



RTS 3S



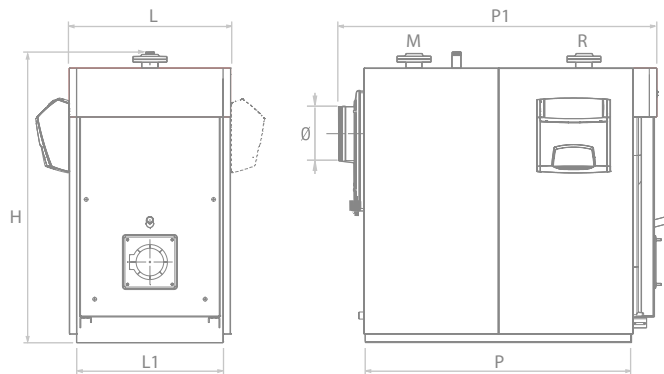
RIELLO
Energy For Life

Three flue gas passes steel jet burner boilers

RTS 3S

Oil products are compliant to ErP Directive (EU Regulation N° 813/2013).

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



- Oil products compliant to Directive 2009/125/EC
- Single-piece steel boilers with three flue gas passes
- The particular geometry of the heat exchanger allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of NOx for low polluting emissions

Description	H	L	P	L1	P1	M	R	Ø	Net weight
	mm	mm	mm	mm	mm	Ø	Ø	mm	kg
RTS 90 3S	1205	660	860	580	1155	2"	2"	180	335
RTS 115 3S	1285	710	1010	640	1330	2"	2"	200	450
RTS 166 3S	1390	760	1180	690	1500	2" 1/2	2" 1/2	250	515
RTS 217 3S	1390	760	1180	690	1500	2" 1/2	2" 1/2	250	535
RTS 255 3S	1524	820	1296	750	1660	2" 1/2	2" 1/2	250	715
RTS 349 3S	1490	820	1596	750	1960	DN 80	DN 80	250	840
RTS 448 3S	1685	890	1692	790	2085	DN 80	DN 80	300	1160
RTS 511 3S	1685	890	1692	790	2085	DN 80	DN 80	300	1160
RTS 639 3S	1820	1000	1965	900	2375	DN 100	DN 100	350	1500
RTS 850 3S	1920	1047	2236	980	2657	DN 125	DN 125	350	2075
RTS 1160 3S	2080	1147	2533	1070	2954	DN 125	DN 125	400	2575
RTS 1450 3S	2222	1237	2754	1160	3173	DN 150	DN 150	450	3390

Its vertical design and reduced width (narrow range) allows an easy installation even in tiny plant rooms. The flue pipes are equipped with removable stainless steel turbulators, which allow to optimize the efficiency of the heat exchange without increasing head losses. The door features an ambidextrous opening and is provided with a peephole with pressure intake. Casing is made of stove-enamelled sheet. Shell and flue gas zone are easy to reach for maintenance. The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 50 °C)
- Several solutions thanks to the combination with RIELLOtech control panels.

GROUP COMPOSITION

Code (*)	Composed by (**)	Description	Notes
20042418	20038131	RTS 90 3S (body)	
	20036648	casing 90 3S	
	20036649	door frame + logo RTS 90 3S	
20031973	20030819	RTS 115 3S (body)	
	20027717	casing 115 3S	
	20027723	door frame + logo RTS 115 3S	
20031974	20030820	RTS 166 3S (body)	
	20027718	casing 166-217 3S	
	20027724	door frame + logo RTS 166-217 3S	
20031976	20030821	RTS 217 3S (body)	
	20027718	casing 166-217 3S	
	20027724	door frame + logo RTS 166-217 3S	
20031977	20030822	RTS 255 3S (body)	
	20027719	casing 255 3S	
	20027726	door frame + logo RTS 255-349 3S	
20031978	20030824	RTS 349 3S (body)	
	20027720	casing 349 3S	
	20027726	door frame + logo RTS 255-349 3S	
20031979	20030825	RTS 448 3S (body)	
	20027721	casing 448-511 3S	
	20027727	door frame + logo RTS 448-511 3S	
20031980	20030826	RTS 511 3S (body)	
	20027721	casing 448-511 3S	
	20027727	door frame + logo RTS 448-511 3S	
20042417	20038130	RTS 639 3S	casing included
	20027728	door frame + logo RTS 639 3S	
20044152	20038132	RTS 850 3S	casing included
	20027725	door frame + logo RTS 850 3S	
20047381	20038133	RTS 1160 3S (body)	
	20043546	casing 1160 3S	
	20043541	door frame + logo RTS 1160 3S	
20047391	20038134	RTS 1450 3S (body)	
	20046158	casing 1450 3S	
	20046162	door frame + logo RTS 1450 3S	

(*) By ordering this code, you will receive the whole product.

(**) Consider that each single component can be ordered separately.

TECHNICAL DATA

Output	Input	Efficiency Pn	Efficiency (30% Pn)	H	L	P	L1	P1	M	R	Ø	Net weight	Code	Description	Notes
kW	kW	(80°-60°C)	%	mm	mm	mm	mm	mm	Ø	Ø	mm	kg			
85,1	90	94,5	98,5	1205	660	860	580	1155	2"	2"	180	335	20042418	RTS 90 3S	(A)(B)
108,3	115	94,2	98,5	1285	710	1010	640	1330	2"	2"	200	450	20031973	RTS 115 3S	(A)(B)
157,4	166	94,8	98,5	1390	760	1180	690	1500	2" 1/2	2" 1/2	250	515	20031974	RTS 166 3S	(A)(B)
207,5	217	95,6	98,5	1390	760	1180	690	1500	2" 1/2	2" 1/2	250	535	20031976	RTS 217 3S	(A)(B)
244,0	255	95,7	98,5	1524	820	1296	750	1660	2" 1/2	2" 1/2	250	715	20031977	RTS 255 3S	(A)(B)
334,7	349	95,9	98,5	1490	820	1596	750	1960	DN 80	DN 80	250	840	20031978	RTS 349 3S	(A)(B)
427,8	448	95,5	98,5	1685	890	1692	790	2085	DN 80	DN 80	300	1160	20031979	RTS 448 3S	(I)
488,0	511	95,5	98,5	1685	890	1692	790	2085	DN 80	DN 80	300	1160	20031980	RTS 511 3S	(I)
610,2	639	95,5	98,5	1820	1000	1965	900	2375	DN 100	DN 100	350	1500	20042417	RTS 639 3S	(I)
811,8	850	95,5	98,5	1920	1047	2236	980	2657	DN 125	DN 125	350	2075	20044152	RTS 850 3S	(I)
1107,8	1160	95,5	98,5	2080	1147	2533	1070	2954	DN 125	DN 125	400	2575	20047381	RTS 1160 3S	(I)
1384,8	1450	95,5	98,5	2222	1237	2754	1160	3173	DN 150	DN 150	450	3390	20047391	RTS 1450 3S	(I)

Maximum operating pressure 5 bar for 90 model.

Maximum operating pressure 6 bar for the other models.

Minimum temperature of water return (to the boiler): 50°C.

(A) Gas products only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

(B) Oil product are compliant to ErP Directive (EU Regulation N° 813/2013)

(I) For orders please contact Sales Department.

SUGGESTED COMBINATIONS LOW NOX

	GAS												OIL (*)																		
	ONE STAGE		TWO STAGE		PROGRESSIVE TWO STAGE OR MODULATING (**)						MODULATING (**)				TWO STAGE		PROGRESSIVE TWO STAGE OR MODULATING (**)														
	GULLIVER BS3	GULLIVER BS4	GULLIVER BS2D	GULLIVER BS3D	GULLIVER BS4D	GULLIVER BS2/M	GULLIVER BS3/M	GULLIVER BS4/M	RS 25/M BLU TC	RS 35/M BLU TC	RS 45/M BLU T.C.	RS 55/M BLU TC	RS 68/M BLU T.C.	RS 120/M BLU T.C.	RS 160/M BLU TC	RS 25/E BLU TC	RS 35/E BLU TC	RS 45/E BLU TC	RS 55/E BLU TC	RS 68/E BLU TC	RS 120/E BLU TC	RS 160/E BLU TC	GULLIVER BG6.1D	GULLIVER BG7.1D	RL 22 BLU TC	RL 32 BLU TC	RL 42 BLU	RL 55/M BLU TC	RL 85/M BLU TC		
Back-pressure in the combustion chamber (mbar)	3761316	3761458	3761658	3761758	3761858	3762250	3762350	3762450	3910510	3910610	3897306	20038484	3897406	3897606	3788006	3910710	3910810	3897332	20038491	3897432	3897632	3788032	20015693	20015696	20027479	20027481	20027567	3899210	3896011		
RTS 90 3S	1,0																														
RTS 115 3S	1,4																														
RTS 166 3S	1,8																														
RTS 217 3S	2,7																														
RTS 255 3S	2,9																														
RTS 349 3S	3,6																														
RTS 448 3S	2,9											○	○					○	○												
RTS 511 3S	5,4											○	○					○	○												
RTS 639 3S	5,2												○							○									○	○	
RTS 850 3S	6,7												○								○									○	
RTS 1160 3S	3,9												○	○							○										
RTS 1450 3S	4,6												○	○							○										
								4031198				4031196	4031196		20047680 (1)	4031198			4031196	4031196	4031197		20044349		4031198		4031188	4031196	4031197	4031197	4031197

BURNER FLANGES KIT

(*) Nozzles must be ordered separately, please contact Sales Department.

(**) Modulating in combination with RIELLOtech CLIMA TOP/COMFORT or with the specific electronic modulation accessory.

Note: Burners must be completed by the gas train.

Oil burners must be completed with oil nozzles.

SUGGESTED COMBINATIONS

	Back-pressure in the combustion chamber (mbar)	GAS									
		TWO STAGE					PROGRESSIVE TWO STAGE OR MODULATING WITH MECHANICAL CAM (**)				
		RS 50	RS 70 t.c.	RS 100	RS 130	RS 150	RS 50/M MZ	RS 70/M t.c.	RS 100/M	RS 130/M	RS 150/M
		3784702	3785102	3785302	3785502	20044636	3781622	3789610	3789710	3789810	20044638
RTS 448 3S	2,9	○					○				
RTS 511 3S	5,4	○					○				
RTS 639 3S	5,2		○					○			
RTS 850 3S	6,7			○					○		
RTS 1160 3S	3,9			○	○					○	
RTS 1450 3S	4,6				○ (*)	○				○ (*)	○
EXTENDED HEAD											
						20043900					20043900
BURNER FLANGES KIT											

	Back-pressure in the combustion chamber (mbar)	OIL																			
		ONE STAGE					TWO STAGE					MODULATING (**)									
		GULLIVER RG 3	GULLIVER RG 4S	GULLIVER RG 5S	RL 34/1 MZ	GULLIVER RG 3D	GULLIVER RG 4D	GULLIVER RG 5D	RL 34 MZ	RL 44 MZ	RL 50	RL 70	RL 100	RL 130	RL 28/M	RL 38/M	RL 50/M	RL 70/M	RL 100/M	RL 130/M	
		3739300	3739650	3739950	3470110	3739450	3739750	3739850	3470210	3470310	3474632	3475032	3475232	3475432	3471002	3471402	3471602	3477012	3477212	3477412	
RTS 90 3S	1,0	○				○															
RTS 115 3S	1,4	○				○															
RTS 166 3S	1,8		○				○							○							
RTS 217 3S	2,7			○				○	○					○							
RTS 255 3S	2,9				○	○				○					○						
RTS 349 3S	3,6									○						○					
RTS 448 3S	2,9										○						○				
RTS 511 3S	5,4										○						○				
RTS 639 3S	5,2											○						○			
RTS 850 3S	6,7												○						○		
RTS 1160 3S	3,9													○					○	○	
RTS 1450 3S	4,6													○					○	○	
				4031391					4031198					20043900	4031198						20043900
BURNER FLANGES KIT																					

(*) Maximum output power with this combination is 1300 kW

(**) Modulating in combination with RIELLOtech CLIMA TOP/COMFORT or with the specific electronic modulation accessory.

Note: Burners must be completed by the gas train.

Oil burners must be completed with oil nozzles.

ACCESSORIES

Description	Code
Burner flanges kit	4031188
Burner flanges kit	4031196
Burner flanges kit	4031197
Burner flanges kit	20043900
Burner flanges kit	20047680

RIELLOtech CONTROL PANELS (to be ordered separately)

Climatic control with RIELLOtech Clima Top and RIELLOtech Clima Comfort.
Thermostatic control with RIELLOtech PRIME.

RielloTech	Installation	Code	Boiler models
RIELLOtech CLIMA TOP	Vertical	4031070	All models
RIELLOtech CLIMA COMFORT	Vertical	4031069	All models
RIELLOtech PRIME	Vertical	20010820	All models
RIELLOtech PRIME ACS	Vertical	20010437	All models

(*) With kit relais, cod. 20013035

(**) With two stage burner management kit, cod. 4031067

For more details on control panels, please refer to pages 285 - 292.

Certificate

Standard **ISO 9001:2015**

Certificate No. 39 00 2281611

TÜV Rheinland Italia S.r.l. certifies:

Certificate Holder: **RIELLO S.p.A**
HQ

Via Ing. Pilade Riello, 7
37045 San Pietro di Legnago (VR)
Italy

Scope: Design, manufacture sales and service of: burners for residential heating and for commercial and industrial application; wall hung boilers and water heaters; units, floor-standing boilers and heating systems; solar collectors and solar boilers. Sales and assistance of its own brand traded products for heating; products for conditioning and cooling, products for cogeneration and trigeneration; system accessories; spare parts and accessories; moduls, solar inverter and structures for fotovoltaic systems.

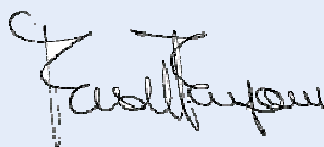
IAF sector: 18

Proof has been furnished by means of an audit that the requirements according to ISO 9001:2015 are fulfilled.

The due date for all future audits is 11-19.

Validity: The certificate is valid from 2016-12-11 until 2019-12-10.
First certification 1992.

2017-01-13



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