

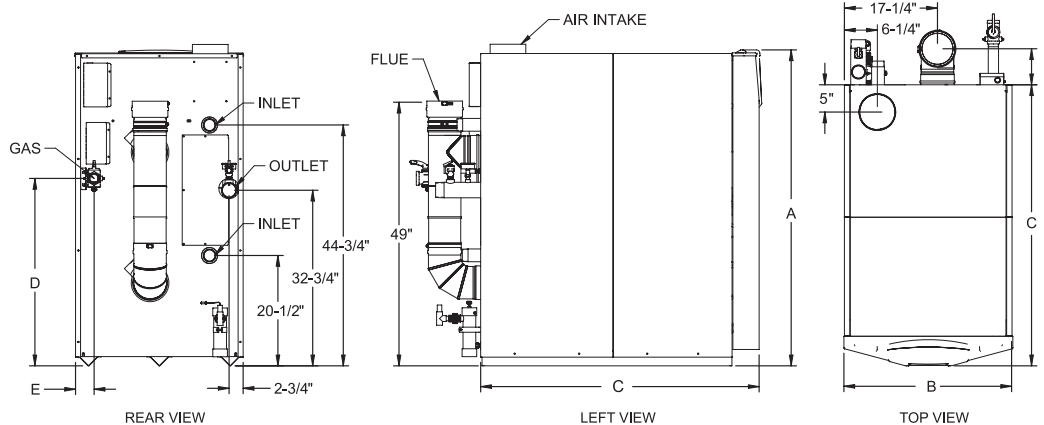


**SYNC
COMMERCIAL BOILER
Submittal Sheet
SYNC-Sub-3b**

SYNC® COMMERCIAL CONDENSING BOILER

JOB NAME _____
LOCATION _____
ENGINEER _____
WHOLESALE _____
MECH. CONTRACTOR _____
MODEL NO. _____
TYPE GAS _____
Btu/hr INPUT _____
Btu/hr OUTPUT _____
NOTES

SYNC Commercial Boiler Dimensions & Specifications



SYNC HEATING BOILER						DIMENSIONS AND SPECIFICATIONS											
Model Number	Input		Thermal Efficiency	Gross Output MBH	Net AHRI Rating MBH	A	B	C	D	E	F	Gas Conn.	Inlet Water Conn.	Outlet Water Conn.	Air Inlet	Vent Size	Shipping Wt. (lbs.)
	Min. MBH	Max. MBH															
SBN1000	100	999	94.1%	941	818	58-3/4"	31"	48"	35"	4-1/2"	15"	1-1/2"	2" x 2"	3"	6"	6"	786
SBN1300	130	1,300	95.4%	1,240	1,078	58-3/4"	31"	52-1/4"	34-3/4"	3-1/2"	6-3/4"	1-1/2"	2" x 2"	3"	6"	6"	856
SBN1500	150	1,500	96.2%	1,443	1,255	58-3/4"	31"	56-1/2"	34-3/4"	3-1/2"	6-3/4"	1-1/2"	2" x 2"	3"	6"	6"	926

Notes: Change 'N' to 'L' for L.P. Gas Model. No deration on L.P. models. Performance data based on manufacturer test results. 120 VAC /15 AMP circuit required. All dimensions shown in inches. *The Net AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15.

*Lochinvar should be consulted before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc. *The ratings have been determined under the provisions governing forced draft burners.



CODES & REGISTRATIONS

- ANSI Z21.13 compliant
- ASME certified, "H" stamp
- California Code compliant
- CSD1 / Factory Mutual / GE Gap compliant
- Massachusetts Code compliant
- South Coast Air Quality Management District registered

STANDARD FEATURES

- › Up to 96.2% Thermal Efficiency
- › Modulating Burner with 10:1 Turndown
 - Direct-Spark Ignition
 - Low NOx Operation
 - Sealed Combustion
 - Low Gas Pressure Operation
- › Vertical & Horizontal Venting
 - Category IV Venting up to 100 Feet
 - PVC, CPVC, Polypropylene or AL29-4C Vent Material
 - Sidewall Vent Terminations Provided
- › ASME Stainless Steel Heat Exchanger
 - ASME Certified, "H" Stamped
 - Gasketless Design
 - 160 psi Working Pressure
- › On/Off Switch
- › Adjustable High Limit with Manual Reset
- › Low Water Cutoff with Manual Reset & Test
- › Low Air Pressure Switch
- › High & Low Gas Pressure Switches with Manual Reset
- › Inlet & Outlet Temperature Sensors
- › Two Easy Access Terminal Strips
- › Downstream Test Cocks
- › 50 psi ASME Relief Valve
- › Temperature & Pressure Gauge
- › Zero Clearance to Combustible Material
- › Approved for Combustible Floor Installation
- › 1 Year Warranty on Parts
- › 10 Year Limited Warranty (see warranties for details)

SMART TOUCH™ FEATURES

- › SMART TOUCH™ Touchscreen Operating Control
 - Full-Color Touchscreen LCD Display
 - Built-in Cascading Sequencer for up to 8 Boilers
 - Building Management System Integration with 0-10 VDC Input
 - Outdoor Reset Control with Outdoor Air Sensor
 - Dual Level Password Security
 - Domestic Hot Water Prioritization
 - 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
 - Ignition Attempts
 - Last 10 Lockouts
- › Programmable System Efficiency Optimizers
 - Night Setback
 - Ramp Delay
 - Anti-Cycling
 - Outdoor Air Reset Curve
 - Boost Temperature & Time
- › Three Pump Control
 - System Pump
 - Boiler Pump(s)
 - Domestic Hot Water Pump(s)
- › High Voltage Terminal Strip
 - 120 VAC / 60 Hertz / 1-Phase Power Supply
 - Three Sets of Pump Contacts
- › Low Voltage Terminal Strip
 - 24 VAC Auxiliary Device Relay
 - Auxiliary Proving Switch Contacts
 - Flow 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

OPTIONAL EQUIPMENT

- Alarm Bell
- BMS Gateway to BACnet and LonWorks
- Condensate Neutralization Kit
- SMART SYSTEM PC Software
- Modbus Communications
- Stainless Steel Vent Kits
- 75 psi ASME Relief Valve
- 100 psi ASME Relief Valve
- 125 psi ASME Relief Valve
- 150 psi ASME Relief Valve

VENTING OPTIONS

- Direct Vent Vertical
- Direct Vent Horizontal
- Vertical Vent with Sidewall Air Intake
- Vertical Vent with Optional Room Air
- Sidewall Vent with Optional Room Air



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