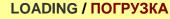
FUEL POWER MEDIUM natural gas, other gas, extra light fuel oil 0,7 – 8 MW

hot water



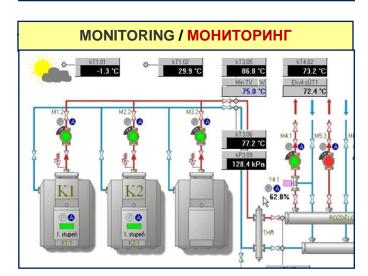
PRODUCTION / ПРОИЗВОДСТВО







TRANSPORT / TPAHCIOPT



INSTALLATION / YCTAHOBKA

REFERENCES / РЕФЕРЕНЦИИ



1

is programmable

electricity meter

STANDARD EQUIPMENT

EQUIPMENT COMPLETENESS

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

HEATING PART

PARAMETERS	max. pressure of 6 bar, max. temperature 95 °C, temperature gradient of 90/70°C
BOILER DESCRIPTION	steel boiler with a fully automated process of combustion, efficiency 92%, power
	regulation 30 - 100%
EQUIPMENT	primary pump, mixing valve, secondary pump with displacement of 10 m, fittings,
	one heating circuit
EXPANSION SYSTEM	expansion devices for water volume of 1 m ³ / 100 kW, safety devices
THERMAL INSULATION	of all equipment (mineral wool with an aluminum foil surface)

FUEL PART

FUEL	natural gas, calorific value 33 – 34 MJ/m ³ , 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/m ³
EQUIPMENT OIL	oil supply to the burner, emergency fuel closure, fittings
EMISSION GAS (OIL)	GAS - Nox max. 100 mg/ m ³ , OIL - Nox max. 200 mg/ m ³ (standard EU)

voltage 400 V, difference max. 10%, frequency 50 Hz complete electrical installation, lighting, ventilation

reporting emergency situations using the GSM module

WATER PART

EQUIPMENT

GAUGES

water softening, automatic addition of water to the heating system, operating pressure max.10 bar, min. 4 bar water meter

regulation of the burner power according to the outside temperature (equitherm

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

regulation), automatic closing of the emergency fuel in case of an emergency

automatic operation of the boiler room without a permanent operator

ELECTRIC PART

PARAMETERS EQUIPMENT REGULATION

CONTROL SYSTEM

GSM MODUL OPERATION GAUGES

CONTAINER

COMPOSITION

VENTILATION

FIRE RESISTANCE

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

30 minutes - benefit for the location of the boiler room near buildings provides supply of combustion air to the burners, removal of excess heat from the boiler room

<u>CHIMNEY</u>

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

PARAMETERS	medium pressure higher than 6 bar, temperature higher than 95 °C
REZERVE PUMP	primary side – pump without installation
	primary side – pump including fittings and installation
	secondary side – pump without installation
	secondary side – pump including fittings and installation
STRONGER PUMP	secondary pump with a higher discharge than 10
GAUGES	heat meter
TEMPER. GRADIENT	other temperature gradient than 90/70°C
HEAT EXCHANGER	installation between the boiler room and secondary heat distribution (boiler room
	protection)
EXPANSION SYSTEM	expansion device for water volume higher than 1m3 / 100 kW

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)
PWH	equipment for the preparation of hot water (DHW) according to the maximum hourly
	water consumption + water meter

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
FLUE EXCHANGER	exchanger for higher boiler efficiency (economizer), efficiency 96,8%
NOISE DAMPER	for the chimney - used in the installation of boilers in housing developments

FUEL STORAGE - OIL

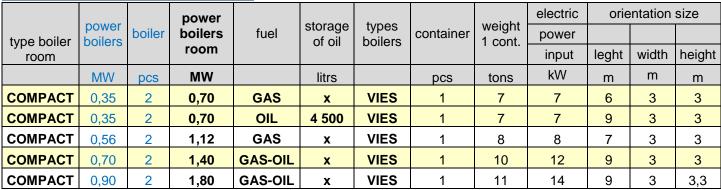
POWER MAX. 700 kW POWER MIN. 700 kW fuel storage of 4,500 liters is located in a separate part of the boiler room separate container (12 000 or 15 000 l)

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

2 BOILERS IN ONE CONTAINER



1 BOILER IN ONE CONTAINER

			power			t		weight		orientation size			
type boiler	power boilers	boiler	boilers	fuel	storage of oil	types boilers	container	weight 1 cont.	power				
room	Denere		room		01 01			1 oonu	input	leght	width	height	
	MW	pcs	MW		litrs		pcs	tons	kW	m	m	m	
COMPACT	1,30	2	2,6	GAS-OIL	x	VIES	3	8	17	9	3	3	
COMPACT	1,30	3	3,9	GAS-OIL	x	VIES	4	8	22	9	3	3	
COMPACT	1,30	4	5,2	GAS-OIL	x	VIES	6	9	27	9	3	3	
COMPACT	1,60	2	3,2	GAS-OIL	x	VIES	3	9	19	9	3	3	
COMPACT	1,60	3	4,8	GAS-OIL	x	VIES	4	9	24	9	3	3	
COMPACT	1,60	4	6,4	GAS-OIL	x	VIES	6	9	29	9	3	3	
COMPACT	1,95	2	3,9	GAS-OIL	x	VIES	3	9	20	9	3	3	
COMPACT	1,95	3	5,9	GAS-OIL	x	VIES	4	9	25	9	3	3	
COMPACT	1,95	4	7,8	GAS-OIL	х	VIES	6	9	30	9	3	3	

MODULAR SYSTEM BOILERS ROOM

Assembling multiple pieces of modular containers = higher power boiler room



<u>PRODUCER</u> / <mark>ПРОИЗВОДИТЕЛЬ</mark> TZB Orlová s.r.o. CZECH REPUBLIC



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