Inspections Division
Date: 09/10/14

G315 Series

Model	G315/5	G315/6	G315/7	G315/8	G315/9
Performance Data					
Gross Output (MBH)	350	454	559	663	768
# of Sections	5	6	7	8	9
Max. Input Gas (MBH)	433	556	678	801	924
Max. Input Oil (GPH)	3.0	3.85	4.7	5.6	6.4
Net IBR (MBH)	304	395	486	577	668
Boiler HP	10.4	13.6	16.6	19.8	22.9
Max. Operating Pressure (psi)	87	87	87	87	87
Combustion Efficiency Oil	86.8%	86.9%	87%	87.1%	87.1%
Combustion Efficiency Gas	84.2%	84.3%	84.4%	84.4%	84.5%
Thermal Efficiency Oil	83.3%	84.3%	84.9%	85.4%	85.7%
Thermal Efficiency Gas	80.8%	81.8%	82.4%	82.8%	83.1%
Number of Sections	5	6	7	8	9
Piping Connections					
Vent Connection Size, in	7				
Supply, in	3				
Return, in	3				
Physical Dimensions					
Overall Boiler Length, in	44 19/64	50 19/32	56 57/64	63 3/16	69 31/64
Boiler Block Length, in (LK)	38 3/16	44 31/64	50 25/32	57 3/32	63 25/64
Boiler Door Thickness, in	5				
Minimum Boiler Width, in	28				
Height, in	40¾				
Fire Box Depth, in	31	37½	43¾	50	56¼
Fire Box Diameter, in	15¾				
Fire Box Volume (cu. ft.)	5.19	6.39	7.59	8.79	9.99
Dry Weight (lbs.)	1,197	1,391	1,585	1,779	1,973
Water Content (gal.)	37.8	45.2	52.6	60.0	67.4
Operating Weight (lbs.)	1,512	1,768	2,024	2,280	2,545

Operational Requirements of the G315

- The boiler must be placed on a smooth, level concrete base, 33½" wide.
- Cement in the base (or place on its top) either 4" x ¼" flat steel plates or 4" x 2" x ¼" angle irons for boiler support.
- Set boiler high limits above 122°F (149 °F for modulating gas burner) for safe boiler operation.
- Low fire setting must be at least 60% of full fire for a LHL burner.
- Maintain minimum of 158°F in the boiler in case of ice water return temperatures.
- Buderus recommends the use of customized Beckett or Riello F series burners when firing the G315 with oil. (Available from Buderus.)
- Use Power Flame or Riello for gas firing. (Available from Buderus.)

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