Group company "Exergy" LTD
Catalog of products

Russian Federation
Maikop
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EXERGY LTD

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	Technical characteristics of block-modular boiler houses "EXERGY" with capacity of 1 – 3,9 MW									
№	**Index**	**Units of measurement**	**The value of the index from boiler house power capacity**							
1	The installed capacity of the boiler house	MW	1,0	1,25	1,5	1,75	2,0	2,5	3,0	3,5
2	Maximum electric power consumption (without hot water (DHW)	KW	10,2	11,2	12,0	16,1	19,1	23,8	27,9	29,6
3	Maximum electric power consumption (including hot water (DHW)	KW								
4	Thermal performance of DHW circuit	KW	On request							
5	Temperature graph of circuit of heating and ventilation	^{o}C	95-70							
6	Temperature graph of circuit DHW	^{o}C	60							
7	Maximum flow of initial water of boiler room with DHW	m^3/h	5,4	6,7	10,2	12,0	13,4	17,3	21,0	24,0
8	Refill for heating system	m^3/h	0,8	1,0	1,0	1,1	1,2	2,0	2,4	2,4
9	Required pressure of initial water at the inlet	MPa	0,1-0,45							
10	The maximum water disposal from the boiler room (Technology removal water from chemical water treatment system. Automatically implemented at regeneration of the HVO. When using complexion treatment, water disposal is absent)	m^3/h	0,2	0,2	0,2	0,2	0,2	0,23	0,26	0,28
11	Emergency discharge of water from the boiler room	l/sec	1,5	1,5	2,0	2,0	2,0	2,5	2,5	3,0
12	The maximum consumption of natural gas, 8000 kcal/m3	Nm^3/h	116,8	146,0	175,2	204,4	233,7	292,1	350,5	408,9
13	The minimum consumption of natural gas, 8000 kcal/m3	Nm^3/h	23,4	29,2	35,0	40,9	46,74	58,4	70,1	81,8
14	Necessary pressure of natural gas at the inlet	MPa	0,0025-0,005 (0,1-0,6) At installation gas-regulator set							
15	The efficiency of the boiler room, at least	%	92							
16	NO_x emissions at maximum power	mg/KWh	<155 at work on gas							
17	CO emissions at maximum power	mg/KWh	<16 at work on gas							
18	The noise level at a distance of 1.0 m from the exterior wall	dB	<50							
19	Weight of the boiler house without water-filling (with auto-fill), no more	t	8,9 (11,2)	9,5 (12,1)	14,3 (18,5)	15,0 (18,9)	15,8 (20,6)	16,2 (21,2)	18,8 (24,6)	20,6 (26,3)

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	Technical characteristics of block-modular boiler houses "EXERGY" with capacity of 4 – 10,0 MW									
№	**Index**	**Units of measurement**	**The value of the index from boiler house power capacity**							
1	The installed capacity of the boiler house	MW	4,0	4,5	5,0	6,0	7,0	8,0	9,0	10,0
2	Maximum electric power consumption (without hot water (DHW)	KW	32,0	33,1	33,1	33,5	33,5	41,2	45,5	45,5
3	Maximum electric power consumption (including hot water (DHW)	KW								
4	Thermal performance of DHW circuit	KW	On request							
5	Temperature graph of circuit of heating and ventilation	^{o}C	95-70							
6	Temperature graph of circuit DHW	^{o}C	60							
7	Maximum flow of initial water of boiler room with DHW	m^3/h								
8	Refill for heating system	m^3/h								
9	Required pressure of initial water at the inlet	MPa	0,1-0,45							
10	The maximum water disposal from the boiler room (Technology removal water from chemical water treatment system. Automatically implemented at regeneration of the HVO. When using complexion treatment, water disposal is absent)	m^3/h	0,2	0,2						
11	Emergency discharge of water from the boiler room	l/sec	1,5	1,5						
12	The maximum consumption of natural gas, 8000 kcal/m3	Nm^3/h	467,3	525,7	584,1	700,9	817,8	934,6	1051,4	1168,3
13	The minimum consumption of natural gas, 8000 kcal/m3	Nm^3/h	93,5	105,1	116,8	140,2	163,6	186,9	210,3	233,7
14	Necessary pressure of natural gas at the inlet	MPa	0,0025-0,005 (0,1-0,6) At installation gas-regulator set							
15	The efficiency of the boiler room, at least	%	92							
16	NO_x emissions at maximum power	mg/KWh	<155 at work on gas							
17	CO emissions at maximum power	mg/KWh	<16 at work on gas							
18	The noise level at a distance of 1.0 m from the exterior wall	dB	<50							
19	Weight of the boiler house without water-filling (with auto-fill), no more	t								

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	Technical characteristics of block-modular boiler houses "EXERGY" with capacity of 11,0 – 20,0 MW									
№	**Index**	**Units of measurement**	**The value of the index from boiler house power capacity**							
1	The installed capacity of the boiler house	MW	12,0	14,0	16,0	18,0	20,0			
2	Maximum electric power consumption (without hot water (DHW)	KW	55,5	61,5	85,9	101,9	101,9			
3	Maximum electric power consumption (including hot water (DHW)	KW								
4	Thermal performance of DHW circuit	KW	On request							
5	Temperature graph of circuit of heating and ventilation	^{o}C	95-70							
6	Temperature graph of circuit DHW	^{o}C	60							
7	Maximum flow of initial water of boiler room with DHW	m^3/h								
8	Refill for heating system	m^3/h								
9	Required pressure of initial water at the inlet	MPa	0,1-0,45							
10	The maximum water disposal from the boiler room (Technology removal water from chemical water treatment system. Automatically implemented at regeneration of the HVO. When using complexion treatment, water disposal is absent)	m^3/h								
11	Emergency discharge of water from the boiler room	l/sec								
12	The maximum consumption of natural gas, 8000 kcal/m3	Nm ^{3}/h	1401,9	1635,5	1869,2	2102,8	2336,5			
13	The minimum consumption of natural gas, 8000 kcal/m3	Nm ^{3}/h	280,4	327,1	373,8	420,6	467,3			
14	Necessary pressure of natural gas at the inlet	MPa	0,0025-0,005 (0,1-0,6) At installation gas-regulator set							
15	The efficiency of the boiler room, at least	%	92							
16	NO_x emissions at maximum power	mg/KWh	<155 at work on gas							
17	CO emissions at maximum power	mg/KWh	<16 at work on gas							
18	The noise level at a distance of 1.0 m from the exterior wall	dB	<50							
19	Weight of the boiler house without water-filling (with auto-fill), no more	t								

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