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Pioneer Heating Appliance® Submittal Sheet

Models: PHR-110 / PHR-130 / PHR-160 / PHR-199

JOB NAME:

LOCATION:

ARCH./ENGR.:

WHOLESALER:

MECH. CONTRACTOR:

MODEL NUMBER:

TYPE OF GAS: ***BTU/HR INPUT LOW – HIGH FIRE:***

NOTES:

High Efficiency Heat Exchanger

- **Copper Nickel primary with 800 H and Copper Nickel secondary tube construction**
- **Gasketless heat exchanger design**

Stainless Steel Buffer Tank with Built-in Dirt and Air Separation

- **Tank construction of 304 L stainless steel**
- **System return tube with screen for built-in dirt and air separation**
- **1 ¼" system return and supply connection**
- **Pressure relief port**
- **Top and bottom sensor**
- **Built-in low water cut-off probe**

Combustion System

- **Modulating burner with up to 5 to 1 turndown**
- **Up to 95% thermal efficiency**
- **High-Grade Inconel premix burner**
- **Spark ignition**
- **Fires on Natural or LP Gas with included conversion kit**
- **Dual flame monitoring (Spark and Flame probe)**
- **Flame stabilization monitoring – Automatic adjustment of firing rate to stabilize flame signal**

Integrated Control System

- **Digital operating control with LCD display three character for temperature and system monitor - LCD indicators for appliance faults (red light) and operation (green light)**
- **System parameters password protected**
- **Outdoor reset with indirect priority**
- **Multiple 120 volt 3 amp pump outputs – boiler pump and indirect pump**
- **0-10 volt input from a building management system**
- **Outdoor sensor input**
- **DHW sensor input**
- **Cascade up to 8 units**
- **Computer monitor cable allows user to monitor system parameters – fault history – graphical monitor of system operation**

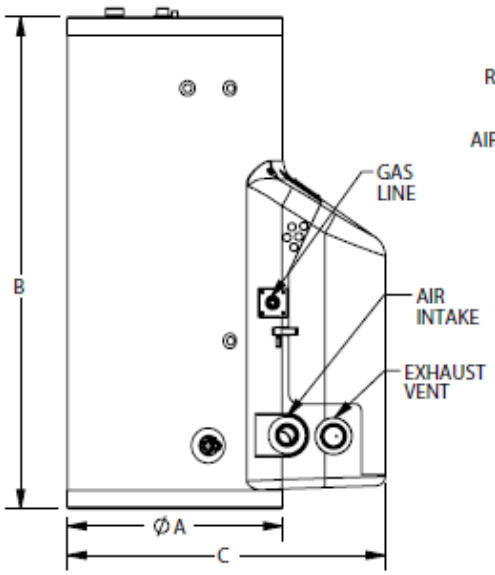
Additional Features

- **12 year limited warranty**
- **Vents in PVC - CPVC - stainless steel – ULC S636 flexible polypropylene vent liner (chimney lining only)**
- **Field wiring connection board / Cascade wiring CAT 3 or 5 / Removal low voltage connector**
- **Built –in condensation system**
- **Manual reset high limit**
- **Dry contact for alarm output**
- **Low NOx emissions – SCAQMD Certified**

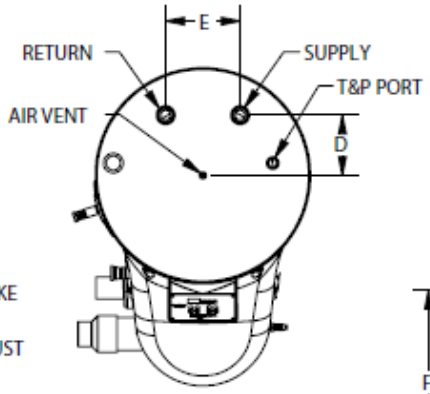
Optional Equipment

- ☐ **Outdoor Sensor (Part # 7250P-319)**
- ☐ **Indirect Sensor (Part # 7250P-325)**
- ☐ **System Sensor (Part # 7250P-324)**
- ☐ **2" PVC Concentric Vent Kit (Part # KGAVT0501CVT)**
- ☐ **3" PVC Concentric Vent Kit (Part # KGAVT0601CVT)**
- ☐ **2" Stainless Steel Outside Termination Vent Kit (Part # V500)**
- ☐ **3" Stainless Steel Outside Termination Vent Kit (Part # V1000)**
- ☐ **4" Stainless Steel Outside Termination Vent Kit (Part # V3000)**
- ☐ **Condensate Neutralizer (Part # 7450P-212)**
- ☐ **U.L. 353 Compliant Low Water Cut-Off Interface Kit w/ Manual Reset (Part # 7450P-225)**
- ☐ **Alarm System to monitor any failure (Part # 7350P-602)**
- ☐ **PC Connection Cable w / Software (Part # 7250P-738)**
- ☐ **MODBUS / BACnet (Part # 7350P-636)**

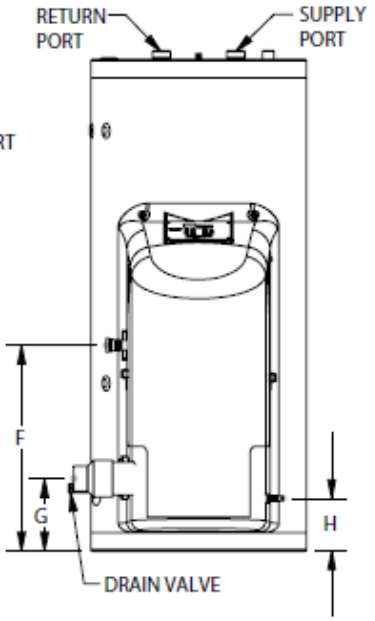
SIDE VIEW



TOP VIEW



FRONT VIEW



PIONEER DIMENSIONS

MODEL #	GALLONS	A	B	C	D	E	F	G	H
PHR100-55	55	23"	53"	34"	6-1/2"	8"	22"	8"	6"
PHR130-55									
PHR 160-55									
PHR199-55									

LP-325-L
08/27/2021

PIONEER SPECIFICATIONS

MODEL #	INPUT MODULATION	AIR INTAKE/EXHAUST VENT SIZE	DRAIN/OPTIONAL RETURN	SUPPLY/RETURN SIZES	AIR VENT	GAS CONN	DHW INLET/OUTLET	SHIPPING WEIGHT
PHR100-55	30,000 - 100,000	2"	3/4" NPT	1-1/4" FNPT	1/8" NPT	3/4"	N/A	260 LBS
PHR130-55	30,000 - 130,000	2"						
PHR 160-55	40,000 - 160,000	3"						
PHR199-55	40,000 - 199,000	3"						