




REX



DESCRIPTION





Reverse flame boiler with cylindrical furnace completely closed on the rear side by a dished end supported by a fully submerged stub pipe. The boilers can be used with forced draft burners for the operation on liquid or gaseous fuels. These boilers are designed to be used in systems with water temperature between 60 and 100°C (safety thermostat set at 110°C).

FEATURES

-  **Design pressure: 5 bar**
-  **Heat output: 70 ÷ 3500 kW**
-  **Efficiency: from 92.0% to > 95.0%**

For higher or lower pressures see our commercial department

ADVANTAGES

-  **Maximum security**
The generator has been designed in accordance with the strictest international safety regulations in force.
-  **High reliability in continuous operation**
The construction features are such to make it particularly suitable to high working loads and long working periods.
-  **Easy, fast and safe installation**
The installation is very easy: you just need to connect the system to the electric, hydraulic, steam and discharge lines.
-  **Maximum operating flexibility**
Thanks to the very high water content and the very high thermal inertia, the boiler is suitable for any system solution, even in the most difficult operating conditions.

Reverse flame boiler

MODELS



REX
(70 ÷ 1300 kW)



REX
(1400 ÷ 3500 kW)



REX DUAL stacked combustion chambers
(140 ÷ 1700 kW)

AVAILABLE CERTIFICATIONS



RECOMMENDED TECHNOLOGIES



MAIN APPLICATIONS

- + Commercial facilities
- + Hospitals
- + District heating
- + Heavy industry
- + Residential buildings
- + Industrial heating systems
- + Sports centers
- + Swimming pools and water parks

REX (70 ÷ 1300 kW)

Reverse flame fire tube boiler. Cylindrical furnace completely closed on the rear side by a dished supported by a fully submerged stub pipe. It can be used with forced draft burners for the operation on liquid or gas fuels (only gas fuels in the F version). The boiler is designed to be used in systems with water temperature between 60 and 100°C (safety thermostat set at 110°C).



REX

Design pressure: **5 bar**

Heat output: **70 ÷ 1300 kW**

Efficiency: **> 92,0 %**

REX F



Design pressure: **5 bar**

Heat output: **70 ÷ 1300 kW**

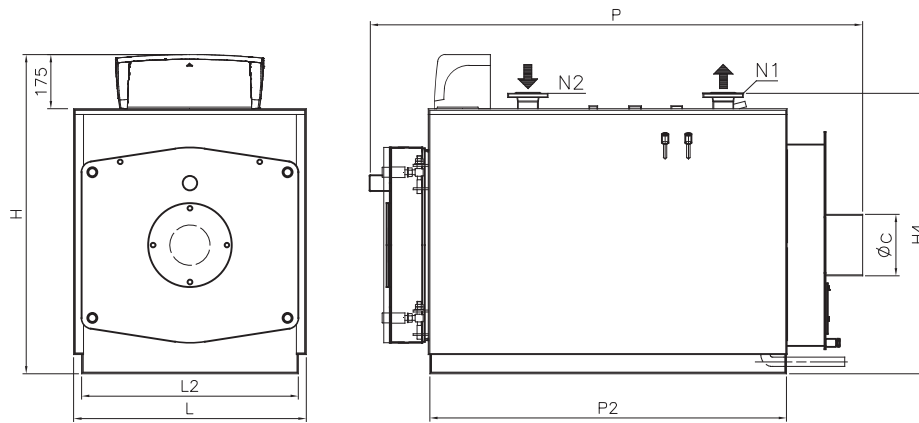
Efficiency: **> 95,0 %**



Provided with Fin-e® efficiency improvement system. This version allows the use of **only gaseous fuels**.

TECHNICAL DATA

Model	Heat Output - temp. 70°C	Flow thermal		Flue gas pressure drop		Hydraulic pressure drop	Total volume H2O	Total weight	
		REX	REX F	REX	REX F			REX	REX F
REX	kW	kW		mbar		mbar	l	Kg	
* 7	70	76	74,2	0,8	0,9	8	105	216	222
* 8	80	87	84,7	1,0	1,1	10	105	216	222
* 9	90	98	95,2	0,8	0,9	13	123	258	266
* 10	100	109	105,6	1,0	1,1	16	123	258	266
* 12	120	130	126,5	1,1	1,3	23	123	258	266
* 15	150	163	157,8	1,2	1,3	35	172	346	357
* 20	200	216	210	1,9	2,2	63	172	346	357
* 25	250	271	263,5	2,0	2,4	98	220	431	442
* 30	300	325	315,5	2,0	2,4	50	300	475	489
* 35	350	379	368	2,9	3,4	67	356	542	558
40	420	455	420	4,5	4,7	42	360	584	600
50	500	542	524	4,2	4,8	60	540	853	871
62	620	672	649	6,4	7,3	92	645	963	981
75	750	813	786	5,2	5,8	55	855	1205	1230
85	850	921	891	7,2	8,0	71	855	1205	1230
95	950	1030	997	5,2	5,9	89	950	1417	1446
100	1020	1106	1069	4,0	4,5	42	1200	1843	1880
120	1200	1301	1259	5,5	6,2	58	1200	1843	1880
130	1300	1409	1364	6,5	7,3	68	1200	1843	1880



DIMENSIONS

Model	H	H4	L	L2	P	P2	Øc	N1	N2
REX	mm	mm	mm	mm	mm	mm	mm	DN/in	DN/in
* 7	1063	912	756	700	994	630	200	50	50
* 8	1063	912	756	700	994	630	200	50	50
* 9	1030	912	756	700	1119	755	200	50	50
* 10	1030	912	756	700	1119	755	200	50	50
* 12	1030	912	756	700	1119	755	200	50	50
* 15	1080	962	806	750	1364	1000	250	50	50
* 20	1080	962	806	750	1364	1000	250	50	50
* 25	1080	962	806	750	1614	1250	250	50	50
* 30	1180	1061	906	850	1614	1250	250	65	65
* 35	1180	1061	906	850	1864	1500	250	65	65
40	1190	1095	946	890	1872	1502	250	80	80
50	1380	1285	1166	1110	1946	1502	300	80	80
62	1380	1285	1166	1110	2235	1792	300	80	80
75	1510	1417	1296	1240	2247	1753	350	100	100
85	1510	1417	1296	1240	2247	1753	350	100	100
95	1510	1417	1296	1240	2497	2003	350	100	100
100	1660	1568	1446	1390	2477	2003	400	125	125
120	1660	1568	1446	1390	2477	2003	400	125	125
130	1660	1568	1446	1390	2477	2003	400	125	125

* Product not compliant with the requirements set out in the European regulations No. 811-813/2013 and therefore not suitable for the installation on the EU territory for plant rooms or produce domestic hot water.

The product can be supplied only for the installation in non-European Union countries for any kind of application

STANDARD EQUIPMENT

- * Product not compliant with the requirements set out in the European regulations No. 811-813/2013 and therefore not suitable for the installation on the EU territory for plant rooms or produce domestic hot water.
- The product can be supplied only for the installation in non-European Union countries for any kind of application

PRODUCT CODES

Model	REX	REX F
* REX 7	83801010	83801210
* REX 8	83801020	83801220
* REX 9	83802010	83802210
* REX 10	83802020	83802220
* REX 12	83802030	83802230
* REX 15	83803010	83803210
* REX 20	83803020	83803220
* REX 25	83804010	83804210
* REX 30	83805010	83805210
* REX 35	83806010	83806210
REX 40	83807010	83807210
REX 50	83808010	83808210
REX 62	83809010	83809210
REX 75	83810010	83810210
REX 85	83810020	83810220
REX 95	83811010	83811210
REX 100	83812010	83812210
REX 120	83812020	83812220
REX 130	83812030	83812230

REX (1400 ÷ 3500 kW)

Reverse flame fire tube boiler. Cylindrical furnace completely closed on the rear side by a dished supported by a fully submerged stub pipe. It can be used with forced draft burners for the operation on liquid or gas fuels (only gas fuels in the F version). The boiler is designed to be used in systems with water temperature between 60 and 100°C (safety thermostat set at 110°C).



REX

Design pressure: **5 bar**

Heat output: **1400 ÷ 3500 kW**

Efficiency: **> 92,0 %**

REX F



Design pressure: **5 bar**

Heat output: **1400 ÷ 3500 kW**

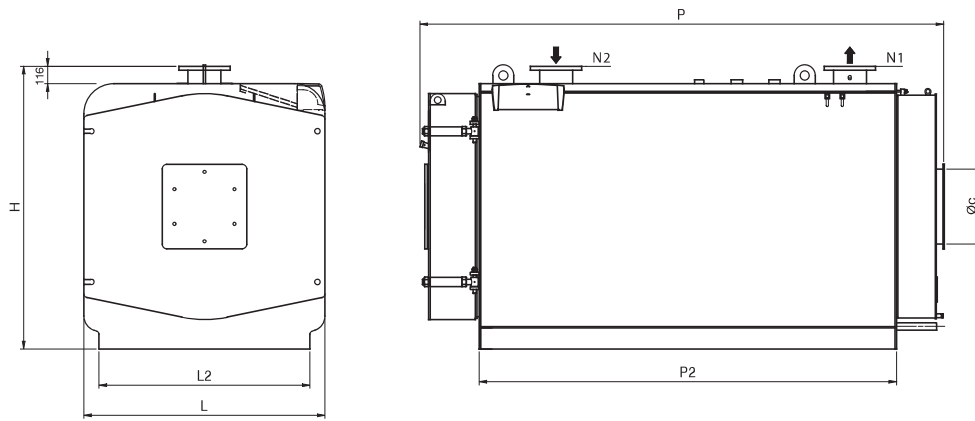
Efficiency: **> 95,0 %**



Provided with Fin-e® efficiency improvement system. This version allows the use of **only gaseous fuels**.

TECHNICAL DATA

Model	Heat Output - temp. 70°C	Flow thermal		Flue gas pressure drop		Hydraulic pressure drop	Total volume H2O	Total weight	
		REX	REX F	REX	REX F			REX	REX F
REX	kW	kW		mbar		mbar	l	Kg	
140	1400	1517	1468	6	6,6	38	1500	2600	2665
160	1600	1733	1675	6,5	7,1	50	1500	2600	2665
180	1800	1950	1885	7	7,6	63	1650	2750	2815
200	2000	2167	2094	6	6,6	25	2000	3650	3730
240	2400	2600	2518	7,5	8,1	35	2300	3900	3980
300	3000	3250	3142	8	8,6	55	3150	5200	5300
350	3500	3792	3670	9	9,6	75	3650	5700	5800



DIMENSIONS

Model	H	L	L2	P	P2	Øc	N1	N2
REX	mm	mm	mm	mm	mm	mm	DN/in	DN/in
140	1746	1470	1270	2886	2300	400	150	150
160	1746	1470	1270	2886	2300	400	150	150
180	1746	1470	1270	3096	2510	400	150	150
200	1876	1600	1400	3220	2510	500	200	200
240	1876	1600	1400	3480	2770	500	200	200
300	2146	1870	1670	3480	2770	550	200	200
350	2146	1870	1670	3935	3225	550	200	200

STANDARD EQUIPMENT

- Complete insulation casing
- Turbulators
- Cleaning brush

PRODUCT CODES

Model	Code	
	REX	REX F
REX 140	83813010	83813210
REX 160	83813020	83813220
REX 180	83814010	83814210
REX 200	83815010	83815210
REX 240	83816010	83816210
REX 300	83817010	83817210
REX 350	83818010	83818210

REX DUAL stacked combustion chambers

Double stacked reverse flame fire tube boiler. Cylindrical furnace completely closed on the rear side by a dished end supported by a fully submerged stub pipe. It can be used with forced draft burners for the operation on liquid or gas fuels (only gas fuels in the F version). The boiler is designed to be used in systems with water temperature between 60 and 100°C (safety thermostat set at 110°C).



REX DUAL

Design pressure: **5 bar**

Heat output: **140 ÷ 1700 kW**

Efficiency: **> 92,0 %**

REX DUAL F



Design pressure: **5 bar**

Heat output: **140 ÷ 1700 kW**

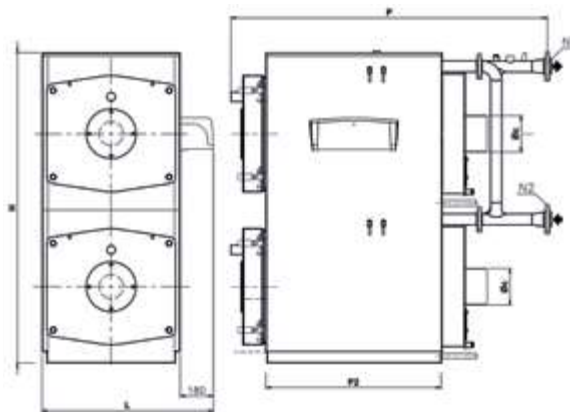
Efficiency: **> 95,0 %**



Provided with Fin-e® efficiency improvement system. This version allows the use of **only gaseous fuels**.

TECHNICAL DATA

Model	Heat Output - temp. 70°C	Flow thermal		Flue gas pressure drop		Hydraulic pressure drop	Total volume H2O	Total weight	
		REX	REX F	REX	REX F			REX	REX F
REX DUAL	kW	kW		mbar		mbar	l	Kg	
* 14	140	152	148	0,8	0,9	11	210	465	477
* 16	160	174	169	1	1,1	14	210	465	477
* 18	180	196	190	0,8	0,9	18	246	549	565
* 20	200	218	211	1	1,1	22	246	549	565
* 24	240	260	253	1,1	1,3	32	246	549	565
* 30	300	326	316	1,2	1,3	22	344	726	748
40	420	455	420	2,1	2,2	42	344	726	748
50	500	542	527	2	2,4	60	440	898	920
60	600	650	631	2	2,4	86	600	986	1014
70	700	758	734	2,9	3,4	118	712	1122	1154
80	840	909	840	4,5	4,7	69	720	1285	1317
100	1000	1084	1048	4,2	4,8	98	1080	1830	1866
124	1240	1344	1298	6,4	7,3	62	1290	2065	2101
150	1500	1626	1572	5,2	5,8	44	1710	2621	2671
170	1700	1842	1782	7,2	8	56	1710	2621	2671



DIMENSIONS

Model	H	L	P	P2	Øc	N1	N2
REX DUAL	mm	mm	mm	mm	mm	DN/in	DN/in
* 14	1693	939	1365	630	200	65	65
* 16	1693	939	1365	630	200	65	65
* 18	1693	939	1490	755	200	65	65
* 20	1693	939	1490	755	200	65	65
* 24	1693	939	1490	755	200	65	65
* 30	1793	989	1798	1000	250	80	80
40	1793	989	1798	1000	250	80	80
50	1793	989	2048	1250	250	80	80
60	1993	1089	2049	1250	250	80	80
70	1993	1089	2299	1500	250	80	80
80	2244	1129	2440	1502	250	100	100
100	2624	1349	2490	1502	300	100	100
124	2640	1349	2792	1792	300	125	125
150	2935	1479	2756	1753	350	150	150
170	2935	1479	2756	1753	350	150	150

* Product not compliant with the requirements set out in the European regulations No. 811-813/2013 and therefore not suitable for the installation on the EU territory for plant rooms or produce domestic hot water.

The product can be supplied only for the installation in non-European Union countries for any kind of application

STANDARD EQUIPMENT

- Complete insulation casing
- Turbulators
- Cleaning brush
- Delivery and return hydraulic pipes
- Kit for the boiler hydraulic coupling

PRODUCT CODES

Model	Code	
	REX	REX F
* REX DUAL 14	83801030	83801230
* REX DUAL 16	83801040	83801240
* REX DUAL 18	83802040	83802240
* REX DUAL 20	83802050	83802250
* REX DUAL 24	83802060	83802260
* REX DUAL 30	83803030	83803230
REX DUAL 40	83803040	83803240
REX DUAL 50	83804030	83804230

* Product not compliant with the requirements set out in the European regulations No. 811-813/2013 and therefore not suitable for the installation on the EU territory for plant rooms or produce domestic hot water.

The product can be supplied only for the installation in non-European Union countries for any kind of application

Model	Code	
	REX	REX F
REX DUAL 60	83805030	83805230
REX DUAL 70	83806030	83806230
REX DUAL 80	83807040	83807240
REX DUAL 100	83808040	83808240
REX DUAL 124	83809040	83809240
REX DUAL 150	83810070	83810270
REX DUAL 170	83810080	83810280

AVAILABLE ACCESSORIES

Code	Description	REX models		
		7 - 130	140 - 350	DUAL SOV
QACC10ELMCE	Thermostatic control panel	■	■	
QETERM01CE	Eterm boiler management control panel	■	■	■
QETERM01RU2	Eterm boiler management control panel - only for Russia and the former Soviet Union	■	■	
QETERM02	Eterm system control panel	■	■	■
QACC01ELMDCE	Thermostatic control panel			■
QEST03110	Thermostatic control panel **	■	■	■
QCTETERM	Eterm easy manager panel	■	■	■




REX



DESCRIPTION






Reverse flame fire tube heat boilers. Cylindrical furnace completely closed on the rear side by a convex bottom supported by a fully submerged stub. It can be used with forced draft burners for the operation on liquid or gaseous fuels. Designed for the use in systems with water temperature between 60 and 100°C.

FEATURES

-  **Design pressure: 6 bar**
-  **Heat output: 4000 ÷ 6000 kW**
-  **Efficiency: > 92,0 %**

Upon request it is possible to have a maximum design pressure of 25 bar - maximum heat output 6000 kW

ADVANTAGES

-  **Advanced management technology**
The boiler can be equipped with programmable logic technology that allows complete compatibility with any data acquisition system, also allowing the adjustment of parameters through the display.
-  **Efficiency at all costs**
Integrated solutions for increased performance and efficiency through flue gas heat recovery fully integrated into the structure of the boiler.
-  **Easy, fast and safe installation**
The installation is very easy: you just need to connect the system to the electric, hydraulic, steam and discharge lines.
-  **Maximum operating flexibility**
Thanks to the very high water content and the very high thermal inertia, the boiler is suitable for any system solution, even in the most difficult operating conditions.
-  **Maximum security**
The generator has been designed in accordance with the strictest international safety regulations in force.

Reverse flame boiler

REX

Design pressure: 6 bar
 Heat output: 4000 ÷ 6000 kW
 Efficiency: > 92,0 %

REX F



Design pressure: 6 bar
 Heat output: 4000 ÷ 6000 kW
 Efficiency: > 95,0 %



Provided with Fin-e® efficiency improvement system.
 This version allows the use of **only gaseous fuels**.

AVAILABLE CERTIFICATIONS



RECOMMENDED TECHNOLOGIES



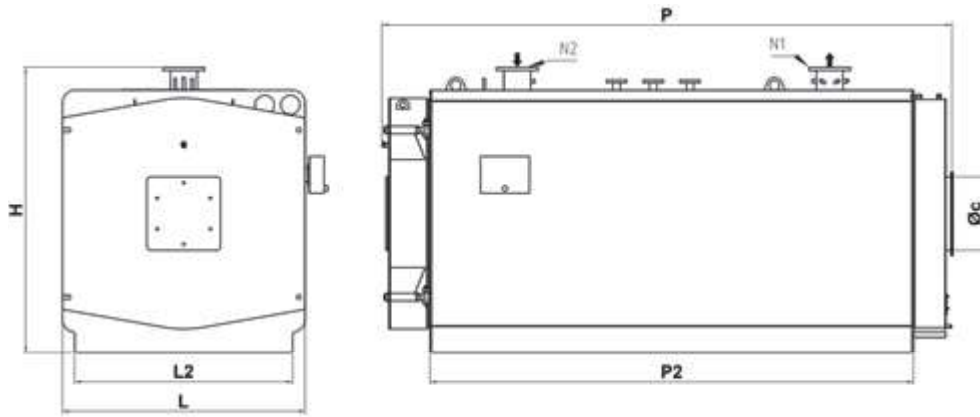
MAIN APPLICATIONS

- + Commercial facilities
- + Residential buildings
- + Hospitals
- + Industrial heating systems
- + District heating
- + Sports centers
- + Swimming pools and water parks

TECHNICAL DATA

Model	Heat output at 70°C kW	Flow thermal kW	100% efficiency at 70°C %	30% efficiency at 70°C %	Flue gas pressure drop mbar	Hydraulic pressure drop mbar	H2O volume lt	Empty weight kg
REX								
400	4000	4333	92,31	91,80	9,0	98	4450	7420
450	4500	4865	92,50	91,90	10,0	124	4900	7920
500	5000	5402	92,56	91,90	10,0	63	6200	9530
600	6000	6480	92,59	91,90	12,0	91	6900	11330

Model	Heat output at 70°C kW	Flow thermal kW	100% efficiency at 70°C %	30% efficiency at 70°C %	Flue gas pressure drop mbar	Hydraulic pressure drop mbar	H2O volume lt	Empty weight kg
REX F								
400	4000	4195	95,35	95,45	11,0	98	4450	7540
450	4500	4720	95,34	95,50	11,0	124	4900	8040
500	5000	5245	95,33	95,46	11,0	63	6200	9670
600	6000	6295	95,31	95,48	12,0	91	6900	11480



DIMENSIONS

Model	H	L	L2	P	P2	ØC	N1	N2
REX	mm	mm	mm	mm	mm	mm	DN/in	DN/in
400	2326	1980	1780	4310	3596	600	200	200
450	2326	1980	1780	4660	3946	600	200	200
500	2529	2180	1980	4729	3948	650	250	250
600	2529	2180	1980	5261	4488	650	250	250

STANDARD EQUIPMENT

Instruments for pressure control, including:

- Large dial 3 way test valve manometer

Instruments for temperature control, including:

- Thermometer with large dial, scale 0-120°C
- High temperature safety thermostat with manual reset (110°C)
- PT100 thermocouple
- The safety thermostat with manual reset (110°C) is INAIL approved

The boilers destined to foreign countries will be provided with:

- High-pressure safety switch with manual reset

Boiler control panel IP55 1/N ~ 230V 50 Hz

PRODUCT CODES

Model	Code	
	REX	REX EXP
REX 400	83819010	83819012
REX 450	83820010	83820012
REX 500	83821010	83821012
REX 600	83822010	83822012

Model	Code	
	REX F	REX F EXP
REX F 400	83819210	83819212
REX F 450	83820210	83820212
REX F 500	83821210	83821212
REX F 600	83822210	83822212

ACCESSORIES AVAILABLE FOR THE RANGE

Code	Description	REX	
		REX	REX F
QATRXETERM01	Boiler management control panel	■	■
QATRXETERM02	Boiler management control panel	■	■
QCTETERM	Eterm Easy manager panel	■	■

STEAM

SUPER-HEATED WATER

THERMAL OIL

HOT WATER

ACCESSORIES

SYSTEM LAYOUTS