For your safety: Do not use this heater in 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!
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

Warranty 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.
SPECIFICATIONS
Model No. 2730C

- Designed to ANSI Z83.7-1990 Standard Construction Heater
- Gases: Natural or Propane
- Capacity: 2,000,000 Btu/h maximum
- Orifice Size: 31 DMS (x125)
- Blower: 12,500 CFM; 3 HP; 2 In W.C.S.P.
- Electrical Rating: 240V 13 amps, Single Phase
  - 240V 8.2 amps, Three Phase
  - 480V 3.5 amps, Three Phase
- Minimum Temperature Rating: Minus 40 degrees F

<table>
<thead>
<tr>
<th>Gas Supply</th>
<th>Inlet Pressure</th>
<th>Manifold Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max PSI</td>
<td>Min PSI</td>
</tr>
<tr>
<td>Propane</td>
<td>250 lbs.</td>
<td>5 psi</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>250 lbs.</td>
<td>5 psi</td>
</tr>
</tbody>
</table>

(Minimum inlet pressure as low as 9.5” W.C. can be achieved by removing the 1st stage HR1082 regulator)

Inlet Connection:
- Model 2730C (LP) 1/2” FNPT
- Model 2730C (Nat/Vap Propane) 3/4” FNPT

Maximum Duct Length, Straight:
- 200 Ft. @ 27” Diameter

Weight (approximate):
- 440 lbs.
The Heat Wagon Model 2730C is a direct fired gas heater intended to be used primarily for the temporary heating of building under construction, alteration, or repair. Since all the products of combustion are released into the area being heated, it is imperative that adequate ventilation is provided. The flow of supply air and combustion gases must not be obstructed in any way.

1. The heater is designed for indoor or outdoor installation in a horizontal position. Allow the following clearances from any combustible material or fuel containers.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Sides:</th>
<th>2 feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Outlet:</td>
<td>10 feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intake:</td>
<td>1.5 feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top:</td>
<td>4 feet</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Also make sure that no flammable vapors are present in the space where the heaters is being used.

2. The heater should be inspected before each use, and at least annually by a qualified service person.

3. The hose assembly must be inspected prior to each use of the heater. If it is evident that there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the heater being put into operation. The replacement hose assembly shall be that specified by the manufacturer. See parts list.

4. When connecting the heater to a natural gas or propane supply line ensure that the pressure at the heater inlet is within the specified range. Excessive pressure (over 250 psig) will damage the controls and void the warranty.

5. Connect the hose assembly to the heater gas inlet elbow. The elbow has a 3/4” Female NPT thread. The hose assembly is supplied with a swivel connector to avoid kinking or twisting the hose. Use a minimum inside diameter of 1/2” on LP or 3/4” on natural gas installations. Ensure that the hose assembly is protected from traffic, building materials, and contact with hot surfaces.

6. After installation, check hose assembly for gas leaks by applying a soap and water solution to each connection.

7. Connect the heater to an adequate electrical supply as specified on the rating plate. For protection against shock hazard the supply cord should be connected directly into a properly grounded fused disconnect.

8. Replacement parts are available from any Heat Wagon distributor or by calling 1-888-432-8924 for parts information.

---

**CLEANING**

Heater housing may be cleaned with soap and water.

- Place a plastic plug into the 1” pipe inlet on valve train
- Do not get the inside of the control box wet
- Allow heater to dry before connecting to power
- Pay attention to decals so they remain legible
PROPER SET UP

(NOTE: The 2730C must be specifically set up for the type of available fuel PRIOR to installation)

Model 2730C with built-in vaporizer. The heater will use 22 gallon of L.P. per hour. Use at least one 500 gal. Liquid withdrawal tank. This will insure 20 hours of continuous operation.

When running unit on Liquid Propane, the heater must be set up outside of the building, forcing the heat through a building opening.

- Hose size for Liquid Propane
  - up to 25' 3/8” ID
  - up to 50' 1/2” ID

Keep hose length as short as possible.

Hose sizing Vapor Propane

- Up to 100’, use 3/4” or larger hose

For Natural Gas applications you must know the available line pressure and pipe inside diameter. Call the factory for the proper size of orifice, gas manifold and hose.

Vapor Propane and Natural Gas Units can be used inside the building or outside.

- Wire heater directly into fused disconnect

  Power Supply line sizing:
  - 2730 - 240V - under 75’
    - 10 ga. 3 conductor
  - 75 ft to 100 ft
    - 8 ga. 3 conductor
  - 2730 - 480V - under 75’
    - 14 ga. 4 conductor
  - 75 ft to 150 ft
    - 12 ga. 4 conductor

Position heater properly before use.

Install heater in a horizontal position. Clearances required for combustibles and containers.

- Front Outlet: 12 ft
- Intake: 2 ft
- Sides: 2 ft
- Top: 4 ft

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

<table>
<thead>
<tr>
<th>TANK SIZE:</th>
<th>MAXIMUM WITHDRAWAL RATE (BTU/H):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>40”</td>
</tr>
<tr>
<td>500 gallon</td>
<td>480,000</td>
</tr>
<tr>
<td>1000 gallon</td>
<td>850,000</td>
</tr>
</tbody>
</table>

For your safety do not use this heater in a space where gasoline or other liquids, having flammable vapors, are stored or used.
It is best to provide outside clean air to heater inlet and adequate ventilation to heated areas. The hose assembly shall be protected from traffic, damage, building materials and contact with hot surfaces.

**Check all connections for leaks.**

Turn off fuel supply and burn out leftover fuel in hose when heater is not in use.

Heater can be ducted up to 200 ft of **straight** 27” duct. For every 90° bend cut the total length in half.

If the heater is ducted it may be necessary to adjust the air flow switch (located inside control box) by turning adjusting screw CCW until the light on the control box turns on.

If the heater is equipped with a Hi/Lo Fire Thermostat, place the thermostat inside the area to be heated, then set desired temperature. Heater will cycle from high to low fire.

**INSTALLATION USING A PROPANE SUPPLY TANK(S)**

1) The propane supply system must be set up for vapor withdrawal from the operating tank(s). Liquid propane can cause the heater to overfire and will damage valve train components, unless unit is supplied with a built in vaporizer.

2) The heater must be at least 6 ft. from any LP-Gas container, and not directed toward any LP-Gas container with in 20 ft.

3) **Minimum Tank Size**

<table>
<thead>
<tr>
<th>Outdoor Temperature</th>
<th>500 Gal.</th>
<th>2 X 1000 Gal.</th>
<th>2 x 1000 Gal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above +25°F</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>+25°F to +10°F</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Below +10°F</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4) The installation must conform with local codes, or in the absence of local codes, with the Standard for Storage and Handling of Liquefied Petroleum Gasses ANSI/NFPA 58.

5) Turn off the propane supply valve at the tank(s) when the heater is not in use.

6) When the heater is to be stored indoors the propane tank(s) must be disconnected from the heater and the tank(s) stored in accordance with Chapter 5 of the above National Standard.
COMMON INSTALLATION AND OPERATIONAL PROBLEMS

1) LOW VOLTAGE AT THE HEATER
   This is one of the most common problems and is usually the result of the supply cord having
too small a wire gauge for its length, or low voltage at the power source. Low voltage results in
the motor overheating, burnt relay contacts, or a relay that will not make contact. Check
voltmeter on heater before start-up.

2) SUPPLY LINE TOO SMALL
   Minimum Size: 1/2” for LP, 3/4” for Natural Gas.

3) INSUFFICIENT VAPORIZATION AT SUPPLY
   Normally caused by undersized supply tank.

4) IMPROPER GAS SUPPLY PRESSURE
   Usually a result of propane supply pressure being too high because of improper or lack of
regulation or too low of natural gas pressure at meter.

5) DIRTY GAS SUPPLY
   Dirty gas can cause strainers to plug or form a build-up in the burner orifice.

6) LACK OF PREVENTIVE MAINTENANCE
   Heaters must be cleaned as required, especially when used in a dirty environment.

7) IMPROPER SUPPLY OF FRESH AIR
   It is strongly recommended that the intake air of the heater be taken from outside the enclosed
area. This provides a slight pressurization and prevents any problems associated with
recirculation of products of combustion.

OPERATING INSTRUCTIONS

Model 2730C

ON
1. Turn on fuel supply
2. Turn on the manual shut off valve
3. Turn on the fan switches
4. Turn on the burner switch.

OFF
1. Turn off fuel supply
2. Turn off the burner switch
3. Turn off the fan switch
MODEL 2730C
SEQUENCE OF COMPONENT OPERATION

1) **POWER SUPPLY**
   240/480 Volt wire directly into the fused disconnect.

2) **FUSE DISCONNECT SWITCH**
   Turned on, it sends power to motor relay and to control voltage transformer.

3) **CONTROL VOLTAGE TRANSFORMER**
   Sends power to the 3 amp circuit breaker.

4) **3 AMP CIRCUIT BREAKER**
   Sends power to the fan switch.

5) **FAN SWITCH**
   Sends power to the motor relay holding coil.

6) **MOTOR RELAY**
   Closes, the fan motor starts, there is power at the burner switch.

7) **BURNER SWITCH**
   In the ON position it sends power to the air flow switch.

8) **AIR FLOW SWITCH**
   It was blown closed by the fan turning, sends power to the ignition control board.

9) **IGNITION CONTROL BOARD**
   Creates a spark at the igniter and sends power to the high limit switch.

10) **HIGH LIMIT SWITCH**
    Sends power to the gas solenoid valve.

11) **GAS SOLENOID VALVE**
    Opens, sending fuel to the burner (where there is spark).

12) **BURNER**
    It ignites.

13) **IGNITER SENSOR**
    Sends a flame sensing signal to the ignition control board. The unit is operating.
TROUBLE SHOOTING

NOTE: MUST CHECK COMPONENTS IN SEQUENCE LISTED

DIRECTIONS: Find the specific symptom. Refer to Sequence of component Operation Guide. Check the components listed with a voltmeter for proper operation as described. Replace any components not operating correctly.

Fan will not start when fan switch and thermostat are ON.
• Check sequences 1 through 5 (Page 9)
• Push reset button on Motor Overload Relay

Fan runs, no spark for ignition.
• Check sequences 6 through 9 (Page 9)
• Check continuity of igniter leads. Replace if shorted or broken.
• Check igniter for carbon buildup, gap spacing (1/8”), secure mounting
• Replace igniter if porcelain is cracked or if electrodes are rubbery

Have spark but no flame.
• Check sequences 9 through 11 (Page 9)
• Check for gas pressure on the manifold gauge, if gas is present, clean the burner port holes

Flame occurs but burner locks out after a few seconds.
• Check burner ground wire (Bad connections)
• Check sensor wire (Burned wire or bad connection)
• Check igniter/sensor (Replace if probe is rubbery)
• Clean port holes in burner around igniter/sensor
• Replace ignition control board

Flame occurs but trips pressure reset button after 30 to 40 seconds.
• Pressure regulator is set too high.
• Limit switch shuts burner off.
• Adjust pressure regulator to proper setting. (1”W.C. LP Max, 2.5” W.C. Nat. Max)
• Indicator light will glow when proper setting is obtained

Flame established, but too small.
A: Check for proper pressure at manifold gauge — (if yes)
  1. Clean port holes in burner

B: Not enough pressure at manifold gauge
  1. Check fuel supply
  2. Check liquid strainer — Filter at the “Y” fitting. (Liquid Propane model only) for restriction from dirt, oil, etc.
  3. Check high pressure regulator for similar restriction.
  4. Check gas solenoid valve for similar restrictions.
1) Check - Fused disconnect
   A) Continuity through fuses.

2) Check - All wiring for tight and correct connections

3) Check - Motor Relay
   A) If it buzzes, clean contacts or replace.
   B) Check for voltage drop through L1 & T1 contacts. If it’s more than 2 volt replace.

4) Check - Air Flow Switch
   A) Clean inlet and negative pressure tubes (Blow out with air)
   B) Adjust the switch, turn adjusting screw CCW until the light on the control panel stays on.

5) Clean the burner
   A) Clean port holes (gas outlet)
   B) Clean air mixture holes (Main burner section)

6) Clean and inspect solenoid valves
   A) Remove tops of solenoid valves, clean dirt and propane oil out
   B) Inspect diaphragm (Not hard or cracked)

7) Check/Replace the igniter/sensor
   A) Move sensor probe with fingers. If “rubbery” replace it.
   B) If probe solidly rigid, clean igniter and check gap @ 1/8”

8) Check for gas leaks
   A) Heater operating, check for leaks at all pipe joints with leak detector or soapy water. Remake joints where bubbles occur.

9) Tighten all bolts
   A) Motor mounts
   B) Fan blade
   C) Burner mount
   D) Pipe train (manifold) mounts
Model 2730 Series

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART#</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HWP HC1069B</td>
<td>LID/CONTROL BOX</td>
</tr>
<tr>
<td>2</td>
<td>HWP HC1069A</td>
<td>CONTROL BOX LID</td>
</tr>
<tr>
<td>3</td>
<td>N/S</td>
<td>COPPER TUB/AIR SWITCH</td>
</tr>
<tr>
<td>4</td>
<td>HWP HP1049</td>
<td>FAN BLADE</td>
</tr>
<tr>
<td>5</td>
<td>HWP HG1050A</td>
<td>FAN GUARD</td>
</tr>
<tr>
<td>6</td>
<td>HWP HM1056</td>
<td>MOTOR 1 HP</td>
</tr>
<tr>
<td></td>
<td>HWP HM1066</td>
<td>MOTOR 3 HP</td>
</tr>
<tr>
<td>7</td>
<td>N/S</td>
<td>HEAT SHIELD</td>
</tr>
<tr>
<td>8</td>
<td>HWP HB2730</td>
<td>BODY</td>
</tr>
<tr>
<td>9</td>
<td>HWP HB1021B</td>
<td>BURNER</td>
</tr>
<tr>
<td>10</td>
<td>HWP HW1065</td>
<td>WHEEL 12&quot; x 3&quot; x 5/8&quot; HUB</td>
</tr>
</tbody>
</table>

* HWP HD1055 FUSED DISCONNECT (SINGLE PHASE)
* HWP HD1057 FUSED DISCONNECT (THREE PHASE)

* Parts not shown on breakdown

2730C Burner Parts List

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>PART#</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HWP HG1050A</td>
<td>FAN GUARD SCREEN</td>
</tr>
<tr>
<td>2</td>
<td>HWP HP1049</td>
<td>PROPELLER WITH BUSHING (2730)</td>
</tr>
<tr>
<td>3</td>
<td>HM1056</td>
<td>3 HP 1 PHASE MOTOR</td>
</tr>
<tr>
<td>4</td>
<td>HWP HB1021B</td>
<td>GAS BURNER RING</td>
</tr>
<tr>
<td>5</td>
<td>HWP HV1040</td>
<td>VAPORIZER RING</td>
</tr>
<tr>
<td>6</td>
<td>HWP HC1004B</td>
<td>ELECTRODE KIT - FENWALL</td>
</tr>
<tr>
<td></td>
<td>HWP HM1066</td>
<td>3 PHASE MOTOR</td>
</tr>
</tbody>
</table>

* Parts not shown on breakdown

2730C Control Box

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART#</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HWP HS1044</td>
<td>MOTOR RELAY (30)</td>
</tr>
<tr>
<td>2</td>
<td>HWP HS1044</td>
<td>MOTOR RELAY (10)</td>
</tr>
<tr>
<td>3</td>
<td>HWP HS1043B</td>
<td>OVERLOAD RELAY</td>
</tr>
<tr>
<td>4</td>
<td>HWP HC1017</td>
<td>CONTROL TRANSFORMER</td>
</tr>
<tr>
<td>5</td>
<td>HWP HC1004B</td>
<td>IGNITER (FENWALL)</td>
</tr>
<tr>
<td>6</td>
<td>HWP HC1001C</td>
<td>D.S.I. CONTROL BOARD</td>
</tr>
<tr>
<td>7</td>
<td>HWP HC1010</td>
<td>AIR FLOW SWITCH</td>
</tr>
<tr>
<td>8</td>
<td>SFP 2453</td>
<td>HI–LO THERMOSTAT</td>
</tr>
<tr>
<td>9</td>
<td>HWP HC1072</td>
<td>TIME DELAY BREAKER</td>
</tr>
<tr>
<td>10</td>
<td>HWP HC1019B</td>
<td>3 AMP BREAKER</td>
</tr>
<tr>
<td>11</td>
<td>SFP 5989</td>
<td>VOLT METER (150 VOLT)</td>
</tr>
<tr>
<td>12</td>
<td>HWP HC1011</td>
<td>BURNER SWITCH</td>
</tr>
<tr>
<td>13</td>
<td>HWP HC1012</td>
<td>FAN SWITCH</td>
</tr>
<tr>
<td>14</td>
<td>SFP 2505</td>
<td>LIGHT</td>
</tr>
<tr>
<td></td>
<td>PPE 099125-03</td>
<td>NEUTRAL BLOCK</td>
</tr>
</tbody>
</table>

* Parts not shown on breakdown
2730C Liquid Pipe Train

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HWP HV1039</td>
<td>SAFETY RELIEF VALVE</td>
</tr>
<tr>
<td>2</td>
<td>HWP HV1042B</td>
<td>HOSE ASSEMBLY</td>
</tr>
<tr>
<td>3</td>
<td>HWP HV1040B</td>
<td>VAPORIZER RING</td>
</tr>
<tr>
<td>4</td>
<td>HWP HV1037</td>
<td>1/2&quot; SOLENOID VALVE L.P.</td>
</tr>
<tr>
<td>5</td>
<td>HWP HV1023</td>
<td>1/2&quot; MAN. SHUT-OFF VALVE</td>
</tr>
<tr>
<td>6</td>
<td>HWP HV1054</td>
<td>200LB. LIQUID PRESSURE GAUGE</td>
</tr>
<tr>
<td>7</td>
<td>HWP HV1029</td>
<td>1/2&quot; LIQUID STRAINER</td>
</tr>
<tr>
<td>8</td>
<td>HWP HV1029B</td>
<td>3/4&quot; LIQUID STRAINER</td>
</tr>
<tr>
<td>9</td>
<td>SFP 2538</td>
<td>3/4&quot; Y STRAINER</td>
</tr>
<tr>
<td>10</td>
<td>HWP HR1082</td>
<td>REGULATOR 1/8&quot;</td>
</tr>
<tr>
<td>11</td>
<td>SFP 3455</td>
<td>3/4&quot; SOLENOID VALVE</td>
</tr>
<tr>
<td>12</td>
<td>HWP HV1076</td>
<td>HI-LO SOLENOID VALVE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(DRILLED AT 3/16&quot;)</td>
</tr>
<tr>
<td>13</td>
<td>HWP HV20SV02B</td>
<td>REGULATOR</td>
</tr>
<tr>
<td>14</td>
<td>HWP HV1169</td>
<td>30&quot; W.C. VAPOR PRESSURE GAUGE</td>
</tr>
<tr>
<td>15</td>
<td>SFP 4509</td>
<td>GAS PRESSURE LIMIT SWITCH</td>
</tr>
</tbody>
</table>

2730C Natural Gas Pipe Train

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SFP 2538</td>
<td>BALL VALVE</td>
</tr>
<tr>
<td>2</td>
<td>HWP HR1082</td>
<td>REGULATOR</td>
</tr>
<tr>
<td>3</td>
<td>SFP 3455</td>
<td>3/4&quot; SOLENOID VALVE</td>
</tr>
<tr>
<td>4</td>
<td>HWP HV1076B</td>
<td>3/4&quot; SOLENOID VALVE HI LO (DRILLED AT 1/4&quot;)</td>
</tr>
<tr>
<td>5</td>
<td>HWP HV20SV02B</td>
<td>REGULATOR</td>
</tr>
<tr>
<td>6</td>
<td>SFP 4509</td>
<td>GAS PRESSURE LIMIT SWITCH</td>
</tr>
<tr>
<td>7</td>
<td>HWP HV1169</td>
<td>30 IN. W.C. VAPOR PRESSURE GAUGE</td>
</tr>
</tbody>
</table>
480 Volt 3 PH

NOTE:
ALL 16 GA. STR. EIW 600V,
UNLESS OTHERWISE SPECIFIED

240 Volt 3 PH

NOTE:
ALL 16 GA. STR. EIW 600V,
UNLESS OTHERWISE SPECIFIED
**PROPANE FACTS**

LBS Per Gallon 4.24
BTU Per Gallon 91,960
BTU Per LB 21,591
BTU Per Cu Ft 2,516

Cubic feet of air
Required to burn 1 Cu Ft propane 23.5

**NATURAL GAS FACTS**

BTU Per Cu Ft 1040
100,000 BTU = THERM
1 THERM = 100 Cubic Foot
Cu Ft of air required to burn 1 Cu Ft of Natural Gas 10.5

**MISCELLANEOUS**

BTU .25 CALORIES
CALORIES 4 BTU’S
PSI 27.7 INCHES
1 HP 2550 BTUH
OPEN FLAME APPROX. 3500°F
KW 3411 BTU’S

DISCHARGE TEMPERATURE
OF PORTABLE OIL HEATERS 225° ABOVE AMBIENT

DISCHARGE TEMPERATURE
OF PORTABLE GAS HEATERS 240° ABOVE AMBIENT

AMOUNT OF MOISTURE
ADDED TO AIR BY PORTABLE GAS HEATER 7 LBS OF WATER PER 100,000 BTUH