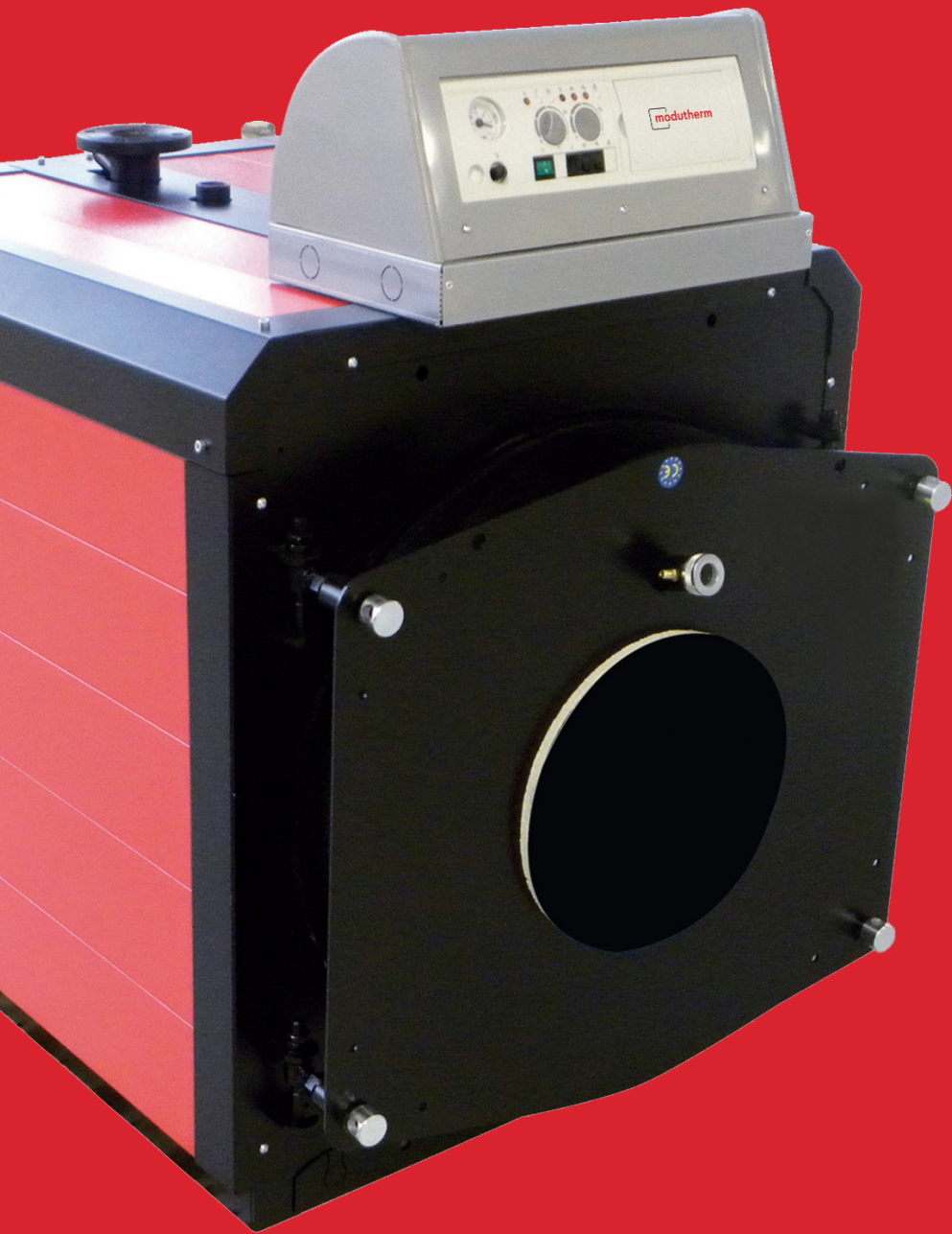


Rodi

steel shell & tube boilers for oil,
gas & dual fuel firing



MODELS

Rodi

HR

OUTPUT
(kW)

420 - 3500

Rodi

The Rodi pressure jet boiler is available in two models (Rodi & HR) with a range of 16 outputs from 420-3500kW. The standard model is available for oil, gas and dual fuel firing, whilst the HR is only suitable for gas firing and comes complete with a patented heat recovery unit. The Rodi range of boilers can also be supplied with matched burners.

The boiler is a reversed flame, three pass steel shell and tube, low temperature hot water boiler. It has a standard working pressure of 6 bar with higher pressure models available on request. Both boiler models are suitable for flow temperatures up to 90°C and the standard model has a gross efficiency up to 83% whilst the HR model has a gross efficiency up to 86%.



key features

- Patented heat recovery unit (Model: HR)
- Front door with reversable opening
- Rear door can be opened for flue gas pipe cleaning
- Control panel including two stage control, heating pump control, re-circulation pump control, DHW control via optional equipment, run & over temperature fault indicator



OUTPUT

420 - 1300

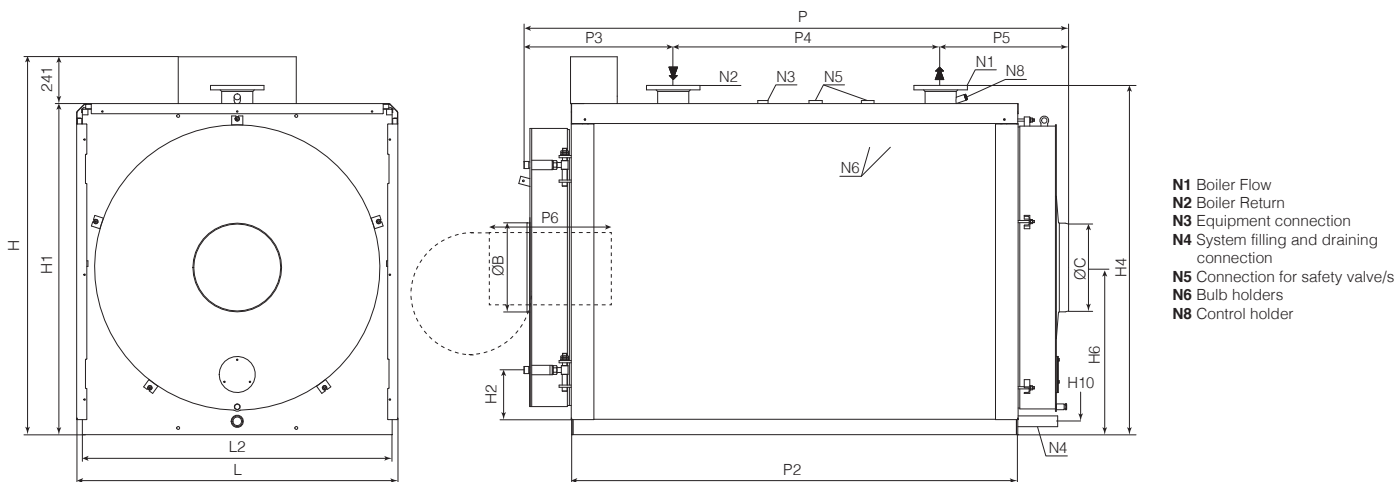


OUTPUT

1400 - 3500

warranty

- 5 year warranty* on boiler body
- 2 year warranty* on all other components



MODEL	output		WxHxD	dry weight (kg)	
	max (kW)	min (kW)		Rodi	HR
400	420	210	940x1190x1872	584	600
500	500	250	1160x1380x1950	853	871
620	620	310	1160x1380x2240	963	981
750	750	375	1290x1510x2255	1205	1230
850	850	425	1290x1510x2255	1205	1230
950	950	475	1290x1510x2500	1417	1446
1020	1020	510	1440x1660x2500	1843	1880
1200	1200	600	1440x1660x2500	1843	1880
1300	1300	650	1440x1660x2500	1843	1880

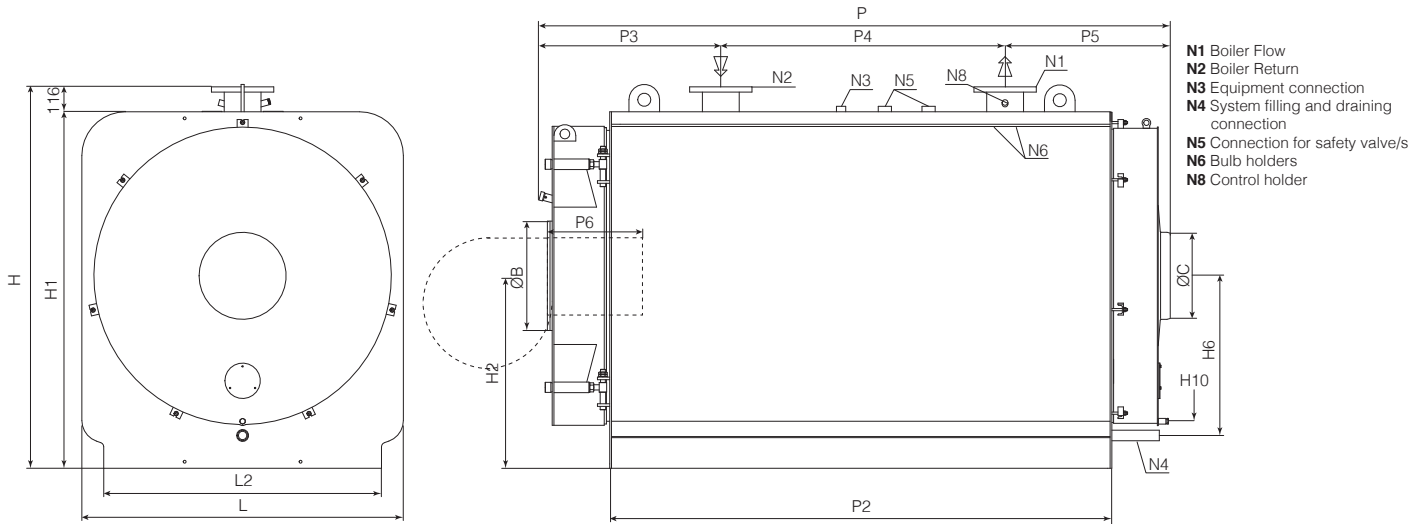
dimensions

MODEL	H	H1	H2	H4	H6	H10	L	L2	P	P2	P3	P4	P5	P6
	(mm)													
400	1190	1015	500	1095	500	50	940	890	1872	1502	600	850	422	230-280
500	1380	1205	610	1285	610	60	1160	1110	1950	1502	663	850	437	270-320
620	1380	1205	610	1285	610	60	1160	1110	2240	1792	663	1150	427	270-320
750	1510	1335	675	1417	675	60	1290	1240	2255	1753	704	1100	451	270-320
850	1510	1335	675	1417	675	60	1290	1240	2255	1753	704	1100	451	270-320
950	1510	1335	675	1417	675	60	1290	1240	2500	2003	704	1200	596	270-320
1020	1660	145	750	1568	750	60	1440	1390	2500	2003	704	1200	596	270-320
1200	1660	1485	750	1568	750	60	1440	1390	2500	2003	704	1200	596	270-320
1300	1660	1485	750	1568	750	60	1440	1390	2500	2003	704	1200	596	270-320

connections

MODEL	ØB	ØC	N1	N2	N3	N4	N5	N6/N8
	(mm)							
400	225	250	80	80	1"	1"	1¼"	½"
500	225	300	80	80	1"	1¼"	1¼"	½"
620	225	300	80	80	1"	1¼"	1¼"	½"
750	280	350	100	100	1"	1¼"	1½"	½"
850	280	350	100	100	1"	1¼"	1½"	½"
950	280	350	100	100	1"	1¼"	1½"	½"
1020	280	400	125	125	1"	1¼"	1½"	½"
1200	280	400	125	125	1"	1¼"	1½"	½"
1300	280	400	125	125	1"	1¼"	1½"	½"

*one connection only



MODEL	output		HxWxD	dry weight (kg)	
	max (kW)	min (kW)		Rodi	HR
1400	1400	700	1470x1746x2886	2600	2665
1600	1600	800	1470x1746x2886	2600	2665
1800	1800	900	1470x1746x3096	2750	2815
2000	2000	1000	1600x1876x3220	3650	3730
2400	2400	1200	1600x1876x3480	3900	3980
3000	3000	1500	1870x2146x3480	5200	5306
3500	3500	1750	1870x2146x3935	5700	5806

dimensions

MODEL	H	H1	H2	H6	H10	L	L2	P	P2	P3	P4	P5	P6
	(mm)												
1400	1746	1630	880	880	150	1470	1270	2886	2300	831	1300	755	350-400
1600	1746	1630	880	880	150	1470	1270	2886	2300	831	1300	755	350-400
1800	1746	1630	880	880	150	1470	1270	3096	2510	771	1850	475	450-500
2000	1876	1760	945	945	150	1600	1400	3220	2510	903	1550	767	450-500
2400	1876	1760	945	945	150	1600	1400	3480	2770	903	1950	627	450-500
3000	2146	2030	1080	1080	150	1870	1670	3480	2770	903	2050	537	450-500
3500	2146	2030	1080	1080	150	1870	1670	3935	3225	903	2050	982	450-500

connections

MODEL	ØB	ØC	N1	N2	N3	N4	N5	N6/N8
	(mm)							
1400	320	400	150	150	1"	1¼"	1½"	½"
1600	320	400	150	150	1"	1¼"	1½"	½"
1800	320	400	150	150	1"	1¼"	1½"	½"
2000	360	500	200	200	1"	1¼"	2"	½"
2400	360	500	200	200	1"	1¼"	2"	½"
3000	400	550	200	200	1"	1¼"	2"	½"
3500	400	550	200	200	1"	1¼"	2"	½"

Rodi

		MODEL																
		400	500	620	750	850	950	1020	1200	1300	1400	1600	1800	2000	2400	3000	3500	
power	Maximum boiler output	KW	420	500	620	750	850	950	1020	1200	1300	1400	1600	1800	2000	2400	3000	3500
	Minimum boiler output	KW	210	250	310	375	425	475	510	600	650	700	800	900	1000	1200	1500	1750
	Maximum boiler input	KW	455	542	672	813	921	1030	1106	1301	1409	1517	1733	1950	2167	2600	3250	3792
	Gross Efficiency @ 100% load (Nat Gas G20)	%	83.23	83.12	83.13	83.12	83.15	83.10	83.09	83.11	83.13	83.15	83.19	83.17	83.15	83.17	83.17	83.16
	Gross Efficiency @ 30% load (Nat Gas G20)	%	82.71	81.73	81.70	81.63	81.75	81.72	81.68	81.69	81.64	81.41	81.46	81.54	81.36	81.63	81.59	81.27
	Gross Seasonal Efficiency (Nat Gas G20)	%	82.81	81.99	81.97	81.91	82.01	81.98	81.94	81.96	81.92	81.74	81.79	81.85	81.70	81.92	81.89	81.63
	Gross Efficiency @ 100% load (LPG G31)	%	85.08	84.96	84.97	84.96	85.00	84.94	84.93	84.95	84.97	85.00	85.04	85.02	85.00	85.02	85.02	85.01
	Gross Efficiency @ 30% load (LPG G31)	%	84.55	83.54	83.52	83.44	83.56	83.53	83.49	83.51	83.45	83.22	83.27	83.35	83.17	83.44	83.40	83.07
	Gross Seasonal Efficiency (LPG G31)	%	84.65	83.81	83.79	83.73	83.84	83.80	83.76	83.78	83.74	83.56	83.60	83.67	83.51	83.74	83.70	83.44
	Gross Efficiency @ 100% load (Oil 35 sec)	%	86.56	86.44	86.45	86.44	86.48	86.42	86.41	86.43	86.45	86.48	86.51	86.49	86.48	86.49	86.49	86.49
	Gross Efficiency @ 30% load (Oil 35 sec)	%	86.02	85.00	84.97	84.89	85.01	84.99	84.94	84.96	84.90	84.67	84.71	84.80	84.61	84.89	84.85	84.52
Gross Seasonal Efficiency (Oil 35 sec)		86.12	85.27	85.25	85.19	85.29	85.26	85.22	85.24	85.20	85.01	85.06	85.12	84.97	85.20	85.16	84.89	
hydraulic	Water content	litres	360	540	645	855	855	950	1200	1200	1500	1500	1650	2000	2300	3150	3650	
	System design flow rate (12°C ΔT)	m³/h	30	36	44	54	61	68	73	86	93	100	115	129	143	172	215	251
	System design flow rate (15°C ΔT)	m³/h	24	29	36	43	49	54	58	69	75	80	92	103	115	138	172	201
	System design flow rate (20°C ΔT)	m³/h	18	22	27	32	37	41	44	52	56	60	69	77	86	103	129	151
	Water side pressure loss (12°C ΔT)	kPa	4.2	6.0	9.2	5.5	7.1	8.9	4.2	5.8	6.8	3.8	5.0	6.3	2.5	3.5	5.5	7.5
	Water side pressure loss (15°C ΔT)	kPa	2.7	3.8	5.9	3.5	4.5	5.7	2.7	3.7	4.4	2.4	3.2	4.0	1.6	2.2	3.5	4.8
	Water side pressure loss (20°C ΔT)	kPa	1.5	2.2	3.3	2.0	2.6	3.2	1.5	2.1	2.4	1.4	1.8	2.3	0.9	1.3	2.0	2.7
Maximum flow temperature	°C	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
fuel	Gas flow rate NG (G20) - maximum	m³/h	48.11	57.35	71.11	86.03	97.46	108.99	117.04	137.67	149.10	160.53	183.39	206.35	229.31	275.13	343.92	401.27
	Gas flow rate LPG (G31) - maximum	m³/h	35.32	42.11	52.21	63.16	71.55	80.02	85.92	101.07	109.46	117.85	134.63	151.49	168.35	201.99	252.48	294.59
	Oil flow rate (35sec) - maximum	Kg/h	38.37	45.71	56.67	68.56	77.67	86.86	93.27	109.71	118.82	127.93	146.15	164.45	182.74	219.26	274.08	319.78
flue	Flue gas temperature Gas (G20), (G31)	°C	182	185	185	185	184	185	186	185	185	184	183	184	184	184	184	
	Flue gas temperature Oil (35sec)	°C	185	188	188	188	187	188	189	188	188	187	186	186	187	186	186	187
	Maximum flue gas capacity NG (G20)	kg/h	656.36	781.86	969.39	1172.8	1328.6	1485.8	1595.5	1876.8	2032.6	2188.4	2499.9	2813.0	3126.0	3750.6	4688.3	5470.2
	Maximum flue gas capacity LPG (G31)	kg/h	747.03	889.87	1103.3	1334.8	1512.1	1691.1	1815.9	2136.0	2313.3	2490.7	2845.3	3201.6	3557.9	4268.8	5336.0	6225.8
	Maximum flue gas capacity Oil (35sec)	kg/h	665.24	792.44	983.5	1188.7	1346.6	1505.9	1617.1	1902.2	2060.1	2218.0	2533.8	2851.0	3168.3	3801.4	4751.7	5544.2
Minimum flue draught	Pa	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	
Electrical supply (230/1/50)	A	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	

Rodi HR

		MODEL																
		400	500	620	750	850	950	1020	1200	1300	1400	1600	1800	2000	2400	3000	3500	
power	Maximum boiler output	KW	420	500	620	750	850	950	1020	1200	1300	1400	1600	1800	2000	2400	3000	3500
	Minimum boiler output	KW	210	250	310	375	425	475	510	600	650	700	800	900	1000	1200	1500	1750
	Maximum boiler input	KW	441	524	649	786	891	997	1069	1259	1364	1468	1675	1885	2094	2518	3142	3670
	Gross Efficiency @ 100% load (Nat Gas G20)	%	85.81	85.97	86.07	85.97	85.96	85.86	85.97	85.87	85.87	85.93	86.06	86.04	86.05	85.87	86.03	85.93
	Gross Efficiency @ 30% load (Nat Gas G20)	%	85.96	86.23	86.41	86.42	86.32	86.31	86.32	86.32	86.23	86.38	86.32	86.23	86.32	85.96	86.14	86.38
	Gross Seasonal Efficiency (Nat Gas G20)	%	85.93	86.18	86.34	86.34	86.25	86.22	86.25	86.24	86.16	86.29	86.27	86.19	86.27	85.94	86.12	86.29
	Gross Efficiency @ 100% load (LPG G31)	%	87.72	87.88	87.98	87.88	87.86	87.76	87.88	87.78	87.78	87.84	87.97	87.95	87.96	87.78	87.94	87.84
	Gross Efficiency @ 30% load (LPG G31)	%	87.86	88.14	88.32	88.34	88.23	88.22	88.23	88.24	88.14	88.30	88.23	88.14	88.23	87.86	88.05	88.30
	Gross Seasonal Efficiency (LPG G31)	%	87.84	88.09	88.26	88.25	88.16	88.14	88.17	88.15	88.07	88.21	88.18	88.10	88.18	87.85	88.03	88.21
Standby losses	%	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
hydraulic	Water content	litres	360	540	645	855	855	950	1200	1200	1200	1500	1500	1650	2000	2300	3150	3650
	System design flow rate (12°C ΔT)	m³/h	30	36	44	54	61	68	73	86	93	100	115	129	143	172	215	251
	System design flow rate (15°C ΔT)	m³/h	24	29	36	43	49	54	58	69	75	80	92	103	115	138	172	201
	System design flow rate (20°C ΔT)	m³/h	18	22	27	32	37	41	44	52	56	60	69	77	86	103	129	151
	Water side pressure loss (12°C ΔT)	kPa	4.2	6.0	9.2	5.5	7.1	8.9	4.2	5.8	6.8	3.8	5.0	6.3	2.5	3.5	5.5	7.5
	Water side pressure loss (15°C ΔT)	kPa	2.7	3.8	5.9	3.5	4.5	5.7	2.7	3.7	4.4	2.4	3.2	4.0	1.6	2.2	3.5	4.8
	Water side pressure loss (20°C ΔT)	kPa	1.5	2.2	3.3	2.0	2.6	3.2	1.5	2.1	2.4	1.4	1.8	2.3	0.9	1.3	2.0	2.7
Maximum flow temperature	°C	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
fuel	Gas flow rate NG (G20) - maximum	m³/h	46.67	55.45	68.68	83.17	94.29	105.50	113.12	133.23	144.34	155.34	177.25	199.47	221.59	266.46	332.49	388.36
	Gas flow rate LPG (G31) - maximum	m³/h	34.26	40.71	50.42	61.06	69.22	77.45	83.05	97.81	105.97	114.05	130.13	146.44	162.68	195.62	244.1	285.11
flue	Flue gas temperature Gas (G20), (G31)	°C	127	122	120	122	123	126	122	125	125	124	120	121	120	125	121	124
	Maximum flue gas capacity NG (G20)	kg/h	611.24	726.3	899.5	1089.4	1235.0	1381.9	1481.7	1745.0	1890.6	2034.7	2321.6	2612.7	2902.4	3490.1	4354.9	5086.8
	Maximum flue gas capacity LPG (G31)	kg/h	694.69	825.4	1022.4	1238.2	1403.6	1570.5	1684.0	1983.3	2148.7	2312.5	2638.6	2969.4	3298.6	3966.5	4949.5	5781.2
	Minimum flue draught	Pa	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0	< 0
Electrical supply (230/1/50)	A	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	



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