Megaprex N N

Steel heat generator with flame inversion

- Pressurised heat generator designed for jet burner with liquid and/or gaseous fuel, with flame inversion firebox in the combustion chamber
- Steel boiler body completely covered with insulating material and removable outer casing in grey painted sheet metal
- Large completely wet combustion chamber
- Front door with reversible opening (right and left) and innovative adjustment and closing system in a single mechanism
- System flow and return fittings threaded up to mod. 401, from mod. 525 flanged
- Maximum operating pressure 6 bar
- Heat transfer fluid circulation control system inside the body to improve exchange and avoid thermal shock
- "Satellite" control panel designed to work with single-stage, two-stage and two-stage progressive burners.
- Delivered complete with connection flanges to the system, command control panel (to be ordered upon completion) and 'blind' burner plate (drilled on demand).
- **NOTE** The generators of the MEGAPREX N N series (from model 92 to 350) can only be sold and installed in conformity with EU regulation 813/2013 (art. 1, Paragraph 2, Section G)

Boiler code	Boiler model
0QIJ3AXD	**MEGAPREX N 92N (WN)**
0QIJ4AXD	**MEGAPREX N 107N (WN)**
0QIJ6AXD	**MEGAPREX N 152N (WN)**
0QIJ7AXD	**MEGAPREX N 190N (WN)**
0QIJ8AXD	**MEGAPREX N 240N (WN)**
0QIJ9AXD	**MEGAPREX N 300N (WN)**
0QIJAAXD	**MEGAPREX N 350N (WN)**
0QIJBAXD	**MEGAPREX N 401N (WN)**
0QIJEAXD	**MEGAPREX N 525N (WN)**
0QIJFAXD	**MEGAPREX N 600N (WN)**
0QIJHBXD	**MEGAPREX N 720N (WN)**

Boiler code	Boiler model
0QIJIBXD	**MEGAPREX N 820N (WN)**
0QIJJBXD	**MEGAPREX N 940N (WN)**
0QIJKBXD	**MEGAPREX N 1060N (WN)**

0Q2K10XA	**Thermostatic control panel ***

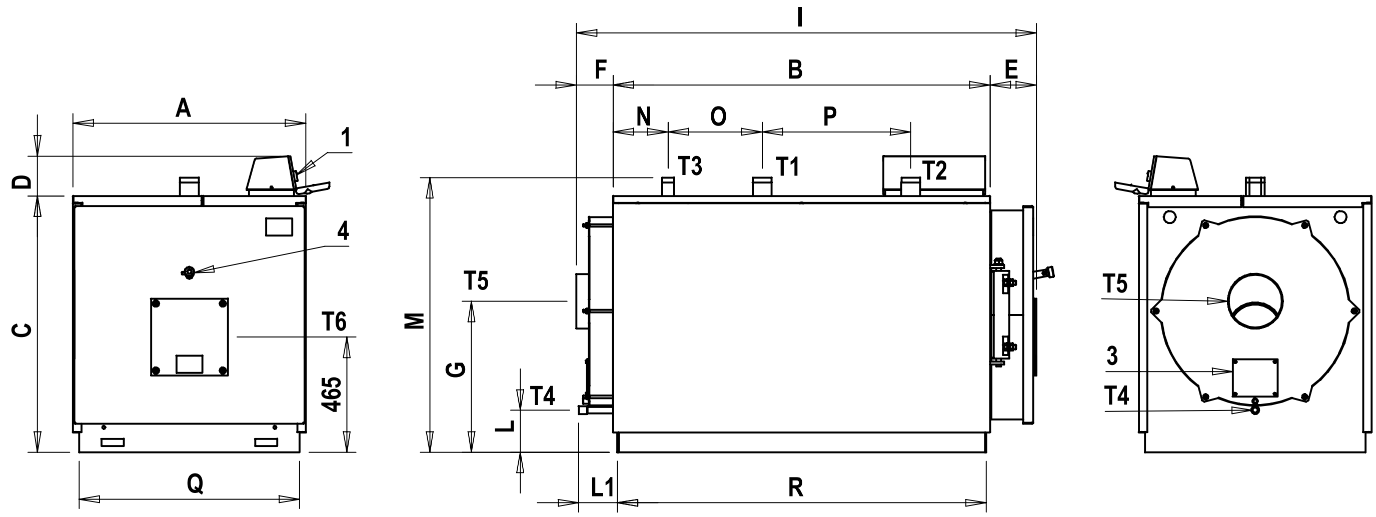
*** The generator is not supplied as per standard with control panel. It must be ordered to complete the supply**

Technical data

MEGAPREX N		92N	107N	152N	190N	240N	300N	350N
Rated output	min kW	60	70	100	137	160	196	228
	max kW	92	107	152	190	240	300	350
Combustion chamber (firebox) output	min kW	64.3	75	107.3	147.4	170.9	209.5	242.5
	max kW	99.5	116	165	206	261	326	378
Useful efficiency at Pn	100% Pn	92.48	92	92.3	91.95	92.25	92.05	92.51
	30% Pn	93.95	93.65	94.5	93.46	94.24	94.12	95.5
Total capacity of the boiler	litres	120	120	185	185	235	300	365
Water side pressure drops	mbar at ΔT 10°C	8	11	20	12	17	40	48
	mbar at ΔT 20°C	4	6	12	7	10	17	23
	mbar at ΔT 30°C	2	2.5	5	3	4	9	13
Flue gas side pressure drops	mbar	0.5	0.7	1.2	1.2	2.3	3.3	3.5
Maximum operating pressure	bar	6	6	6	6	6	6	6
Dry weight	kg	260	260	350	350	440	480	590

MEGAPREX N		401N	525N	600N	720N	820N	940N	1060N
Rated output	min kW	260	341	390	468	533	611	667
	max kW	401	525	600	720	820	940	1000
Combustion chamber output	min kW	277.5	364.5	417	502	566	651	717
	max kW	434	567	648	777	881	1011	1075
Useful efficiency at Pn	100% Pn	92.3	92.5	92.56	92.71	93.1	92.95	93.05
	30% Pn	94.19	94.15	94.32	93.6	94.4	94.2	96.75
Total capacity of the boiler	litres	365	405	465	735	735	850	1250
Water side pressure drops	mbar at ΔT 10°C	43	40	51	32	40	51	65
	mbar at ΔT 20°C	31	22	28	18	25	25	33
	mbar at ΔT 30°C	16	12	16	10	18	16	20
Flue gas side pressure drops	mbar	4.4	4.3	4.8	4.5	5.6	5.4	6
Maximum operating pressure	bar	6	6	6	6	6	6	6
Dry weight	kg	590	860	970	1250	1250	1420	1580

Dimensions (in mm)



MEASUREMENTS		92N	107N	152N	190N	240N	300N	350N
A	mm	800	800	800	800	800	940	940
B	mm	772	772	1022	1022	1272	1272	1522
C	mm	860	860	915	915	915	1035	1035
D	mm	162	162	162	162	162	162	162
E	mm	167	167	167	167	167	187	187
F	mm	148	148	148	148	148	148	148
G	mm	510	510	545	545	545	630	630
H	mm	385	385	425	425	425	465	465
I	mm	1087	1087	1337	1337	1587	1607	1857
L	mm	160	160	165	165	165	185	185
L1	mm	156	156	156	156	156	156	156
M	mm	925	925	980	980	980	1100	1100
N	mm	152	152	172	172	222	222	222
O	mm	150	150	230	230	330	330	380
P	mm	250	250	350	350	450	450	600
Q	mm	750	750	750	750	750	890	890
R	mm	740	740	990	990	1240	1240	1490
Hot water inlet	T1	2”	2”	2” 1/2	2” 1/2	2” 1/2	2” 1/2	2” 1/2
Hot water return	T2	2”	2”	2” 1/2	2” 1/2	2” 1/2	2” 1/2	2” 1/2
Expansion vessel connection	T3	1 1/2	1 1/2”	1 1/2”	1 1/2”	1 1/2”	1 1/2”	1 1/2”
Boiler discharge	T4	3/4	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”
Flue gas outlet	T5 Ø and mm	200	200	220	220	220	220	220

MEASUREMENTS		401N	525N	600N	720N	820N	940N	1060N
A	mm	940	1050	1050	1250	1250	1250	1430
B	mm	1522	1534	1794	1784	1784	2024	2028
C	mm	1035	1185	1185	1335	1335	1335	1515
D	mm	162	162	162	162	162	162	162
E	mm	187	182	182	212	212	212	240
F	mm	148	143	143	219	219	219	214
G	mm	630	725	725	830	830	830	900
H	mm	455	518	518	565	565	565	670
I	mm	1857	1859	2119	2215	2215	2455	2482
L	mm	170	205	205	196	196	196	196
L1	mm	156	155	155	227	227	227	227
M	mm	1100	1250	1250	1400	1400	1400	1580
N	mm	222	228	228	223	223	223	227
O	mm	380	380	440	440	440	480	480
P	mm	600	600	700	700	700	900	900
Q	mm	890	1000	1000	1200	1200	1200	1380
R	mm	1490	1492	1752	1752	1752	1992	1992
Hot water inlet	T1	2” 1/2	DN 80	DN 80	DN 100	DN 100	DN 100	DN 125
Hot water return	T2	2” 1/2	DN 80	DN 80	DN 100	DN 100	DN 100	DN 125
Expansion vessel connection	T3	1 1/2”	2”	2”	2 1/2	2 1/2	2 1/2	3
Boiler discharge	T4	3/4”	3/4”	3/4”	1	1	1	1
Flue gas outlet	T5 Ø and mm	220	250	250	340	340	340	400