

POWER-FIN COMMERCIAL BOILER

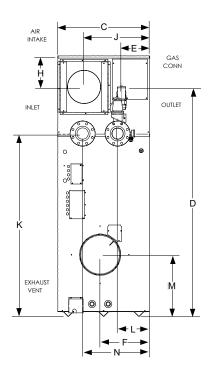
Submittal Sheet

PBXT-Sub-06

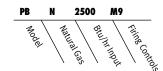
POWER-FIN® GAS BOILERS, MODELS PB 2500 – PB 5000

Job Name:	Model No.
Location:	Type Gas:
Engineer:	Equipment Tag(s):
Agent/Wholesaler:	
Contractor:	
NOTES:	

P R EXHAUST VENI B G



Model Number Guide



Power-Fin Boiler, Natural Gas, 2,500,000 Btu/hr input, M9 firing controls

		Power-F	in Boiler	ALDI CERTIFIED	Dimensions and Specifications								
Model No.	Input MBH	AHRI Thermal %	Combustion Efficency	Gross Output MBH	Net AHRI Rating MBH	A	В	C	D	E	F		
PBN2500	2,500	87.0%	87.0%	2,175	1,891	59"	44-1/2"	29-3/4"	49-3/4"	4"	15"		
PBN3000	3,000	87.0%	87.0%	2,610	2,270	65"	44-1/2"	29-3/4"	55-3/4"	4"	15"		
PBN3500	3,500	87.0%	87.0%	3,045	2,648	70-1/4"	47-1/4"	29-3/4"	62-1/2"	8-1/4"	15"		
PBN4000	4,000	87.0%	87.0%	3,480	3,026	79-3/4"	47-1/4"	29-3/4"	68-3/4"	8-1/4"	15"		
PBN5000	4,999	87.0%	87.0%	4,349	3,782	93-1/4"	46-3/4"	32-3/4"	82-1/4"	10"	17-3/4"		

Model No.	G	H	J	K	L	M	N	P	Q	R	Gas Conn.	Air Inlet	Vent Outlet	Ship Wt.
PBN2500	16"	9"	20-1/4"	37"	8-3/4"	23"	21-1/4"	12"	N/A	4-1/2"	2"	9"	9″	1470
PBN3000	16-1/4"	9"	20-1/4"	43"	8-3/4"	23"	21-1/4"	12"	N/A	4-1/2"	2"	9"	10"	1550
PBN3500	16-1/4"	9"	20-1/4"	48-1/2"	9″	23"	21-1/2"	12"	N/A	4-1/2"	2"	10"	10"	1696
PBN4000	16-1/4"	10-1/2"	20"	54"	8-3/4"	22-1/4"	21-1/4"	12"	58-1/2"	4-1/2"	2-1/2"	10"	12"	1841
PBN5000	17-1/2"	11"	23-1/2"	65-1/2"	11-1/2"	22"	24"	13-1/4"	69-1/2"	5-3/4"	2-1/2"	12"	14"	2152



Codes & Registrations

ANSI Z21.13/CSA Certified ASME Certified, "H" Stamp / National Board California Code Compliant Bay Area Air Quality Management District Qualified CSD1 / Factory Mutual / GE Gap Compliant Canadian Registration Number (CRN) **AHRI** Certified



Standard Features

87% Thermal Efficiency (AHRI) Modulating Burner with 5:1 Turndown **Outdoor Ready**

CSD-1 Compliant

Direct-Spark Ignition

Low NOx Operation

Sealed Combustion

ASME Copper-Finned Tube Heat Exchanger

ASME Certified, "H" Stamped Gasketless Design

160 psi Working Pressure

On/Off Switch

Adjustable High Limit with Manual Reset Condensate Trap w/Blocked Drain Switch

Drain Valve

System Sensor

Outdoor Air Sensor

Inlet & Outlet Temperature Sensors

High-Voltage Terminal Strip

Low-Voltage Terminal Strip

50 psi ASME Relief Valve

Temperature & Pressure Gauge

Zero Clearances to Combustible Materials

Low & High Manual Reset Gas Pressure Switches

See Warranty for Details:

10-Year Limited Warranty

1-Year Warranty on Parts

Smart Touch™ Features

CON·X·US Remote Connect

Full-Color 8" Touchscreen LCD Display

Built-in Cascading Sequencer for up to 8 Boilers

- > Built-in Redundancy
- > Cascade Multiple Sized Boilers
- > Lead/Lag Cascade
- > Efficiency Optimized Cascade

Front-End Loading Capability with Crest Boilers Building Management System Integration w/ o-10 VDC Input

Outdoor Reset Control

Password Security

Domestic Hot Water Prioritization

- > DHW tank piped with priority in the boiler loop
- > DHW tank piped as a zone in the system with the pumps controlled by the Smart System
- > DHW Modulation Limiting
- > Separately Adjustable SH/DHW Switching Times

Low Water Flow Safety Control & Indication Inlet & Outlet Temperature Readout

Freeze Protection

Service Reminder

Time Clock

Data Logging

- > Hours Running, Space Heating
- > Hours Running, Domestic Hot Water
- > Hours Running, Modulation Rate
- > Ignition Attempts
- > Last 10 Lockouts

Programmable System Efficiency Optimizers

- > Night Setback
- > Anti-Cycling
- > Outdoor Air Reset Curve
- > Ramp Delay
- > Boost Temperature & Time
- > Modulation Factor Control

Three Pump Control

- > System Pump
- > Boiler Pump
- > Domestic Hot Water Pump

High-Voltage Terminal Strip

- > 240V/1PH/60Hz Power Supply (PB2500-PB3000)
- > 208V/3PH/60Hz Power Supply (PB3500-PB4000)
- > 48oV/3PH/6oHz Power Supply (PB5000)
- > System Pump, Boiler Pump & DHW Pump Power

Low-Voltage Terminal Strip

- > 24 VAC Auxiliary Device Relay
- > Auxiliary Proving Switch Contacts
- > Alarm on Any Failure Contacts
- > Runtime Contacts
- > DHW Thermostat Contacts
- > Unit Enable/Disable Contacts
- > System Sensor Contacts
- > DHW Tank Sensor Contacts
- > Outdoor Air Sensor Contacts
- > Cascade Contacts
- > 0-10V DC BMS External Control Contact
- > 3 Way Valve Contacts

Firing Codes

Standard Construction M9

California Code

Optional Equipment

Alarm on Any Failure

BACnet MSTP Communications

BMS Gateway to LON or BacNet IP

Cupro-Nickel Heat Exchanger

Low Temperature Valve

Low Temperature Valve (Motorized)

Low Water Cutoff w/ Manual Reset & Test

Modbus Communications

Outdoor Kit

Step Down Gas Regulator

- > 2 PSI Inlet Max
- > 5 PSI Inlet Max

Transformer Kit (field installed)

All unit requirements and kits are 60 Hz

- > 208V/1PH → 240V/1PH (PB 2500-3000)
- > 480V/3PH → 208V/3PH (PB 3500-4000)
- > 600V/3PH → 208V/3PH (PB 3500-4000)
- > 208V/3PH → 480V/3PH (PB 5000)
- > 600V/3PH → 480V/3PH (PB 5000)

Wireless Outdoor Sensor



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