Rendamax
HEATNOLOGY

R3401-R3410

High Efficiency Condensing Boilers

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CFS

CONSOLIDATED
FIRE & STEAM

R3401 - R3406

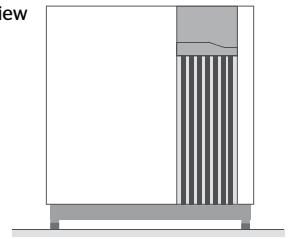
High output stainless steel premix gas fired condensing boilers

- Compact dimensions and light weight
- Modulation ratio 3.5:1
- Low water content
- Up to 8 boilers in cascade
- Working pressure 8bar
- Option for room sealed flue

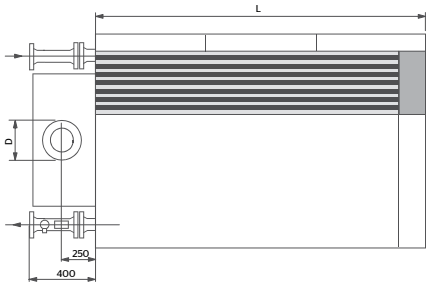
Technical Data

Boiler Model		R3401	R3402	R3403	R3404	R3405	R3406
Nominal heat output 80/60°C	kW	164/657	182/729	213/853	241/965	270/1078	297/1189
Nominal heat output 50/30°C	kW	662	739.3	864.7	978.8	1092.9	1206.1
Nominal heat input (gross)	kW	779.22	870.24	1017.87	1152.18	1286.49	1419.69
Nominal heat input (net)	kW	702	784	917	1038	1159	1279
Weight empty/full	kg	675/725	740/793	840/910	950/1025	1070/1150	1200/1285
Annual efficiency (nng 75/60°C)	%	100	100	100	100	100	100
NOx level @ 0% O2 (min/max)	mg/kWh	61.4	61.4	61.4	61.4	61.4	61.4

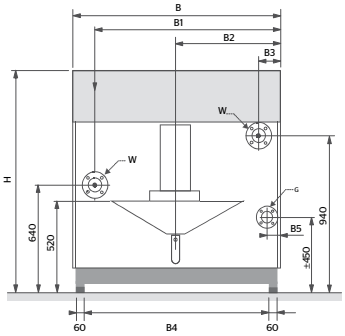
Front view



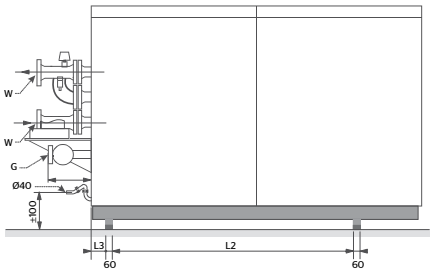
Plan view



Rear view



Side view



Clearances mm
Front & Rear - 1000
Sides - Minimum 450;
800 at one side recommended

Model	R3401	R3402	R3403	R3404	R3405	R3406
B mm	1330	1330	1130	1130	1330	1330
B1 mm	1160	1210	1003	1053	1203	1253
B2 mm	665	665	565	565	665	665
B3 mm	170	120	127	77	127	77
B4 mm	1146	1146	946	946	1146	1146
B5 mm	115	65	115	65	115	65
D mm	300	350	350	400	400	400

Model	R3401	R3402	R3403	R3404	R3405	R3406
G	Rp2"	Rp2"	Rp2"	Rp2"	DN65 PN16	DN65 PN16
H mm	1355	1355	1355	1355	1355	1355
L mm	2265	2265	2653	2653	2658	2658
L2 mm	700	700	1166	1166	1166	1166
L3 mm	108	108	88	88	88	88
W1 ret'n	DN65 PN16	DN65PN16	DN80PN16	DN80PN16	DN80PN16	DN80PN16
W2 flow	DN65 PN16	DN65PN16	DN80PN16	DN80PN16	DN80PN16	DN80PN16

R3401 - R3405

Technical Data

		R3401	R3402	R3403	R3404	R3405
Nominal heat output at 80-60ºC max/min	kW	656/164	733/183	857/213	971/242	1084/270
Nominal heat output at 75-60ºC max/min	kW	657/164	734/183	858/213	972/242	1085/270
Nominal heat output at 40/30ºC max/min	kW	663/181	741/202	867/236	981/268	1095/298
Nominal heat input Hi max/min*	kW	702/176	784/196	917/229	1038/260	1159/290
Efficiency at 80/60ºC	%	93.5				
Efficiency at 40/30ºC	%	94.5				
Annual efficiency (NNG 75/60ºC)	%	100.0				
Standstill losses (Twater = 70ºC)	%	0.2				
Gas consumption H-gas max/min (10,9 kWh/m³)	m³/h	64.5/16.2	71.9/18.0	84.1/21.0	95.2/23.8	106.3/26.6
Gas consumption LPG max/min (12,8 kWh/kg)	kg	54.9/13.8	61.2/15.3	71.6/17.9	81.1/20.3	90.5/22.6
Gas pressure H-gas	mbar	20		35		
Gas pressure LPG	mbar	30/50				
Maximum gas pressure	mbar	100				
Flue gas temperature at 80/60ºC max/min	ºC	165/70				
Flue gas temperature at 40/30ºC max/min	ºC	135/60				
Flue gas quantity max/min*	m³/h	1423/356	1580/395	1848/462	2091/523	2334/584
CO_2 level main burner natural gas H max/min	%	10.0/9.3				
CO_2 level main burner liguid gas P max/min	%	11.0/11.0				
CO_2 level pilot burner natural gas H max/min	%	10.0/10.2				
CO_2 level pilot burner liguid gas P max/min	%	11.0/11.2				
NOx level max/min	mg/kWh	61.4/22.0				
CO level max/min	mg/kWh	9.8/3.3				
Max. permissible flue resistance max/min	Pa	150				
Water volume	l	50	53	70	75	80
Water pressure max/min	bar	8/1				
Max. water temperature (High limit thermostat)	ºC	100				
Maximum temperature setpoint	ºC	90				
Nominal water flow at dT=20K	m³/h	28.5	31.6	37.0	41.8	46.8
Hydraulic resistance at nominal water flow	kPa	46	53	36	43	50
Electrical connection	V	400				
Frequency	Hz	50				
Mains connection fuse	A	16		20		
IP class	-	IP20				
Power consumption boiler max/min (excl. pump)	W	900	900	1270	1270	1270
Power consumption 3-step pump (optional)	W	980	1010	1020	1450	1500
Weight (empty)	kg	675	740	840	950	1070
Noise level at 1 meter distance	dB(A)	64				
Ionisation current minimum	uA	6				
PH value condensate	-	3.2				
CE certification code	-	CE-0063AR3514				
Water connections	-	DN65 PN16		DN80 PN16		
Gas connection	-	R 2"				DN65 PN16
Flue gas connection	mm	300	350		400	
Air intake connection (for room sealed use)	mm	250	300		355	
Condensate connection	mm	40				

R3407 - R3410

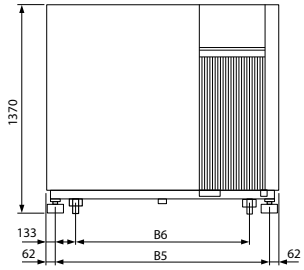
Very high output stainless steel premix gas fired condensing boilers

Rendamax 3400 boilers use a downward firing pre-mix, watercooled burner that is fully variable from 25% to 100% which, combined with precise Gas to Air mixing results in ultra clean emissions in the range of < 53 mg/kWh NOx (30ppm DAF), < 19 mg/kWh CO (15 ppm DAF). This coupled with direct-onboiler weather compensation allows efficiencies in the range of 104.5% nett to be returned.

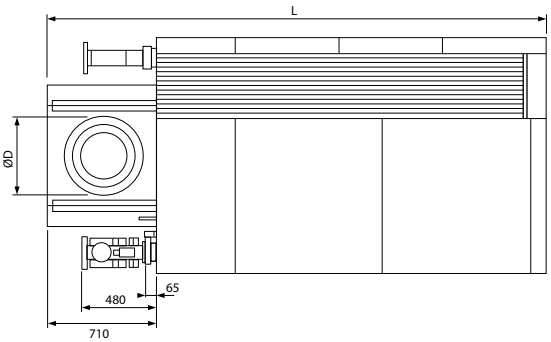
- Compact dimensions and light weight
- Modulation ratio 3.5:1
- Low water content
- Fitted with swivel castors for ease of positioning
- Up to 8 boilers in cascade
- Working pressure 8bar
- Option of boiler pump

Clearances mm
Front & Rear – 1000
Sides – Minimum 450;
800 at one side recommended

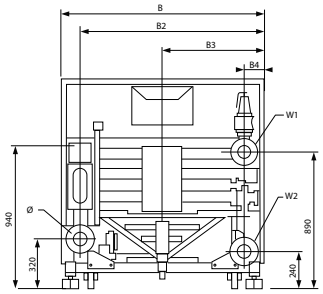
Front view



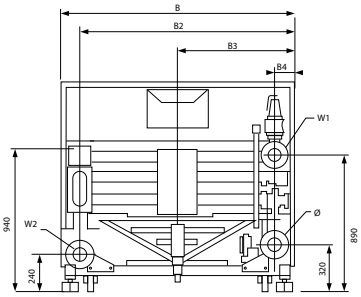
Plan view



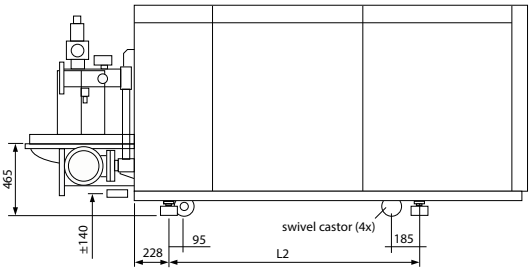
Rear view
R3407-R3408



Rear view
R3409-R3410



Side view



Model	R3407	R3408	R3409	R3410
L mm	2755	3265	3265	3265
B mm	1530	1330	1530	1530
B2 mm	1407	1207	1357	1407
B3 mm	765	665	765	765
B4 mm	126.5	126.5	176.5	126.5
B5 mm	1406	1206	1406	1406

Model	R3407	R3408	R3409	R3410
B6 mm	1140	940	1140	1140
D mm	450	450	500	500
W1 mm	DN80 PN16	DN80 PN16	DN80 PN16	DN80 PN16
W2 mm	DN80 PN16	DN80 PN16	DN80 PN16	DN80 PN16
G	DN65 PN16	DN65 PN16	DN80 PN16	DN80 PN16

R3406 - R3410

Rendamax HEATNOLOGY

Technical Data

		R3406	R3407	R3408	R3409	R3410
Nominal heat output at 80-60°C max/min	kW	1196/2	1309/326	1496/373	1683/419	1870/466
Nominal heat output at 75-60°C max/min	kW	1197/2	1310/326	1498/373	1685/419	1872/466
Nominal heat output at 40/30°C max/min	kW	1209/3	1323/360	1512/412	1701/463	1890/515
Nominal heat input Hi max/min*	kW	1279/3	1400/350	1600/400	1800/450	2000/500
Efficiency at 80/60°C	%	93.5				
Efficiency at 40/30°C	%	94.5				
Annual efficiency (NNG 75/60°C)	%	100.0				
Standstill losses (Twater = 70°C)	%	0.2				
Gas consumption H-gas max/min (10,9 kWh/m³)	m³/h	117.3/29	128.4/32.1	146.7/36.7	165.1/41.3	183.4/45.9
Gas consumption LPG max/min (12,8 kWh/kg)	kg	99.9/	108.7/27.2	124.3/31.1	139.8/35.0	155.3/38.8
Gas pressure H-gas	mbar	35	50			
Gas pressure LPG	mbar	30/50	50			
Maximum gas pressure	mbar	100				
Flue gas temperature at 80/60°C max/min	°C	165/70				
Flue gas temperature at 40/30°C max/min	°C	135/60				
Flue gas quantity max/min*	m³/h	2578/6	2825/706	3227/807	3631/908	4035/1009
CO_2 level main burner natural gas H max/min	%	10.0/9.3				
CO_2 level main burner liguid gas P max/min	%	11.0/11.0				
CO_2 level pilot burner natural gas H max/min	%	10.0/10.2				
CO_2 level pilot burner liguid gas P max/min	%	11.0/11.2				
NOx level max/min	mg/kWh	61.4/22.0				
CO level max/min	mg/kWh	9.8/3.3				
Max. permissible flue resistance max/min	Pa	150				
Water volume	l	85	97	109	116	123
Water pressure max/min	bar	8/1				
Max. water temperature (High limit thermostat)	°C	100				
Maximum temperature setpoint	°C	90				
Nominal water flow at dT=20K	m³/h	51	56.1	64.1	72.1	80.1
Hydraulic resistance at nominal water flow	kPa	58	91	60	130	165
Electrical connection	V	400				
Frequency	Hz	50				
Mains connection fuse	A	20	C25			
IP class	-	IP20				
Power consumption boiler max/min (excl. pump)	W	1270	1910	2330	2520	1270
Power consumption 3-step pump (optional)	W	1500	4000		7500	
Weight (empty)	kg	1200	1210	1525	1665	1745
Noise level at 1 meter distance	dB(A)	64				
Ionisation current minimum	uA	6				
PH value condensate	-	3.2				
CE certification code	-	CE-0063AR3514				
Water connections	-	DN80 PN16				
Gas connection	-	DN65 PN16			DN80 PN16	
Flue gas connection	mm	400	450		500	
Air intake connection (for room sealed use)	mm	355	-			
Condensate connection	mm	40				

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