

342 N. Co. Rd. 400 East Valparaiso, IN 46383 219-464-8818 • Fax 219-462-7985 www.heatwagon.com

Installation and Maintenance Manual

Please retain this manual for future reference.

P1800

Construction

Heater



For your safety: Do not use this heater in a space where gasoline or other liquids having flammable vapors are stored.

IMPORTANT INFORMATION! READ FIRST

The heater is designed for use as a construction heater under ANSI Z83.7a-1993. The primary purpose of construction heaters is to provide temporary heating of buildings under construction, alteration, or repair and to provide emergency heat. Properly used, the heater provides safe, economical heating. Products of combustion are vented into the area being heated.

The heater **IS NOT** designed as an Unvented Gas Fired Room Heater under ANSI-Z21.11.2 and **SHOULD NOT** be used in the home.

ANSI A119.2(NFPA 501C)-1987 Recreational Vehicle Standard prohibits the installation or storage of LP-gas containers even temporarily inside any recreational vehicle. The standard also prohibits the use of Unvented Heaters in such vehicles.

NFPA-58 1989 STANDARD FOR THE STORAGE AND HANDLING OF LIQUEFIED PETROLEUM GASES

Use of the heater must be in accordance with this Standard and in compliance with all governing state and local codes. Storage and handling of propane gas and propane cylinders must be in accordance with NFPA 58 and all local governing codes.

We cannot anticipate every use which may be made for our heaters. CHECK WITH YOUR LOCAL FIRE SAFETY AUTHORITY IF YOU HAVE QUESTIONS ABOUT LOCAL REGULATIONS.

Other standards govern the use of fuel gases and heat producing products in specific applications. Your local authority can advise you about these.

FOR YOUR SAFETY

DO NOT USE THIS HEATER IN A SPACE WHERE GASOLINE OR OTHER LIQUIDS HAVING FLAMMABLE VAPORS ARE STORED OR USED.

CONSTRUCTION HEATER GENERAL HAZARD WARNING:

Failure to comply with the precautions and instructions provided with this heater, can result in death, serious bodily injury and property loss or damage from hazards of fire, explosion, burn, asphyxiation, carbon monoxide poisoning, and/or electrical shock.

Only persons who can understand and follow the instructions should use or service this heater.

If you need assistance or heater information such as an instruction manual, labels, etc. Contact your local Heat Wagon dealer or the manufacturer.

W A R N I N G

Fire, burn, inhalation, and explosion hazard. Keep solid combustibles, such as building materials, paper or cardboard, a safe distance away from the heater as recommended by the instructions. Never use the heater in spaces which do or may contain volatile or airborne combustibles, or products such as gasoline, solvents, paint thinner, dust particles or unknown chemicals.

Not for home or recreational vehicle use!

Installation and Maintenance Manual Model P1800 Construction Heater

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WARRANTY

All new Heat Wagon and Sure Flame heaters and fans are guaranteed against defective materials and workmanship for one (1) year from invoice date.

Warranty repairs may be made only by an authorized, trained and certified Heat Wagon dealer. Warranty repairs by other entities will not be considered. Warranty claims must include model number and serial number.

LIMITATIONS

Warrant claims for service parts (wear parts) such as spark plugs, igniters, flame rods will not be allowed. Diagnostic parts such as voltage meters and pressure gauges are not warrantable.

Evidence of improper fuel usage, fuel pressures outside of manufacturer's specification, poor fuel quality, and improper electric power, misapplication or evidence of abuse may be cause for rejection of warranty claims.

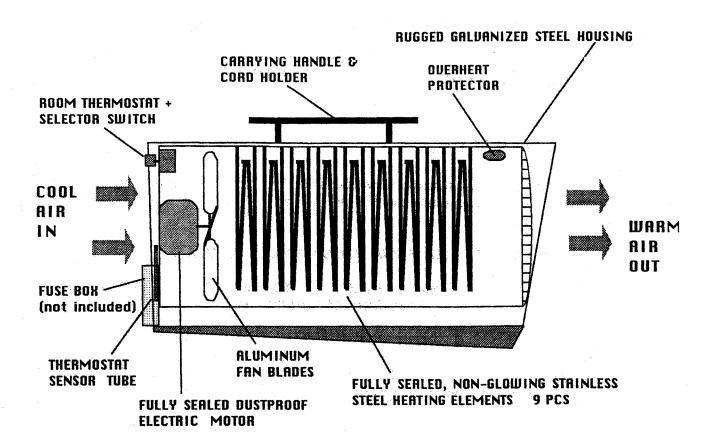
Travel time, mileage and shipping charges will not be allowed. Minor adjustments of heaters are dealers' responsibility. Defective parts must be tagged and held for possible return to the factory for 60 days from date of repair. The factory will provide a return goods authorization, (RGA) for defective parts to be returned.

No warranty will be allowed for parts not purchased from Heat Wagon.



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Principal of Operation



SPECIFICATIONS

Model No. P1800

65,000 or 41,000 BTU/Hr

590 CFM, 1,000 Cu. m/hr

240V 60Hz Single Phase

Heat Output (Two stage selector)

Watts 18,000 or 12,000

Air Flow

Electrical Rating:

Single Phase Model

Electrical Rating:

Three Phase Model

8

240V 60Hz Three Phase

Amp draw 25 Amps or 17 Amps/Phase

Amp draw 75 Amps or 50 Amps

Ambient Thermostat Temp.Range 32 to 100°F, 0-40°C

Dimensions 30"L x 14"W x 20"H

Weight 62 lbs



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. See that the heater is not exposed to water spray, rain, or dripping water.

Minimum clearances from combustible materials:

Outlet 6 feet Sides 1 feet Top 2 feet Rear 2 feet Floor: combustible

- 2. Connect power cord of heater into 240 volt 60 herz three phase power source. The power outlet has to be equipped with a circuit breaker!

 See paragraph "Technical Specifications" in this manual for correct Amp rating. Check your heater to make sure whether it is wired for one or three phase use.
- 3. Set the remote thermostat to a temperature above the ambient room temperature by turning the knob. NOTE: The heater will start only if the thermostat "calls for heat" meaning that it is set to higher than prevailing ambient temperature.
- 4. Turn the main switch into position. 1. for ventilation, 2. for partial output 1 2 kw or 3. for full heat output 18 km.

The heater will now operate automatically, controlled by the thermostat.

To stop heating

1. Turn the main switch to 0=off

Allow fan to run until it stops automatically - Do not disconnect heater from power source!

2. Unplug the power supply cable after the fan has stopped down cooling the heater.

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 re-starting.



STORAGE

Store heater in a dry, clean and safe place out of reach of children and unqualified persons.

MAINTENANCE

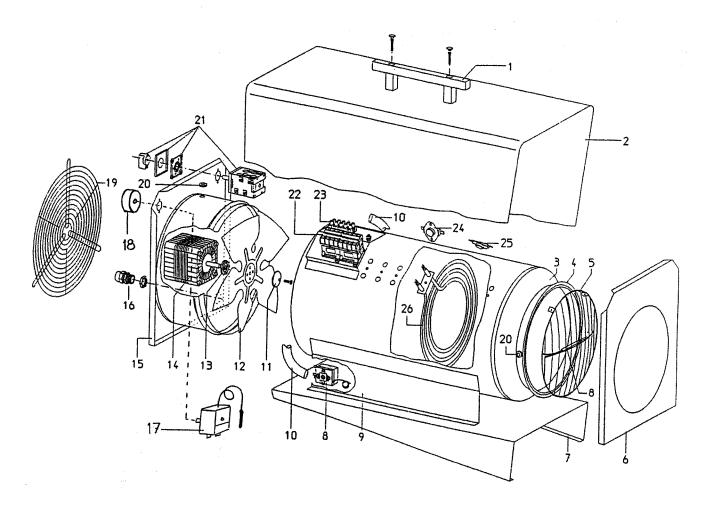
WARNING

Never service the heater while it is plugged in, running or hot. Severe bodily injury or electric shock may occur.

Only qualified persons are allowed to open heater for service.

- 1. Keep heater clean. Use pressurized air to blow fan blades clean. NOTE: Use moderate pressure to avoid damage to fan blades.
- 2. Inspect heater before and after each use.
- 3. The bearings of the fan motor are permanently lubricated and sealed. No additional lubrication is needed.





Item	Part No.	Description	Item	Part No.	Description
1	HWP 180001	HANDLE	22	HWP 180022	CONTRACTOR
2	HWP 180002	HOOD	23	HWP 180023	TERMINAL BLOCK
3	HWP 180003	AIR CONE	23A	HWP 180023A	TERMINAL BLOCK PACK
4	HWP 180004	GASKET	24	HWP 180024	OVERHEAT LIMIT SWITCH
5	HWP 180005	FRONT GRILL	25	HWP 180025	UNIT COOLDOWN SWITCH
6	HWP 180006	FRONT PANEL	26	HWP 180026	HEATING ELEMENT
7	HWP 180007	BOTTOM PLATE			
8	HWP 180008	GUARD THERMOSTAT	See v	viring diagram fo	or electric parts
9	HWP 180009	BRACKET			
10	HWP 180010	WIRE CONDUIT	Parts	Not Shown	
11	HWP 180011	FAN HUB CAP & BOLT		HWP 180027	CIRCUIT BREAKERS
12	HWP 180012	FAN BLADE		HWP 180032	HOOD INCLUDES
13	HWP 180013	FAN HUB			CONNECTION HATCH P1800
14	HWP 180014	FAN MOTOR		HWP 180033	FAN HUB, PLASTIC FOR P1800
15	HWP 180015	REAR PANEL		HWP 180034	TERMINAL BLOCK P1800
16	HWP 180016	STRAIN RELIEVER		HWP 180035	CONNECTION HATCH P1800
17	HWP 180017	AMBIENT THERMOSTAT		HWP 36616	LOCKING CLAMP FOR X1
18	HWP 180018	THERMOSTAT KNOB		HWP 37910	PLASTIC BRACKET
19	HWP 180019	REAR GRILL		HWP 330	SPEC SHEETS
20	HWP 180020	WIRE BUSHING		HWP 375	OPERATORS MANUAL
21	HWP 180021	MAIN SWITCH ASSY.			



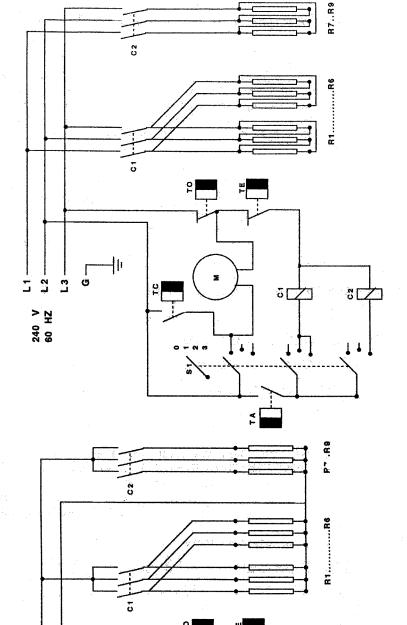
WIRING DIAGRAM HEAT WAGON P1800 SINGLE PHASE

5

L1-L2-

240 V 60 HZ

WIRING DIAGRAM HEAT WAGON P1800 THREE PHASE



5

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1 1

C1, C2 = CONTACTORS & COIL.S

M = FAN MOTOR
S1 = MAIN SWITCH
TA = AMBIENT THERMOSTAT
TO = OVERHEAT LIMIT SWITCH
TE = OUTLET AIR THERMOSTAT
TC = UNIT COOLDOWN THERMOSTAT
R1...R9 = HEATING ELEMENTS

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