



Lochinvar®

LECTRUS™ ELECTRIC BOILER

Submittal Sheet

KEB-Sub-03

LECTRUS COMMERCIAL ELECTRIC BOILERS

Job Name: _____

Model No. _____

Location: _____

Power Supply: _____

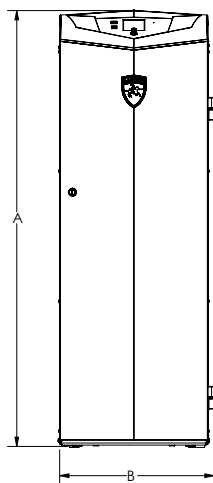
Engineer: _____

Equipment Tag(s): _____

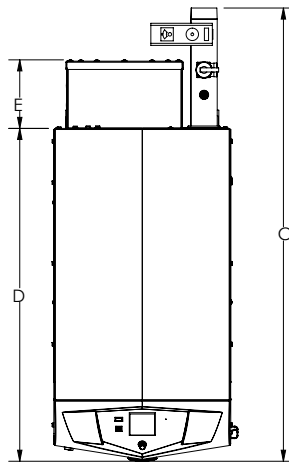
Agent/Wholesaler: _____

Contractor: _____

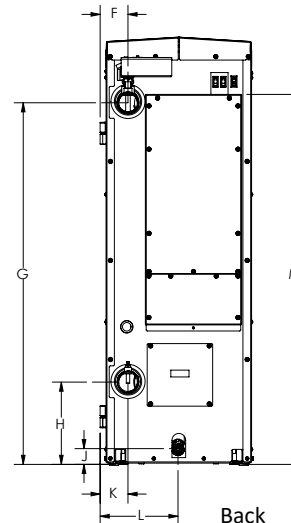
NOTES:



Front



Top



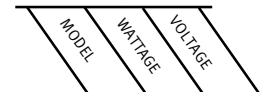
Back

This model is:

- Lectrus Electric Boiler
- 90 Kilowatts
- 208V - 3PH

FOR EASE IN ORDERING
BY MODEL NUMBER

KEB 0090 - K



LECTRUS HEATING BOILER					DIMENSIONS AND SPECIFICATIONS													
Model Number	Input KW		Max Flow Rate	Water Volume (Gal)	A	B	C	D	E	F	G	H	J	K	L	M	Water Conn.	Ship Wt. (lbs.)
	Min KW	Max KW																
KEB0015-0090	15	90	105	17	47"	16-3/4"	41"	30-1/4"	6-1/4"	3-1/4"	39-3/4"	9"	1-3/4"	3-1/4"	8-1/2"	40-3/4"	2" NPT	367
KEB0105-0150	105	150	105	32	47"	21-3/4"	45-1/4"	35-1/2"	6-1/4"	3-1/4"	39-3/4"	9"	2-1/4"	4-1/4"	11-1/4"	41-1/4"	2" NPT	488

*Information is subject to change without notice. Dimensions are in inches. Dimensions shown are with standard 10kA SCCR construction. *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.

Voltage Schedule

A - 240V	1PH
K - 208V	3PH
X - 480V	3PH
N - 600V	3PH

Model Number	Rating MBH	Rating kW	Elements Qty	Elements kW	Number of : Steps@ kW	FLA 240V	FLA 208V	FLA 480V	FLA 600V
KEB0015-*	51	15	1	15	1@15	63	42	18	15
KEB0030-*	102	30	2	15	2@15	125	84	37	29
KEB0045-*	153	45	3	15	3@15	N/A	125	55	44
KEB0060-*	204	60	4	15	4@15	N/A	167	73	58
KEB0075-*	256	75	5	15	5@15	N/A	209	91	73
KEB0090-*	307	90	6	15	3@30	N/A	250	109	87
KEB0105-*	358	105	7	15	3@30, 1@15	N/A	292**	127	101
KEB0120-*	409	120	8	15	4@30	N/A	334**	145	116
KEB0135-*	460	135	9	15	4@30, 1@15	N/A	375**	163	130
KEB0150-*	511	150	10	15	5@30	N/A	417**	181	145

LECTRUS®



SMART SYSTEM FEATURES

- › Smart System Digital Operating Control
- Multi-Color Graphic LCD Display w/Navigation Dial
- Triac Control Board(s) for full range modulation
- › Loch-N-Link® USB Port for Easy Programming
- › Cascading Sequencer with Built-in Redundancy
- Selectable Cascade Type: Lead Lag/Efficiency Optimization
- Multiple Size Boilers
- Front-End Loading
- › Temperature Input w/Independent Outdoor Reset Curve
- › Three-Pump Control
- System Pump with Parameter for Continuous Operation
- Boiler Pump with Variable-Speed Control
- Domestic Hot Water Boiler Pump
- › Building Management System Integration
- 0-10 VDC Input to Control Modulation or Setpoint
- 0-10 VDC Input from Variable-Speed System Pump
- 0-10 VDC Modulation Rate Output Signal
- 0-10 VDC Enable/Disable Signal
- › Programmable System Efficiency Optimizers
- Space Heating Night Setback
- DHW Night Setback
- Ramp Delay
- Boost Time and Temperature
- › High-Voltage Terminal Strip
- Pump Contacts for 3 Pumps
- › Low-Voltage Terminal Strip
- Flow Switch Contacts
- Alarm Contacts
- Runtime Contacts
- Heat Thermostat Contac
- Tank Thermostat Contacts
- System Sensor Contacts
- DHW Sensor Contacts
- Cascade Contacts
- 0-10 VDC BMS Contacts
- 0-10 VDC Boiler Rate Output Contacts
- 0-10 VDC Boiler Pump Speed Contacts
- 0-10 VDC System Pump Speed Contacts
- ModBus Contacts
- Time Clock
- Data Logging Last 10 Lockouts
- Space Heat Run Hours
- Domestic Hot Water Run Hours

STANDARD FEATURES

- › ASME-Certified, Steel Pressure Vessel
- 160 psi Working Pressure
- 50 psi Relief Valve
- Fully Welded Design
- › Smart System Control
- › Other Features On/Off Switch
- High Limit with Manual Reset
- Automatic Reset High Limit
- Manual Reset Low Water Cutoff
- Temperature and Pressure Gauge
- Custom Maintenance Reminder with Contact Info
- Password Security
- Customizable Freeze Protection Parameters
- 10 kA SCCR

OPTIONAL EQUIPMENT

Integrated dual-energy utility control (Field Mounted)

Wireless Outdoor Temperature Sensor

ModBus Communication

BACnet MSTP

Alarm Bell

200 kA SCCR (208V 105-150kW are field installed)

Front Door Solenoid Interlock

Ground Fault Detection Relay

Control Enable/Disable E-Stop Button

Power & Energy Meter

High Voltage Plexiglass Screen

200 kA Fused Rotary Handle Disconnect (Field Installed)

Non-Fused Rotary Handle Disconnect (Field Installed)

30 psi ASME Relief Valve

75 psi ASME Relief Valve

100 psi ASME Relief Valve

125 psi ASME Relief Valve

150 psi ASME Relief Valve

CODES AND REGISTRATIONS

ASME Certified, "H" Stamp/National Board

CSD-1

Canadian Registration Number (CRN)

CSA C22.2 No. 165/UL834



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