

Two flue gas passes steel jet burner boilers

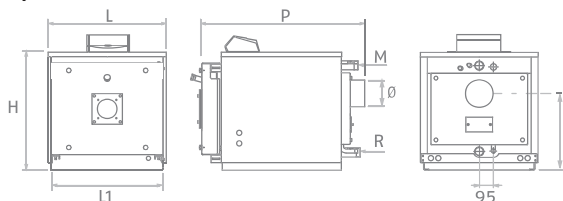
RTQ 3S

Products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.



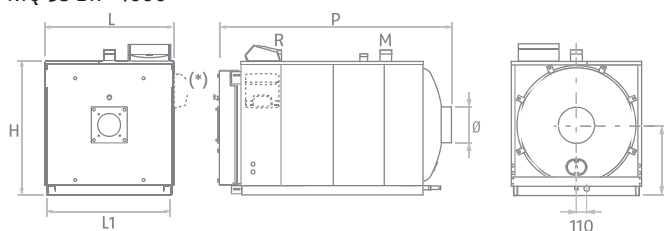
- Single-piece steel boilers
- Provided with completely wet combustion chamber with free dilation and flame-inversion (square range)

RTQ 3S 35-166



(*) From RTQ 1100 3S to RTQ 4000 3S model

RTQ 3S 217-4000



M = flow
R = return

Description	H mm	L mm	P mm	L1 mm	D mm	M Ø	R Ø	Ø mm	Net weight kg
RTQ 35 3S	605	605	880	560	310	1" 1/4	1" 1/4	139	137
RTQ 55 3S	605	605	1030	560	310	1" 1/4	1" 1/4	139	160
RTQ 70 3S	740	705	970	660	384	1" 1/2	1" 1/2	179	199
RTQ 91 3S	740	705	1120	660	384	1" 1/2	1" 1/2	179	225
RTQ 115 3S	905	805	1230	753	500	G2"	G2"	180	283
RTQ 166 3S	955	853	1405	803	525	G2"	G2"	180	355
RTQ 217 3S	1060	925	1580	875	525	G2" 1/2	G2" 1/2	200	455
RTQ 255 3S	1060	925	1580	875	525	G2" 1/2	G2" 1/2	200	473
RTQ 318 3S	1110	975	1810	925	550	G2" 1/2	G2" 1/2	250	610
RTQ 349 3S	1110	975	1810	925	550	G2" 1/2	G2" 1/2	250	610
RTQ 448 3S	1275	1150	2140	1100	655	DN80	DN80	300	970
RTQ 511 3S	1275	1150	2140	1100	655	DN80	DN80	300	970
RTQ 575 3S	1385	1220	2410	1170	690	DN100	DN100	300	1189
RTQ 639 3S	1385	1220	2410	1170	690	DN100	DN100	300	1189
RTQ 766 3S	1440	1285	2550	1235	715	DN100	DN100	350	1406
RTQ 896 3S	1530	1360	2865	1310	755	DN125	DN125	400	1817
RTQ 1100 3S	1630	1450	3130	1400	820	DN125	DN125	400	2280
RTQ 1300 3S	1725	1535	3155	1485	865	DN125	DN125	450	2780
RTQ 1600 3S	1822	1610	3235	1555	900	DN150	DN150	500	3160
RTQ 2100 3S	1972	1715	3515	1660	1000	DN175	DN175	500	4170
RTQ 2400 3S	1972	1715	3515	1660	1000	DN175	DN175	500	4180
RTQ 2700 3S	2090	1865	3560	1895	1050	DN175	DN175	500	4826
RTQ 3000 3S	2162	1935	3670	1885	1080	DN175	DN175	500	5346
RTQ 3500 3S	2240	2040	4010	1990	1155	DN200	DN200	550	6195
RTQ 4000 3S	2270	2070	4260	2020	1170	DN200	DN200	600	6790

Provided with high-performance stainless steel turbulators ensuring wide exchange surface, in order to optimize the heat exchange and allow a homogeneous thermal load. The front door features an ambidextrous opening and is provided with a highly-insulating mineral-wool double seal. Casing is made of stove-enamelled sheet. The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 55 °C)
- Several solutions thanks to the combination with RIELLOtech control panels.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (80°-60 °C)	Efficiency 30% Pn (80°-60 °C)	Notes	Code
RTQ 35 3S	33,8	34,8	94,2	95,9	(1)	20025617
RTQ 55 3S	53,2	55,0	93,8	95,5	(1)	20025618
RTQ 70 3S	67,8	69,0	94,2	95,9	(1)	20025619
RTQ 91 3S	87,1	90,0	94,2	95,9	(1)(2)	20024200
RTQ 115 3S	109,7	115,0	95,8	95,1	(1)(2)	4032606.0
RTQ 166 3S	158,7	166,0	95,6	95,6	(1)(2)	4032607.0
RTQ 217 3S	206,8	217,0	95,3	96,3	(1)(2)	4032608.0
RTQ 255 3S	243,3	255,0	95,8	96,5	(1)(2)	4032609.0
RTQ 318 3S	303,4	318,0	95,6	96,5	(1)(2)	4032610.0
RTQ 349 3S	332,0	348,0	95,4	96,7	(1)(2)	4032611.0
RTQ 448 3S	427,4	448,0	95,4	96,7		4032613.0
RTQ 511 3S	487,5	511,0	95,4	96,7		4032614.0
RTQ 575 3S	548,6	575,0	95,4	96,7		4032615.0
RTQ 639 3S	609,6	639,0	95,4	96,7		4032616.0
RTQ 766 3S	730,8	766,0	95,4	96,7		4032617.0
RTQ 896 3S	854,8	896,0	95,4	96,7		20008436
RTQ 1100 3S	1049,4	1100,0	95,4	96,7		20012427
RTQ 1300 3S	1240,2	1300,0	95,4	96,7		20008435
RTQ 1600 3S	1526,4	1600,0	95,4	96,7		20016656
RTQ 2100 3S	2003,4	2100,0	95,4	96,7		20016657
RTQ 2400 3S	2289,6	2400,0	95,4	96,7		20018817
RTQ 2700 3S	2576,0	2700,0	95,4	96,7		20106515
RTQ 3000 3S	2860,0	3000,0	95,4	96,7		20106514
RTQ 3500 3S	3339,0	3500,0	95,4	96,7		20107462
RTQ 4000 3S	3816,0	4000,0	95,4	96,7		20107467

Maximum operating pressure 5 bar for RTQ 35 3S - RTQ 766 3S models.

Maximum operating pressure 6 bar for RTQ 896 3S - RTQ 4000 3S models.

(1) Gas products and oil products (models 35, 55 and 70) are only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

(2) Oil products are in conformity with ErP Directive (EU Regulation Nr. 813/2013).

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	4031395
Burner flange	20076596
Burner flange	20076618
Burner flange	4031198
Burner flange	4031391

CONTROL PANELS

Description	Installation	Boiler models	Code
RIELLOtech CLIMA COMFORT	Horizontal	RTQ 3S 90-2400	4031064
RIELLOtech CLIMA COMFORT	Vertical	RTQ 3S 448-4000	4031069
RIELLOtech PRIME	Horizontal / Vertical	All models	20010820
RIELLOtech PRIME ACS	Horizontal / Vertical	All models	20010437

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner														Burner accessory	Control panels					
		Yellow flame (Standard)															Extended head	RielloTech Prime	RielloTech Klima Comfort	RielloTech Klima Comfort	Two stage burner management kit	3-point modulation kit
		Two stage							Modulating													
		Mechanical cam																				
RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 190 TC	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 130/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 440/M MZ FS1	3010443	20010820	4031069	4031064	4031067	20013035			
RTQ 448 3S	3,5	●														●				●		
	3,5					●															●	
RTQ 511 3S	4,2		●													●				●		
	4,2					●															●	
RTQ 575 3S	3,4			●												●				●		
	3,4							●													●	
RTQ 639 3S	4,5			●												●				●		
	4,5							●													●	
RTQ 766 3S	5,3				●											●				●		
	5,3								●												●	
RTQ 896 3S	6,0				●											●				●		
	6,0								●												●	
RTQ 1100 3S	3,3					●										●				●		
	3,3								●												●	
RTQ 1300 3S	5,3				●											●				●		
	5,3								●												●	
RTQ 1600 3S	4,7						●									●	●			●		
	4,7									●						●				●		
RTQ 2100 3S	5,1										●									●		
RTQ 2400 3S	7,6															●				●		
RTQ 2700 3S	8,0															●				●		
RTQ 3000 3S	6,5															●				●		
RTQ 3500 3S	7,1															●				●		
RTQ 4000 3S	8,0															●				●		

NOTE: the gas burners must be completed with the gas train.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

Description	Back-pressure in combustion chamber (mbar)	Oil burner									Dual fuel burner					Burner accessory	Burner flange			Control panels																
		Yellow flame (Standard)										Blue flame (Low NOx)																								
		Two stage			Modulating			Two stage			Modulating																									
		-			Mechanical cam			-			Mechanical cam																									
		RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	Extended head	Burner flange	Burner flange	Burner flange	RielloTech Prime	RielloTech Clima Comfort	RielloTech Clima Comfort	Two stage burner management kit	3-point modulation kit						
		3474633	3475033	3475233	3475433	3475613	3470010	20166504	20166476	20166484	20166487	20169231	20147805	20147798	20147799	20147800	20159361	20145372	20147806	20147809	20147812	20097869	4031395	20076596	20076618	20010820	4031069	4031064	4031067	20013035						
RTQ 448 3S	3,5	•																																		
	3,5						•																													
	3,5												•									•														
RTQ 511 3S	4,2	•																																		
	4,2						•																													
	4,2												•																							
RTQ 575 3S	3,4	•																																		
	3,4							•																												
	3,4												•																							
RTQ 639 3S	4,5		•																																	
	4,5							•																												
	4,5												•																							
RTQ 766 3S	5,3			•																																
	5,3								•																											
	5,3												•																							
RTQ 896 3S	6,0			•																																
	6,0								•																											
	6,0												•																							
RTQ 1100 3S	3,3				•																															
	3,3									•																										
	3,3													•																						
RTQ 1300 3S	5,3				•																															
	5,3										•																									
	5,3														•																					
RTQ 1600 3S	4,7					•																														
	4,7											•																								
	4,7															•																				
RTQ 2100 3S	5,1						•																													
	5,1											•																								
	5,1															•																				
RTQ 2400 3S	7,6																																			
	7,6																																			
	7,6																•																			
RTQ 2700 3S	8,0																																			
	8,0																																			
	8,0																•																			
RTQ 3000 3S	6,5																																			
	6,5																																			
	6,5																	•																		
RTQ 3500 3S	7,1																																			
	7,1																																			
	7,1																		•																	
RTQ 4000 3S	8,0																																			
	8,0																																			
	8,0																																			

NOTE: the light oil burners must be completed with the light oil nozzles.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

RECOMMENDED COMBINATIONS WITH BURNERS – EXTRA EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner					Burner accessory	Burner accessory	Control panels																														
		Yellow flame (Standard)				Blue flame (Low NOx)																																	
		Two stage		Modulating		One stage						Two stage																											
		Mechanical cam										-	-																										
		RS 34 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 190 TC	RS 34/M MZ TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 130/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ F51	RS 410/M MZ F51	BS1	BS2	BS3	BS1D	BS2D	BS3D	Extended head	Extended head	Extended head	RielloTech Prime	RielloTech Klima Comfort	RielloTech Klima Comfort	Two stage burner management kit	3-point modulation kit							
		3789011	3789111	3784703	3785103	3785303	3785503	3785813	3788711	3788811	3781623	3789611	3789711	3789811	378623	3788411	20068343	20068356	3761158	3761258	3761316	3761558	3761658	3761716	3010443	3001007	3001009	20010820	4031069	4031064	4031067	20013035							
RTQ 35 3S	0,4																		•																				
	0,4																																						
RTQ 55 3S	0,9																			•																			
	0,9																																						
RTQ 70 3S	0,6																				•																		
	0,6																																						
RTQ 91 3S	2,0																																						
	2,0																					•																	
RTQ 115 3S	1,5																																						
	1,5																																						
RTQ 166 3S	1,3																																						
	1,3																																						
RTQ 217 3S	2,2	•																																					
	2,2								•																														
RTQ 255 3S	2,8	•																																					
	2,8								•																														
RTQ 318 3S	3,2	•																																					
	3,2								•																														
RTQ 349 3S	3,9		•																																				
	3,9								•																														
RTQ 448 3S	3,5		•																																				
	3,5									•																													
RTQ 511 3S	4,2			•																																			
	4,2									•																													
RTQ 575 3S	3,4				•																																		
	3,4											•																											
RTQ 639 3S	4,5				•																																		
	4,5											•																											
RTQ 766 3S	5,3				•																																		
	5,3											•																											
RTQ 896 3S	6,0				•																																		
	6,0											•																											
RTQ 1100 3S	3,3					•																																	
	3,3											•																											
RTQ 1300 3S	5,3					•																																	
	5,3											•																											
RTQ 1600 3S	4,7						•																			•													
	4,7											•													•														
RTQ 2100 3S	5,1																																						
	5,1																																						
RTQ 2400 3S	7,6																																						
	7,6																																						
RTQ 2700 3S	8,0																																						
	8,0																																						
RTQ 3000 3S	6,5																																						
	6,5																																						
RTQ 3500 3S	7,1																																						
	7,1																																						
RTQ 4000 3S	8,0																																						
	8,0																																						

NOTE: the gas burners must be completed with the gas train.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

Description	Back-pressure in combustion chamber (mbar)	Oil burner												Burner accessory	Burner flange	Control panels																										
		Yellow flame (Standard)														Riellotherm	Riellotherm Comfort	Two stage burner management kit																								
		One stage				Two stage				Modulating																																
		-				-				Mechanical cam																																
RG1NR	RG2	RG3	RG5S	RL 34/1 MZ TL	RG2KD	RG3D	RG4D	RG5D	RL 34 MZ TL	RL 44 MZ TL	RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 28/M TL	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	Extended head	Extended head	Extended head	Extended head	Extended head	Extended head	Burner flange	Burner flange	Burner flange	Riellotherm Prime	Riellotherm Klima Comfort	Riellotherm Klima Comfort	Two stage burner management kit	3-point modulation kit					
RTQ 35 3S	0,4	●																																								
RTQ 55 3S	0,9		●																																							
	0,9					●																																				
RTQ 70 3S	0,6					●																																				
RTQ 91 3S	2		●																																							
	2						●																																			
RTQ 115 3S	1,5						●																																			
RTQ 166 3S	1,3			●																																						
	1,3						●																																			
	1,3													●																												
RTQ 217 3S	2,2			●																																						
	2,2							●																																		
	2,2													●																												
RTQ 255 3S	2,8			●																																						
	2,8							●																																		
	2,8													●																												
RTQ 318 3S	3,2				●																																					
	3,2							●																																		
	3,2																																									
RTQ 349 3S	3,9								●																																	
	3,9																																									
RTQ 448 3S	3,5									●																																
	3,5																																									
RTQ 511 3S	4,2										●																															
	4,2																																									
RTQ 575 3S	3,4											●																														
	3,4																																									
RTQ 639 3S	4,5											●																														
	4,5																																									
RTQ 766 3S	5,3												●																													
	5,3																																									
RTQ 896 3S	6													●																												
	6																																									
RTQ 1100 3S	3,3																																									
	3,3																																									
RTQ 1300 3S	5,3												●																													
	5,3																																									
RTQ 1600 3S	4,7																																									
	4,7																																									
RTQ 2100 3S	5,1																																									
	5,1																																									

NOTE: the light oil burners must be completed with the light oil nozzles.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

Description	Back-pressure in combustion chamber (mbar)	Dual fuel burner								Burner accessory	Burner flange	Control panels					
		Yellow flame (Standard)				Blue flame (Low NOx)											
		Two stage				Modulating											
		-				Mechanical cam											
		20147897	20147803	20147805	20147798	20147799	20147800	20147806	20147809	20147812	20097868	20097869	20097840	20076596	20076618	20010820	4031067
RTQ 217 3S	2,2	●											●			●	●
RTQ 255 3S	2,8	●											●			●	●
RTQ 318 3S	3,2		●								●					●	●
RTQ 349 3S	3,9		●								●					●	●
RTQ 448 3S	3,5			●								●				●	●
RTQ 511 3S	4,2				●											●	●
RTQ 575 3S	3,4				●											●	●
RTQ 639 3S	4,5				●											●	●
RTQ 766 3S	5,3				●											●	●
RTQ 896 3S	6,0					●										●	●
RTQ 1100 3S	3,3					●										●	●
RTQ 1300 3S	5,3						●									●	●
RTQ 1600 3S	4,7							●								●	●
RTQ 2100 3S	5,1								●							●	●
RTQ 2400 3S	7,6									●						●	●
RTQ 2700 3S	8,0										●					●	●
RTQ 3000 3S	6,5								●					●		●	●
RTQ 3500 3S	7,1									●					●	●	●
RTQ 4000 3S	8,0										●				●	●	●

NOTE: the light oil burners must be completed with the light oil nozzles.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 323.

HEAT PUMPS
 WALL-HUNG BOILERS
 FLOOR-STANDING BOILERS
 WATER-HEATERS
 SOLAR THERMAL AND CYLINDERS
 CENTRALIZED HEATING
 AIR CONDITIONING
 TERMINAL UNITS
 SYSTEM COMPLEMENTARY ITEMS
 HOT AIR GENERATORS