

IMPORTANT

READ AND UNDERSTAND THIS MANUAL BEFORE ASSEM-BLING, STARTING OR SERVICING THE HEATER. IMPROPER USE OF HEATER CAN CAUSE SERIOUS INJURY. KEEP THIS MANUAL FOR FUTURE REFERENCE.

FOR PROFESSIONAL USE ONLY

JAN 2025 REVISION



IMPORTANT INSTRUCTIONS READ ALL INSTRUCTIONS BEFORE USING THIS HEATER

1. This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Use handle when moving this heater. Keep combustible materials at least 6 feet (2 meter) from the front of the heater and keep them away from sides and rear

2. Extreme caution is necessary when the heater is used near children or invalids and whenever the heater is left unattended

3. Always unplug the heater when not in use

4. Do not operate any heater with a damaged cord or plug or after the heater malfunctions, has been dropped or damaged in any manner. Return heater to authorized service facility for examination, electrical or mechanical adjustment or repair

5. Do not use outdoors

6. This heater is not intended for use in bathrooms, laundry areas and similar indoor locations. Never locate the heater where it may fall into a bathtub or other liquid container

7. Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or the like. Arrange cord away from traffic area and where it will not be tripped over

8. To disconnect heater, turn controls to off, then remove plug from outlet

9. Connect to properly grounded outlets only

10. Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire, or damage the heater

11. To prevent a possible fire, do not block air intakes or exhaust in any manner. Do not use on soft surfaces, where openings may become blocked

12. A heater has hot and arcing or sparking parts inside. Do not use in areas where gasoline, paint or flammable liquids are used or stored

13. Do not point to flammable materials

14. Use heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock or injury to persons

15. Always plug heaters directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip)

16. Hyperthermia can result in death. Symptoms of hyperthermia include high body temperature, headache, nausea, vomiting, tiredness, dizziness, fainting, and rapid pulse. If you begin to experience symptoms related to hyperthermia, turn off the heater and seek medical attention.

17. To avoid excessive room temperatures which can cause hyperthermia: DO NOT leave product running unattended in a confined space around infants, or individuals with reduced physical, sensory, or mental capabilities.

18. SAVE THESE INSTRUCTIONS



GENERAL INFORMATION FOR USER

Patron electric heaters are designed for professional use.

The heat is generated in sealed heating elements inside the inner mantle of the heater. Heated air is then distributed by an electric motor driven fan blowing air through the heater.

Although effectively cooled by the fan, the heating elements have high surface temperatures. That is why combustible materials must be kept at a safe distance from the heater and care must be taken that no combustible particles enter the heater with the air sucked in by the fan.

Keep the heater clean of dust at any time. Dust may cause fire when heated.

Make sure that the fan blades may rotate unobstructed at all times.

Do not block air intakes or exhaust in any manner.

LIMITED WARRANTY

PATRON heater products are professional construction heaters. They are warranted for twenty-four (24) months from original date of purchase. The warranty does not cover products modified outside our factory, damage or failure caused by acts of God, abuse, misuse, use on other than rated voltage, abnormal usage, faulty or improper installation, failure to provide recommended maintenance or any repairs other than those provided by an authorized PATRON service.

THERE ARE NO OBLIGATIONS OR LIABILITIES ON THE PART OF PATRON PRODUCTS INC. FOR CON-SEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE PRODUCT OR OTHER INDIRECT DAMAGES WITH RESPECT TO LOSS OF PROPERTY, REVENUES, OR PROFIT, OR COST OF REMOVAL, INSTALLATION OR REINSTALLATION.

THIS WARRANTY CONSTITUTES THE EXCLUSIVE REMEDY OF ANY PURCHASER OF EQUIPMENT SOLD BY THE MANUFACTURER AND ITS DEALERS AND DISTRIBUTORS AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

During the warranty period, Patron Products will, at its sole option, repair or replace any defective parts or products returned, freight prepaid, to Patron Products or such other location as Patron Products may designate.

Returned products must be packaged carefully, and Patron Products shall not be responsible for damage in transit. When returning parts, the owner must provide the model number of the product and the nature of difficulty being experienced. This warranty does not oblige Patron Products to bear the cost of labour in replacing any assembly, unit or component or part thereof, nor does the company assume any liability for secondary charges, expenses of removal or installing, freight or damages. There will be charges rendered for product repair after our warranty period has expired. Proof of purchase, including date, must accompany request for inwarranty service.



OPERATION

REVIEW AND UNDERSTAND ALL WARNINGS IN THIS MANUAL. THEY ARE ESSENTIAL FOR SAFE USE OF THE HEATER.

FOLLOW ALL LOCAL CODES

TO START HEATING:

1. Place the heater on a stable and level surface. Make sure that no explosive or combustible fumes or dust are present.

MINIMUM CLEARANCES FROM COMBUSTABLE MATERIALS				
OUTLET = 6 feet SIDES = 1 foot				
TOP = 2 feet	REAR = 2 feet			
FLOOR = COMBUSTABLE				

- Connect power cord of heater into 240 V / 60 Hz power source. THE POWER SOURCE MUST BE EQUIPPED WITH A CIRCUIT BREAKER! See paragraph "Technical specifications" in this manual for correct amperage rating. NOTE: Check your heater to make sure it is wired for either one or three phase use.
- 3. Set the room thermostat to a temperature above the ambient room temperature by turning the knob. Note! The heater will start heating only if the thermostat "calls for heat" meaning that it is set to higher than prevailing ambient temperature
- Turn the main switch into position 2 = "Output 13,000 W" for partial heating output or into position 3 = "Output 19,000 W" for full heating output. THE HEATER WILL NOW OPERATE AUTOMATICALLY, CON-TROLLED BY THE THERMOSTATS.
- 5. When no heating is needed, turn the main switch into position 1 = "Ventilation only" for air circulating purposes.

TO STOP HEATING

- 1. Turn the main switch into position "0" standby
- 2. Let the fan cooldown heater for 2-3 minutes
- 3. Disconnect the power supply plug

NOTE!

THE HEATER IS EQUIPPED WITH AN OVERHEAT LIMIT SWITCH WHICH MAY CAUSE THE HEATER TO STOP. CHECK AND REMOVE THE CAUSE FOR OVERHEATING BEFORE RESTARTING.



MAINTENANCE

WARNING!

NEVER SERVICE THE HEATER WHILE IT IS PLUGGED IN, RUNNING OR HOT. SEVERE BODILY INJURE OR ELECTRIC SHOCK MAY OCCUR.

ONLY QUALIFIED PERSONS ARE ALLOWED TO OPEN HEATER FOR SERVICE. NO USER-SERVICE-ABLE PARTS INSIDE.

- Keep heater clean. Use pressurized air to blow fan blades clean. Note! Use moderate pressure to avoid damage to fan blades
- Inspect heater before and after each use
- · The fan motor is sealed and has permanently lubricated bearings

STORAGE

When not in use, the heater must be disconnected from power source, cleaned of dust and stored in a dry place.

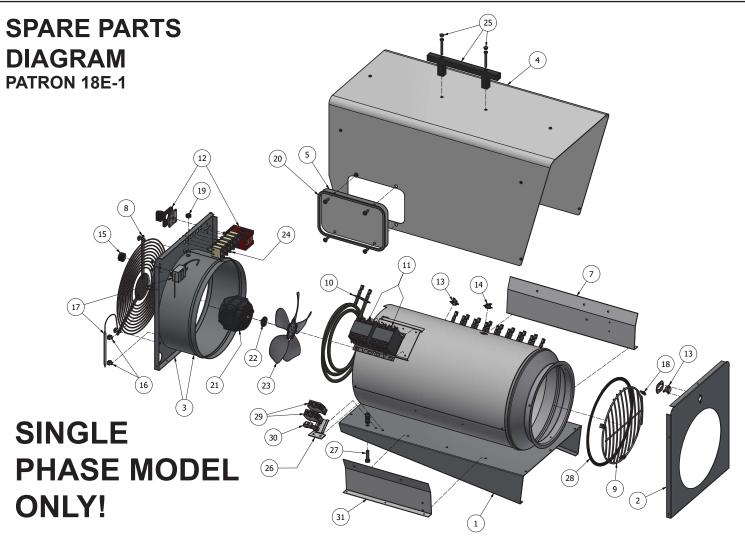
The power supply cord should be loosely wound around the handle of the heater.

HEAT OUTPUT (2 STAGE SELECTOR)	BTU/Hr	Stage 1: 45,000 (13kW) Stage 2: 65,000 (19kW)
AIRFLOW	CFM	590 or 1000
ELECTRIC CONNECTION	V ac / Hz	240 / 60 single phase or 3 phase
AMPERAGE DRAW (3 Phase)	А	Full: 47 Partial: 31
AMPERAGE DRAW (1 Phase)	А	Full: 81 Partial: 54
AMBIENT THERMOSTAT	temp. range	32 - 100 °F (0 - 40 °C)
LENGTH	inches	32.0
WIDTH	inches	14.5
HEIGHT	inches	20.5
WEIGHT	lbs	62.0

TECHNICAL SPECIFICATIONS

18E PRODUCT MANUAL



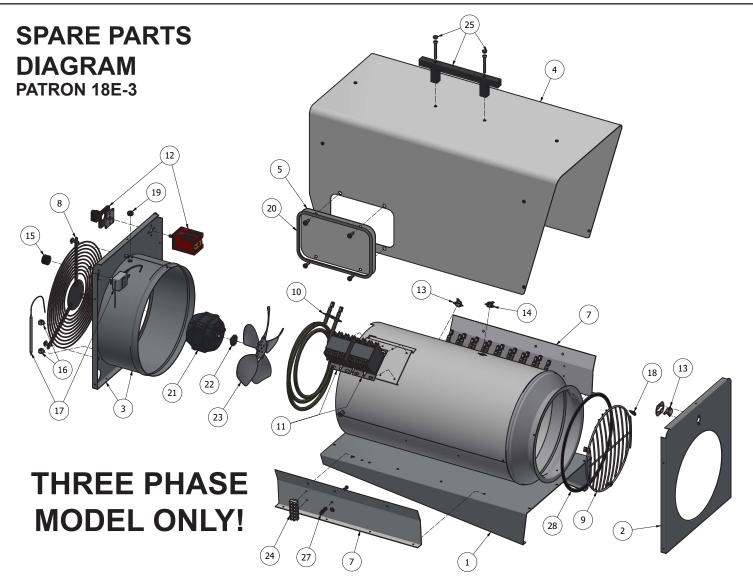


1	402217	Bottom Plate
2	402218	Front Panel
3	402219	Rear Panel
4	402216	Hood
5	401605	Connection Hatch
6	402220	Inner Mantle (incl. Air Cone)
7	402221	Bracket
8	83920	Rear Grill
9	83200	Front Grill
10	42320	Heating Element (9/Heater)
11	22671	Contactor (2/Heater)
12	26605	Main Switch Asembly
13	21200	Overheat Limit Switch
14	21100	Cooldown Thermostat
15	20577	Thermostat Knob
16	37910	Plastic Bracket
17	20220	Ambient Thermostat

18	82760	Plate Nut				
19	36809	Guard Ring				
20	401604	Gasket for Connection Hatch				
21	14201	Fan Motor				
22	17907	Fan Hub				
23	16400	Fan Blade				
24	38500	Circuit Protector				
25	80100	Handle				
26	402214	Bracket for Terminal Block				
27	402211	Grounding Lug				
28	401604	Gasket				
29	36615	Terminal Block (18E-1)				
30	36630	Locking Clamp				
31	402222	Bracket for Inner Mantle				
***	402215	Complete Decal Kit				

18E PRODUCT MANUAL

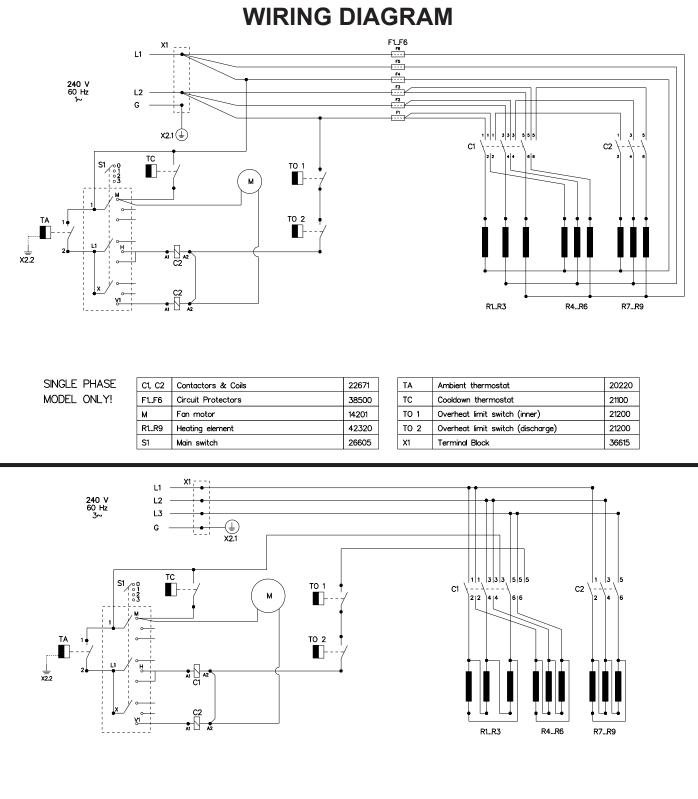




1	401617	Bottom Plate			
2	401618	Front Panel			
3	401619	Rear Panel			
4	401616	Hood			
5	401605	Connection Hatch			
6	401620	Inner Mantle (incl. Air Cone)			
7	401621	Bracket			
8	83920	Rear Grill			
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19	36809	Guard Ring
20	401604	Gasket for Connection Hatch
21	14201	Fan Motor
22	17907	Fan Hub
23	16400	Fan Blade
24	36704	Terminal Block (18E-3)
25	80100	Handle
27	401613	Grounding Lug
28	401604	Gasket
***	402215	Complete Decal Kit

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THREE PHASE	C1, C2	Contactors & Coils	22671	[ТА	Ambient thermostat	20220
MODEL ONLY!	м	Fan motor	14201		TC	Cooldown thermostat	21100
	R1R9	Heating element	42320	[TO 1	Overheat limit switch (inner)	21200
	S1	Main switch	26605	[TO 2	Overheat limit switch (discharge)	21200
				[X1	Terminal Block	36704

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