<b>BC</b> Better Boilers	Model SL 10-85 G3 Modulating Condensing Boile	SUBMITTAL r SHEET
Job Name Address Designer / Engineer Wholesaler Mechanical Contractor Date Quantity	Fuel Type:  Natural Gas	Propane Propane field conversion
<ul> <li>SL 10-85 G3 Boiler</li> <li>ASME approved pressure vessel constructed high quality 439 Stainless Steel</li> <li>Heat exchanger performance maximized the multi-tube, counter-flow fire-tube design</li> <li>Vertical combustion chamber and a down fire burner allow free gravity drainage of condens from the heat exchanger</li> <li>Metal fiber knit burner</li> <li>Direct spark ignition</li> <li>Brushless DC fan</li> <li>Zero governing 24V gas valve</li> <li>A.F.U.E. of 96%</li> <li>Patented Moisture Management System er long life of components.</li> <li>Certifications</li> <li>Constructed in accord with ANSI Z21.13-20 CSA 4.9-2017 and the ASME Boiler and Press Vessel Code, Section IV and bear the <i>H</i> starm per ASME code.</li> <li>Complies with SCAQMD Rule 1146.2 Para (C)(8) for Low NO<sub>x</sub> (&lt;20ppm)</li> <li>SIM+ certified to CSA STD C22.2 #60730-2 Conforming to UL STD 60730-2-5 &amp; ANSI ST Z21.20</li> </ul>	<ul> <li>Nodulates boiler water temperature</li> <li>Internal multiple boiler s management of up to 24</li> <li>Software upgrade by in Accepts an external 0-1 signal</li> <li>BACnet over IP comparation</li> <li>BACnet over IP comparation</li> <li>Two Interlock connection</li> <li>Automatic altitude composition</li> <li>Electronic water pressure</li> <li>Alarm dry contact for comparation</li> <li>Prioritizes up to 4 temposition</li> <li>Prioritizes up to 4 temposition</li> <li>Zoning feature for control witer</li> <li>Load combining softwat</li> <li>Error log with detailed or</li> </ul>	ternet or by USB port 10 VDC or 4-20 mA input tible (see Options) ons allowing external devices hut-down pensation to 12,000 ft. ure sensing, for digital display onnection to external device th relays for five pumps erature circuits electrically for s rol of up to four pumps under a re for simultaneous running of e and export to USB conditions capture in operation, sensors, boiler
<ul> <li>Provides ignition, flame proving and safety monitoring, including:         <ul> <li>Electronic, probe-type Manual Reset Lo</li> <li>Water Cut-Off</li> <li>High Vent Temperature safety limit</li> <li>Internal Manual Reset Electronic High liverification test</li> <li>Fan Operation control</li> </ul> </li> </ul>	<ul> <li>Summer shutdown prog</li> <li>User-defined unoccupie</li> <li>temperature (when using</li> <li>Variable speed output s</li> <li>Express setup mode fo</li> <li>Thermostat ground terr thermostat wiring</li> </ul>	grammable by load ed mode and DHW tank I sensor) signal for IBC air handler fan r load parameters





Model SL 10-85 G3

Modulating Condensing Boiler

SUBMITTAL SHEET

DESIGN AND PERFORMANCE DATA		
Energy input of boiler (NC and LD)	10.6 to 85 MBH	
Energy input of boiler (NG and LP)	3.10 to 24.9 kW	
Output of hollow (NC and LD)	10.1 to 79 MBH	
Output of boiler (NG and LP)	2.96 to 23.1 kW	
A.F.U.E.	96%	
Min gas pressure (NG or Propane) - inch w.c.	4" w.c.	
Max gas pressure (NG or Propane) - inch w.c.	14" w.c.	
Ambient Temperature – Low / High	32°F (0°C) / 122°F (50°C)	
Maximum relative humidity (non-condensing)	90%	
Minimum water temperature	34°F (1°C)	
Maximum water temperature	190°F (88°C)	
Maximum ΔT supply / return (electronic fence)	40°F (22°C)	
Maximum water temperature lockout limit	201°F (94°C)	
Power use (120Vac/60Hz) @ full fire	54 Watts (less pumps)	
Weight (empty)	85 lbs (39 Kg)	
Heating Surface Area	9.46 ft <sup>2</sup> (0.88 m <sup>2</sup> )	
Pressure vessel water content	2.47 USg (9.35 L)	
Maximum boiler flow rate	14 USgpm (0.88 L/sec)	
Minimum boiler flow rate	2 USgpm (0.13 L/sec)	
Maximum operating water pressure	30 psig (207 kPa)	
Minimum water pressure	8 psig (55 kPa)	
Manufacturer's approved installation altitude	0-12,000 ft (0-3658 m)	
Approved Venting Materials	2", 3" PVC, CPVC, PP, SS	
Maximum equivalent venting run each side (3")	240' (73 m)	
CRN (as of Oct. 2018)	7281.3 CL	

### **Options**

Propane Conversion Kit, IBC part P-304

Natural Gas Conversion Kit, IBC part P-305

BACnet activation, IBC part 700-002A1

Secondary Loop Sensor with stainless steel well kit, IBC part P-216

LIntake Air Filter kit, IBC part P-172 (requires 3" pipe and 4x3 MJ coupling to adapt)

Condensate Neutralization Tank, IBC part 180-048

Boiler Network Wiring kit (1 required per link), IBC part P-255

Flow Switch, IBC part 180-079 (for mounting on field-installed piping)



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Modulating Condensing Boiler

SUBMITTAL SHEET

## **Racking Option**

Boiler Stand

- designed for quick on-site assembly
- IBC part P-267



#### **Warranties**

- Boiler pressure vessel comes complete with a 10 year limited warranty
- Burner, controls, and other included equipment comes complete with a five year warranty

Approved for combustion air taken from adequately ventilated boiler room (see B149.1 / ANSI Z223.1)

#### **IBC Portal**

- Registering through an Ethernet connection gives remote access to controller functions
- Technician's View optimized for a browser
- Contractor or end user can receive email alerts for error states

#### NOTES









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