

CONTAINER BOILER ROOM – STEAM



FUEL natural gas, other gas, extra light fuel oil
POWER 0,5 – 8 tons of steam / hour
MEDIUM steam



PRODUCTION / ПРОИЗВОДСТВО



LOADING / ПОГРУЗКА



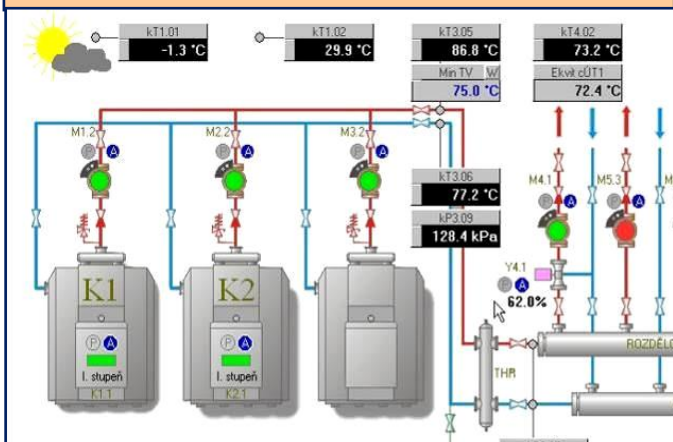
TRANSPORT / ТРАНСПОРТ



INSTALLATION / УСТАНОВКА



MONITORING / МОНИТОРИНГ



REFERENCES / РЕФЕРЕНЦИИ





STANDARD EQUIPMENT

EQUIPMENT COMPLETENESS

COMPLEXITY equipped with complete functional equipment, safety
DOCUMENTS certificate, passports, operating and maintenance instructions

HEATING PART

PARAMETERS max. pressure of 8 bar
BOILER DESCRIPTION steel boiler with a fully automated process of combustion, **efficiency 94%**, power regulation 30 - 100%
SUPPLY TANK heat treatment of water, hot water pump (supply) with continuous flow regulation, flow meter, tank degassing, waste water expander, fittings
CONDENSATE standard return of condensate above 50%, temperature above 80°C

FUEL PART

FUEL natural gas, calorific value 33 – 34 MJ/m³, inlet pressure up to 4 bar
EQUIPMENT GAS gas supply to the burner, gas pressure regulator, emergency fuel shutoff, fittings
FUEL OIL extra light fuel oil, calorific value 42 MJ/kg, density of 820 - 860 kg/m³
EQUIPMENT OIL oil supply to the burner, emergency fuel closure, fittings
EMISSION GAS (OIL) GAS - Nox max. 100 mg/ m³, OIL - Nox max. 200 mg/ m³ (standard EU)

WATER PART

EQUIPMENT chemical treatment of water, automatic addition of water to the heating system, operating pressure max.10 bar, min. 4 bar
GAUGES water meter

ELECTRIC PART

PARAMETERS voltage 400 V, difference max. 10%, frequency 50 Hz
EQUIPMENT complete electrical installation, lighting, ventilation
REGULATION regulation of the burner power according to the steam output pressure, automatic monitoring of the water level in the boiler, automatic control of water heat treatment (supply tank), automatic boiler cleaning and sludge removal, automatic closing of the emergency fuel in case of an emergency
CONTROL SYSTEM AMIT main control unit with remote visualization and remote data collection to a computer (e.g. temperature, pressure, data from gauges etc.), the control system is programmable
GSM MODUL reporting emergency situations using the GSM module
OPERATION automatic operation of the boiler room without a permanent operator, (check 1 x 24 or 72 hours)
GAUGES electricity meter

CONTAINER

COMPOSITION thermally insulated “sandwich” (galvanized steel, non-combustible mineral wool), light colors, construction of the container is designed for the outside air temperature to -25°C
FIRE RESISTANCE **30 minutes** - benefit for the location of the boiler room near buildings
VENTILATION provides supply of combustion air to the burners, removal of excess heat from the boiler room

CHIMNEY

COMPOSITION chimney 6 m high, 3-component (stainless steel sheet, thermal insulation, stainless steel sheet), the chimney is attached to the container using a structure



EXTRA - STANDARD EQUIPMENT

HEATING PART

HIGHER PRESSURE SUPPLY TANK steam pressure higher than 8 bar
GAUGES reserve pump with automatic start-up
steam meter

FUEL PART

REGULATOR reserve regulator of gas pressure
GAUGES gas meter (gas meter corrector), oil meter
NOISE DAMPER for the burner - used in the installation of boilers in housing developments
BURNER GAS – OIL combined burners for both types of fuel - natural gas and fuel oil

WATER PART

WATER TANK cold water tank for adding water by pump to the heating system (used in case of low or unstable water pressure)

ELECTRIC PART

DIESEL GENERATOR reserve diesel aggregate as a source of electrical energy for the boiler room including the fuel tank
COGENERATION gas MIKRO cogeneration unit for the production of part of the electricity for the boiler room's own needs (the parallel operation of cogeneration and electrical grid with purchasing electricity from the grid)

CONTAINER

ARCTIC construction of the container is designed for the outside air temperature below -25°C
BIGGER SPACE when installing extra-standard equipment, it is sometimes necessary to enlarge or add another container
VENTILATION ventilation including air filtration (for sandy areas)
AIR CONDITIONING air conditioning split-unit (for hot regions)
COLOR other than light grey

CHIMNEY

HEIGHT max. 21 m including steel structure
NOISE DAMPER for the chimney - used in the installation of boilers in housing developments

FUEL STORAGE - OIL

FUEL STORAGE separate container (12 000 or 15 000 l)

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TYPES

MAIN COMPONENTS

BOILERS	GERMANY MADE (VIESSMANN)
BURNERS	ITALY MADE (RIELLO)
	GERMAN MADE (WEISHAUPT)
CONTAINERS	CZECH MADE
CONTROL SYSTEM	CZECH MADE (AMIT)
CHIMNEYS	CZECH MADE



TYPES

type boiler room	power boilers MW	power boilers t/h.	boiler pcs	power boilers room MW	fuel	types boilers	container pcs	weight 1 cont. tons	electric	orientation size		
									power input kW	legth m	width m	height m
COMPACT	0,33	0,50	1	0,5	GAS-OIL	VIES	1	9	13	8	3	3,3
COMPACT	0,33	0,50	2	1,0	GAS-OIL	VIES	2	9	27	8	3	3,3
COMPACT	0,48	0,70	1	0,7	GAS-OIL	VIES	1	9	13	9	3	3,3
COMPACT	0,48	0,70	2	1,4	GAS-OIL	VIES	2	9	27	9	3	3,3
COMPACT	0,66	1,00	1	1,0	GAS-OIL	VIES	1	9	14	9	3	3,3
COMPACT	0,66	1,00	2	2,0	GAS-OIL	VIES	2	9	28	9	3	3,3
COMPACT	0,86	1,30	1	1,3	GAS-OIL	VIES	2	9	14	9	3	3,3
COMPACT	0,86	1,30	2	2,6	GAS-OIL	VIES	3	9	28	9	3	3,3
COMPACT	1,09	1,65	1	1,7	GAS-OIL	VIES	2	9	15	10	3	3,3
COMPACT	1,09	1,65	2	3,3	GAS-OIL	VIES	3	9	30	10	3	3,3
COMPACT	1,32	2,00	1	2,0	GAS-OIL	VIES	2	11	15	9	3	3,3
COMPACT	1,32	2,00	2	4,0	GAS-OIL	VIES	3	11	30	9	3	3,3

maximum steam pressure 6, 8, 10, 13, 16, 18, 20, 22 bar
 operating steam pressure 90% max. steam pressure

MODULAR SYSTEM BOILERS ROOM

Assembling multiple pieces of modular containers = higher power boiler room

