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.

WARNING

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.
Principal of Operation

SPECIFICATIONS
Model No. P1800

Heat Output (Two stage selector) 65,000 or 41,000 BTU/Hr
Watts 18,000 or 12,000
Air Flow 590 CFM, 1,000 Cu. m/hr
Electrical Rating: 240V 60Hz Single Phase
Single Phase Model Amp draw 75 Amps or 50 Amps

Electrical Rating: 240V 60Hz Three Phase
Three Phase Model Amp draw 25 Amps or 17 Amps/Phase
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 foot  
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
--- | --- | ---
1 | HWP 180001 | HANDLE
2 | HWP 180002 | HOOD
3 | HWP 180003 | AIR CONE
4 | HWP 180004 | GASKET
5 | HWP 180005 | FRONT GRILL
6 | HWP 180006 | FRONT PANEL
7 | HWP 180007 | BOTTOM PLATE
8 | HWP 180008 | GUARD THERMOSTAT
9 | HWP 180009 | BRACKET
10 | HWP 180010 | WIRE CONDUIT
11 | HWP 180011 | FAN HUB CAP & BOLT
12 | HWP 180012 | FAN BLADE
13 | HWP 180013 | FAN HUB
14 | HWP 180014 | FAN MOTOR
15 | HWP 180015 | REAR PANEL
16 | HWP 180016 | STRAIN RELIEVER
17 | HWP 180017 | AMBIENT THERMOSTAT
18 | HWP 180018 | THERMOSTAT KNOB
19 | HWP 180019 | REAR GRILL
20 | HWP 180020 | WIRE BUSHING
21 | HWP 180021 | MAIN SWITCH ASSY.

22 | HWP 180022 | CONTRACTOR
23 | HWP 180023 | TERMINAL BLOCK
23A | HWP 180023A | TERMINAL BLOCK PACK
24 | HWP 180024 | OVERHEAT LIMIT SWITCH
25 | HWP 180025 | UNIT COOLDOWN SWITCH
26 | HWP 180026 | HEATING ELEMENT

See wiring diagram for electric parts

Parts Not Shown
- HWP 180027 CIRCUIT BREAKERS
- HWP 180032 HOOD INCLUDES
- HWP 180033 FAN HUB, PLASTIC FOR P1800
- HWP 180034 TERMINAL BLOCK P1800
- HWP 180035 CONNECTION HATCH P1800
- HWP 36616 LOCKING CLAMP FOR X1
- HWP 37910 PLASTIC BRACKET
- HWP 330 SPEC SHEETS
- HWP 375 OPERATORS MANUAL
C1, C2 = CONTACTORS & COILS
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