

TECHNICAL DATA SHEET

PRODUCT: Buderus GE615 Boiler

GE615 Floor Standing High Efficiency Boiler:

GE615 – 570	511 – 570kW
GE615 – 660	571 – 660kW
GE615 – 740	661 – 740kW
GE615 – 820	741 – 820kW
GE615 – 920	821 – 920kW
GE615 – 1020	921 – 1020kW
GE615 – 1110	1021 – 1110kW
GE615 – 1200	1111 – 1200kW



- ▶ Cast iron sectional boiler for use with pressure jet burners
- ▶ High efficiency up to 97% (NCV)
- ▶ G/GE Cast Iron Thermostream boilers have Ecostream Technology® patented worldwide
- ▶ Output available between 570kW and 1200kW
- ▶ Delivered as loose sections ready to be assembled on site
- ▶ No minimum flow rate
- ▶ Flexible controls option using the Buderus 4000 controls system
- ▶ Can be used in conjunction with renewable technologies such as solar thermal, heat pumps and CHP
- ▶ System safety kits as per BS:6644 are available upon request

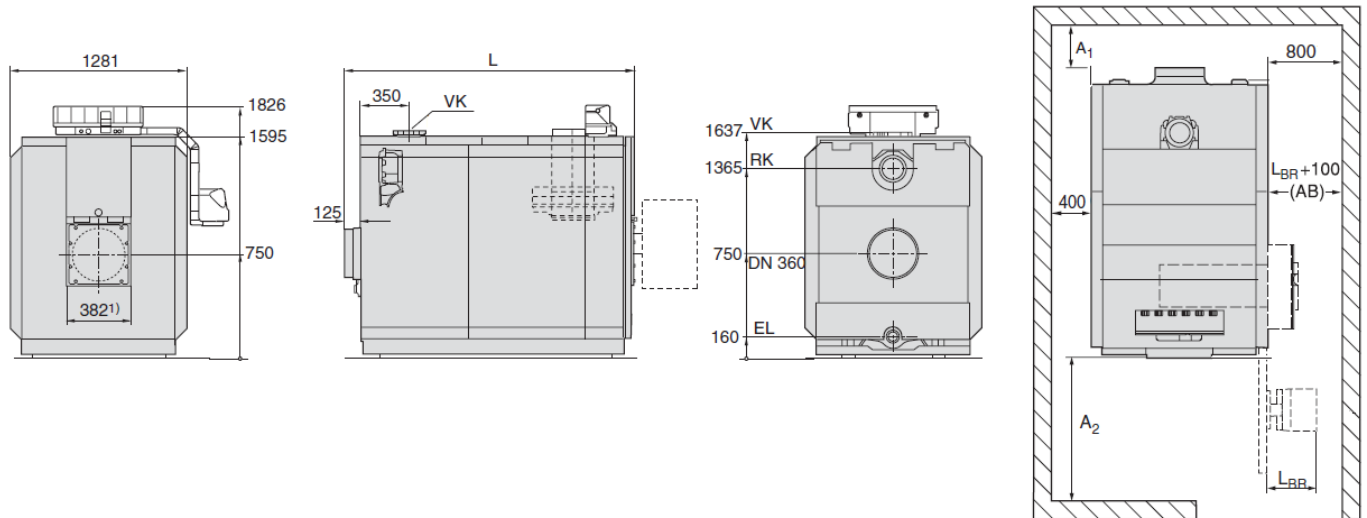
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GE615 Dimensions & Clearances:



GE615 Dimensions (570 – 820kW):

GE615	Unit	570	660	740	820
Boiler sections		9	10	11	12
Height	H	1826			
	H _K	1595			
Length	L	1926	2096	2266	2436
	L _K	1804	1974	2144	2314
Width		1281			
Net weight (dry)		2505	2747	2990	3232
Flue gas connection	Ø D _{AA}	360			
	H _{AA}	750			
Boiler flow connection	Ø VK	DN150*			
	H _{VK}	1637			
Boiler return connection	Ø RK	DN150*			
	H _{RK}	1365			
Cold fill / drain	EL	Rp ¾			
Transport / Handling Assembled block	Length	1804	1974	2144	2314
	Width	1096	1096	1096	1096
	Height	1640	1640	1640	1640
Transport / Handling Unassembled sections	Length	170			
	Width	1096			
	Height	1640			

*The flow and return connections are DN150 flanges as standard, but these can be reduced to either DN125 or DN100 to match site requirements.

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GE615 Dimensions (920 – 1200kW):

GE615		Unit	920	1020	1110	1200
Boiler sections			13	14	15	16
Height	H	mm	1826			
	H _K	mm	1595			
Length	L	mm	2606	2776	2946	3116
	L _K	mm	2484	2654	2824	2994
Width		mm	1281			
Net weight (dry)		kg	3475	3710	3953	4147
Flue gas connection	Ø D _{AA}	DN	360			
	H _{AA}	mm	750			
Boiler flow connection	Ø VK	mm	DN150*			
	H _{VK}	mm	1637			
Boiler return connection	Ø RK	mm	DN150*			
	H _{RK}	mm	1365			
Cold fill / drain	EL	Inch	Rp ¾			
Transport / Handling Assembled block	Length	mm	2484	2654	2824	2994
	Width	mm	1096	1096	1096	1096
	Height	mm	1640	1640	1640	1640
Transport / Handling Unassembled sections	Length	mm	170			
	Width	mm	1096			
	Height	mm	1640			

*The flow and return connections are DN150 flanges as standard, but these can be reduced to either DN125 or DN100 to match site requirements.

GE615 Service Clearances:

GE615		Unit	570	660	740	820
Front clearance	A ₂	mm	2300 (1400)			
Rear clearance*	A ₁	mm	1150 (820)			
Left clearance		mm	400			
Right clearance	AB	mm	Length of Burner (LBR) + 100			

GE615		Unit	920	1020	1110	1200
Front clearance	A ₂	mm	3000 (1500)			
Rear clearance*	A ₁	mm	1150 (820)			
Left clearance		mm	400			
Right clearance	AB	mm	Length of Burner (LBR) + 100			

Recommended clearances around the boiler, values in brackets are the minimum required clearances.

Please note that if the burner door hinge is changed to the opposite side, the left and right clearances must be swapped

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GE615 Technical Specification (570 – 820kW):

GE615		Unit	570	660	740	820
Rated heat output	Full load	kW	570	660	740	820
	Part load	kW	511	571	661	741
Rated heat input	Full load	kW	616.2	713.5	800.0	886.5
	Part load	kW	546.5	610.7	707.0	792.5
Net efficiency (NCV)		%	96.6	96.6	96.7	97.0
Seasonal efficiency****		%	86.3	86.3	86.4	86.6
Max safety temperature setting*		°C	120			
Max working pressure		bar	6			
Water content		l	561	621	681	741
Water flow resistance	ΔT 20k	mbar	26.5	26.5	26.5	26.5
	ΔT 11k	mbar	82.0	83.0	83.0	83.0
Flue gas temperature**	Full load	°C	170-180			
	Part load	°C	140			
Flue gas mass flow rate - Gas***	Full load	kg/s	0.2328	0.2602	0.3012	0.3376
			-	-	-	-
Flue gas mass flow rate - Oil***	Full load	kg/s	0.2625	0.3039	0.3408	0.3776
			-	-	-	-
Flue gas mass flow rate - Gas***	Part load	kg/s	0.1542	0.1785	0.2002	0.2215
			-	-	-	-
Flue gas mass flow rate - Oil***	Part load	kg/s	0.2320	0.2592	0.3001	0.3364
			-	-	-	-
CO ₂ content	Gas	%	10			
	Oil	%	13			
Flue gas resistance		mbar	2.4	3.4	4.2	4.2
Required flue draught		Pa	0			
CE certification, product ID no.			CE-0461 AU 417			

Please note: To maintain the boiler operating conditions, we recommend the use of a back-end protection system consisting of individual primary pump and back-end mixing valve.

*The safety limit cut-out temperature can be adjusted within the 4000 series controls dependant on system requirements,

The maximum possible system flow temperature is the safety limit temperature minus 18k.

**Calculated flue gas temperatures used for cross-sectional calculation according to EN 303

The actual flue gas temperature may differ from this, subject to burner setting and actual system temperature.

***Flue gas mass flow has been measured at 60% for part load, and full load values relate to the upper and lower output range.

****The seasonal efficiency has been calculated in accordance with the equation set out in the non-domestic building services compliance guide 2010.

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GE615		Unit	920	1020	1110	1200
Rated heat output	Full load	kW	920	1020	1110	1200
	Part load	kW	821	921	1021	1111
Rated heat input	Full load	kW	994.6	1102.0	1200.0	1297.0
	Part load	kW	878.1	985.0	1092.0	1188.0
Net efficiency (NCV)		%	97.0			
Seasonal efficiency****		%	86.6			
Max safety temperature setting*		°C	120			
Max working pressure		bar	6			
Water content		l	801	861	921	981
Water flow resistance	ΔT 20k	mbar	26.5	26.5	26.5	26.5
	ΔT 11k	mbar	83.0	83.0	83.0	83.0
Flue gas temperature**	Full load	°C	170-180			
	Part load	°C	140			
Flue gas mass flow rate - Gas***	Full load	kg/s	0.3741	0.4196	0.4652	0.5061
			-	-	-	-
Flue gas mass flow rate - Oil***	Full load	kg/s	0.4237	0.4694	0.5112	0.5525
			-	-	-	-
Flue gas mass flow rate - Gas***	Part load	kg/s	0.2488	0.2760	0.3003	0.3246
			-	-	-	-
Flue gas mass flow rate - Oil***	Part load	kg/s	0.3727	0.4181	0.4635	0.5043
			-	-	-	-
CO ₂ content	Gas	%	10			
	Oil	%	13			
Flue gas resistance		mbar	4.1	4.5	5.4	5.8
Required flue draught		Pa	0			
CE certification, product ID no.			CE-0461 AU 417			

Please note: To maintain the boiler operating conditions, we recommend the use of a back-end protection system consisting of individual primary pump and back-end mixing valve.

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