

Installation Guide

Electric Heater Accessory Kit


Model Number	Used With	
BAYHTRR105, 110, 114	T*C/WSC036A1 - 060A1	
BAYHTRR 118	T*C/WSC048A1 - 060A1	
BAYHTRR306	T*C/WSC036A3 - 060A3 THC043A3	THC033A3 THC063A3
BAYHTRR312, 318	T*C/WSC036A3-060A3 THC043A3	THC033A3 WSC060AT
BAYHTRR323	T*C/WSC060A3	WSC060AT
BAYHTRR406	T*C/WSC036A4 - 060A4 THC043A4 TSC060AD WSC060AT	THC033A4 THC063A4 TSC060AK WSC060AD
BAYHTRR 412, 418	T*C/WSC036A4-060A4 THC043A4 TSC060AK, WSC060AD	THC033A4 TSC060AD
BAYHTRR 423	T*C/WSC060A4 TSC060AD WSC060AD	TSC060AD TSC060AK
BAYHTRRW06, W12, W18	T*C/WSC036AW - 060AW THC043AW TSC060AD WSC060AD	THC033AW THC063AW TSC060AK
BAYHTRRW23	T*C/W*C060AW	

Warnings, Cautions and Notices

Warnings, Cautions and Notices. Note that warnings, cautions and notices appear at appropriate intervals throughout this manual. Warnings are provide to alert installing contractors to potential hazards that could result in personal injury or death. Cautions are designed to alert personnel to hazardous situations that could result in personal injury, while notices indicate a situation that may result in equipment or property-damage-only accidents.

Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

ATTENTION: Warnings, Cautions and Notices appear at appropriate sections throughout this literature. Read these carefully.

 **WARNING:**

 **CAUTION:**

NOTICE:

Important Environmental Concerns!

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants-including industry replacements for CFCs such as HCFCs and HFCs.

General

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES. Installer must mark unit nameplate with Heater Information per instructions on nameplate.

Note: *If digit 9 in the unit model number equals "E" (Electro Mechanical Control), accessory relay BAY24X042 is required if the thermostat does not energize the fan circuit in the heating mode. See Figure 1 for wiring information.*

Inspection

1. Unpack all components of the kit.
2. Check carefully for any shipping damage. If any damage is found it must be reported immediately and a claim made against the transportation company.
3. Check the heater nameplate model number and compare with Tables 2, 3 or 4. Ensure that the available power supply and unit's model number complies with the particular heater being used.

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Installation

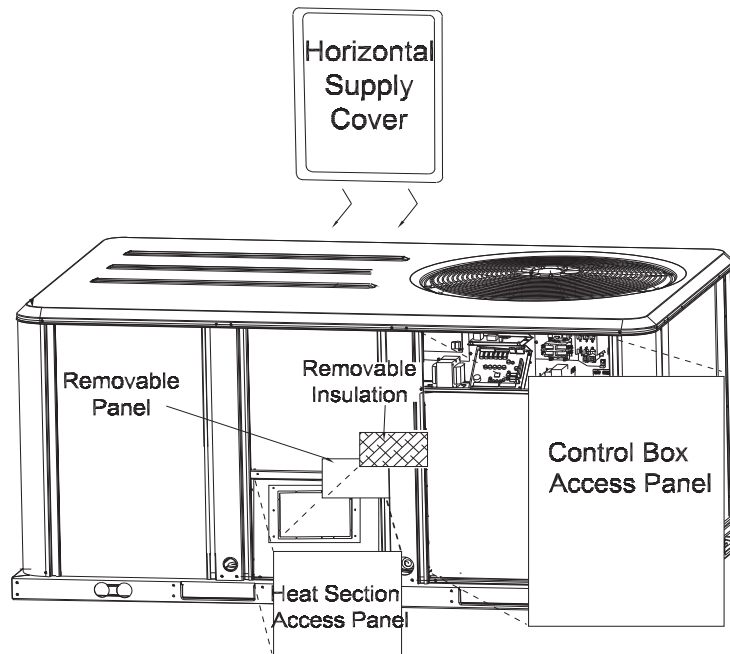
WARNING

Hazardous Voltage w/Capacitors!

Disconnect all electric power, including remote disconnects and discharge all motor start/run capacitors before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized. Verify with an appropriate voltmeter that all capacitors have discharged. Failure to disconnect power and discharge capacitors before servicing could result in death or serious injury.

1. Remove heater compartment access panel and unit control box access panel. See [Figure 1](#).
Note: On downflow units with or without duct work installed or horizontal units without ductwork installed, remove horizontal supply cover from the rear of the heater compartment.
2. Remove insulation to expose perimeter of removable panel in the vestibule panel. See [Figure 1](#).

Figure 1.



3. Clip or cut the retaining tabs around the perimeter of the removable panel.
4. Remove the panel.
5. Check the opening in the vestibule panel. Remove any metal burrs or slivers that could damage or pinch the heater elements resulting in a short circuit when elements are installed in the opening.
6. The electric heater element assembly has "BOTTOM" stamped in the mounting panel to identify the proper position for mounting.
Note: The back of the electric heater element assembly is supported by a factory installed Electric Heat Support Rod Hanger in the unit.
7. Tilt the back of the electric heater element assembly slightly upward as it is positioned in the opening to engage the support rod with the support rod hanger. Be very careful to avoid dragging the heater element on the edges of the opening in vestibule panel, as this could damage or pinch the heater elements resulting in a short circuit.

8. Secure the electric heater element assembly with 6 screws.
9. Slide the electric heater control panel/access door assembly inward until the rear edge engages with retaining clips. Secure the outer edge with 2 screws.
10. Models with spring latch doors have a latch panel assembly. To install the latch panel assembly, loosen one existing screw from the upper left side of the electric heater compartment opening. Position the latch panel assembly and secure with 3 screws. See [Figure 2](#). For Models with magnet latch door stops instead of a single latch panel, position each door stop with outer tab flush against center post and secure each door stop with 1 screw. See zoom view in [Figure 3](#).

Figure 2.

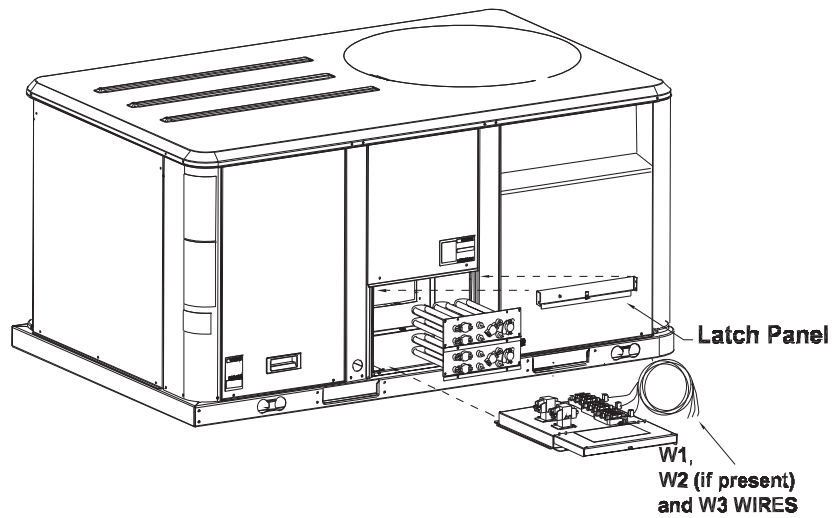


Figure 3.

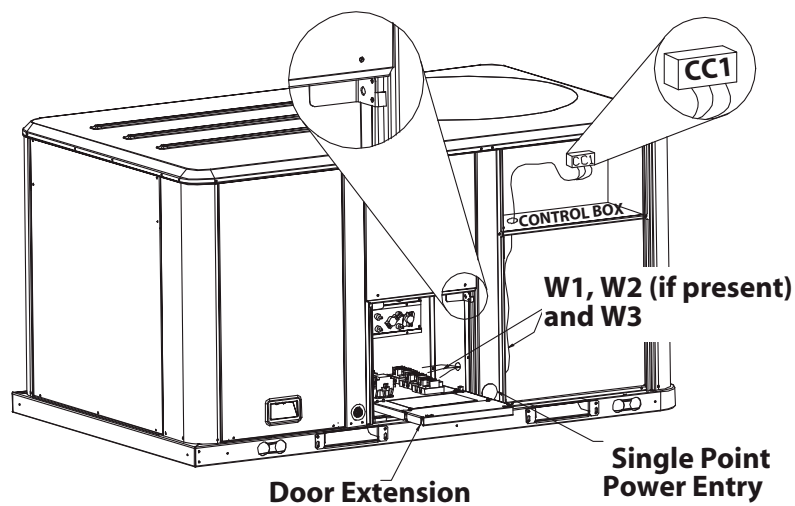
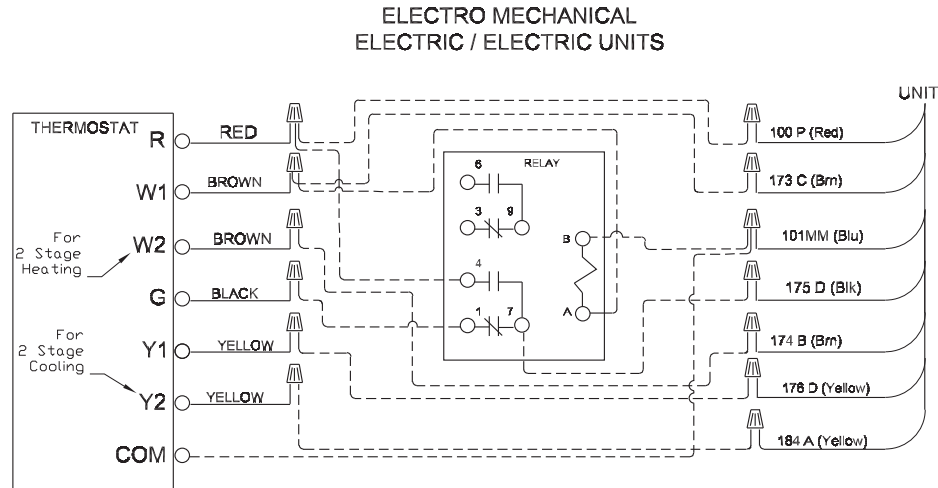
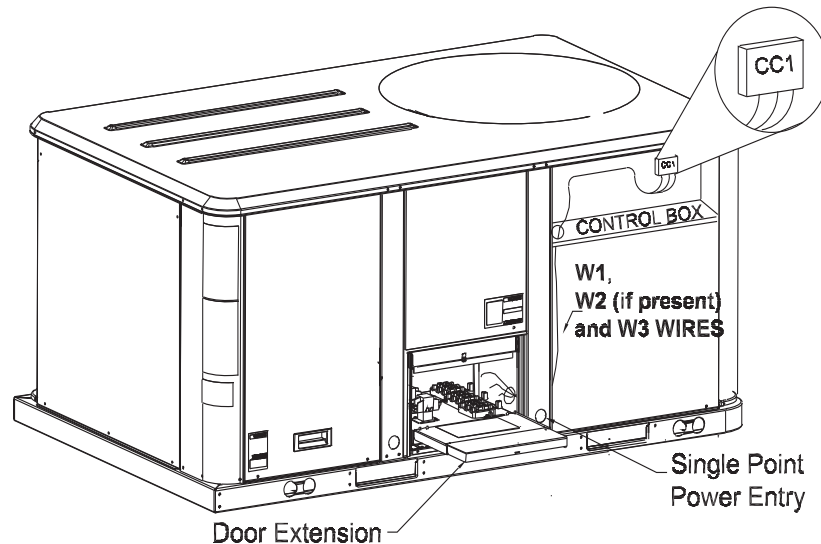


Figure 4.



11. Remove the wire nuts from W1, W2 (if present) and W3.
12. Route the wires through the wire access opening in the divider panel, then up to the unit control box entering through the bottom wire access opening on the left side. Secure wires to the existing harness.
13. In the unit control box, route the wires along the existing harness to contactor CC1. Secure wires to existing harness. See [Figure 2](#).
14. Locate the low voltage wire harness with polarized plug in the electric heater section compartment. Remove the factory installed jumper. Connect the low voltage polarized plug from the unit to the polarized plug on the electric heater assembly.
15. Wire heater element assembly to electric heater control panel according to the wiring diagram attached to the electric heater control panel door.
16. Secure green ground wire from the electric heat control panel to the right hand wall of electric heater compartment with star washer and #10 grounding screw.
17. Wire W1, W2 (if present) and W3 wires to CC1 according to the wiring diagram attached to the unit control panel door.
18. Route single point power entry wires through the front access opening of the support panel adjacent to the electric heater section compartment. Using good installation practices, provide strain relief for high voltage wires where necessary. See [Figure 5](#).

Figure 5.



Note: Ensure that field wiring complies with all applicable codes.

NOTICE

Use Copper Conductors Only!

Unit terminals are not designed to accept other types of conductors. Failure to use copper conductors may result in equipment damage.

19. Wire according to the wiring diagram attached to the electric heater control panel door. Ground unit at grounding lug provided on electric heater control panel assembly.

Important: After heater is installed and before applying power, verify that heating elements are not damaged or pinched and that heating elements are not short circuited to each other or to the heater frame or equipment cabinet by doing the following:

- a. Test every heater element with ohmmeter and verify that heater element terminals are electrically isolated from cabinet and ground (infinite resistance).
- b. On downflow units with or without duct work installed or horizontal units without ductwork installed, remove horizontal supply cover and carefully inspect elements after installation for damage or proximity to supporting structure or cabinet. At least 1/4" clearance is required around electric heater coils.

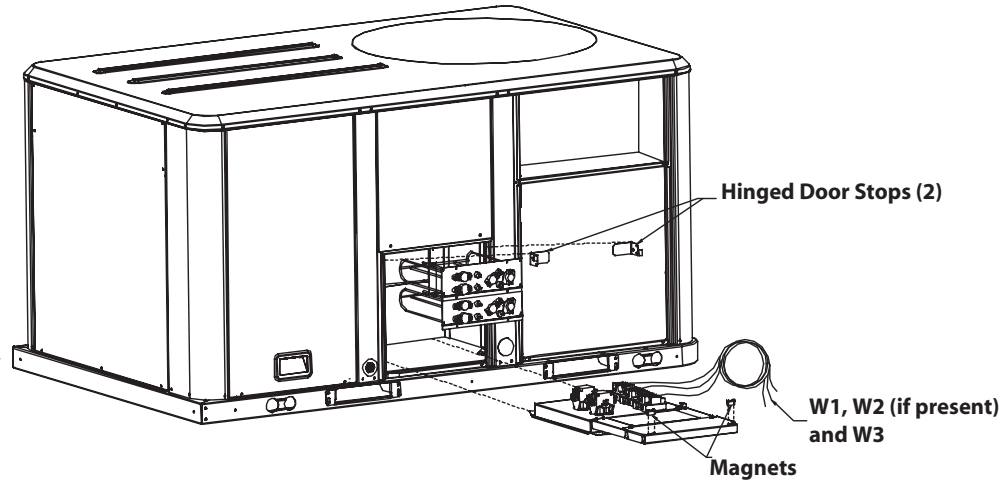
Important: Be sure to check tightness of all terminal connections, clamps, screws, etc., as these may have become loose in shipment. Retighten all electrical connections after equipment has been in operation and components have reached operating temperature.

20. For THC060, TSC060AD, WSC060AT units, skip to step 21. For all other units, remove and discard control panel door extension. See [Figure 5](#).

21. Skip this step for heaters with spring latch doors. For magnet latch doors, install the magnets into the door as seen in [Figure 6](#). Magnets should lock into place once installed.

Installation

Figure 6.



22. Close electric heater control panel access door, replace heat section access panel and unit control box access panel. Replace horizontal supply cover. Be careful when replacing cover and make sure gasketing is not torn or missing. Gasket must make water tight seal.
23. Scratch out the square on unit nameplate showing heater model installed in unit.

Table 1. Air temperature rise^(a)

Nominal kW Input	No. of Capacity Stages	3 Ton 1200 CFM ^(b)		4 Ton 600 CFM ^(c)		5 Ton 2000 CFM ^(d)	
		Single Phase T/WSC036A1	Three Phase THC033A3 THC033A4 THC033AW T/WS/C036A3 T/WS/C036A4 T/WS/C036AW	Single Phase T/WS/C048A1	Three Phase THC043A3 THC043A4 THC043AW T/WS/C048A3 T/WS/C048A4 T/WS/C048AW	Single Phase T/WS/C060A1	Three Phase THC063A3 THC063A4 THC063AW T/WS/C060A3 T/WS/C060A4 T/WS/C060AW TSC060AK
5.0	1	13.2		9.9		7.9	
6.0	1		15.8		11.9		9.5
7.5	2						11.9
10.0	2	26.3		19.8		15.8	
10.9	2						17.2
12.0	2		31.6		23.7		19.0
13.8	2	36.4		27.3		21.8	
14.4	2						22.8
17.4	2		45.8		34.4		27.5
17.6	2			34.8		27.8	
23.0	2						36.4

(a) The air temperature rise across the heaters is: (Heater kW x 3414)/(1.08 x CFM)

(b) The minimum allowable airflow for a 3 ton heat pump with a 17.4 or 17.6 kW heater is 1020 CFM.

(c) The minimum allowable airflow for a 4 ton heat pump or cooling only unit with a 17.4 or 17.6 kW heater is 1440 CFM.

(d) The minimum allowable airflow for a 5 ton heat pump with a 23.0 kW heater is 1900 CFM.

Table 2. Cooling only units with electric heater - single power source

Unit Model No.	Heater Model No.	Heater KW Rating ^(a)	Control Stages	Standard Indoor Motor		Oversize Indoor Motor		Belt Drive Indoor Motor	
				MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker
208/230 Volts Single Phase									
TSC036A1	BAYHTRR105	3.8 / 5.0	1	25.5 / 28.9	40 / 40	28.5 / 31.9	40 / 40	NA / NA	NA / NA
	BAYHTRR110	7.5 / 10.0	2	48.0 / 55.0	50 / 60	51.0 / 58.0	60 / 60	NA / NA	NA / NA
	BAYHTRR114	10.4 / 13.8	2	65.1 / 74.8	70 / 80	68.1 / 77.8	70 / 80	NA / NA	NA / NA
THC036A1	BAYHTRR105	3.8 / 5.0	1	25.5 / 28.9	40 / 40	28.5 / 31.9	40 / 40	NA / NA	NA / NA
	BAYHTRR110	7.5 / 10.0	2	48.0 / 55.0	50 / 60	51.0 / 58.0	60 / 60	NA / NA	NA / NA
	BAYHTRR114	10.4 / 13.8	2	65.1 / 74.8	70 / 80	68.1 / 77.8	70 / 80	NA / NA	NA / NA
TSC048A1	BAYHTRR105	3.8 / 5.0	1	34.0 / 34.0	50 / 50	36.1 / 36.1	50 / 50	NA / NA	NA / NA
	BAYHTRR110	7.5 / 10.0	2	49.6 / 56.6	50 / 60	52.3 / 59.3	60 / 60	NA / NA	NA / NA
	BAYHTRR114	10.4 / 13.8	2	66.8 / 76.4	70 / 80	69.4 / 79.0	70 / 80	NA / NA	NA / NA
	BAYHTRR118	13.2 / 17.6	2	84.0 / 96.1	90 / 100	86.6 / 98.8	90 / 100	NA / NA	NA / NA
THC048A1	BAYHTRR105	3.8 / 5.0	1	29.4 / 30.5	45 / 45	31.5 / 33.1	50 / 50	NA / NA	NA / NA
	BAYHTRR110	7.5 / 10.0	2	49.6 / 56.6	50 / 60	52.3 / 59.3	60 / 60	NA / NA	NA / NA
	BAYHTRR114	10.4 / 13.8	2	66.8 / 76.4	70 / 80	69.4 / 79.0	70 / 80	NA / NA	NA / NA
	BAYHTRR118	13.2 / 17.6	2	84.0 / 96.1	90 / 100	86.6 / 98.8	90 / 100	NA / NA	NA / NA
TSC060A1	BAYHTRR105	3.8 / 5.0	1	47.3 / 47.3	60 / 60	49.0 / 49.0	60 / 60	NA / NA	NA / NA
	BAYHTRR110	7.5 / 10.0	2	52.9 / 59.9	60 / 60	55.0 / 62.0	60 / 70	NA / NA	NA / NA
	BAYHTRR114	10.4 / 13.8	2	70.0 / 79.6	80 / 80	72.1 / 81.8	80 / 90	NA / NA	NA / NA
	BAYHTRR118	13.2 / 17.6	2	87.3 / 99.4	90 / 100	89.4 / 101.5	90 / 110	NA / NA	NA / NA
THC060A1	BAYHTRR105	3.8 / 5.0	1	39.5 / 39.5	60 / 60	41.2 / 41.2	60 / 60	NA / NA	NA / NA
	BAYHTRR110	7.5 / 10.0	2	52.9 / 59.9	60 / 60	55.0 / 62.0	60 / 70	NA / NA	NA / NA
	BAYHTRR114	10.4 / 13.8	2	70.0 / 79.6	80 / 80	72.1 / 81.8	80 / 90	NA / NA	NA / NA
	BAYHTRR118	13.2 / 17.6	2	87.3 / 99.4	90 / 100	89.4 / 101.5	90 / 110	NA / NA	NA / NA
208/230 Volts Three Phase									
THC033A3	BAYHTRR306	4.5 / 6.0	1	NA / NA	NA / NA	NA / NA	NA / NA	21.9 / 24.3	25 / 25
	BAYHTRR312	9.0 / 12.0	2	NA / NA	NA / NA	NA / NA	NA / NA	37.5 / 42.4	40 / 45
	BAYHTRR318	13.1 / 17.4	2	NA / NA	NA / NA	NA / NA	NA / NA	51.6 / 58.6	60 / 60
TSC036A3	BAYHTRR306	4.5 / 6.0	1	18.5 / 20.9	25 / 25	21.5 / 23.9	30 / 30	21.9 / 24.3	30 / 30
	BAYHTRR312	9.0 / 12.0	2	34.1 / 39.0	35 / 40	37.1 / 42.0	40 / 45	37.5 / 42.4	40 / 45
	BAYHTRR318	13.1 / 17.4	2	48.3 / 55.3	50 / 60	51.3 / 58.3	60 / 60	51.6 / 58.6	60 / 60
THC036A3	BAYHTRR306	4.5 / 6.0	1	18.5 / 20.9	30 / 30	21.5 / 23.9	30 / 30	21.9 / 24.3	25 / 25
	BAYHTRR312	9.0 / 12.0	2	34.1 / 39.0	35 / 40	37.1 / 42.0	40 / 45	37.5 / 42.4	40 / 45
	BAYHTRR318	13.1 / 17.4	2	48.3 / 55.3	50 / 60	51.3 / 58.3	60 / 60	51.6 / 58.6	60 / 60
THC043A3	BAYHTRR306	4.5 / 6.0	1	NA / NA	NA / NA	NA / NA	NA / NA	22.6 / 24.3	35 / 35
	BAYHTRR312	9.0 / 12.0	2	NA / NA	NA / NA	NA / NA	NA / NA	37.5 / 42.4	40 / 45
	BAYHTRR318	13.1 / 17.4	2	NA / NA	NA / NA	NA / NA	NA / NA	51.6 / 58.6	60 / 60
TSC048A3	BAYHTRR306	4.5 / 6.0	1	23.9 / 23.9	35 / 35	26.0 / 26.0	40 / 40	25.3 / 25.3	35 / 35
	BAYHTRR312	9.0 / 12.0	2	35.8 / 40.6	40 / 45	38.4 / 43.3	40 / 45	37.5 / 42.4	40 / 45
	BAYHTRR318	13.1 / 17.4	2	49.9 / 56.9	50 / 60	52.5 / 59.5	60 / 60	51.6 / 58.6	60 / 60

Installation

Table 2. Cooling only units with electric heater - single power source (continued)

Unit Model No.	Heater Model No.	Heater KW Rating ^(a)	Control Stages	Standard Indoor Motor		Oversize Indoor Motor		Belt Drive Indoor Motor	
				MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker
THC048A3	BAYHTRR306	4.5 / 6.0	1	21.2 / 22.5	30 / 30	23.3 / 25.1	35 / 35	22.6 / 24.3	35 / 35
	BAYHTRR312	9.0 / 12.0	2	35.8 / 40.6	40 / 45	38.4 / 43.3	40 / 45	37.5 / 42.4	40 / 45
	BAYHTRR318	13.1 / 17.4	2	49.9 / 56.9	50 / 60	52.5 / 59.5	60 / 60	51.6 / 58.6	60 / 60
TSC060A3	BAYHTRR306	4.5 / 6.0	1	31.5 / 31.5	50 / 50	33.2 / 33.2	50 / 50	30.3 / 30.3	45 / 45
	BAYHTRR312	9.0 / 12.0	2	39.0 / 43.9	50 / 50	41.1 / 46.0	50 / 50	37.5 / 42.4	45 / 45
	BAYHTRR318	13.1 / 17.4	2	53.1 / 60.1	60 / 70	55.3 / 62.3	60 / 70	51.6 / 58.6	60 / 60
	BAYHTRR323	17.3 / 23.0	2	67.8 / 76.9	70 / 80	69.9 / 79.0	70 / 80	66.3 / 75.4	70 / 80
THC060A3	BAYHTRR306	4.5 / 6.0	1	30.0 / 30.0	45 / 45	31.7 / 31.7	45 / 45	28.8 / 28.8	45 / 45
	BAYHTRR312	9.0 / 12.0	2	39.0 / 43.9	45 / 45	41.1 / 46.0	45 / 50	37.5 / 42.4	45 / 45
	BAYHTRR318	13.1 / 17.4	2	53.1 / 60.1	60 / 70	55.3 / 62.3	60 / 70	51.6 / 58.6	60 / 60
	BAYHTRR323	17.3 / 23.0	2	67.8 / 76.9	70 / 80	69.9 / 79.0	70 / 80	66.3 / 75.4	70 / 80
THC063A3	BAYHTRR306	4.5 / 6.0	1	NA / NA	NA / NA	NA / NA	NA / NA	28.8 / 28.8	45 / 45
	BAYHTRR312	9.0 / 12.0	2	NA / NA	NA / NA	NA / NA	NA / NA	37.5 / 42.4	45 / 45
	BAYHTRR318	13.1 / 17.4	2	NA / NA	NA / NA	NA / NA	NA / NA	51.6 / 58.6	60 / 60
	BAYHTRR323	17.3 / 23.0	2	NA / NA	NA / NA	NA / NA	NA / NA	66.3 / 75.4	70 / 80

(a) Heater kw ratings are at 208/240 for 208/230V unit.

Table 3. Cooling unit with electric heater single power source

To Use With	Heater Model No.	Heater kW Rating	Control Stages	Standard Indoor Fan Motor		Oversized Indoor Fan Motor	
				Minimum Circuit Ampacity	Maximum Fuse Size Or Maximum Circuit Breaker	Minimum Circuit Ampacity	Maximum Fuse Size Or Maximum Circuit Breaker
380 Volts 3 Phase							
TSC060AK	BAYHTRR412	7.5	2	19.6	30	—	—
	BAYHTRR418	10.9	2	26.1	30	—	—
	BAYHTRR423	14.4	2	32.8	35	—	—
TSC072AK	BAYHTRS418	11.3	1	27.6	35	—	—
	BAYHTRS427	16.9	2	38.3	40	—	—
	BAYHTRS436	22.6	2	49.0	50	—	—
TSC090AK	BAYHTRS418	11.3	1	28.4	40	29.9	45
	BAYHTRS427	16.9	2	38.3	40	40.1	45
	BAYHTRS436	22.6	2	49.0	50	50.9	60
TSC102AK	BAYHTRT427	16.9	2	38.3	40	40.1	45
	BAYHTRT436	22.6	2	49.0	50	50.9	60
TSC120AK	BAYHTRT427	16.9	2	40.1	45	43.6	45
	BAYHTRT436	22.6	2	50.9	60	54.4	60
	BAYHTRT454	33.8	2	72.3	80	75.8	80

Table 4. Cooling only units with electric heater - single power source

Unit Model No.	Heater Model No.	Heater KW Rating ^(a)	Control Stages	Standard Indoor Motor		Oversize Indoor Motor		Belt Drive Indoor Motor	
				MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker
460 Volts Three Phase									
THC033A4	BAYHTRR406	6.0	1	N/A	N/A	N/A	N/A	12.1	15
	BAYHTRR412	12.0	2	N/A	N/A	N/A	N/A	21.1	25
	BAYHTRR418	17.4	2	N/A	N/A	N/A	N/A	29.3	30
TSC036A4	BAYHTRR406	6.0	1	10.4	15	11.9	15	12.1	15
	BAYHTRR412	12.0	2	19.4	20	20.9	25	21.1	25
	BAYHTRR418	17.4	2	27.5	30	29.0	30	29.3	30
THC036A4	BAYHTRR406	6.0	1	10.4	15	11.9	15	12.1	15
	BAYHTRR412	12.0	2	19.4	20	20.9	25	21.1	25
	BAYHTRR418	17.4	2	27.5	30	29.0	30	29.3	30
THC043A4	BAYHTRR406	6.0	1	N/A	N/A	N/A	N/A	12.1	15
	BAYHTRR412	12.0	2	N/A	N/A	N/A	N/A	21.1	25
	BAYHTRR418	17.4	2	N/A	N/A	N/A	N/A	29.3	30
TSC048A4	BAYHTRR406	6.0	1	12.8	20	14.4	20	13.6	20
	BAYHTRR412	12.0	2	20.1	25	22.1	25	21.1	25
	BAYHTRR418	17.4	2	28.3	30	30.3	35	29.3	30
THC048A4	BAYHTRR406	6.0	1	11.1	15	13.1	15	12.1	15
	BAYHTRR412	12.0	2	20.1	25	22.1	25	21.1	25
	BAYHTRR418	17.4	2	28.3	30	30.3	35	29.3	30
TSC060A4	BAYHTRR406	6.0	1	16.0	25	16.3	25	15.6	25
	BAYHTRR412	12.0	2	21.6	25	22.0	25	21.1	25
	BAYHTRR418	17.4	2	29.8	30	30.1	35	29.3	30
	BAYHTRR423	23.0	2	38.3	40	38.6	40	37.8	40
THC060A4	BAYHTRR406	6.0	1	14.7	20	15.0	20	14.3	20
	BAYHTRR412	12.0	2	21.6	25	22.0	25	21.1	25
	BAYHTRR418	17.4	2	29.8	30	30.1	35	29.3	30
	BAYHTRR423	23.0	2	38.3	40	38.6	40	37.8	40
THC063A4	BAYHTRR406	6.0	1	N/A	N/A	N/A	N/A	14.3	20
	BAYHTRR412	12.0	2	N/A	N/A	N/A	N/A	21.1	25
	BAYHTRR418	17.4	2	N/A	N/A	N/A	N/A	29.3	30
	BAYHTRR423	23.0	2	N/A	N/A	N/A	N/A	37.8	40
575 Volts Three Phase									
THC033AW	BAYHTRRW06	6.0	1	N/A	N/A	N/A	N/A	9.3	15
	BAYHTRRW12	12.0	2	N/A	N/A	N/A	N/A	16.6	20
	BAYHTRRW18	17.4	2	N/A	N/A	N/A	N/A	23.1	25
TSC036AW	BAYHTRRW06	6.0	1	8.6	15	9.3	15	9.3	15
	BAYHTRRW12	12.0	2	15.8	20	16.6	20	16.6	20
	BAYHTRRW18	17.4	2	22.3	25	23.1	25	23.1	25

Installation

Table 4. Cooling only units with electric heater - single power source (continued)

Unit Model No.	Heater Model No.	Heater KW Rating ^(a)	Control Stages	Standard Indoor Motor		Oversize Indoor Motor		Belt Drive Indoor Motor	
				MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker
THC036AW	BAYHTRRW06	6.0	1	8.6	15	9.3	15	9.3	15
	BAYHTRRW12	12.0	2	15.8	20	16.6	20	16.6	20
	BAYHTRRW18	17.4	2	22.3	25	23.1	25	23.1	25
THC043AW	BAYHTRRW06	6.0	1	N/A	N/A	N/A	N/A	9.3	15
	BAYHTRRW12	12.0	2	N/A	N/A	N/A	N/A	16.6	20
	BAYHTRRW18	17.4	2	N/A	N/A	N/A	N/A	23.1	25
TSC048AW	BAYHTRRW06	6.0	1	9.8	15	10.6	15	10.0	15
	BAYHTRRW12	12.0	2	16.3	20	17.3	20	16.6	20
	BAYHTRRW18	17.4	2	22.8	25	23.8	25	23.1	25
THC048AW	BAYHTRRW06	6.0	1	9.1	15	10.1	15	9.3	15
	BAYHTRRW12	12.0	2	16.3	20	17.3	20	16.6	20
	BAYHTRRW18	17.4	2	22.8	25	23.8	25	23.1	25
TSC060AW	BAYHTRRW06	6.0	1	12.2	15	12.8	20	11.8	15
	BAYHTRRW12	12.0	2	17.1	20	17.8	20	16.6	20
	BAYHTRRW18	17.4	2	23.6	25	24.3	25	23.1	25
	BAYHTRRW23	23.0	2	30.3	35	31.0	35	29.8	30
THC060AW	BAYHTRRW06	6.0	1	11.8	15	12.4	15	11.4	15
	BAYHTRRW12	12.0	2	17.1	20	17.8	20	16.6	20
	BAYHTRRW18	17.4	2	23.6	25	24.3	25	23.1	25
	BAYHTRRW23	23.0	2	30.3	35	31.0	35	29.8	30
THC063AW	BAYHTRRW06	6.0	1	N/A	N/A	N/A	N/A	11.4	15
	BAYHTRRW12	12.0	2	N/A	N/A	N/A	N/A	16.6	20
	BAYHTRRW18	17.4	2	N/A	N/A	N/A	N/A	23.1	25
	BAYHTRRW23	23.0	2	N/A	N/A	N/A	N/A	29.8	30

(a) Heater kw ratings are at 208/240 for 208/230V unit

Table 5. Heat pump units

Unit Model No.	Heater Model No.	Heater KW Rating ^(a)	Control Stages	Standard Indoor Motor		Oversize Indoor Motor		Belt Drive Indoor Motor	
				MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker
208/230 Volts Single Phase									
WSC036A1	BAYHTRR105	3.8/5.0	1	48.8/52.2	60/60	51.2/54.6	60/60	NA / NA	NA / NA
	BAYHTRR110	7.5 / 10.0	2	71.3 / 78.3	80 / 80	73.7 / 80.7	80 / 90	NA / NA	NA / NA
	BAYHTRR114	10.4 / 13.8	2	88.4 / 98.1	90 / 100	90.8 / 100.5	100 / 110	NA / NA	NA / NA
WSC048A1	BAYHTRR105	3.8 / 5.0	1	62.4 / 65.7	80 / 80	64.5 / 67.8	80 / 80	NA / NA	NA / NA
	BAYHTRR110	7.5 / 10.0	2	84.9 / 91.9	100 / 100	87.0 / 94.0	100 / 110	NA / NA	NA / NA
	BAYHTRR114	10.4 / 13.8	2	102.0 / 111.6	110 / 125	104.1 / 113.7	110 / 125	NA / NA	NA / NA
	BAYHTRR118	13.2 / 17.6	2	119.2 / 131.4	125 / 150	121.3 / 133.5	125 / 150	NA / NA	NA / NA
	BAYHTRR105	3.8 / 5.0	1	71.3 / 74.7	90 / 100	73.0 / 76.4	100 / 100	NA / NA	NA / NA

Table 5. Heat pump units

Unit Model No.	Heater Model No.	Heater KW Rating ^(a)	Control Stages	Standard Indoor Motor			Oversize Indoor Motor		Belt Drive Indoor Motor	
				MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker	MCA	Max Fuse Size Or Max Circuit Breaker	
WSC060A1	BAYHTRR110	7.5 / 10.0	2	93.8 / 100.8	110 / 110	95.5 / 102.5	110 / 110	NA / NA	NA / NA	
	BAYHTRR114	10.4 / 13.8	2	111.0 / 120.6	125 / 125	112.7 / 122.3	125 / 125	NA / NA	NA / NA	
	BAYHTRR118	13.2 / 7.6	2	128.2 / 140.3	150 / 150	129.9 / 142.0	150 / 150	NA / NA	NA / NA	
208/230 Volts Three Phase										
WSC036A3	BAYHTRR306	4.5 / 6.0	1	34.7 / 37.1	40 / 45	37.1 / 39.5	45 / 45	37.4 / 39.8	45 / 45	
	BAYHTRR312	9.0 / 12.0	2	50.3 / 55.2	60 / 60	52.7 / 57.6	60/60	53.0 / 57.9	60 / 60	
	BAYHTRR318	13.1 / 17.4	2	64.4 / 71.4	70 / 80	66.8 / 73.8	70 / 80	67.1 / 74.1	70 / 80	
WSC048A3	BAYHTRR306	4.5 / 6.0	1	40.0 / 42.4	50 / 50	42.1 / 44.5	50 / 50	41.4 / 43.8	50 / 50	
	BAYHTRR312	9.0 / 12.0	2	55.6 / 60.5	60 / 70	57.7 / 62.6	60 / 70	57.0 / 61.9	60 / 70	
	BAYHTRR318	13.1 / 17.4	2	69.7 / 76.7	70 / 80	71.8 / 78.8	80 / 80	71.1 / 78.1	80 / 80	
WSC060A3	BAYHTRR306	4.5 / 6.0	1	48.2 / 50.6	60 / 60	49.9 / 52.3	60 / 60	47.0 / 49.4	60 / 60	
	BAYHTRR312	9.0 / 12.0	2	63.8 / 68.7	70 / 80	65.5 / 70.4	70 / 80	62.6 / 67.5	70 / 70	
	BAYHTRR318	13.1 / 17.4	2	78.0 / 85.0	80 / 90	79.7 / 86.7	80 / 90	76.8 / 83.8	80 / 90	
	BAYHTRR323	17.3 / 23.0	2	92.6 / 101.7	100 / 110	94.3 / 103.4	100 / 110	91.4 / 100.5	100 / 110	
460 Volts Three Phase										
WSC036A4	BAYHTRR406	6.0	1	18.9	20	32.6		50	50	
	BAYHTRR412	12.0	2	27.9	30	32.6		50	50	
	BAYHTRR418	17.4	2	36.0	40	32.6		50	50	
WSC048A4	BAYHTRR406	6.0	1	21.1	25	32.6		50	50	
	BAYHTRR412	12.0	2	30.1	35	32.6		50	50	
	BAYHTRR418	17.4	2	38.3	40	32.6		50	50	
WSC060A4	BAYHTRR406	6.0	1	25.6	30	32.6		50	50	
	BAYHTRR412	12.0	2	34.6	40	32.6		50	50	
	BAYHTRR418	17.4	2	42.7	45	32.6		50	50	
	BAYHTRR423	23.0	2	51.2	60	32.6		50	50	
575 Volts Three Phase										
WSC036AW	BAYHTRRW06	6.0	1	15.6	20	16.2	20	16.2	20	
	BAYHTRRW12	12.0	2	22.7	25	23.3	25	23.3	25	
	BAYHTRRW18	17.4	2	29.2	30	29.8	30	29.8	30	
WSC048AW	BAYHTRRW06	6.0	1	17.4	20	18.2	20	17.6	20	
	BAYHTRRW12	12.0	2	24.5	25	25.3	25	24.7	25	
	BAYHTRRW18	17.4	2	31.0	35	31.8	35	31.2	35	
WSC060AW	BAYHTRRW06	6.0	1	20.3	25	20.9	25	19.9	25	
	BAYHTRRW12	12.0	2	27.5	30	28.1	30	27.1	30	
	BAYHTRRW18	17.4	2	34.0	35	34.6	35	33.6	35	
	BAYHTRRW23	23.0	2	40.7	45	41.3	45	40.3	45	

(a) Heater kw ratings are at 208/240 for 208/230V unit.

Table 6. Air temperature rise across electric heaters (degrees C and F)

Celcius				5 Ton 3400 M3 / H	Farenheit				5 Ton 2000CFM
kW		Voltage	Stages	TSCO60AD	kW		Stages	TSCO60AD	
380V/415V					380V/415V	Voltage			
07.5 / 09.0	380-415/50/3	2	6.6 / 7.9	07.5 / 09.0	380-415/50/3	2	11.9 / 14.2		
10.9 / 13.0	380-415/50/3	2	9.6 / 11.4	10.9 / 13.0	380-415/50/3	2	17.2 / 20.5		
11.3 / 13.5	380-415/50/3	1	—	11.3 / 13.5	380-415/50/3	1	—		
14.4 / 17.2	380-415/50/3	2	12.6 / 15.1	14.4 / 17.2	380-415/50/3	2	22.8 / 27.2		
16.9 / 20.2	380-415/50/3	2	—	16.9 / 20.2	380-415/50/3	2	—		
22.6 / 26.9	380-415/50/3	2	—	22.6 / 26.9	380-415/50/3	2	—		
33.8 / 40.4	380-415/50/3	2	—	33.8 / 40.4	380-415/50/3	2	—		

For minimum design airflow, see performance table for each unit. To calculate temp rise at differrent airflow, use following formula:
 Temp. Rise (C°) across Elect Htr = (kW x 2985)/(M3/H)
 Temp. Rise (F°) across Elect Htr = (kW x 3414)/(1.08 x CFM)

Table 7. Air temperature rise across electric heaters (degrees C and F)

Celcius				5 Ton 3400 M3/H	Farenheit				5 Ton 2000CFM
kW 200V	Voltage	Stages	WSCO60AD, AT	kW 200V	Voltage	Stages	WSCO60AD, AT		
7.5				200/50/3				2	6.6
8.3	200/50/3	2	7.3	8.3	200/50/3	2	13.1		
9.0	200/50/3	2	7.9	9.0	200/50/3	2	14.2		
10.9	200/50/3	2	9.6	10.9	200/50/3	2	17.2		
11.3	200/50/3	1	—	11.3	200/50/3	1	—		
12.1	200/50/3	2	10.6	12.1	200/50/3	2	19.1		
12.5	200/50/3	1	—	12.5	200/50/3	1	—		
13.0	200/50/3	2	11.4	13.0	200/50/3	2	20.5		
13.5	200/50/3	1	—	13.5	200/50/3	1	—		
14.4	200/50/3	2	12.6	14.4	200/50/3	2	22.8		
16.0	200/50/3	2	14.0	16.0	200/50/3	2	25.3		
16.9	200/50/3	2	—	16.9	200/50/3	2	—		
17.2	200/50/3	2	15.1	17.2	200/50/3	2	27.2		

For minimum design airflow, see performance table for each unit. To calculate temp rise at differrent airflow, use following formula:
 Temp. Rise (C°) across Elect Htr = (kW x 2985)/(M3/H)
 Temp. Rise (F°) across Elect Htr = (kW x 3414)/(1.08 x CFM)

Table 8. Cooling unit with electric heater - single power source

Unit Model No.	Heater ^(a)				Standard Indoor Fan Motor		Oversized Indoor Fan Motor	
	Heater Model No.	kW Rating	MBH	Control Stages	Minimum Circuit Ampacity	Maximum Fuse Size Or Maximum Circuit Breaker ^(b)	Minimum Circuit Ampacity	Maximum Fuse Size Or Maximum Circuit Breaker ^(b)
380-415/50/3	BAYHTRR412	7.5 / 9.0	26 / 31	2	19.8 / 21.0	25 / 25	21.0 / 22.3	25 / 25
TSC060AD	BAYHTRR418	10.9 / 13.0	38 / 45	2	26.1 / 28.0	30 / 30	27.4 / 29.3	30 / 30
	BAYHTRR423	14.4 / 17.2	50 / 59	2	32.8 / 35.3	35 / 40	34.0 / 36.5	35 / 40

(a) kW and MBH shown for 380V / 415V
 (b) All units to be installed under local codes

Table 9. Heat pump unit with electric heat - single power source

Unit Model No.	Heater ^(a)				Standard Indoor Fan Motor		Oversized Indoor Fan Motor	
	Heater Model No.	kW Rating	MBH	Control Stages	Minimum Circuit Ampacity	Maximum Fuse Size Or Maximum Circuit Breaker ^(b)	Minimum Circuit Ampacity	Maximum Fuse Size Or Maximum Circuit Breaker ^(b)
380-415/50/3	BAYHTRR412	7.5 / 9.0	26 / 31	2	33.3 / 34.6	40 / 40	34.3 / 35.6	40 / 40
WSC060AD	BAYHTRR418	10.9 / 13.0	38 / 45	2	39.7 / 41.6	45 / 45	40.7 / 42.6	45 / 45
	BAYHTRR423	14.4 / 17.2	50 / 59	2	46.3 / 48.8	50 / 50	47.3 / 49.8	50 / 50

(a) kW and MBH shown for 380V/415V
 (b) All units to be installed under local codes

Table 10. Heat pump unit with electric heat - single power source

Unit Model No.	Heater ^(a)				Standard Indoor Fan Motor		Oversized Indoor Fan Motor	
	Heater Model No.	kW Rating	MBH	Control Stages	Minimum Circuit Ampacity	Maximum Fuse Size Or Maximum Circuit Breaker ^(b)	Minimum Circuit Ampacity	Maximum Fuse Size Or Maximum Circuit Breaker ^(b)
200/50/3	BAYHTRR312	8.3	28	2	67.2	80	69.9	80
WSC060AT	BAYHTRR318	12.1	41	2	80.9	90	83.6	90
	BAYHTRR323	16.0	55	2	95.0	100	97.7	100

(a) kW and MBH shown for 200V
 (b) All units to be installed under local codes

