



Prex H 3 LN

Three pass flues steel boiler

- Monobloc generator, 3-pass flues, small thermal load, vertical layout and extremely compact front dimensions. Homologated for systems until 100°C
- Ready for coupling with jet burners, operating with gas or oil and with low polluting emissions
- Large combustion chamber with floating cooled back
- Flues bundle for second and third flue-pass is situated in the top side of the combustion chamber. Flues tubes protudes from the plate, in order to avoid condensation
- Steel turbolators, increasing thermal efficiency of the generator. They have been carefully designed not to worsen flues pressure drop
- High efficiency. Ranges between 94,7% and 96,3% on LCV (t_{avg} 70°C)
- Max operating pressure: 6 bars. Higher pressure specifications upon demand
- Vertical connection are threaded until model 240 and flanged until model 600
- Completely insulated front door and reversible opening (right and left), thanks to an innovating mechanism on boiler body, with micrometric adjustment. Equipped with flame inspection hole and test point for combustion chamber back pressure
- Models with effective output less than or equal to 400 kW are exclusively suited for replacements according to that set forth by art. 1, paragraph 2, letter G of EU regulation 813/2013

Boiler code	Boiler model
ORD099XD	PREX H3 70 LN (UN)
ORD000XD	PREX H3 92 LN (UN)
ORD100XD	PREX H3 107 LN (UN)
ORD200XD	PREX H3 152 LN (UN)
ORD300XD	PREX H3 190 LN (UN)
ORD400XD	PREX H3 240 LN (UN)
ORD600XD	PREX H3 320 LN (UN)
ORD800XD	PREX H3 399 LN (UN)
ORDB00XD	PREX H3 500 LN (UN)
ORDD00XD	PREX H3 600 LN (UN)
ORDE00XD	PREX H3 720 LN (UN)
ORDF00XD	PREX H3 820 LN (UN)
ORDG00XD	PREX H3 940 LN (UN)
ORDH00XD	PREX H3 1060 LN (UN)
ORDJ00XD	PREX H3 1250 LN (UN)
ORDL00XD	PREX H3 1480 LN (UN)
ORDP00XD	PREX H3 1890 LN (UN)
ORDS00XD	PREX H3 2360 LN (UN)
ORDT00XD	PREX H3 2800 LN (UN)
ORDU00XD	PREX H3 3200 LN (UN)

0Q2K10XA	Thermostatic control control panel *
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* The generator is not supplied as per standard with control panel. It must be ordered to complete the supply

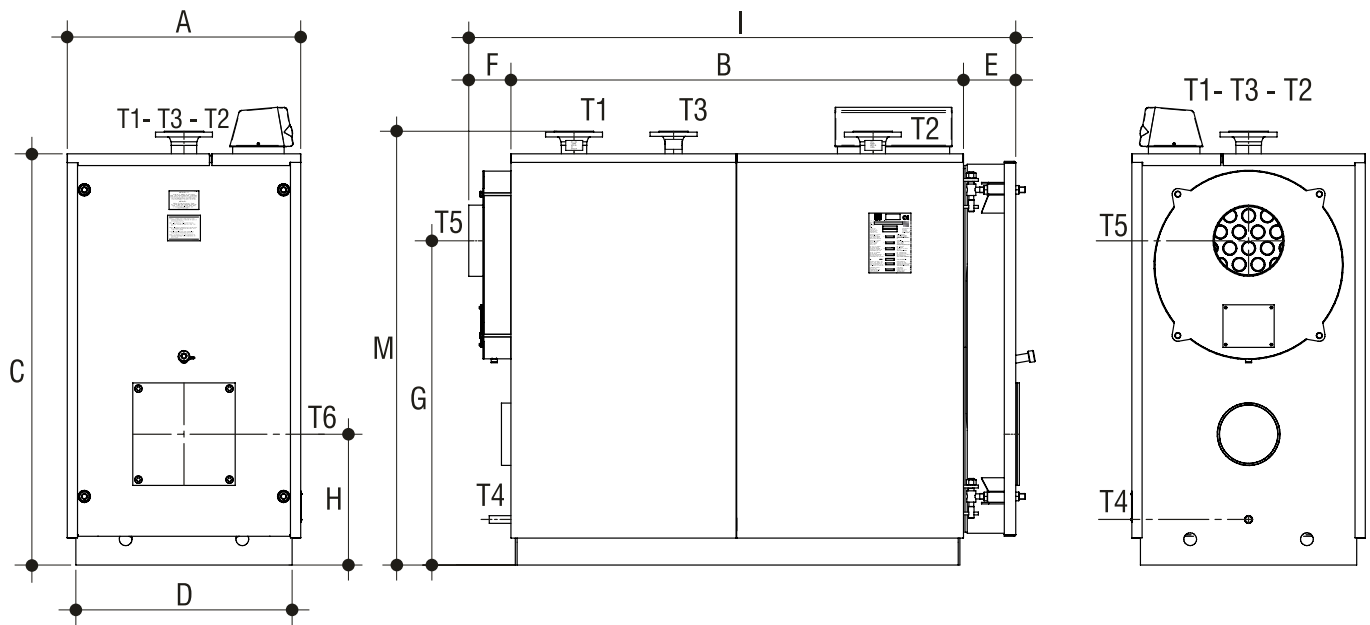
Technical data

MODEL		70	92	107	152	190	240	320	399	500	600
Useful potential (min-max)	kW	46-70	60-92	70-107	100-152	137-190	160-240	196-320	260-399	341-500	390-600
Firebox potential (min-max)	kW	48-73.9	62.7-97.1	73.2-112.9	104.7-160.5	143.8-200.8	167.8-252.9	205.2-335.7	271.5-417.4	354.6-522.8	403.8-627.2
Total boiler capacity	l	110	110	171	171	245	287	435	435	576	576
Flue gas side pressure drops	mbar	0.54	0.89	1.2	1.65	1.8	2.4	3.3	4.4	5.43	6.2
Max operating pressure	bar	6	6	6	6	6	6	6	6	6	6
Empty weight	kg	236	236	332	332	460	524	833	833	1146	1146

Model		720	820	940	1060	1250	1480	1890	2360	2800	3200
Rated potential (min-max)	kW	468-720	533-820	611-940	689 - 1060	813 - 1250	962 - 1480	1229 - 1890	1535-2360	1820-1887.5	2080-3200
Firebox potential (min-max)	kW	484.8-752.5	522.3-856.7	633.4-981.6	714.5-1106.3	843.7-1303.6	999.1-1542.0	1278.1-1919.3	1598.9-2449.8	1887.5-2913.6	2155.4-3325.3
Total boiler capacity	l	866	866	1,506	1,506	1,822	2,034	2,509	2,783	3,355	3,697
Flue gas side pressure drops	mbar	5.9	6.7	6.3	7.2	7	7.4	7.2	7.8	7.5	9
Max operating pressure	bar	6	6	6	6	6	6	6	6	6	6
Empty weight	kg	1,557	1,584	2,329	2,329	2,601	2,871	3,552	4,041	5,690	6,180

Models with effective output less than or equal to 400 kW are only suited for industrial applications

Dimensions (in mm)



Model			70	92	107	152	190	240	320	399	500	600
DIMENSIONS	A	mm	670	670	670	670	760	760	820	820	855	855
	B	mm	770	770	1.190	1.190	1.190	1.390	1.590	1.590	1.990	1.990
	C	mm	1.116	1.116	1.116	1.116	1.271	1.271	1.456	1.456	1.546	1.546
	D	mm	610	610	610	610	700	700	760	760	790	790
	E	mm	146	146	146	146	165	165	184	184	184	184
	F	mm	152	152	152	152	152	152	152	152	152	152
	G	mm	880	880	880	880	985	985	1.140	1.140	1.225	1.225
	H	mm	390	390	390	390	420	420	460	460	480	480
	I	mm	1.135	1.135	1.555	1.555	1.570	1.770	1.990	1.990	2.390	2.390
	M	mm	1.185	1.185	1.185	1.185	1.340	1.340	1.525	1.525	1.615	1.615
CONNECTIONS	delivery (T1)		2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	DN 80	DN 80	DN 100	DN 100
	return (T2)		2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2	DN 80	DN 80	DN 100	DN 100
	safety devices (T3)		1" 1/2	1" 1/2	1" 1/2	1" 1/2	1" 1/2	1" 1/2	DN 50	DN 50	DN 65	DN 65
	drain (T4)		3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	flue gas outlet (T5 Ø)		160	160	160	160	220	220	250	250	300	300
	burner connection (T6 Ø)		145	145	145	150	150	150	240	240	240	210
	nozzle min/max lg. (T6)		250/320	250/320	250/320	250/320	250/320	250/320	250/320	290/360	290/360	320/390