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TECHNICAL DOCUMENTATION

Grand Max plus 8 with exchanger





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TECHNICAL SHEET of the fireplace stove **Grand Max plus 8** with exchanger

Suitable fuel:

As concerns suitable fuel to be employed, see the chapter **2.2 Fuel** in the General Manual of Operation.

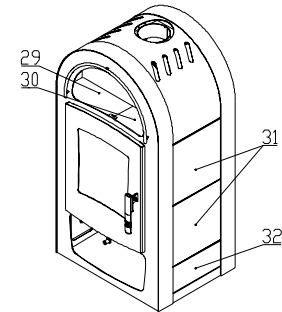
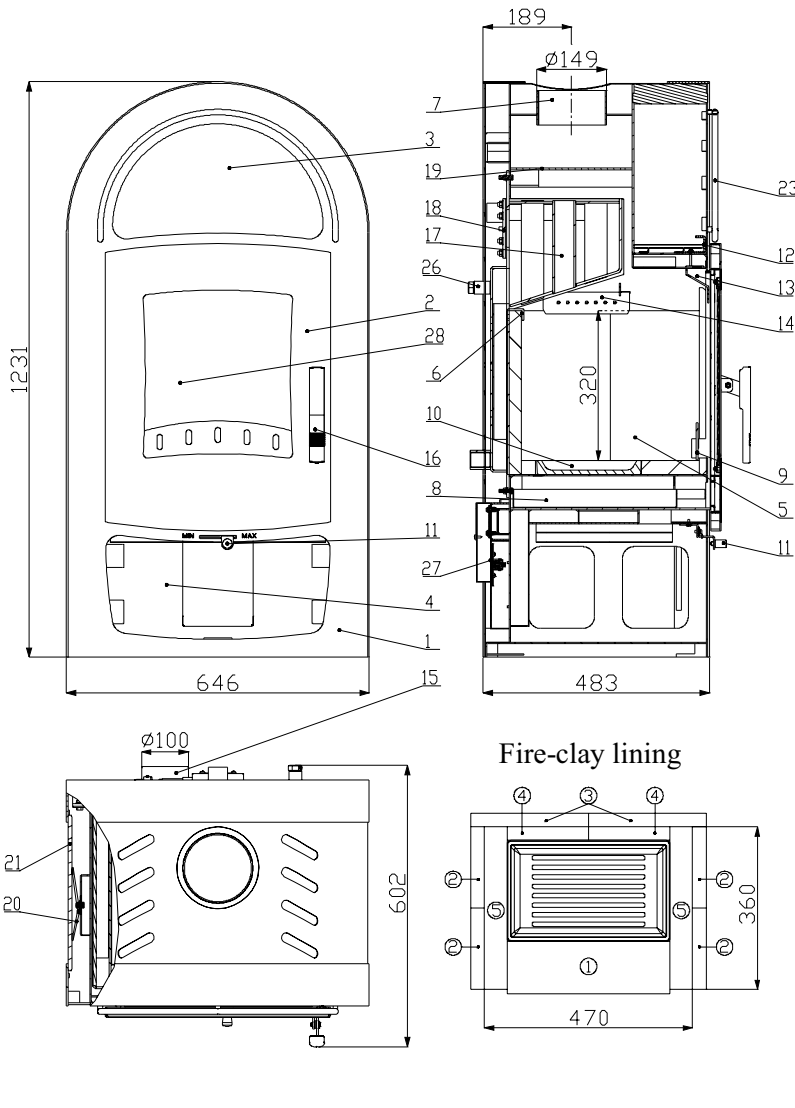
Proper operation:

As concerns the proper and safe operation of the fireplace stove, see the chapters **2. Description of the combustion process** and **5. Operating instructions** in the General Manual of Operation.

The heat exchanger can be removed and substituted with a blind flange.

The loop cover on the heat exchange unit is removable and you can replace it with a cooling loop unit.

Fire-clay No.	Dimension	Goods No.
1	30x125x360	0431317015501
2	30x180x350	0431317015502
3	30x260x340	0431317015503
4	30x30x179	0431317015504
5	30x55x360	0431317015505



TECHNICAL DESCRIPTION:

Position	Name	Goods No.	Position	Name	Goods No.
1	Stove body	-	23	Decorative arch	0084010040005
2	Fire-box door	0431317015300	24	Outlet of heating water G1"	-
3	Oven	-	25	Intake of return water G1"	-
4	Fuel bunker	-	26	Thermowell for exchange unit thermostatic sensor G1/2"	0431317006050
5	Fire-clay lining	-	27	Automatic air control (flap)	0431317006601
6	Holder of the fire-clay	0416315115501	28	Refractory glass	0473017105301
7	Smoke flue neck	-	29	Oven panelling - left/beige	0431317006111
8	Ash pan	0464017116600	30	Oven panelling - right/beige	0431317006112
9	Protection	0431317015008	31	Panelling - beige	0061001000205
10	Cast-iron grate	0020100100006	32	Panelling - lower/beige	0431317006113
11	Controller of primary air	0082010010005	33	Thermowell for cooling loop G 1/2" thermostatic sensor	-
12	Controller of secondary air	0431317005009	34	Intake of cooling liquid G3/8"	-
13	Intake of secondary air	-	35	Outlet of cooling liquid G3/8"	-
14	Intake of tertiary air	-	36	Coolant loop	0431317006064
15	External intake of air (dia. 100)	-			
16	Lever lock of the fire-box door	0431317015318			
17	Heat exchanger	0431317026000			
18	Loop cover	0431317006061			
19	Lip - fixed	-		Sealing cord of the door 14 mm (2220 mm)	0040014140005
20	Spring holder of the lining	0088400010005		Glass holder sealing rope 8x2 mm (96 mm)	0040208020006
21	Lining of the shell	-		Sealing cord of the glass and of the exchanger 10x4 mm (1380/2650 mm)	0040210040005



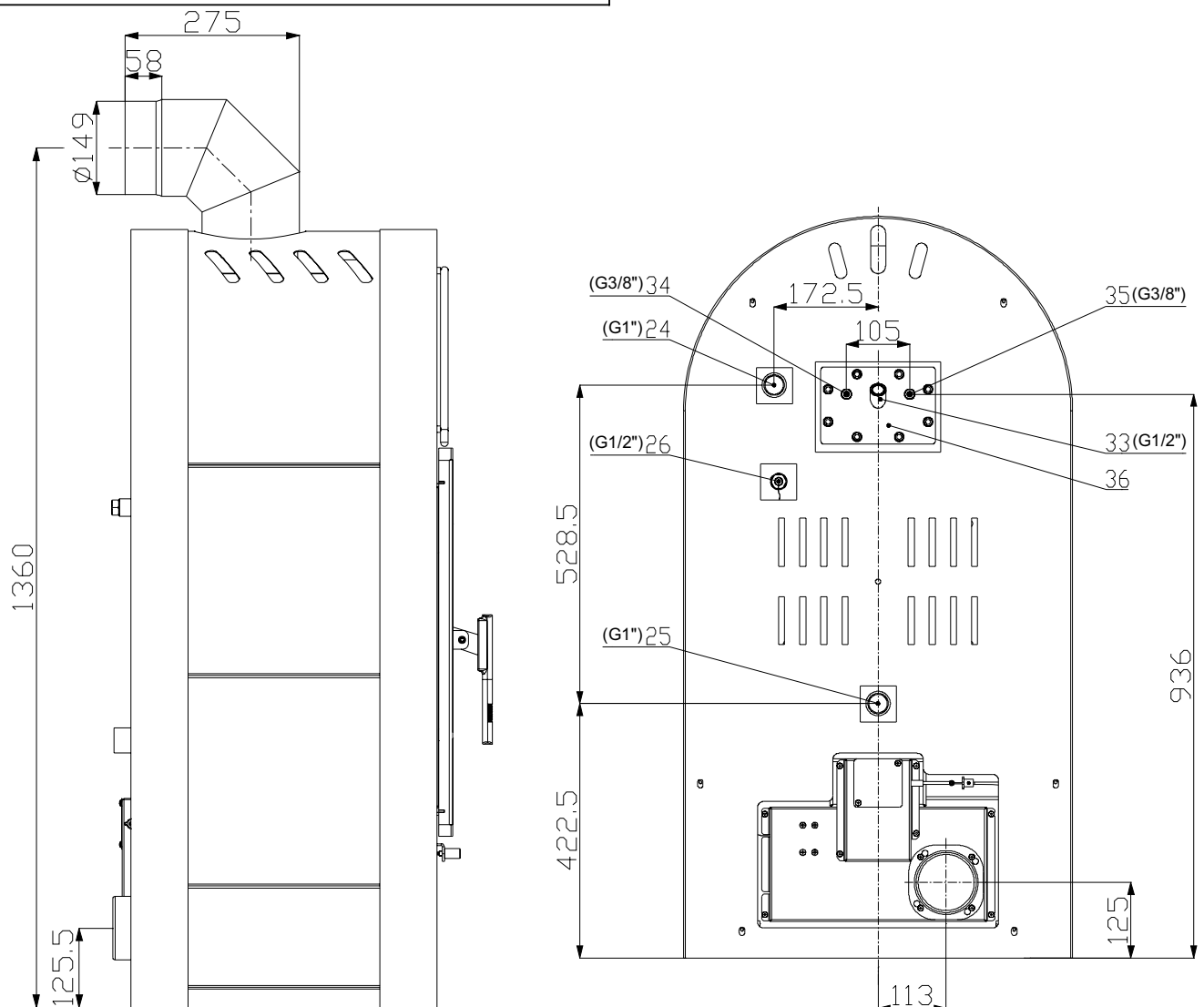
TECHNICAL INFORMATION

INSTRUCTIONS FOR THE CONTROL OF COMBUSTION PROCESS:								
Fuel	Output of the heating device							
	100%	33%	100%	33%	100%	33%	100%	33%
	Amount of fuel		Primary air		Secondary air		Tertiary air	
Blockwood	3,4 kg/h	1,1 kg/h	open 5%	open 5%	open 100%	open 50%	non-controllable	
Ecological briquettes	3,5 kg/h	1,2 kg/h	open 10%	open 10%	open 100%	open 50%	non-controllable	
Coal briquettes	2 kg/h	0,7 kg/h	open 100%	open 50%	open 100%	open 50%	non-controllable	

TECHNICAL DATA:	Blockwood	Ecological briquettes	Coal briquettes		
Achieved heat output (100%)	13 kW	13 kW	10 kW	Height	1231 mm
Reduced heat output (33%)	4,3 kW	4,3 kW	3,3 kW	Width	646 mm
Output delivered by the stove body only	5,7 kW	4,7 kW	4,7 kW	Depth	483 mm
Output available for heating of water	7,3 kW	8,3 kW	5,3 kW	Weight	205 kg
Maximum stoking amount of the fuel	3,4 kg/h	3,5 kg/h	2 kg/h	Diameter of the smoke flue	150 mm
Average temperature of combustion products behind the smoke flue neck	279 °C	288 °C	241 °C	Maximum operating over-pressure of the exchanger	0,3 MPa
Maximum mass flow of dry combustion products	8,7 g/s	9,7 g/s	14,2 g/s	Water contents of the exchanger	18,6 l
Energy efficiency	84,5 %	83,7 %	74 %	Recommended heat gradient (t output – t input)	75 - 60 °C
Average concentration of CO ₂	11,3	10,8	5,6	Min. chimney stack draught in the smoke flue neck	12 Pa
Concentration of CO in combustion products at 13 % O ₂	0,30	0,20	0,16	Heating capacity (middle heat losses) at 13 kW	cca. 234 m ³
The amount of combustion air at nominal output	7,3 m ³ /kg	7,9 m ³ /kg	21,6 m ³ /kg	Controllable output	3,3 – 13 kW
Tested in compliance with EN 13 240:2001/A2:2004 a ČSN 06 1008:1997	CE			Maximum temperature of output water	80 °C

DIMENSIONED DIAGRAM OF THE FIREPLACE STOVE WITH INSTALLATION OF KNEE-PIECE FOR EXHAUST OF COMBUSTION PRODUCTS, DELIVERED AS OPTIONAL ACCESSORY

REAR VIEW OF THE EXCHANGER AND COOLANT LOOP

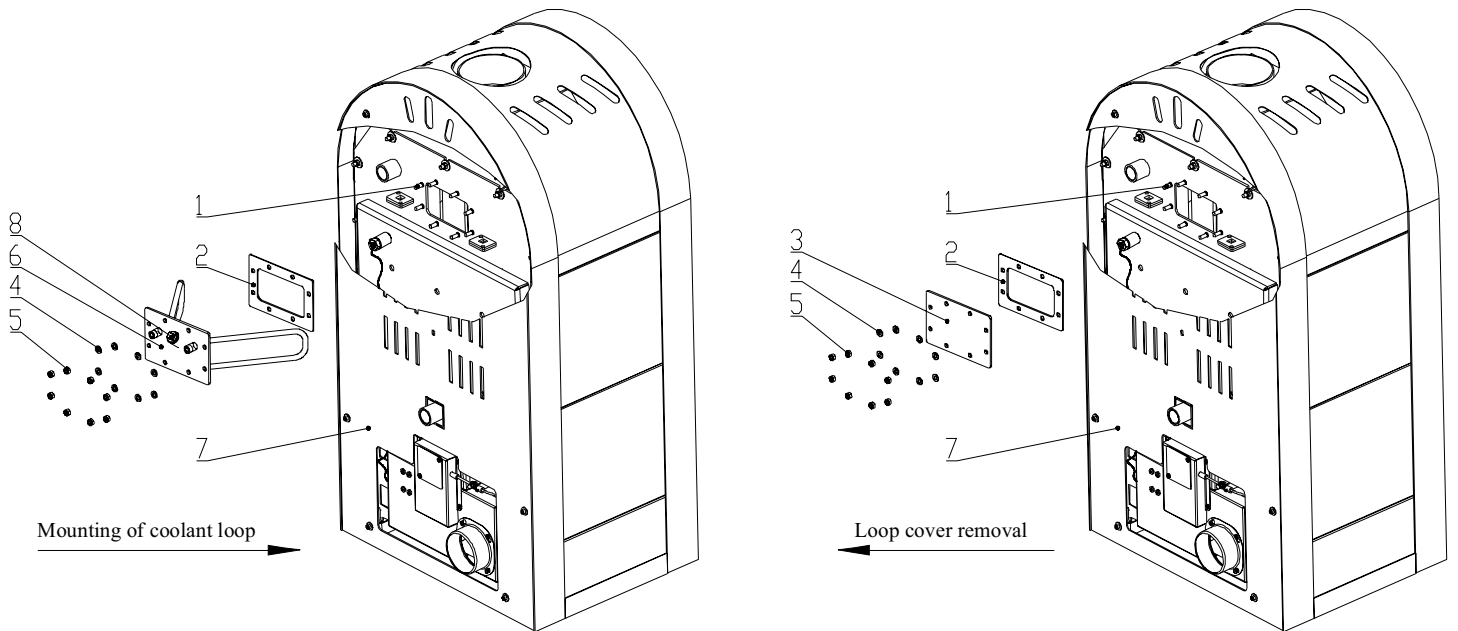




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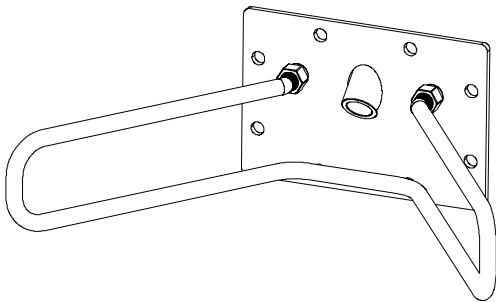
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INSTALLATION OF THE COOLANT LOOP

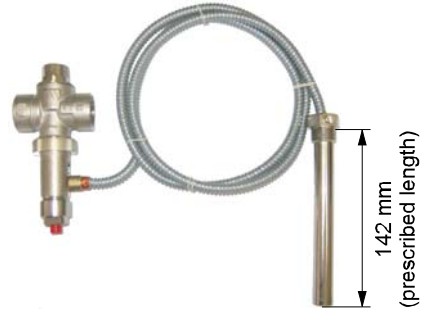


Legend:			
1. Screw M8		5. Nut M8	8 pcs
2. Sealing	1 pcs	6. Coolant loop	1 pcs
3. Loop cover	1 pcs	7. Rear cover (remove it for installation of the cooling unit)	1 pcs
4. Washer M8	8 pcs	8. Thermowell for temperature safety valve	

COOLANT LOOP
(not included in the scope of the delivery)



SAFETY THERMO VALVE (example: STS20)
(not included in the scope of the delivery)



HOW TO HANDLE THE COOLING LOOP IN THE HEAT EXCHANGE UNIT

