

Wood-Pellets Stove HELENA 8/12 KW

Basic product data



termomont



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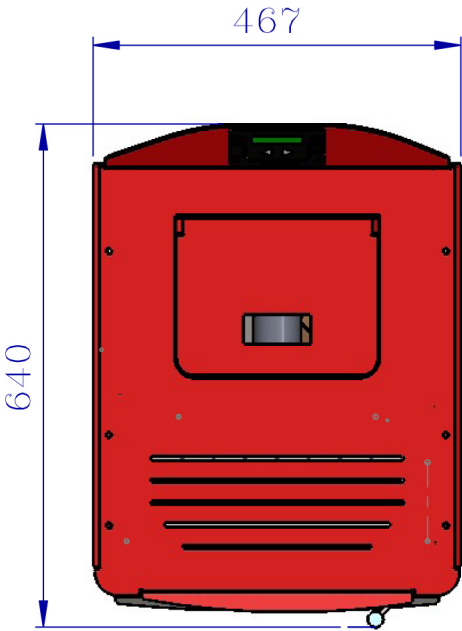
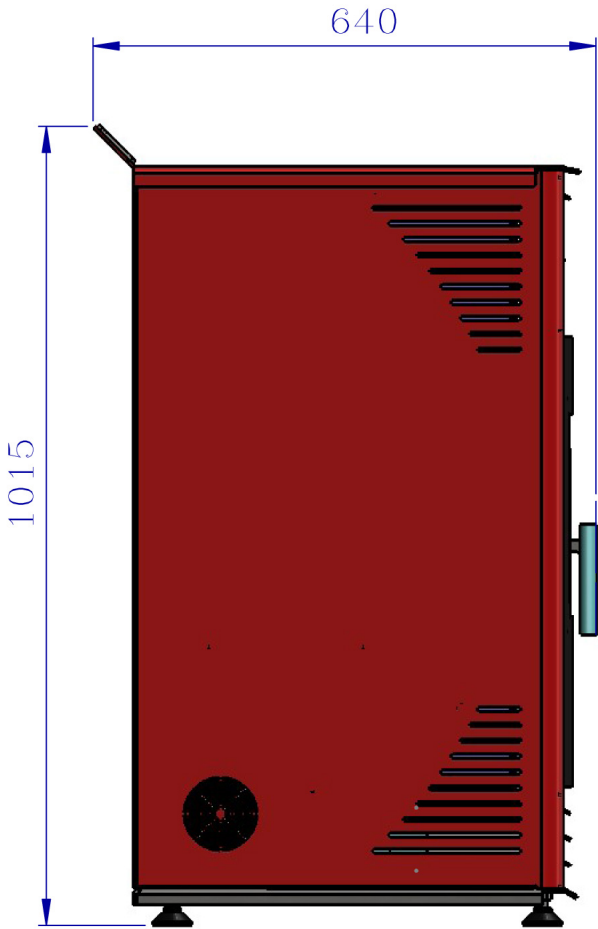
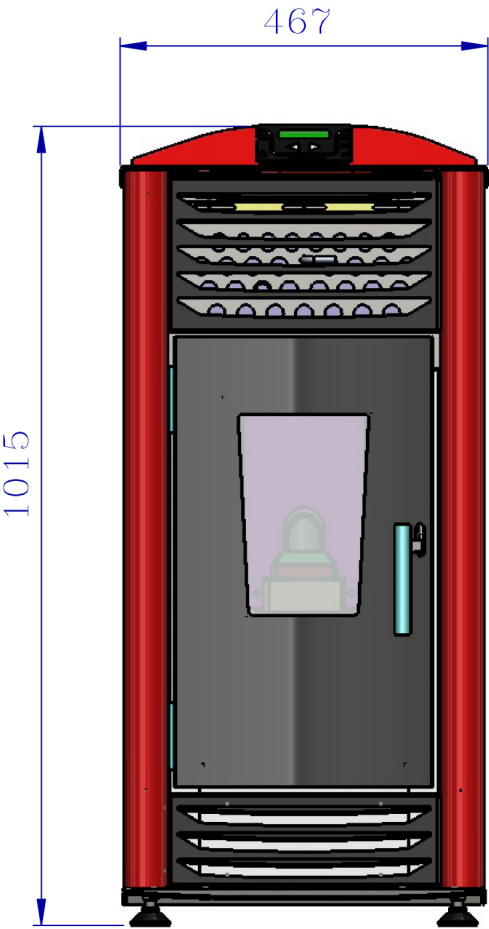
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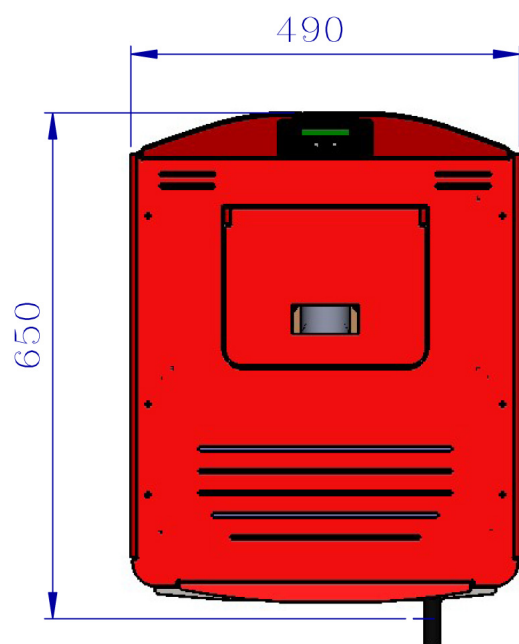
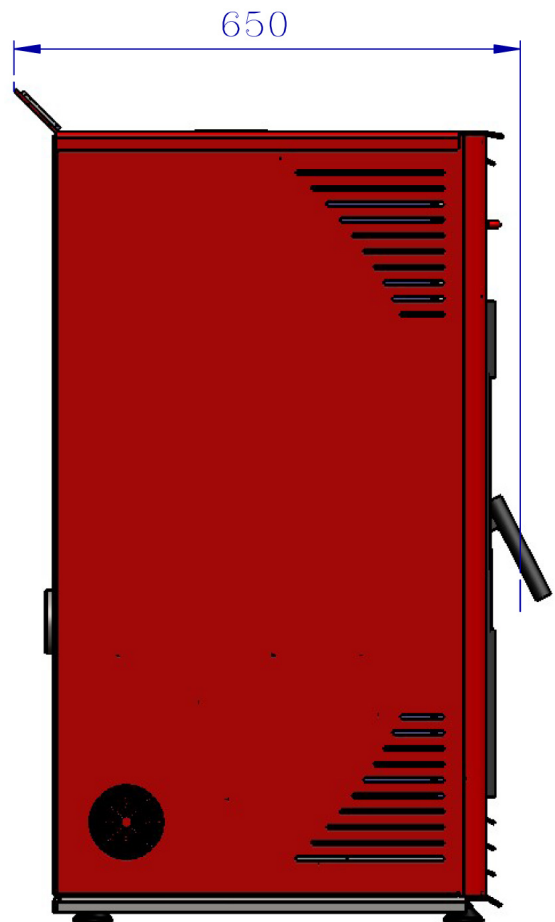
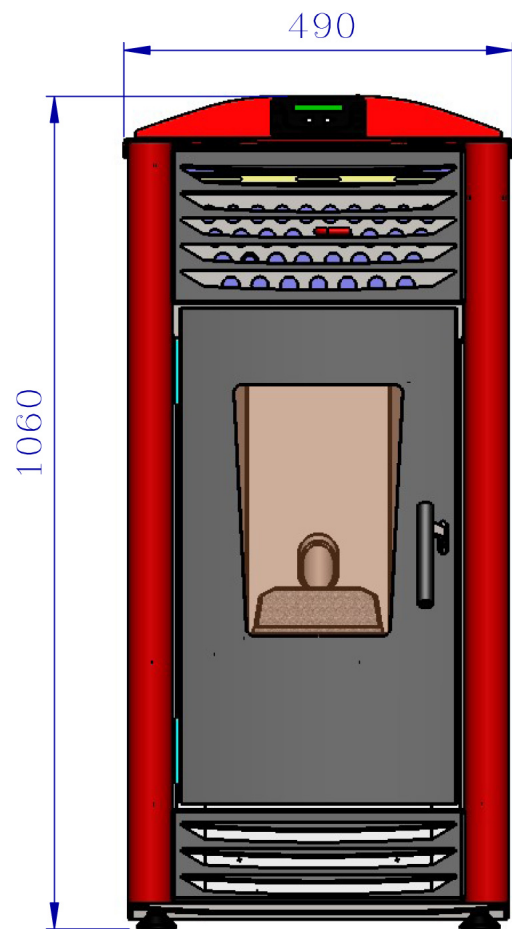
1 Available colours

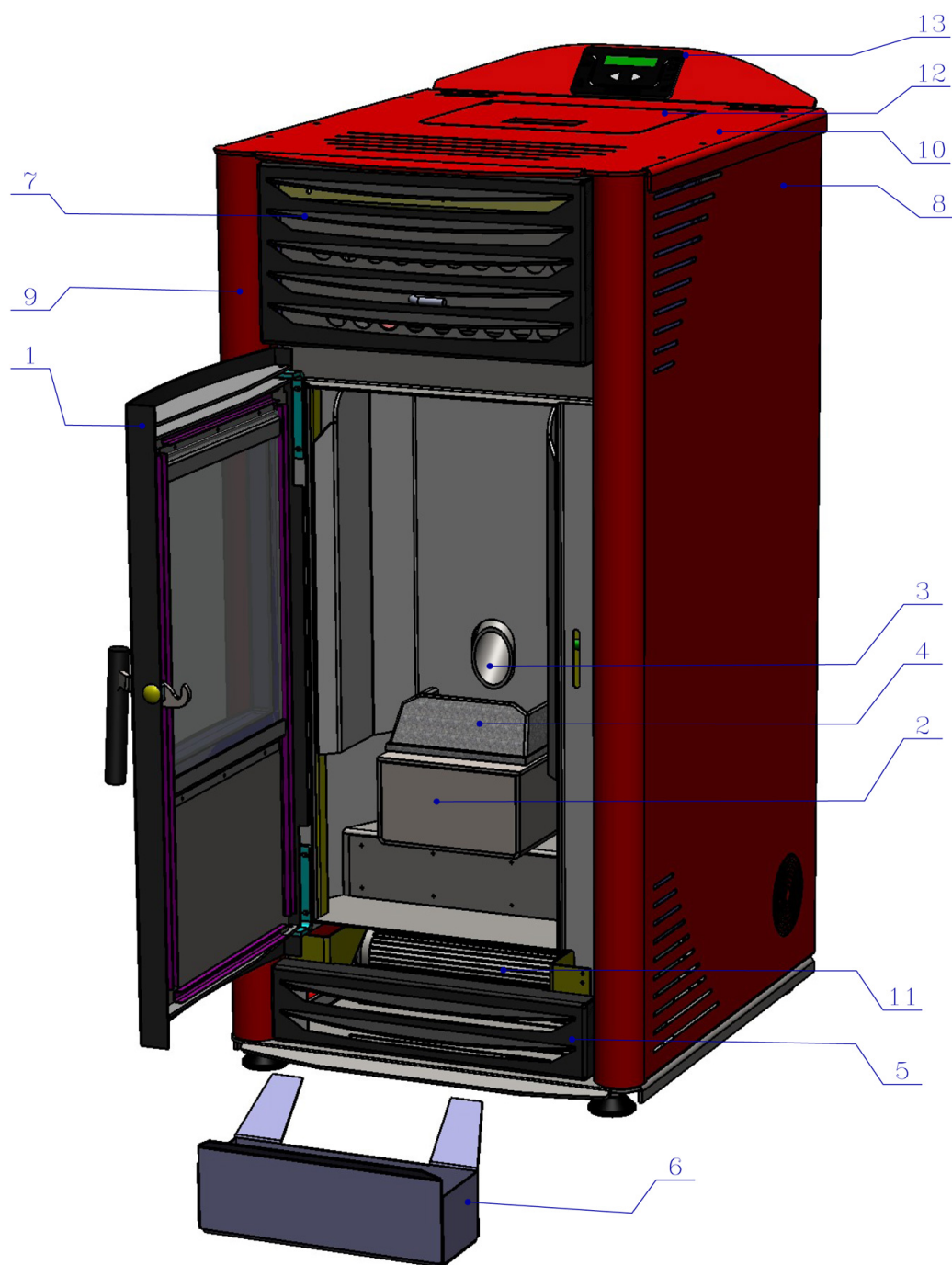


2 Measures HELENA 8



3 Measures HELENA 12





1.Stove door 2. Burner with primary and secondary air distribution 3. Pellet dosing auger 4. Burner pot
 5. Boiler housing - lower part 6. Ash-tray 7. Boiler housing - upper part 8. Left panel 9. Right panel 10.
 Upper panel 11. Ambient air fan 12. Pellet magazine cover 13. Control board

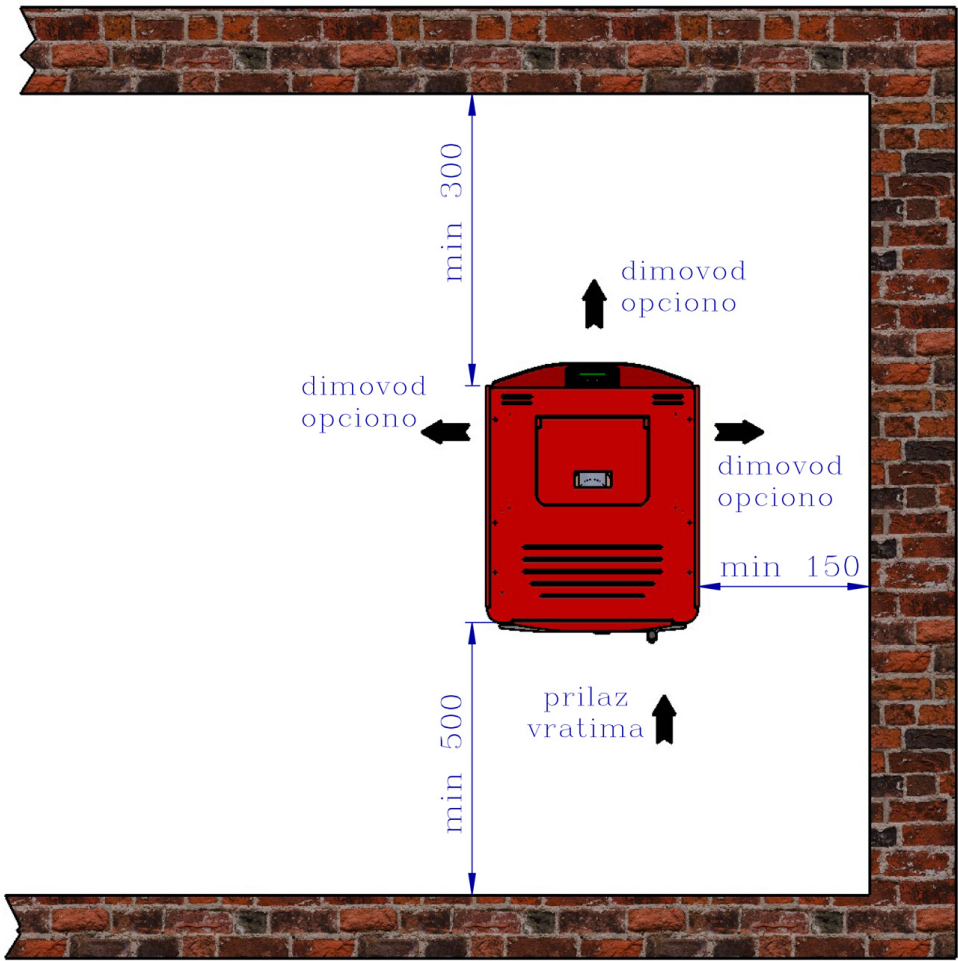
4 On product "HELENA" - ambient wood stove pellet

- Wood pellet kamin stove "HELENA" is aimed for smaller houses and apartments (up to 120 sqm). Fireplace is available in four colours as shown above.
- The heat is distributed by heat-radiation (kamin functionality) and also by built-in ambience fan (480 m³/h air flow).
- Fireplace burner is constructed in a way that in combines primary and secondary air so the flame is efficient.
- Stove works fully automatic (ignition, combustion, turning off).
- The fireplace can be connected to a room thermostat.
- Basic version comes with a standard display (touch screen is available as an upgrade). Buying an additional wi-fi router regulation can be connected to the internet allowing remote control via smartphone app.
- There is a safety thermostat built-in to prevent overheating.
- Highest ecological requirements are fulfilled regarding low emissions prescribed in the EU ("Eco-Design").
- Easy access to combustion chamber when cleaning the stove - ashtray included.

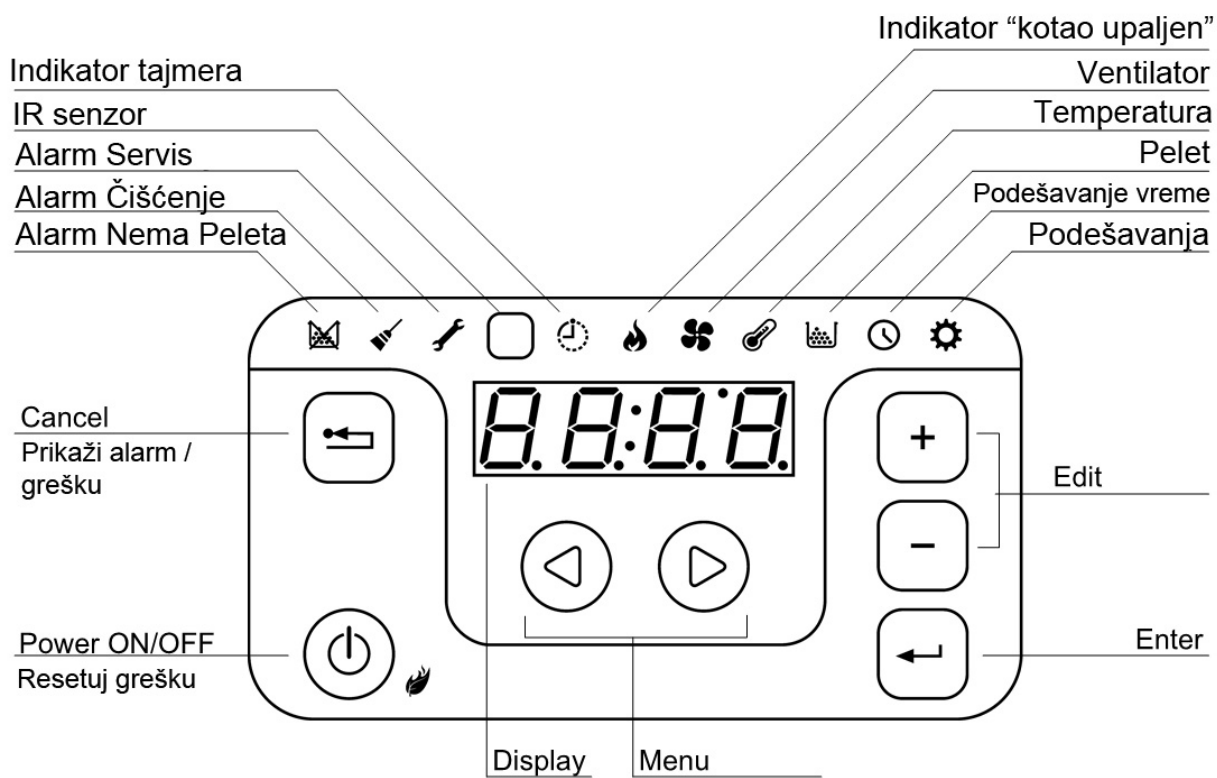
5 Technical data

Stove type	HELENA 8	HELENA 12
Total power	8 KW	12 KW
Stove weight	95 kg	120 kg
Flue gas exit diameter	80 mm	80 mm
Flue gas exit temperature	160 °C	160 °C
Max ambient air flow	480 m ³ /h	480 m ³ /h
Pellet magazine capacity	15 kg	15 kg
Max power pellet consumption	1.25 kg/h	1.87 kg/h
Electrical connection	220 V 50 Hz	220 V 50 Hz
Electric energy consumption during start-up	400 W	400 W
Electric energy consumption in steady state	200 W	200 W
Boiler efficiency	90 %	90,5 %

6 Minimum distances during installation



7 Control board



8 Stove cleaning and maintenance



Before accessing the stove, make sure that all the parts are cold.



Wearing technical gloves is mandatory when accessing the stove for cleaning purposes



Lack of cleaning will lead to product deterioration and heat losses.

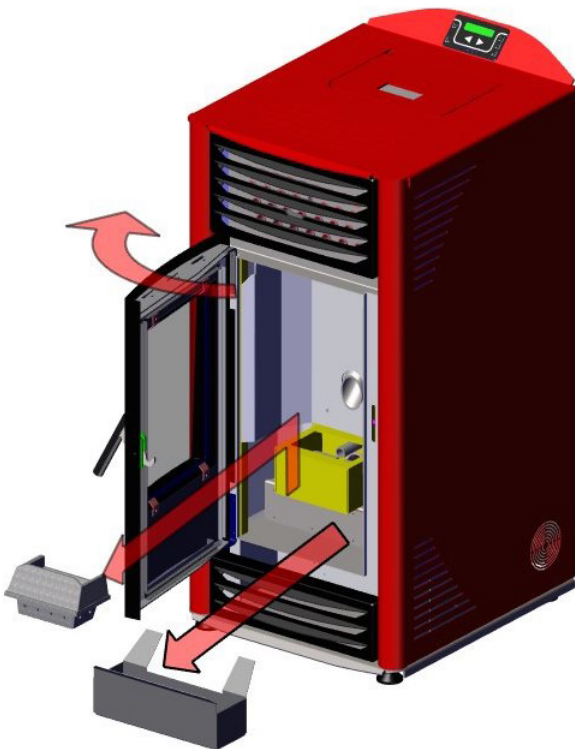


Only certified wood pellet is allowed to use with this stove.

Regular cleaning consists of:

1. Emptying the ash-tray from ashes and residues
2. Removing the ash from the bottom part of the stove
3. Removing ash from the burner pot
4. Removing ash from the basement where burner pot is situated
5. Removing the ash from the heat-exchanger in the upper part of the stove by moving the handle back and forth.

The cleaning process is faster and easier with a help of special vacuum cleaner for stoves (to be purchased separately)



9 Electric connection scheme

Same type of the regulation is used as for our standard TOBY pellet boilers. The only difference when connecting is that the ambient fan is connected on the port of the circulation pump. Instead of a bridging the first input, STB (safety temperature limiter) is connected here.

IMPORTANT: - If there is nothing connected to I02, you must bridge it with wire. - If there is nothing connected to I01, you must bridge it with wire. - The total average electrical current consumption of devices connected to O02+O03+O04+O05+O06+O07, must NOT exceed 1.2A . - The power of the IGNITER, connected to O01, must NOT exceed 450W .		LEGAL NOTICE: »With installation of the Fumis product the firer is pledging, that the product shall be set up the product according to producer's instructions and only into devices enabling a safe setting and operation of the product being accordant with applicable national and international standards. The buyer assumes the whole responsibility for damage that may arise as a result of incorrect installation of the Fumis product. Installation of the product into device which doesn't assure safe operation or, regarding to actual circumstances, unsuitable setting operation of the product or device, and other damages which are result of unsafe characteristic of device, in connection with Fumis product.«	
1 DOOR OPEN SWITCH 2 PELLETS LEVEL SENSOR (capacitive switch) 3 LEVEL THERMOC 4 HALL SPEED SENSOR 5 EXTERNAL THERMOSTAT 6 WATER TEMP. SENSOR (NTC) 7 AIR TEMP. SENSOR (NTC) 8 BACK WATER TEMP. SENSOR (NTC) 9 SECONDARY ROOM TEMP. SENSOR (NTC) 10 ACCUMULATOR TEMP. SENSOR (NTC) 11 FLAME DETECTION SENSOR 12 FLUE GAS TEMP. SENSOR (K-type) 13 AIR FLOW SENSOR (Tube connection) 14 IGNITER (max. 450W) 15 FAN 1 as PRIM. COMB. FAN or CHIMNEY FAN 16 FAN 2 as CHIMNEY FAN or SECONDARY COMB. FAN 17 FAN 2 as AMBIENT FAN 18 FAN 3 as SECONDARY ROOM FAN 19 PELLETS FEEDER 1	20 PELLETS FEEDER 2 21 SAFETY TEMPERATURE LIMITER (WATER) STB 22 SAFETY TEMPERATURE LIMITER (PELLETS) STB 23 ADDITIONAL SAFETY SWITCH 24 AIR PRESSURE SAFETY SWITCH 25 WATER PRESSURE SAFETY SWITCH 26 WATER PUMP 27 BACK WATER PUMP (By-pass) 28 MODULATED WATER PUMP (Inverted pump) 29 ASH EXTRACTION AUGER 30 MECHANICAL CHAMBER CLEANING 31 AIR PULSE CLEANING 32 FLOW THERMOC 33 PELLET TEMP. SENSOR (NTC) 34 SPECIAL OUTPUT 35 LAMBDA PROBE 36 ANALOG WATER PRESSURE SENSOR 37 COMBUSTION CHAMBER TEMPERATURE	NOT TO BE HANDED OVER TO USED OR COVERED BY THIRD PARTY ALL RIGHTS RESERVED AND PROTECTED BY COPYRIGHT LAW	

ALFA 40
Peč na pelet
(suvi kamin)
HELENA

NOTE:
Circuit breaker, added by customer.

Designed: Martin Skalska		Revision: 1	
Approved: 06.08.2012		Signature: _____	
Title: _____		Date: _____	
ID No. _____		Scale: _____	
Sheet: 1		Status: 1	
Status: PRO		Status: AUC	

By: Helen Electronics
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