

INDUSTRIAL RANGE

THERMAL OIL

OPX

THERMAL OIL GENERATOR



Main features

The OPX thermal oil generator has 3 pass configuration with single pass combustion chamber and flue gas outlet in the rear. Is designed for low thermal loads and high oil speeds in order to eliminate any risk of cracking, namely the process of oil thermal decomposition when the oil is subjected to overheating. In addition, the very low thermal capacity, due to reduced use of refractory cements, involves a high degree of reliability against the risk of overheating even in cases of oil circulation arrest.

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

- Thermal oil heat generator, horizontal axis coil spirally wound
- Fe 35 UNI 663/68 carbon steel, "MANNESMANN" quality S. S. tube coils built curved with multiple tangent spirals, various combustion gas revolutions being separated.
- carbon steel boiler support able to ensure whole group support; a service platform is provided laterally along with the diathermic fluid circulation group
- bolted front door, easily opened for inspection and cleaning, equipped with cone burner and combustion control light.
- external high density, mineral wool thermal insulation, with aluminum finish sheet mounted on a rectangular frame
- fumes connection to flange exhaust, housed in the upper fumes chamber, bolted to the boiler and easily removable for cleaning operations.

Standard equipment:

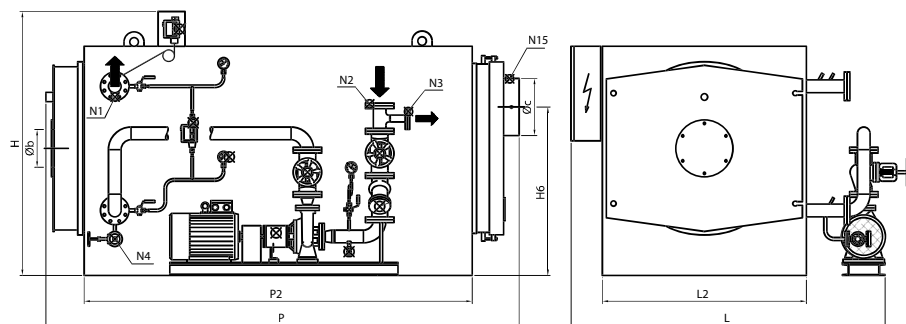
- 2 input output connections complete with counter flanges
- 2 boiler purge valves
- 2 steel aerator valves
- 2 oil input output manometers complete with steel shut-off valves
- 2 digital oil input output thermometers with thermocouple
- digital limit thermostat with thermocouple
- liquid expansion security thermostat with manual restart
- boiler oil circulation security differential pressure gage complete with steel valves
- oil circulation unit containing:
 - electric pump directly coupled to a jointed electric motor, cast iron body, steel shaft with auto cooling mechanical seal, placed on a pedestal.
 - 2 flow start valves in spherical cast iron with sealing metal bellows, mounted on suction and delivery.
 - steel filter mounted on pump suction
- boiler electric command panel, IP 54 electrical protection, composed of:
 - main switch
 - oil circulation pump command interrupt (off-manual-automatic)
 - burner command switch
 - high oil pressure light and alarm reset button
 - low oil circulation pressure light and alarm reset button
 - alarm siren

Accessories:

- EVX indirect steam generator
- PMX oil circulation unit
- VEO oil expansion tank

For each product always indicate the code at the time of the order.

INDUSTRIAL RANGE THERMAL OIL OPX



Legend:
N1 Thermal oil flow
N2 Thermal oil return
N3 Expansion vessel connection
N4 System drain
N15 Fumes temperature control

Characteristics	Code product	Effective capacity kW	Flow Thermal kW	Oil side pressure drop ($\Delta T=40^{\circ}\text{C}$) bar	Maximum working temperature TS $^{\circ}\text{C}$	Total volume H_2O lt	Flue gas pressure drop mbar	Fuel consumption			Total weight kg
Model								Gas Nm^3/h	Diesel fuel kg/h	Nafta kg/h	
OPX 100	87110100	116	137	1,44	300	36	0,5	14,0	11,6	12,2	650
OPX 200	87110200	233	270	1,70	300	80	1,0	27,6	22,7	23,9	900
OPX 300	87110300	349	405	1,94	300	120	1,5	41,4	34,1	35,9	1200
OPX 400	87110400	465	541	1,00	300	210	2,0	55,4	45,6	47,9	1500
OPX 500	87110500	581	676	1,84	300	250	4,0	69,2	57,0	59,9	1650
OPX 600	87110600	698	810	1,60	300	210	3,5	83,0	68,3	71,9	1750
OPX 800	87110800	930	1081	1,20	300	290	4,0	110,7	91,2	95,9	2200
OPX 1000	87111000	1163	1351	1,68	300	460	3,5	138,3	113,9	119,8	2650
OPX 1200	87111200	1395	1622	1,00	300	680	4,0	166,1	136,8	143,8	3750
OPX 1500	87111500	1744	2028	1,70	300	700	5,0	207,6	171,0	179,8	3800

Dimensions	H	H1	H2	H6	L	L2	L4	P	P2	Øb	Øc	N1	N2	N1/N2	N3	N4	N15
Model	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	DN/in	DN/in	PN	DN/in	DN/in	in
OPX 100	1150	950	525	645	1330	850	1145	1540	1040	160	200	40	40	16	40	20	1/2"
OPX 200	1400	1200	700	850	1510	1000	1295	1780	1250	225	250	40	40	16	40	20	1/2"
OPX 300	1600	1400	800	1040	1730	1200	1495	1805	1275	225	250	50	50	16	40	20	1/2"
OPX 400	1650	1450	825	1100	1790	1250	1545	2070	1540	280	300	50	50	16	40	20	1/2"
OPX 500	1645	1445	818	1060	1765	1255	1515	2315	1775	280	350	65	65	16	40	20	1/2"
OPX 600	1695	1495	835	1095	1885	1320	1605	2390	1850	280	350	65	65	16	40	20	1/2"
OPX 800	1725	1525	850	1125	1910	1350	1635	2940	2440	280	350	65	65	16	40	20	1/2"
OPX 1000	1805	1605	890	1180	1985	1430	1715	3050	2720	280	400	80	80	16	40	20	1/2"
OPX 1200	1915	1715	935	1245	2180	1560	1845	3500	3170	320	450	100	100	16	50	20	1/2"
OPX 1500	2050	1850	1000	1250	2300	1650	1935	3900	3300	320	500	100	100	16	50	20	1/2"