | .17 | 1.7          | 1         | 570                              | 550  | 530  | 515  | 500  | 470  | 440  |
| 31UCXRX     | 1/2               | 6.8               | .50 | 5.1          | 3         | 930                              | 910  | 890  | 870  | 850  | 810  | 760  |
|             |                   |                   | .34 | 3.6          | 2         | 800                              | 785  | 770  | 750  | 730  | 700  | 690  |
|             |                   |                   | .22 | 2.1          | 1         | 610                              | 595  | 580  | 565  | 550  | 510  | 480  |
| 32UCXRX     | 3/4               | 8.4               | .37 | 4.2          | 3         | 1010                             | 1000 | 990  | 975  | 960  | 930  | 900  |
|             |                   |                   | .24 | 2.6          | 2         | 790                              | 775  | 760  | 745  | 730  | 700  | 670  |
|             |                   |                   | .20 | 2.0          | 1         | 700                              | 685  | 670  | 650  | 630  | 600  | 560  |
| 37UCXRX     | 3/4               | 8.4               | .75 | 6.7          | 3         | 1250                             | 1230 | 1210 | 1190 | 1170 | 1120 | 1070 |
|             |                   |                   | .49 | 5.5          | 2         | 1110                             | 1095 | 1080 | 1065 | 1050 | 1020 | 990  |
|             |                   |                   | .37 | 4.0          | 1         | 940                              | 925  | 910  | 895  | 880  | 850  | 820  |
| 38UCXRX     | 3/4               | 8.4               | .47 | 5.6          | 3         | 1240                             | 1230 | 1220 | 1205 | 1190 | 1160 | 1130 |
|             |                   |                   | .38 | 5.2          | 2         | 1100                             | 1090 | 1080 | 1065 | 1050 | 1020 | 990  |
|             |                   |                   | .25 | 2.3          | 1         | 860                              | 845  | 830  | 815  | 800  | 760  | 730  |

### NOTES:

1. Add nominal .05 static when optional wall panel is used.
2. Shaded rows are factory preset speeds.

| MOTOR SPEED |                   |                            |                    |
|-------------|-------------------|----------------------------|--------------------|
| UNIT MODEL  | NOM. COOLING BTUH | MOTOR SPEED TAP CONNECTION |                    |
|             |                   | HIGH SPD (VIO LEAD)        | LOW SPD (GRY LEAD) |
| 12UCXRX     | 12,000            | VIO                        | GRY                |
| 19/20UCXRX  | 18,000            | 2                          | 1                  |
| 25/26UCXRX  | 18,000            | 2                          | 1                  |
|             | 24,000            | 3                          | 2                  |
| 31/32UCXRX  | 24,000            | 2                          | 1                  |
|             | 30,000            | 3                          | 2                  |
| 37/38UCXRX  | 30,000            | 2                          | 1                  |
|             | 36,000            | 3                          | 2                  |

# UC SERIES

HYDRONIC HEAT W/HI FLOW PUMP & ECM MOTOR

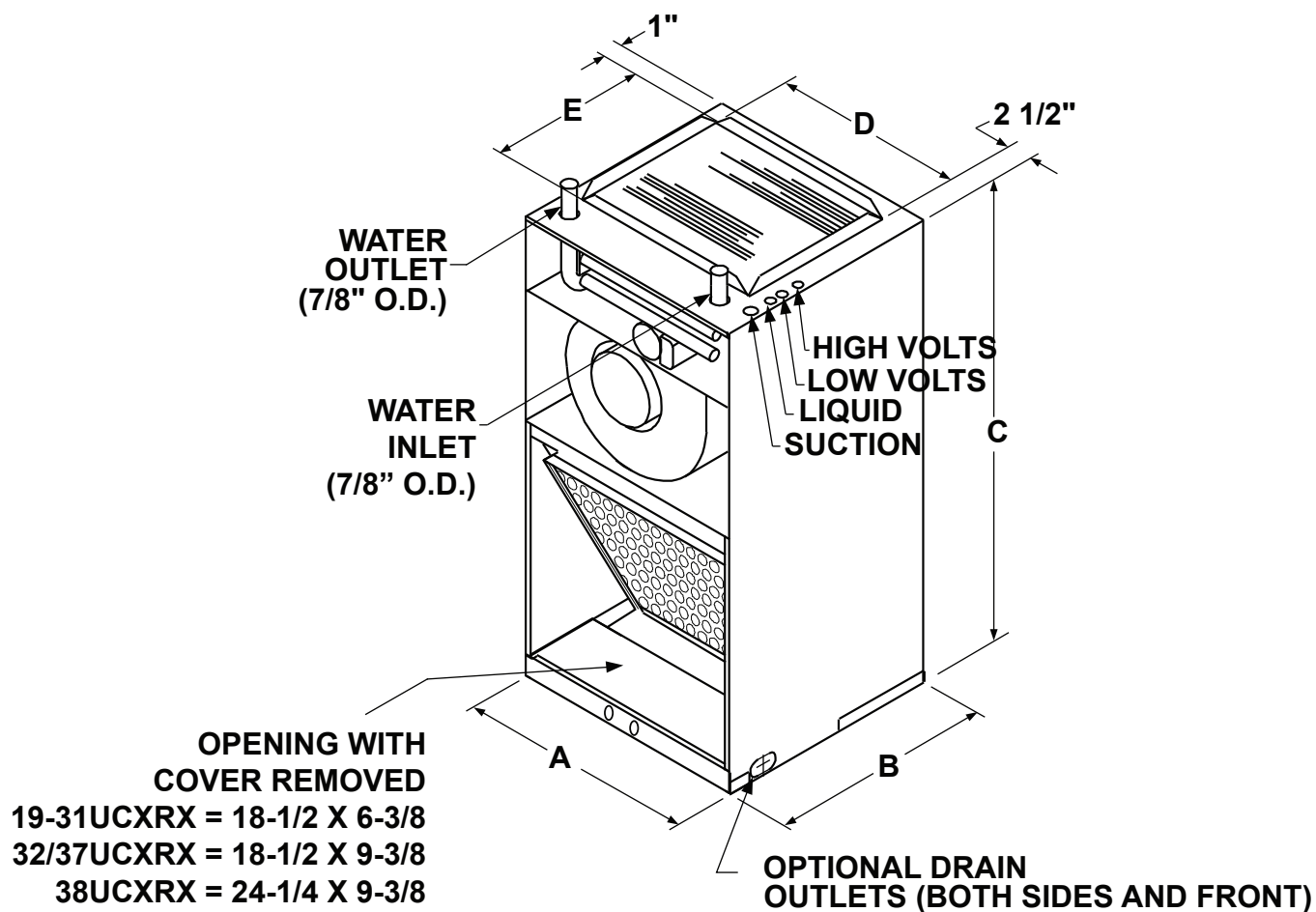
**UCXRX**

DATA TABLES

| PHYSICAL DIMENSIONS |        |    |    |        |        |             |             |              |
|---------------------|--------|----|----|--------|--------|-------------|-------------|--------------|
| UNIT MODEL          | A      | B  | C  | D      | E      | FILTER SIZE | LIQUID LINE | SUCTION LINE |
| 12-25UCXRX          | 22-1/8 | 18 | 43 | 18     | 12-1/2 | 18 X 18     | 3/8" O.D.   | 5/8" O.D.    |
| 26/31UCXRX          | 22-1/8 | 18 | 43 | 18     | 12-1/2 | 18 X 20     | 3/8" O.D.   | 3/4" O.D.    |
| 32/37UCXRX          | 22-1/8 | 21 | 43 | 18     | 15-1/2 | 18 X 24     | 3/8" O.D.   | 3/4" O.D.    |
| 38UCXRX             | 28-1/8 | 21 | 46 | 24-1/8 | 15-3/4 | 24 X 24     | 3/8" O.D.   | 7/8" O.D.    |

**NOTE:**

1. All coil connections are sweat



# UC SERIES

HYDRONIC HEAT W/HI FLOW PUMP & ECM MOTOR

**UCXRX**

DATA TABLES

## ACCESSORIES

| ALL UCXRX OPTIONAL ACCESSORIES (FIELD INSTALLED) |                      |                        |                                                       |                                                      |
|--------------------------------------------------|----------------------|------------------------|-------------------------------------------------------|------------------------------------------------------|
| DESCRIPTION                                      | PART NO.             | FOR                    | DIMENSIONS                                            |                                                      |
| <b>WALL PANEL (1)</b>                            | 9PWUC03L<br>9PWUC04L | 12-37UC(R)X<br>38UCXRX | 49-3/8 X 25-5/8<br>52-1/2 X 31-5/8<br>(Outside Frame) | 46-3/8 x 22-5/8<br>49-1/2 X 28-5/8<br>(Inside Frame) |
| <b>CLOSET BRKT.</b>                              | 90PK3<br>90PK31      | 12-37UCXRX<br>38UCXW   | 1-3/4 X 22-1/8<br>1-3/4 X 27-15/16                    | ---                                                  |
| <b>BOTTOM RETURN AIR KIT</b>                     | 90PK5<br>90PK51      | 12-37UCXRX<br>38UCXRX  | 20-7/16 X 22<br>20-5/8 X 28                           | ---                                                  |
| <b>CONDENSATE OVERFLOW SWITCH</b>                | SS3                  | ALL UCXRX              | ---                                                   | ---                                                  |
| <b>FREEZE (2) PROTECTOR</b>                      | 941-1                | ALL UCXRX              | ---                                                   | ---                                                  |

### NOTES:

- (1) Wall panels are taller than the UCXW cabinet to allow access to hot water coil connections.
- (2) Energizes the pump if HW coil temperature falls below 40°.



**Optional Wall Panel**  
Recessed Wall Application



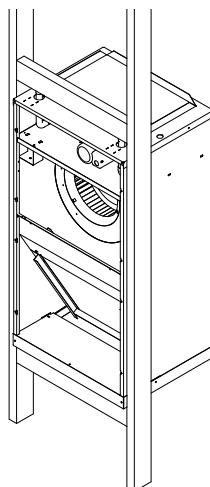
**#SS3**  
Condensate Overflow Switch



Unit Shown with  
Front Panel Removed



Unit Shown with Optional  
Bottom Return Air Kit



Typical Recessed  
Wall Installation

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**JULY 2025**