

 **Efficiency:** > 92%

 **Design Pressure:** 6 bar (10 bar - On Request )



REX steel boiler, employs a cylindrical concentric combustion chamber with reverse flame, a blind furnace completely supported by a submerged nozzle projection welded into the rear tube plate facilitating a fully submersed wet back. The boiler is designed to be used in systems with water temperature between 60 °C and 100 °C (safety thermostat set at 110 °C).

Some of the product's main features are related below:

- boiler body built from high quality steel, made from front tube sheet flanged to the combustion chamber using RSB procedures and from concave rear plate (rather than a flat surface for a better resistance internal pressure),
- cylindrical reverse flame combustion chamber, supported by a submerged nozzle; the flame is positioned centrally within the chamber, whilst the hot gases return to the front of the furnace forming a second pass within the furnace, with the hot gases being conveyed through the tube bundle to the rear smoke box
- EN10217-2 P235GH smoke tubes welded into the front and rear tube plates , fitted with special helical turbulators.
- the rear smoke box, manufactured from thermally insulated steel sheets, constructed in one piece that can be easily opened and that allows smoke tube inspections, fastened with bolts, equipped with chimney connection and cleaning door.
- boiler casing equipped with system and working device connections, all manufactured with approved welding procedures and qualified personnel.
- high density, glass wool mattress insulation, protected by easily removable, varnished red steel panels (REX 9-130, left picture)
- high density, glass wool mattress insulation, protected by round embossed aluminium casing (REX 180-350 , right picture)
- steel sheet, fiber-ceramic, thermal insulated, reversible front door, mounted on hinges, easily opened with equipped lever by drilled ferrules.

### **Standard equipment**

- Complete insulating casing
- Turbulators
- Cleaning brush
- Control panel includes:
  - Possibility of remote control (with optional modem or connection to other master devices with modem)
  - Possibility of cascade operation with other panels of the same series;
  - Possibility of ModBus connection with optional interface
  - Delivery temperature climate control (with optional external probe);
  - Management of 2 configurable outputs for pumps and valves
  - RS485 to connect the board to any Master unit (boiler or Master board)

- RS485 connection to connect to the board of any slave units (boiler boards or system management)
- Possibility of managing QETERM02 expansions for control of other pumps or valves;
- Mixing valve management
- Modem connector
- USB socket
- Main switch
- Burner operation switch (Manual / Off / Automatic)
- 2 programmable output operation switch (Manual / Off / Automatic)
- 2 Regulation thermostats
- Safety thermostat
- Thermometer + Boiler probe
- Microprocessor board
- Electrical supply ;230 vac.
- Dimensions ; 170x170x500mm



#### TECHNICAL DATA

Model	Maximum output	Maximum input	Efficiency	Working Pressure*	Maximum H.W Temperature	Minimum H.W Temperature	Gas Pressure Drop	Water Pressure Drop ( $\Delta T=12$ )
	Kw	Kw	%	bar	°c	°c	mbar	mbar
REX 9	90	98	91.8	6	100	60	0.8	13
REX 10	100	109	91.7	6	100	60	1	16
REX 12	120	130	92.3	6	100	60	1.1	23
REX 15	150	163	92.0	6	100	60	1.2	35
REX 20	200	216	92.6	6	100	60	1.9	63
REX 30	300	325	92.3	6	100	60	2	50
REX 40	420	455	92.4	6	100	60	4.5	42
REX 62	620	672	92.3	6	100	60	6.4	92
REX 75	750	813	92.3	6	100	60	5.2	55
REX 85	850	921	92.3	6	100	60	7.2	71
REX 100	1,020	1,106	92.2	6	100	60	4	42
REX 120	1,200	1,301	92.2	6	100	60	5.5	58
REX 130	1,300	1,409	92.3	6	100	60	6.5	68
REX 180	1,800	1,950	92.3	6	100	60	7	63
REX 240	2,400	2,600	92.3	6	100	60	7.5	35
REX 300	3,000	3,250	92.3	6	100	60	8	55
REX 350	3,500	3,792	92.3	6	100	60	9	75

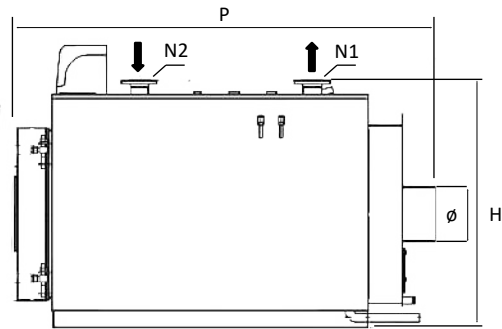
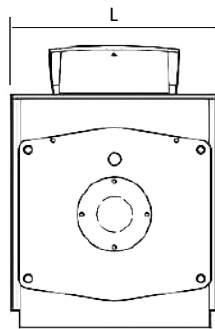
\*Upon request is possible to have 10 bar

DIMENSION & WEIGHT

Model	Water Outlet (N1)	Water Inlet (N2)	Chimney Diameter (ø)	Length (P)	Width (L)	Height (H)	Water Content	Weight (Empty)
	DN/in	DN/in	mm	mm	mm	mm	lt	Kg
REX 9	50	50	200	1,119	756	912	123	258
REX 10	50	50	200	1,119	756	912	123	258
REX 12	50	50	200	1,119	756	912	123	258
REX 15	50	50	250	1,364	806	962	172	346
REX 20	50	50	250	1,364	806	962	172	346
REX 30	65	65	250	1,614	906	1,061	300	475
REX 40	80	80	250	1,872	946	1,095	360	584
REX 62	80	80	300	2,235	1,166	1,285	645	963
REX 75	100	100	350	2,247	1,296	1,417	855	1,205
REX 85	100	100	350	2,247	1,296	1,417	855	1,205
REX 100	125	125	400	2,477	1,446	1,568	1,200	1,843
REX 120	125	125	400	2,477	1,446	1,568	1,200	1,843
REX 130	125	125	400	2,477	1,446	1,568	1,200	1,843
REX 180	150	150	400	3,096	1,470	1,746	1,650	2,750
REX 240	200	200	500	3,480	1,600	1,876	2,300	3,900
REX 300	200	200	550	3,480	1,870	2,146	3,150	5,200
REX 350	200	200	550	3,935	1,870	2,146	3,650	5,700



REX 9 – REX 130



REX 180 – REX 350

