

INSTALLER'S GUIDE

**EHTR-IN-31G
18-HB60D17-7**

Note: This document is customer property and must be retained with the unit for maintenance personnel.

| | |
|-----------------|-------------------------------|
| Library | Service Literature |
| Product Section | Unitary |
| Product | Unitary Accessory |
| Model | Elec., Steam, Hot Water Coils |
| Literature Type | Installer's Guide |
| Sequence | 31G |
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| Supersedes | EHTR-IN-31F |

Models :

AY*HTRD418A
AYDHTRD436A
AYDHTRD454A
AY*HTRDW18A
AY*HTRE418A
AY*HTRE436A
AYHHTRE454A
AY*HTREW36A
AYHHTREW54A
AY*HTRF318A
AY*HTRF336A
AY*HTRF354A
AY*HTRFW36A
AY*HTRG436A
AY*HTRG454A
AY*HTRGW36A
AY*HTRGW54A
AY*HTRH336A
AY*HTRH354A
AY*HTRH372A
AY*HTRH472A
AY*HTRHW72A
AYDHTR427A

AYDHTRG427A
AYHHTRK318A
AYHHTRK418A
AYHHTRL418A
AYHHTRKW18A
AYHHTRK336A
AYHHTRL336A
AYHHTRK436A
AYHHTRL436A
AYHHTRKW36A
AYHHTRLW36A
AYHHTRK354A
AYHHTRL354A
AYHHTRK454A
AYHHTRL454A
AYHHTRKW54A
AYHHTRLW54A

Accessory Electric Heat

**12 1/2 through 20 Tons Packaged Heat Pump
12 1/2 through 25 Tons Packaged Cooling**

NOTICE

Warnings and Cautions appear at appropriate locations throughout this manual.
Read these carefully

WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices and where property-damage-only accidents could occur.

Since the manufacturer has a policy of continuous product improvement, it reserves the right to change design and specifications without notice.

General

These instructions cover the installation of accessory electric heat in both Heat Pumps and Cooling Only units. Limit control settings for Horizontal and Downflow units are listed in the chart below.

Table 1

| Limit Control Settings | | |
|---------------------------------------|----------|------------|
| Model | Downflow | Horizontal |
| WC*150, 180 | 170 | 170 |
| WC*240 | 170 | 140 |
| TC*150, 151, TC*180, 210 | 170 | 170 |
| TC*181, 211, 240, TC*241, 300, 301 | 170 | 140 |

Inspection

Inspect the shipping carton and its contents. Check for concealed damage before it is stored or used. If damaged, it should be reported to, and claims made against the transportation company. Replace damaged parts with authorized parts only. Compare the order number on the shipping label with the accessory identification information on the ordering and shipping documents to verify that the correct accessory has been received. Available power supply must be compatible with electrical characteristics specified on the component nameplates.

Parts List

Heater element(s)
 Heater control assembly
 Screws 20 (3/4" with sharp point)
 Screws 4 (1/2" with blunt point)
 Wiring diagram(s)
 Foam tape
 Conduit plates (one (1) or more with different size holes)
 Wire ties (with eye for screw)

Table 2

| Air Temperature Rise Across Electric Heaters | | | | |
|--|--------|------------------|------------------|------------------|
| KW | Stages | WC*150 | WC*180 | WC*240 |
| | | NOM. CFM 5000 | NOM. CFM 6000 | NOM. CFM 8000 |
| 18 | 1 | 11.4 | 9.5 | |
| 36 | 2 | 22.8 | 19 | 14.2 |
| 54 | 2 | 34.2 | 28.5 | 21.3 |
| 72 | 2 | | | 28.5 |

* Downflow or Horizontal Minimum air flow for 12.5, 15, & 20 ton is 4000, 4800 & 6400 CFM respectively.

Table 3

| Air Temperature Rise Across Electric Heaters | | | | | | |
|--|--------|------------------|------------------|------------------|------------------|------------------|
| KW | Stages | TC*150,151 | TC*180,181 | TC*210,211 | TC*240,241 | TC*300,301 |
| | | NOM. CFM 5000 | NOM. CFM 6000 | NOM. CFM 7000 | NOM. CFM 8000 | NOM. CFM 9000 |
| 18 | 1 | 11.4 | 9.5 | - | - | - |
| 27 | 2 | - | 14.2 | 12.2 | 10.7 | 9.5 |
| 36 | 2 | 22.8 | 19.0 | 16.3 | 14.2 | 12.6 |
| 54 | 2 | 34.2 | 28.5 | 24.4 | 21.3 | 19 |
| 72 | 2 | - | - | 32.5 | 28.5 | 25.3 |

1. Open and lock unit disconnect.

⚠ WARNING: HAZARDOUS VOLTAGE!

**DISCONNECT ALL ELECTRIC POWER INCLUDING
REMOTE DISCONNECTS BEFORE SERVICING.**

**Failure to disconnect power before servicing can
cause severe personal injury or death.**

2. Remove access panels 1 and 2. See Figure 1.
3. Remove compressor access panel and control box dead front panel.

**Figure 1
(Horizontal and Downflow Units)**

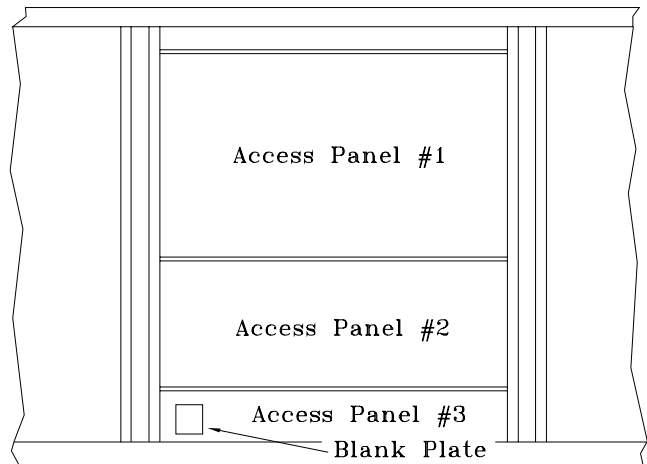


Figure 2A
(Horizontal Units)

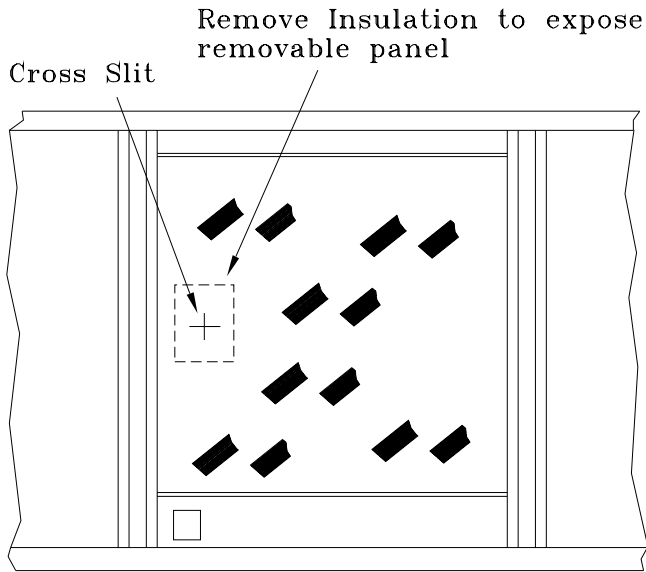
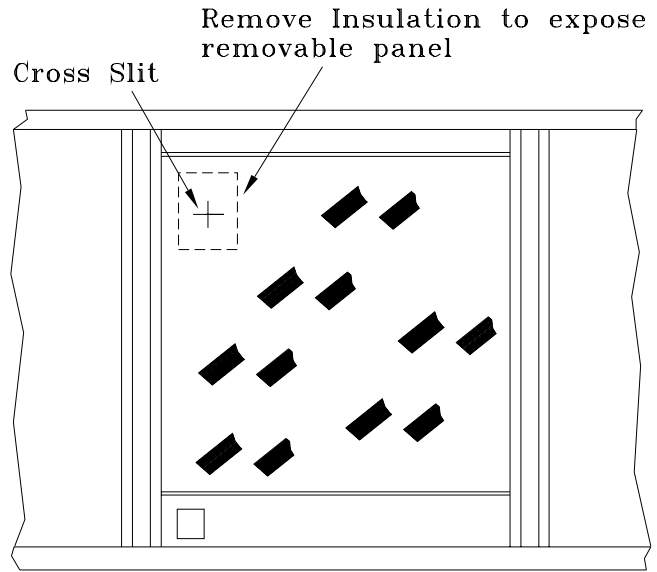


Figure 2B
(Downflow Units)



4. Locate perforation in insulation over removable panel where heaters are to be installed. See Figure 2A for horizontal units or Figure 2B for downflow units.
5. Remove insulation from over removable panel. Insulation to be removed has cross slits to allow you to take hold of and remove.
6. Cut or break tabs around the perimeter of the removable panel (exposed in step 5) and discard panel. On downflow units, ensure panel does not fall inside unit and into duct work.
7. Insert heater into opening while holding its support rods (at rear of heater) higher than the front. As heater is inserted through the opening, this will insure that the elements' support rods will be above the support rack in the unit. (See Figure 3) The elements' support rods rest in the U shaped bends of the support rack located inside and to the rear of the area where elements are being installed.

Important Note: The 18 KW heater is the only single stage heater available and must be mounted in the left side of the heater element opening. It ships with a filler plate attached that covers the opening to the right of the heater.

Important Note: The 27 KW heater has elements with different KW ratings. It consists of one (1) 9 KW and one (1) 18 KW element. The 1st stage, is always 9 KW. It must be installed so that the 9 KW element is to the left side in the heater element opening.

Important Note: The 54 KW heater has elements with different KW ratings. It consists of one (1) 36 KW and one (1) 18 KW element. The 1st stage, is always 36 KW. It must be installed so that the 36 KW element is to the left side in the heater element opening.

8. Secure heater, shown in Figure 3, with screws (provided) using the pre-drilled holes.
9. Next install the heater control assembly.
10. Refer to figure 3 and loosen two (2) unit screws located on the partition to the right. Then, from the parts supplied, start 2 (3/4") screws into the vestibule panel as shown.

Figure 3

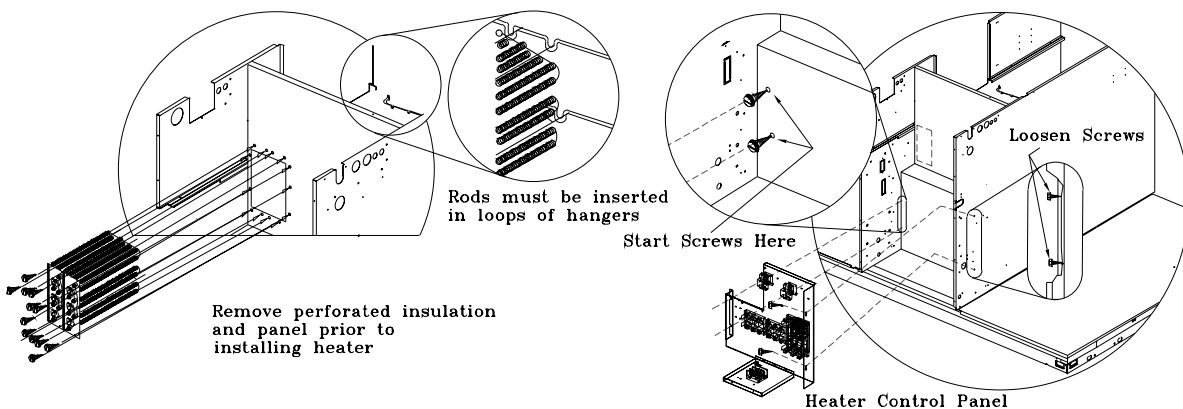
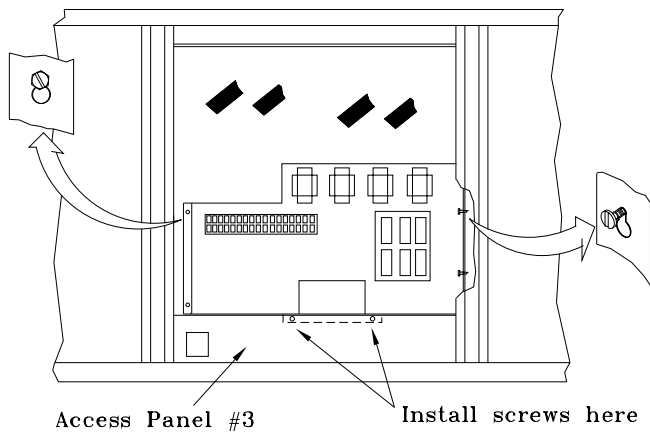


Figure 4
Horizontal and Downflow Units



Heater Control Mounting

11. Place the heater control assembly into the unit and fit the keyhole type openings of the heater control assembly's right hand angle over the screws loosened in step 10. (See Figure 4)
12. Fit the keyhole type openings of the heater control assembly's left hand angle over the screws that were started into the vestibule panel in step 10. (See Figure 4)
13. Using two (2) (3/4") screws provided, insert them thru the number 3 access panel and into the heater control assembly. (See Figure 4)
14. Tighten all screws securing the control assembly.
15. Uncoil the wire harness attached to the heater control assembly and route the leads to the heater elements and wire according to the wiring diagram provided.

Important Note: On horizontal units the wires are routed around and to the top of the heater elements first and then down. (See Figure 5A) Heaters are wired L1, L2 and L3 from the top down.

Important Note: On downflow units the wires are routed over to the bottom of the heater elements first and up. (See Figure 5B) Heaters are wired L1, L2 and L3 from the bottom up.

Note: Ensure wires do not touch element terminals.

16. Attach wire harness (from step 15) to the rear panel using screws provided. Insert screws through the eyes of two (2) wire ties and into pre-drilled holes in the rear panel close to where the heater elements are located. (See Figure 5A for wire tie location on horizontal units) (See Figure 5B for wire tie location on downflow units)

Note: Heaters which draw 60 AMPs or more require the Fuse Block. Heaters which draw 59 AMPs or less use the High Voltage Terminal Block HTB3.

17. Make the low voltage connection. Remove and discard the polarized jumper plug from the low voltage wire harness that runs between the unit's control box and the heat section. Connect the unit's low voltage wiring plug (where jumper plug was removed from) to the low voltage polarized plug from the heater control assembly.
18. Using wire ties provided, attach the harness to the partition panel to provide strain relief.

Single-Point Power Entry Only! (Steps 19 & 20)

19. Each unit is shipped with a power wire harness. One end is rolled up and attached to the partition panel in the heater control assembly area, and the other end is secured in the unit control box. Connect wires W1, W2, and W3 of this wire harness to the High Voltage Terminal Block (**HTB3**), or to the Fuse Block, (Which ever is provided), located on the heater control assembly. (See Figure 5A for harness location on horizontal units) (See Figure 5B for harness location on downflow units)
20. Wires W1, W2 and W3 **in the main control box** should be connected to the bottom side (line side) of High Voltage Terminal Block (**HTB1**) (See connection diagram).
21. Remove the four (4) (sharp tipped) screws holding the blank plate in place from the number 3 access panel. (See Figure 1)
22. There are a number of conduit plates provided. Choose the one with the correct sized hole for the conduit you intend to use. This hole is provided for conduit installation that your field wiring enters through.
23. Using foam tape provided, apply around the perimeter of the conduit plate to provide a water tight seal.

Figure 5A
(Horizontal Units)

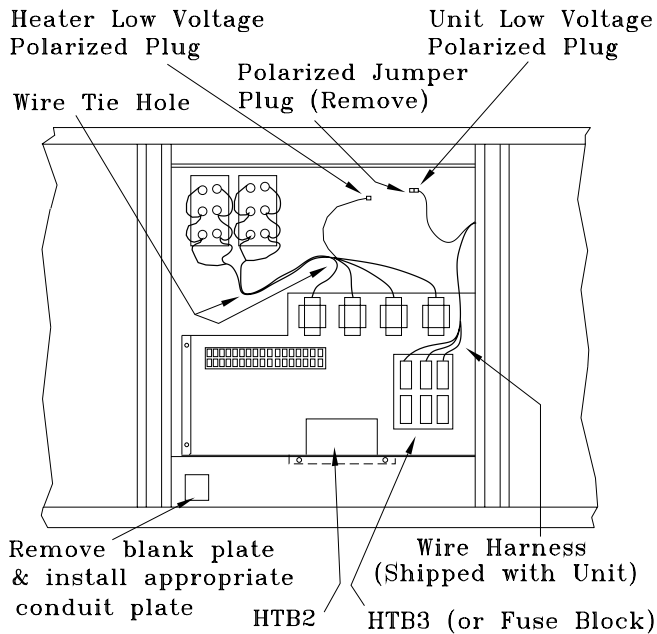
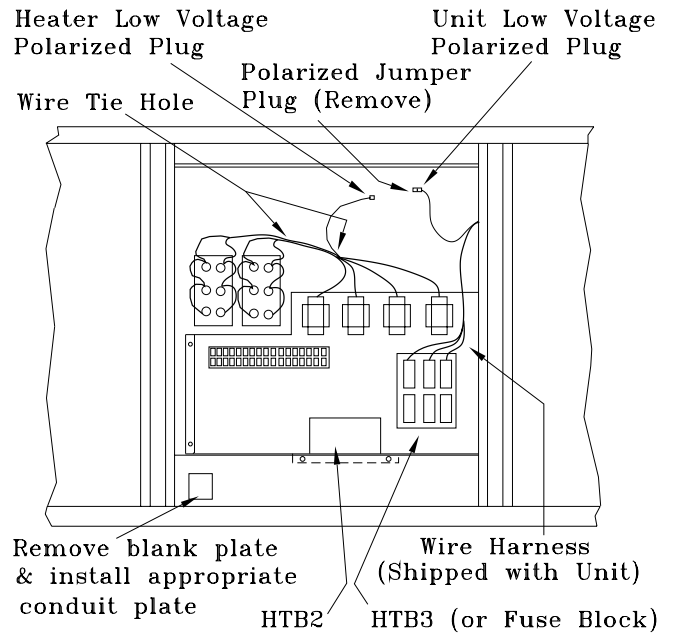


Figure 5B
(Downflow Units)



24. Using four (4) **blunt** tipped screws provided, attach the conduit plate (on the outside) to the access panel where the blank plate was removed.
25. Route field wiring through this entrance, according to the National Electric Code (**NEC**) and all local codes and connect them to the High Voltage Terminal Block (**HTB2**) and the equipment ground terminal. (See Figure 5A and Figure 5B)
26. Remove pressure sensitive backing from the wiring diagram provided and paste to back of access panel number 1.
27. Replace dead front panel (control box cover) and all access panels.

Note: Access panel number two (2) is designed to slide up for quick access to the fuses on the heater control assembly. To gain access remove the three (3) screws along the bottom of the panel and slide up.

Table 4

| Unit Model No. | Heater Model No. | Heater KW Rating ¹ | Control Stages | Standard Indoor Motor | | Oversize Indoor Motor | |
|----------------------------------|------------------|-------------------------------|----------------|-----------------------|---|-----------------------|---|
| | | | | MCA | Max Fuse Size Or Max Circuit Breaker ² | MCA | Max Fuse Size Or Max Circuit Breaker ² |
| 208/230 Volts Three Phase | | | | | | | |
| TCD150D3 | AYDHTRF318A | 13.5/18.0 | 1 | 65/68 | 80/80 | 72/76 | 80/80 |
| TCH150D3 | AYHHTRK318A | 13.5/18.0 | 1 | 65/68 | 80/80 | 72/76 | 80/80 |
| TCD150D3 | AYDHTRF336A | 27.0/36.0 | 2 | 108/122 | 110/125 | 115/130 | 125/150 |
| TCH150D3 | AYHHTRK336A | 27.0/36.0 | 2 | 108/122 | 110/125 | 115/130 | 125/150 |
| TCD150D3 | AYDHTRF354A | 40.5/54.0 | 2 | 154/176 | 175/200 | 162/184 | 175/200 |
| TCH150D3 | AYHHTRK354A | 40.5/54.0 | 2 | 154/176 | 175/200 | 162/184 | 175/200 |
| TCD180B3 | AYDHTRF318A | 13.5/18.0 | 1 | 79/79 | 100/100 | 85/85 | 100/100 |
| TCH180B3 | AYHHTRK318A | 13.5/18.0 | 1 | 79/79 | 100/100 | 85/85 | 100/100 |
| TCD180B3 | AYDHTRF336A | 27.0/36.0 | 2 | 108/122 | 110/125 | 115/130 | 125/150 |
| TCH180B3 | AYHHTRK336A | 27.0/36.0 | 2 | 108/122 | 110/125 | 115/130 | 125/150 |
| TCD180B3 | AYDHTRF354A | 40.5/54.0 | 2 | 154/176 | 175/200 | 162/184 | 175/200 |
| TCH180B3 | AYHHTRK354A | 40.5/54.0 | 2 | 154/176 | 175/200 | 162/184 | 175/200 |
| TCD210C3 | AYDHTRH336A | 27.0/36.0 | 2 | 115/130 | 125/150 | 125/139 | 125/150 |
| TCH210C3 | AYHHTRL336A | 27.0/36.0 | 2 | 115/130 | 125/150 | 125/139 | 125/150 |
| TCD210C3 | AYDHTRH354A | 40.5/54.0 | 2 | 162/184 | 175/200 | 171/193 | 175/200 |
| TCH210C3 | AYHHTRL354A | 40.5/54.0 | 2 | 162/184 | 175/200 | 171/193 | 175/200 |
| TCD240B3 | AYDHTRH336A | 27.0/36.0 | 2 | 115/130 | 125/150 | 125/139 | 125/150 |
| TCH240B3 | AYHHTRL336A | 27.0/36.0 | 2 | 115/130 | 125/150 | 125/139 | 125/150 |
| TC*240B3 | AY*HTRH354A | 40.5/54.0 | 2 | 162/184 | 175/200 | 171/193 | 175/200 |
| TC*240B3 | AY*HTRH372A | 54.0/72.0 | 2 | 209/238 | 225/250 | 218/247 | 225/250 |
| TC*300B3 | AY*HTRH336A | 27.0/36.0 | 2 | 132/139 | 150/150 | — | — |
| TC*300B3 | AY*HTRH354A | 40.5/54.0 | 2 | 171/193 | 175/200 | — | — |
| TC*300B3 | AY*HTRH372A | 54.0/72.0 | 2 | 218/247 | 225/250 | — | — |
| 460 Volts Three Phase | | | | | | | |
| TCD150D4 | AYDHTR418A | 18 | 1 | 34 | 40 | 37 | 40 |
| TCH150D4 | AYHHTRK418A | 18 | 1 | 34 | 40 | 37 | 40 |
| TCD150D4 | AYDHTR436A | 36 | 2 | 61 | 70 | 64 | 70 |
| TCH150D4 | AYHHTRK436A | 36 | 2 | 61 | 70 | 64 | 70 |
| TCD150D4 | AYDHTR454A | 54 | 2 | 88 | 90 | 91 | 100 |
| TCH150D4 | AYHHTRK454A | 54 | 2 | 88 | 90 | 91 | 100 |
| TCD180B4 | AYDHTR418A | 18 | 1 | 37 | 50 | 40 | 50 |
| TCH180B4 | AYHHTRK418A | 18 | 1 | 37 | 50 | 40 | 50 |
| TCH180B4 | AY*HTRK436A | 36 | 2 | 61 | 70 | 64 | 70 |
| TCD180B4 | AY*HTRE454A | 54 | 2 | 88 | 90 | 91 | 100 |
| TCH180B4 | AY*HTRK454A | 54 | 2 | 88 | 90 | 91 | 100 |
| TCD210C4 | AY*HTRG436A | 36 | 2 | 64 | 70 | 68 | 70 |
| TCH210C4 | AY*HTRL436A | 36 | 2 | 64 | 70 | 68 | 70 |
| TCD210C4 | AY*HTRG454A | 54 | 2 | 91 | 100 | 95 | 100 |
| TCH210C4 | AY*HTRL454A | 54 | 2 | 91 | 100 | 95 | 100 |
| TC*240B4 | AY*HTRG436A | 36 | 2 | 64 | 70 | 68 | 70 |
| TC*240B4 | AY*HTRG454A | 54 | 2 | 91 | 100 | 95 | 100 |
| TC*240B4 | AY*HTRH472A | 72 | 2 | 118 | 125 | 123 | 125 |
| TC*300B4 | AY*HTRG436A | 36 | 2 | 68 | 70 | — | — |
| TC*300B4 | AY*HTRG454A | 54 | 2 | 95 | 100 | — | — |
| TC*300B4 | AY*HTRH472A | 72 | 2 | 123 | 125 | — | — |
| 575 Volts Three Phase | | | | | | | |
| TCD150DW | AYDHTRDW18A | 18 | 1 | 27 | 30 | 30 | 35 |
| TCH150DW | AYHHTRKW18A | 18 | 1 | 27 | 30 | 30 | 35 |
| TCD150DW | AYDHTRGW36A | 36 | 2 | 49 | 50 | 51 | 60 |
| TCH150DW | AYHHTRKW36A | 36 | 2 | 49 | 50 | 51 | 60 |
| TCD150DW | AYDHTR54A | 54 | 2 | 70 | 70 | 73 | 80 |
| TCH150DW | AY*HTRKW54A | 54 | 2 | 70 | 70 | 73 | 80 |
| TCD180BW | AYDHTRDW18A | 18 | 1 | 27 | 40 | 31 | 40 |
| TCH180BW | AY*HTRKW18A | 18 | 1 | 27 | 40 | 31 | 40 |
| TCD180BW | AYDHTRGW36A | 36 | 2 | 49 | 50 | 51 | 60 |
| TCH180BW | AYHHTRKW36A | 36 | 2 | 49 | 50 | 51 | 60 |
| TCD180BW | AY*HTREW54A | 54 | 2 | 70 | 70 | 73 | 80 |
| TCH180BW | AY*HTRKW54A | 54 | 2 | 70 | 70 | 73 | 80 |

Notes:

* = Downflow or Horizontal

¹ = Heater kw rating are at 208/240 for 208/230v unit² = HACR type circuit breaker per NEC

Table 4 continued

| Unit Model No. | Heater Model No. | Heater KW Rating ¹ | Control Stages | Standard Indoor Motor | | Oversize Indoor Motor | |
|----------------------------------|------------------|-------------------------------|----------------|-----------------------|---|-----------------------|---|
| | | | | MCA | Max Fuse Size Or Max Circuit Breaker ² | MCA | Max Fuse Size Or Max Circuit Breaker ² |
| 575 Volts Three Phase | | | | | | | |
| TCD210CW | AYDHTRGW36A | 36 | 2 | 51 | 60 | 55 | 60 |
| TCH210CW | AYHHTRKW36A | 36 | 2 | 51 | 60 | 55 | 60 |
| TCD210CW | AY*HTRGW54A | 54 | 2 | 73 | 80 | 77 | 80 |
| TCH210CW | AY*HTRLW54A | 54 | 2 | 73 | 80 | 77 | 80 |
| TCD240BW | AYDHTRGW36A | 36 | 2 | 51 | 60 | 55 | 60 |
| TCH240BW | AYHHTRCW36A | 36 | 2 | 51 | 60 | 55 | 60 |
| TC*240BW | AY*HTRGW54A | 54 | 2 | 73 | 80 | 77 | 80 |
| TC*240BW | AY*HTRHW72A | 72 | 2 | 95 | 100 | 98 | 100 |
| TCD300BW | AYDHTRGW36A | 36 | 2 | 55 | 60 | — | — |
| TCH300BW | AYHHTRCW36A | 36 | 2 | 55 | 60 | — | — |
| TC*300BW | AY*HTRGW54A | 54 | 2 | 77 | 80 | — | — |
| TC*300BW | AY*HTRHW72A | 72 | 2 | 98 | 100 | — | — |
| 208/230 Volts Three Phase | | | | | | | |
| TCD151C3 | AYDHTRF318A | 13.5/18.0 | 1 | 64/68 | 80/80 | 70/76 | 90/90 |
| TCH151C3 | AYHHTRK318A | 13.5/18.0 | 1 | 64/68 | 80/80 | 70/76 | 90/90 |
| TCD151C3 | AYDHTRF336A | 27.0/36.0 | 2 | 108/122 | 110/125 | 115/130 | 125/150 |
| TCH151C3 | AYHHTRK336A | 27.0/36.0 | 2 | 108/122 | 110/125 | 115/130 | 125/150 |
| TCD151C3 | AYDHTRF354A | 40.5/54.0 | 2 | 154/176 | 175/200 | 162/184 | 175/200 |
| TCH151C3 | AYHHTRK354A | 40.5/54.0 | 2 | 154/176 | 175/200 | 162/184 | 175/200 |
| TC*181C3 | AY*HTRF318A | 13.5/18.0 | 1 | 81/81 | 100/100 | 87/87 | 100/100 |
| TC*181C3 | AY*HTRF336A | 27.0/36.0 | 2 | 108/122 | 110/125 | 115/130 | 125/150 |
| TC*181C3 | AY*HTRF354A | 40.5/54.0 | 2 | 154/176 | 175/200 | 162/184 | 175/200 |
| TC*211C3 | AY*HTRH336A | 27.0/36.0 | 2 | 115/130 | 125/150 | 125/139 | 125/150 |
| TC*211C3 | AY*HTRH354A | 40.5/54.0 | 2 | 162/184 | 175/200 | 171/193 | 175/200 |
| TC*211C3 | AY*HTRH372A | 54.0/72.0 | 2 | 209/238 | 225/250 | 218/247 | 225/250 |
| TC*241C3 | AY*HTRH336A | 27.0/36.0 | 2 | 123/130 | 150/150 | 130/139 | 150/150 |
| TC*241C3 | AY*HTRH354A | 40.5/54.0 | 2 | 162/184 | 175/200 | 171/193 | 175/200 |
| TC*241C3 | AY*HTRH372A | 54.0/72.0 | 2 | 209/238 | 225/250 | 218/247 | 225/250 |
| TC*301C3 | AY*HTRH336A | 27.0/36.0 | 2 | 130/139 | 150/150 | — | — |
| TC*301C3 | AY*HTRH354A | 40.5/54.0 | 2 | 171/193 | 175/200 | — | — |
| TC*301C3 | AY*HTRH372A | 54.0/72.0 | 2 | 218/247 | 225/250 | — | — |
| 460 Volts Three Phase | | | | | | | |
| TCD151C4 | AYDHTRF418A | 18 | 1 | 34 | 40 | 37 | 45 |
| TCH151C4 | AYHHTRK418A | 18 | 1 | 34 | 40 | 37 | 45 |
| TCD151C4 | AYDHTRF436A | 36 | 2 | 61 | 70 | 64 | 70 |
| TCH151C4 | AY*HTRK436A | 36 | 2 | 61 | 70 | 64 | 70 |
| TCD151C4 | AYDHTRF454A | 54 | 2 | 88 | 90 | 91 | 100 |
| TCH151C4 | AYHHTRK454A | 54 | 2 | 88 | 90 | 91 | 100 |
| TCD181C4 | AYDHTRF418A | 18 | 1 | 38 | 50 | 41 | 50 |
| TCH181C4 | AYHHTRC418A | 18 | 1 | 38 | 50 | 41 | 50 |
| TCD181C4 | AYDHTRF427A | 27 | 2 | 48 | 50 | — | — |
| TC*181C4 | AY*HTRE436A | 36 | 2 | 61 | 70 | 64 | 70 |
| TC*181C4 | AY*HTRE454A | 54 | 2 | 88 | 90 | 91 | 100 |
| TCD211C4 | AYDHTRG427A | 27 | 2 | 50 | 60 | — | — |
| TC*211C4 | AY*HTRG436A | 36 | 2 | 64 | 70 | 68 | 70 |
| TC*211C4 | AY*HTRG454A | 54 | 2 | 91 | 100 | 95 | 100 |
| TC*211C4 | AY*HTRH472A | 72 | 2 | 118 | 125 | 123 | 125 |
| TCD241C4 | AYDHTRG427A | 27 | 2 | 53 | 60 | — | — |
| TC*241C4 | AY*HTRG436A | 36 | 2 | 64 | 70 | 68 | 70 |
| TC*241C4 | AY*HTRG454A | 54 | 2 | 91 | 100 | 95 | 100 |
| TC*241C4 | AY*HTRH472A | 72 | 2 | 118 | 125 | 123 | 125 |
| TCD301C4 | AYDHTRG427A | 27 | 2 | 54 | 70 | — | — |
| TC*301C4 | AY*HTRG436A | 36 | 2 | 68 | 70 | — | — |
| TC*301C4 | AY*HTRG454A | 54 | 2 | 95 | 100 | — | — |
| TC*301C4 | AY*HTRH472A | 72 | 2 | 123 | 125 | — | — |

Notes:

* = Downflow or Horizontal

¹ = Heater kw rating are at 208/240 for 208/230v unit² = HACR type circuit breaker per NEC

| Unit Model No. | Heater Model No. | Heater KW Rating ¹ | Control Stages | Standard Indoor Motor | | Oversize Indoor Motor | |
|----------------------------------|------------------|-------------------------------|----------------|-----------------------|---|-----------------------|---|
| | | | | MCA | Max Fuse Size Or Max Circuit Breaker ² | MCA | Max Fuse Size Or Max Circuit Breaker ² |
| 575 Volts Three Phase | | | | | | | |
| TCD151CW | AYDHTRDW18A | 18 | 1 | 27 | 30 | 30 | 35 |
| TCH151CW | AYHHTRKW18A | 18 | 1 | 27 | 30 | 30 | 35 |
| TCD151CW | AYDHTRGW36A | 36 | 2 | 49 | 50 | 51 | 60 |
| TCH151CW | AYHHTRKW36A | 36 | 2 | 49 | 50 | 51 | 60 |
| TCD151CW | AY*HTRFW54A | 54 | 2 | 70 | 70 | 73 | 80 |
| TCH151CW | AYHHTRKW54A | 54 | 2 | 70 | 70 | 73 | 80 |
| TCD181CW | AYDHTRDW18A | 18 | 1 | 31 | 40 | 33 | 45 |
| TCH181CW | AYHHTRCW18A | 18 | 1 | 31 | 40 | 33 | 45 |
| TCD181CW | AYDHTRGW36A | 36 | 2 | 49 | 50 | 51 | 60 |
| TCH181CW | AYHHTRCW36A | 36 | 2 | 49 | 50 | 51 | 60 |
| TC*181CW | AY*HTREW54A | 54 | 2 | 70 | 70 | 73 | 80 |
| TCD211CW | AYDHTRGW36A | 36 | 2 | 51 | 60 | 55 | 60 |
| TCH211CW | AYHHTRCW36A | 36 | 2 | 51 | 60 | 55 | 60 |
| TC*211CW | AY*HTRGW54A | 54 | 2 | 73 | 80 | 77 | 80 |
| TC*211CW | AY*HTRHW72A | 72 | 2 | 95 | 100 | 98 | 100 |
| TCD241CW | AYDHTRGW36A | 36 | 2 | 51 | 60 | 55 | 60 |
| TCH241CW | AYHHTRCW36A | 36 | 2 | 51 | 60 | 55 | 60 |
| TC*241CW | AY*HTRGW54A | 54 | 2 | 73 | 80 | 77 | 80 |
| TC*241CW | AY*HTRHW72A | 72 | 2 | 95 | 100 | 98 | 100 |
| TCD301CW | AYDHTRGW36A | 36 | 2 | 55 | 60 | — | — |
| TCH301CW | AYHHTRCW36A | 36 | 2 | 55 | 60 | — | — |
| TC*301CW | AY*HTRGW54A | 54 | 2 | 77 | 80 | — | — |
| TC*301CW | AY*HTRHW72A | 72 | 2 | 98 | 100 | — | — |
| 208/230 Volts Three Phase | | | | | | | |
| WCD150B3 | AYDHTRF318A | 13.5/18.0 | 1 | 113/120 | 125/125 | 119/127 | 125/150 |
| WCD150B3 | AYDHTRF336A | 27.0/36.0 | 2 | 160/175 | 175/175 | 166/181 | 175/200 |
| WCD150B3 | AYDHTRF354A | 40.5/54.0 | 2 | 207/229 | 225/250 | 213/235 | 225/250 |
| WCH150B3 | AYHHTRK318A | 13.5/18.0 | 1 | 113/120 | 125/125 | 112/127 | 125/150 |
| WCH150B3 | AYHHTRK336A | 27.0/36.0 | 2 | 160/175 | 175/175 | 166/181 | 175/200 |
| WCH150B3 | AYHHTRK354A | 40.5/54.0 | 2 | 207/229 | 225/250 | 213/235 | 225/250 |
| WCD180B3 | AYDHTRF318A | 13.5/18.0 | 1 | 125/132 | 125/150 | 131/138 | 150/150 |
| WCD180B3 | AYDHTRF336A | 27.0/36.0 | 2 | 172/186 | 175/200 | 178/192 | 200/200 |
| WCD180B3 | AYDHTRF354A | 40.5/54.0 | 2 | 219/240 | 225/250 | 225/247 | 225/250 |
| WCH180B3 | AYHHTRK318A | 13.5/18.0 | 1 | 125/132 | 125/150 | 131/138 | 150/150 |
| WCH180B3 | AYHHTRK336A | 27.0/36.0 | 2 | 172/186 | 175/200 | 178/192 | 200/200 |
| WCH180B3 | AYHHTRK354A | 40.5/54.0 | 2 | 219/240 | 225/250 | 225/247 | 225/250 |
| WCD240B3 | AYDHTRH336A | 27.0/36.0 | 2 | 199/213 | 200/225 | 206/221 | 225/225 |
| WCD240B3 | AYDHTRH354A | 40.5/54.0 | 2 | 246/268 | 250/300 | 253/275 | 300/300 |
| WCD240B3 | AYDHTRH372A | 54.0/72.0 | 2 | 293/322 | 300/350 | 300/329 | 300/350 |
| WCH240B3 | AYHHTRH336A | 27.0/36.0 | 2 | 199/213 | 200/225 | 206/221 | 225/225 |
| WCH240B3 | AYHHTRH354A | 40.5/54.0 | 2 | 246/268 | 250/300 | 253/275 | 300/300 |
| WCH240B3 | AYHHTRH372A | 54.0/72.0 | 2 | 293/322 | 300/350 | 300/329 | 300/350 |

Notes: *= Downflow or Horizontal
¹= Heater kw rating are at 208/240 for 208/230v unit
²= HACR type circuit breaker per NEC

Table 4 continued

| Unit Model No. | Heater Model No. | Heater KW Rating ¹ | Control Stages | Standard Indoor Motor | | Oversize Indoor Motor | |
|------------------------------|------------------|-------------------------------|----------------|-----------------------|---|-----------------------|---|
| | | | | MCA | Max Fuse Size Or Max Circuit Breaker ² | MCA | Max Fuse Size Or Max Circuit Breaker ² |
| 460 Volts Three Phase | | | | | | | |
| WCD150B4 | AYDHTRD418A | 18 | 1 | 58 | 60 | 61 | 70 |
| WCD150B4 | AYDHTRE436A | 36 | 2 | 85 | 90 | 88 | 90 |
| WCD150B4 | AYDHTRE454A | 54 | 2 | 112 | 125 | 115 | 125 |
| WCH150B4 | AYHHTRL418A | 18 | 1 | 58 | 60 | 61 | 70 |
| WCH150B4 | AYHHTRK436A | 36 | 2 | 85 | 90 | 88 | 90 |
| WCH150B4 | AYHHTRK454A | 54 | 2 | 112 | 125 | 115 | 125 |
| WCD180B4 | AYDHTRD418A | 18 | 1 | 63 | 70 | 66 | 70 |
| WCD180B4 | AYDHTRE436A | 36 | 2 | 90 | 90 | 93 | 100 |
| WCD180B4 | AYDHTRE454A | 54 | 2 | 117 | 125 | 120 | 125 |
| WCH180B4 | AYHHTRL418A | 18 | 1 | 63 | 70 | 66 | 70 |
| WCH180B4 | AYHHTRK436A | 36 | 2 | 90 | 90 | 93 | 100 |
| WCH180B4 | AYHHTRK454A | 54 | 2 | 117 | 125 | 120 | 125 |
| WCD240B4 | AYDHTRG436A | 36 | 2 | 103 | 110 | 106 | 110 |
| WCD240B4 | AYDHTRG454A | 54 | 2 | 130 | 150 | 133 | 150 |
| WCD240B4 | AYDHTRH472A | 72 | 2 | 157 | 175 | 160 | 175 |
| WCH240B4 | AYHHTRG436A | 36 | 2 | 103 | 110 | 106 | 110 |
| WCH240B4 | AYHHTRG454A | 54 | 2 | 130 | 150 | 133 | 150 |
| WCH240B4 | AYHHTRH472A | 72 | 2 | 157 | 175 | 160 | 175 |
| 575 Volts Three Phase | | | | | | | |
| WCD150BW | AYDHTRDW18A | 18 | 1 | 47 | 50 | 49 | 50 |
| WCD150BW | AYDHTREW36A | 36 | 2 | 69 | 70 | 71 | 80 |
| WCD150BW | AYDHTREW54A | 54 | 2 | 90 | 90 | 93 | 100 |
| WCH150BW | AYHHTRKW18A | 18 | 1 | 47 | 50 | 49 | 50 |
| WCH150BW | AYHHTRLW36A | 36 | 2 | 69 | 70 | 71 | 80 |
| WCH150BW | AYHHTRKW54A | 54 | 2 | 90 | 90 | 93 | 100 |
| WCD180BW | AYDHTRDW18A | 18 | 1 | 50 | 50 | 53 | 60 |
| WCD180BW | AYDHTREW36A | 36 | 2 | 72 | 80 | 74 | 80 |
| WCD180BW | AYDHTREW54A | 54 | 2 | 94 | 100 | 96 | 100 |
| WCH180BW | AYHHTRKW18A | 18 | 1 | 50 | 50 | 53 | 60 |
| WCH180BW | AYHHTRLW36A | 36 | 2 | 72 | 80 | 74 | 80 |
| WCH180BW | AYHHTRKW54A | 54 | 2 | 94 | 100 | 96 | 100 |
| WCD240BW | AYDHTRFW36A | 36 | 2 | 82 | 90 | 85 | 90 |
| WCD240BW | AYDHTRGW54A | 54 | 2 | 103 | 110 | 106 | 110 |
| WCD240BW | AYDHTRHW72A | 72 | 2 | 125 | 125 | 128 | 150 |
| WCH240BW | AYHHTRFW36A | 36 | 2 | 82 | 90 | 85 | 90 |
| WCH240BW | AYHHTRGW54A | 54 | 2 | 103 | 110 | 106 | 110 |
| WCH240BW | AYHHTRHW72A | 72 | 2 | 125 | 125 | 128 | 150 |

Notes: * = Downflow or Horizontal
¹ = Heater kw rating are at 208/240 for 208/230v unit
² = HACR type circuit breaker per NEC

