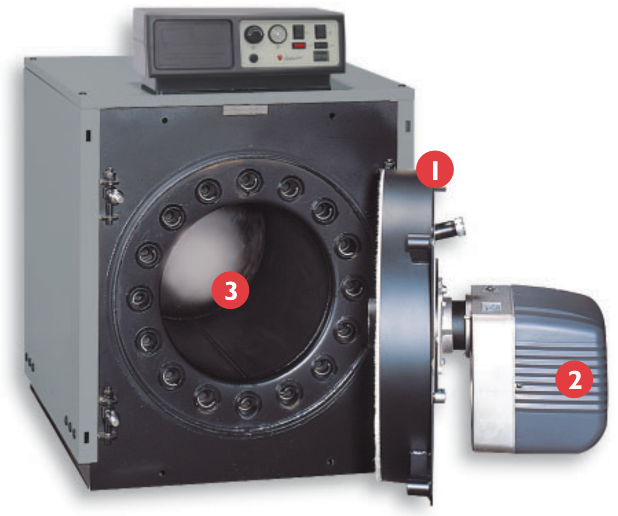
Special characteristics

The door to total adjustment

It is essential that the rear door ensures optimal coupling with the pressurised combustion chamber.
The slightest blow-by will cause high-temperature gas to escape. The special construction of the door, combined with ceramic fibre insulation (which provides low thermal inertia and high efficiency) and the possibility of adjusting the door to any position (it can be raised, lowered or tilted), guarantee perfect seal and prevent leakage of combusted gases with the consequent deformation of the door.

1. Door with right or left opening.
2. Gas oil burner.
3. Combustion chamber.



Door and combustion chamber

Insulation to reduce heat loss

MEGA PREX N boiler insulation consists of an 80-mm-thick layer of glass fibre on the boiler body. It is also protected by an external casing with a powder-paint coating, which is mounted after installation.
These limit heat loss and increase efficiency.

Insulation

Heat adjustment for greater economy

Additional energy savings can be made with MEGA PREX N boilers as they are set up for the installation (on request) of a KIT for analogue digital heat adjustment. This controls and adjusts boiler and domestic hot water temperatures by taking into consideration both the ambient temperature and the external temperature.

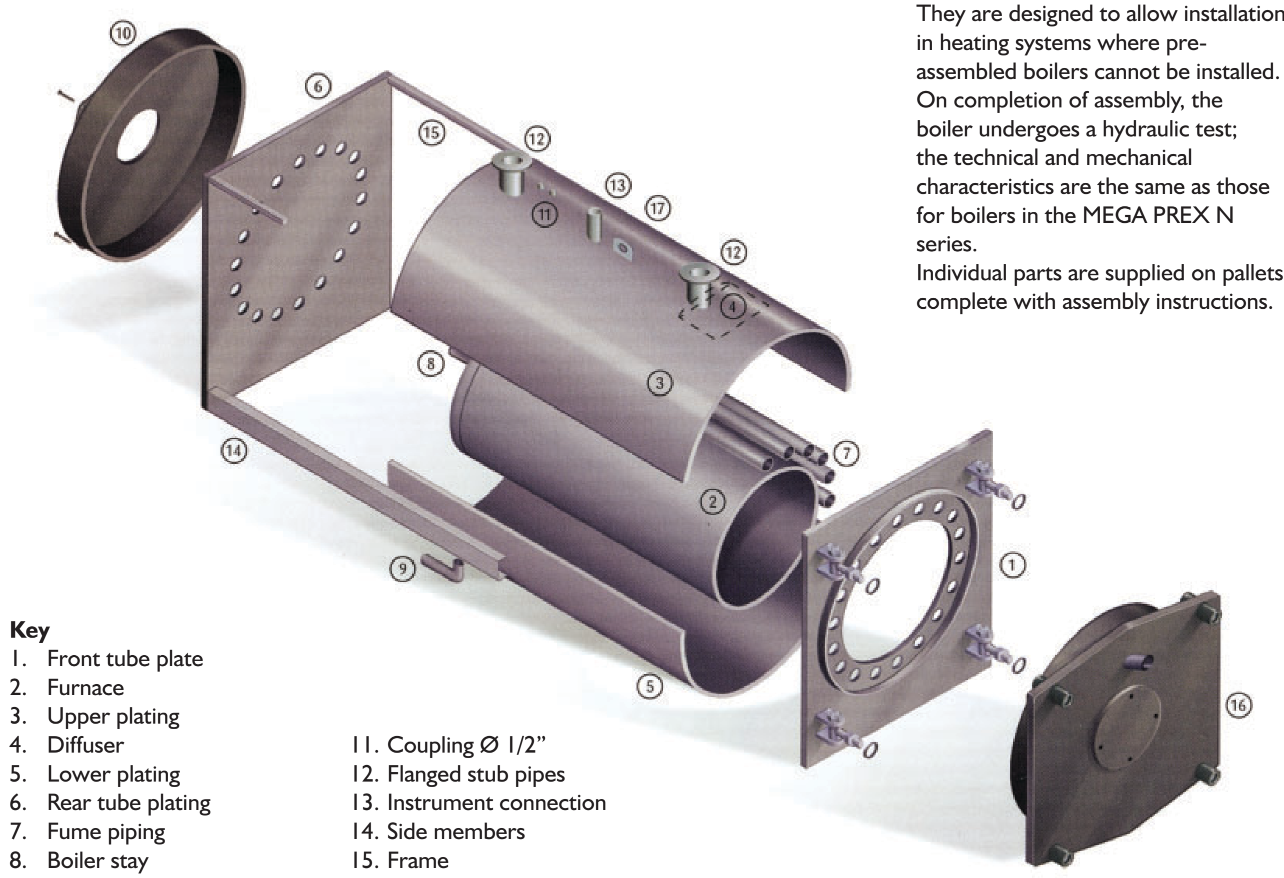
Heat adjustment Kit

Lamborghini CALORECLIMA

UK

MEGA PREX N - MEGA PREX NK

MEGA PREX NK steel boilers "for assembly"



MEGA PREX NK

They are designed to allow installation in heating systems where pre-assembled boilers cannot be installed.
On completion of assembly, the boiler undergoes a hydraulic test; the technical and mechanical characteristics are the same as those for boilers in the MEGA PREX N series.
Individual parts are supplied on pallets complete with assembly instructions.

Key

1. Front tube plate
2. Furnace
3. Upper plating
4. Diffuser
5. Lower plating
6. Rear tube plating
7. Fume piping
8. Boiler stay
9. Outlet
10. Fume chamber
11. Coupling Ø 1/2"
12. Flanged stub pipes
13. Instrument connection
14. Side members
15. Frame
16. Door
17. Eyebolt

Dimensions mm. and Weights

TYPE		250	300	350	400	500	620	750	850	950	1000	1200	1300
Furnace	Ø mm.	450	500	500	5450	645	645	690	690	690	790	790	790
	length mm.	1.240	1.240	1.490	1.490	1.500	1.790	1.800	1.800	2.050	2.065	2.065	2.065
	weight kg	67	73	88	115	145	172	227	227	257	316	316	316
Door width	length mm.	750	850	850	890	1.100	1.100	1.240	1.240	1.240	1.390	1.390	1.390
	height mm.	680	778	778	807	984	984	1.130	1.130	1.130	1.270	1.270	1.270
	weight kg	65	90	90	110	180	180	210	210	210	235	235	235

Range

The range consists of 12 models with useful power from 250 kW to 1,300 kW.
They are fitted with super frontal insulation as standard.

Lamborghini CALORECLIMA

Lamborghini Calor s.p.a.
Via Statale 342 - 44040 Dosso (Ferrara) - Italia
Tel. Italia 0532 / 359811 - Tel. Export 0532 / 359913
Fax Italia 0532 / 359952 - Fax Export 0532 / 359947
Internet: http://www.lamborghinicalor.it
E-mail: info@lamborghinicalor.it

MEGA PREX N steel boilers

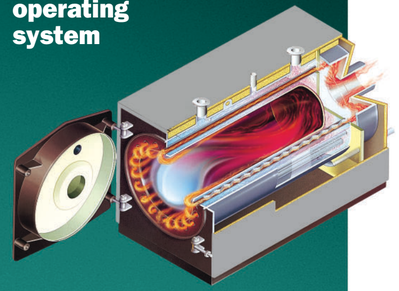
Pressurised boilers

MEGA PREX N are pressured, high-efficiency steel boilers with CE homologation. They are ideal for heating medium-large buildings.
The can operate with oil or gas air-blown burners.
These generators offer solutions that prevent the formation of acid condensation and reduce negative effects.

High efficiency

By the reducing the amount of heat loss, boiler efficiency is increased.
The reduction of heat loss has been achieved by careful insulation.
The size of the exchange surface has been specifically calculated to lower the temperature of fumes and the use of agitators has optimised fume speed.

Reverse-flame operating system



MEGA PREX 1.400 ÷ 3.500

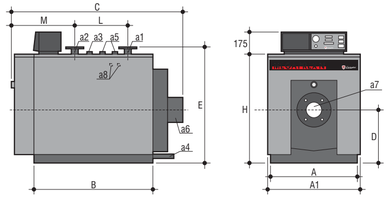
The range

The range consists of 25 models with useful powers of 80 kW to 3,500 kW.
The MEGA PREX N 80÷1.300 models are fitted with super frontal insulation as standard.

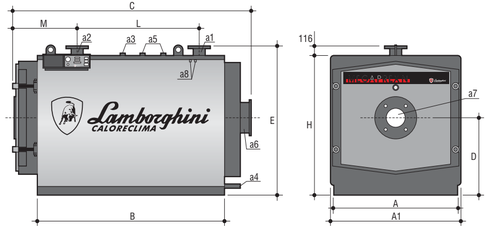
Lamborghini CALORECLIMA

A UNI EN ISO 9001:2000 certified company

Dimension s mm.



MEGA PREX N 80÷1.300 - MEGA PREX NK 250÷1.300



MEGA PREX N 1.400÷3.500

a1 Heating feed
a2 Heating return
a3 Instrument connection
a4 Boiler exhaust
a5 Safety valve(s) connection
a6 Flue connection
a7 Burner connection
a8 Sensor-holder housings

TYPE	A	A1	B	C	D	E	H	L	M	a1	a2	a3	a4	a5	a6	a7	a8
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	DN	DN	Ø	Ø	Ø	Ø	Ø	Ø
MEGA PREX N 80	700	750	630	1.055	415	911	855	240	413	50	50	1"	1"	-	200	130•	1/2"
MEGA PREX N 90	700	750	755	1.195	415	911	855	265	513	50	50	1"	1"	-	200	130•	1/2"
MEGA PREX N 100	700	750	755	1.195	415	911	855	265	513	50	50	1"	1"	-	200	130•	1/2"
MEGA PREX N 120	700	750	755	1.195	415	911	855	265	513	50	50	1"	1"	-	200	130•	1/2"
MEGA PREX N 150	750	800	1.000	1.440	440	961	905	475	513	50	50	1"	1"	-	250	160•	1/2"
MEGA PREX N 200	750	800	1.000	1.440	440	961	905	475	513	50	50	1"	1"	-	250	160•	1/2"
MEGA PREX N 250*	750	800	1.250	1.690	440	1.061	1.005	725	513	50	50	1"	1"	-	250	160•	1/2"
MEGA PREX N 300*	850	900	1.250	1.690	490	1.061	1.005	700	523	65	65	1"	1"	-	250	180•	1/2"
MEGA PREX N 350*	850	900	1.500	1.940	490	1.061	1.005	980	523	65	65	1"	1"	-	250	180•	1/2"
MEGA PREX N 400*	890	940	1.502	1.900	500	1.095	1.015	850	600	80	80	1"	1"	1 1/4"**	250	225	1/2"
MEGA PREX N 500*	1.100	1.160	1.502	1.950	610	1.285	1.205	850	663	80	80	1"	1 1/4"	1 1/4"	300	225	1/2"
MEGA PREX N 620*	1.100	1.160	1.792	2.240	610	1.285	1.205	1.150	663	80	80	1"	1 1/4"	1 1/4"	300	225	1/2"
MEGA PREX N 750*	1.240	1.290	1.753	2.255	675	1.417	1.335	1.100	704	100	100	1"	1 1/4"	1 1/2"	350	280	1/2"
MEGA PREX N 850*	1.240	1.290	1.753	2.255	675	1.417	1.335	1.100	704	100	100	1"	1 1/4"	1 1/2"	350	280	1/2"
MEGA PREX N 950*	1.240	1.290	2.003	2.500	675	1.417	1.335	1.200	704	100	100	1"	1 1/4"	1 1/2"	350	280	1/2"
MEGA PREX N 1020*	1.390	1.440	2.003	2.500	750	1.568	1.485	1.200	704	125	125	1"	1 1/4"	1 1/2"	400	280	1/2"
MEGA PREX N 1200*	1.390	1.440	2.003	2.500	750	1.568	1.485	1.200	704	125	125	1"	1 1/4"	1 1/2"	400	280	1/2"
MEGA PREX N 1300*	1.390	1.440	2.003	2.500	750	1.568	1.485	1.200	704	125	125	1"	1 1/4"	1 1/2"	400	280	1/2"
MEGA PREX N 1400	1.270	1.470	2.300	2.886	880	1.746	1.630	1.300	831	150	150	1"	1 1/4"	1 1/2"	400	320	1/2"
MEGA PREX N 1600	1.270	1.470	2.300	2.886	880	1.746	1.630	1.300	831	150	150	1"	1 1/4"	1 1/2"	400	320	1/2"
MEGA PREX N 1800	1.270	1.470	2.510	3.096	880	1.746	1.630	1.850	771	150	150	1"	1 1/4"	1 1/2"	400	320	1/2"
MEGA PREX N 2000	1.400	1.600	2.510	3.220	945	1.876	1.760	1.550	903	200	200	1"	1 1/4"	2"	500	360	1/2"
MEGA PREX N 2400	1.400	1.600	2.770	3.480	945	1.876	1.760	1.950	903	200	200	1"	1 1/4"	2"	500	360	1/2"
MEGA PREX N 3000	1.670	1.870	2.770	3.480	1.080	2.146	2.030	2.050	903	200	200	1"	1 1/4"	2"	550	400	1/2"
MEGA PREX N 3500	1.670	1.870	3.225	3.935	1.080	2.146	2.030	2.050	903	200	200	1"	1 1/4"	2"	550	400	1/2"

* Also MEGA PREX K version - ** Single connection - • Burner nosepiece length 200÷250 mm.

Technical data and Dimensions mm.

MEGA PREX N			80*	90*	100*	120	150	200	250	300	350	400	500	620
MEGA PREX NK									250	300	350	400	500	620
Useful power	min.	kW	40	45	50	60	75	100	125	150	175	200	250	310
	min.	kcal/h	34.000	39.000	43.000	52.000	65.000	86.000	108.000	129.000	151.000	172.000	215.000	267.000
	max.	kW	80	90	100	120	150	200	250	300	350	400	500	620
	max.	kcal/h	69.000	77.000	86.000	103.000	129.000	172.000	215.000	258.000	301.000	344.000	430.000	533.000
Furnace power	max.	kW	87	98	109	131	163	218	272	325	380	434	542	672
	max.	kcal/h	74.820	84.280	93.740	112.660	140.180	187.480	233.920	279.500	326.800	373.240	466.120	577.920
Useful efficiency at 100%		%	91,95	91,84	91,74	91,6	92,02	91,74	91,91	92,31	92,11	92,17	92,25	92,26
Energy efficiency marking (CE 92/42)			✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰
Useful efficiency at 30%		%	90,23	90,3	90,4	90,45	91,15	91,36	90,4	90,62	90,64	90,81	90,71	90,68
Loss from casing		%	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,5	1,5	1,5
Heating circuit max. pressure		bar	5	5	5	5	5	5	5	5	5	5	5	5
Heating temperature adjustment		l	105	123	123	123	172	172	220	300	356	360	540	645
Regulación temperatura calefacción		°C	0/90	0/90	0/90	0/90	0/90	0/90	0/90	0/90	0/90	0/90	0/90	0/90
ΔP water side (ΔT 12°C)		mbar	9	10	12	13	14	15	15	16	18	20	22	27
ΔP fume side		mbar	1	0,8	1	1,1	1,2	1,9	2	2	2,9	4,1	4,2	6,4
Supply voltage		V/Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50
Weight		kg	216	258	258	258	346	346	431	475	542	584	853	963
Supplied			in 3 or 4 packages: panel (1), casing (1 or 2), boiler body (1) (mod. MEGA PREX N) – Disassembled on pallets (mod. MEGA PREX NK)											

* Boiler exempt from fire-prevention control

MEGA PREX N			750	850	950	1.020	1.200	1.300	1.400	1.600	1.800	2.000	2.400	3.000	3.500
MEGA PREX NK			750	850	950	1.020	1.200	1.300							
Useful power	min.	kW	375	425	475	510	600	650	700	800	900	1.000	1.200	1.500	1.750
	min.	kcal/h	323.000	366.000	409.000	439.000	516.000	559.000	602.000	688.000	774.000	860.000	1.032.000	1.290.000	1.505.000
	max.	kW	750	850	950	1.020	1.200	1.300	1.400	1.600	1.800	2.000	2.400	3.000	3.500
	max.	kcal/h	645.000	731.000	817.000	877.000	1.032.000	1.118.000	1.204.000	1.376.000	1.548.000	1.720.000	2.064.000	2.580.000	3.010.000
Furnace power	max.	kW	813	921	1.030	1.106	1.301	1.409	1.517	1.733	1.950	2.167	2.600	3.250	3.792
	max.	kcal/h	699.180	792.060	885.800	951.160	1.118.860	1.211.740	1.304.620	1.490.380	1.677.000	1.863.620	2.236.000	2.795.000	3.261.120
Useful efficiency at 100%		%	92,25	92,29	92,23	92,22	92,24	92,26	92,29	92,33	92,31	92,29	92,31	92,31	92,3
Energy efficiency marking (CE 92/42)			✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰	✰✰
Useful efficiency at 30%		%	90,6	90,73	90,7	90,65	90,67	90,61	90,36	90,41	90,5	90,3	90,6	90,55	90,2
Loss from casing		%	1,5	1,5	1,5	1,5	1,5	1,5	1,1	1,1	1,1	1,1	1,1	1,1	1,1
Heating circuit max. pressure		bar	5	5	5	5	5	5	5	5	5	5	5	5	5
Heating temperature adjustment		l	855	855	950	1.200	1.200	1.200	1.500	1.650	2.000	2.300	3.150	3.650	
Regulación temperatura calefacción		°C	0/90	0/90	0/90	0/90	0/90	0/90	0/90	0/90	0/90	0/90	0/90	0/90	
ΔP water side (ΔT 12°C)		mbar	25	27	32	26	30	32	28	32	37	35	40	49	60
ΔP fume side		mbar	5,2	7,2	5,2	4	5,5	6,5	6	6,5	7	6	7,5	8	9
Supply voltage		V/Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50
Weight		kg	1.205	1.205	1.417	1.843	1.843	1.843	2.600	2.600	2.750	3.650	3.900	5.200	5.700
Supplied			in 2, 3 or 4 packages: panel (1), casing (0, 1 o 2), boiler body (1) (mod. MEGA PREX) – Disassembled on pallets (mod. MEGA PREX K)												

Electrical panels

Standard panel

The "standard" electrical panel is supplied as standard at the time of purchase. It conforms with the standards in force and in particular with Low Voltage Directive 73/23 CEE, obligatory since 01/01/96.
It is mounted outside the boiler and is fitted with:

- Adjustment thermostat
- Safety thermostat
- Thermometer
- Main switch
- Burner switch
- Circulator switch
- Lockout warning light

It also has a housing for an hour counter and a heat regulator.

"Elettroniko" panel

As an alternative to the standard panel.
"Elettroniko" conforms to the Low Voltage Directive and is suitable for traditional, low-temperature, air-blown condensing boilers: It is fitted with:

- Standard sensors: Feed/Return/External.
- Function selector: Summer/Winter/Manual.
- Standard safety devices: electromechanical.
- "Controller" function (sequence control): on request.

How to order Elettroniko
Boilers are normally supplied with the standard panel. If the new, higher-priced "Elettroniko" panel is required, please specify this when ordering.

Standard electrical panel

Elettroniko panel