

Operation manual Rassoul–Fi1

Controller for the automatical process of Rasul treatments

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1. Function

After pressing a push-button that is mounted outside the steam room the programme is activated. The room light is switched-off and the generator for the fiberoptics (not included in the standard scope of delivery) is activated (230V). After a pre-adjustable time (5 – 16min), in which the Rassoul treatments take place, the steam generator gets the signal to produce steam. Afterwards a red light (option) is switched-on over every seat. App. 10 seconds later a solenoid valve opens and the nozzles over the seats start to spray out a drizzle rain. After the shower the basic illumination is switched-on and the unit is ready for operation again.

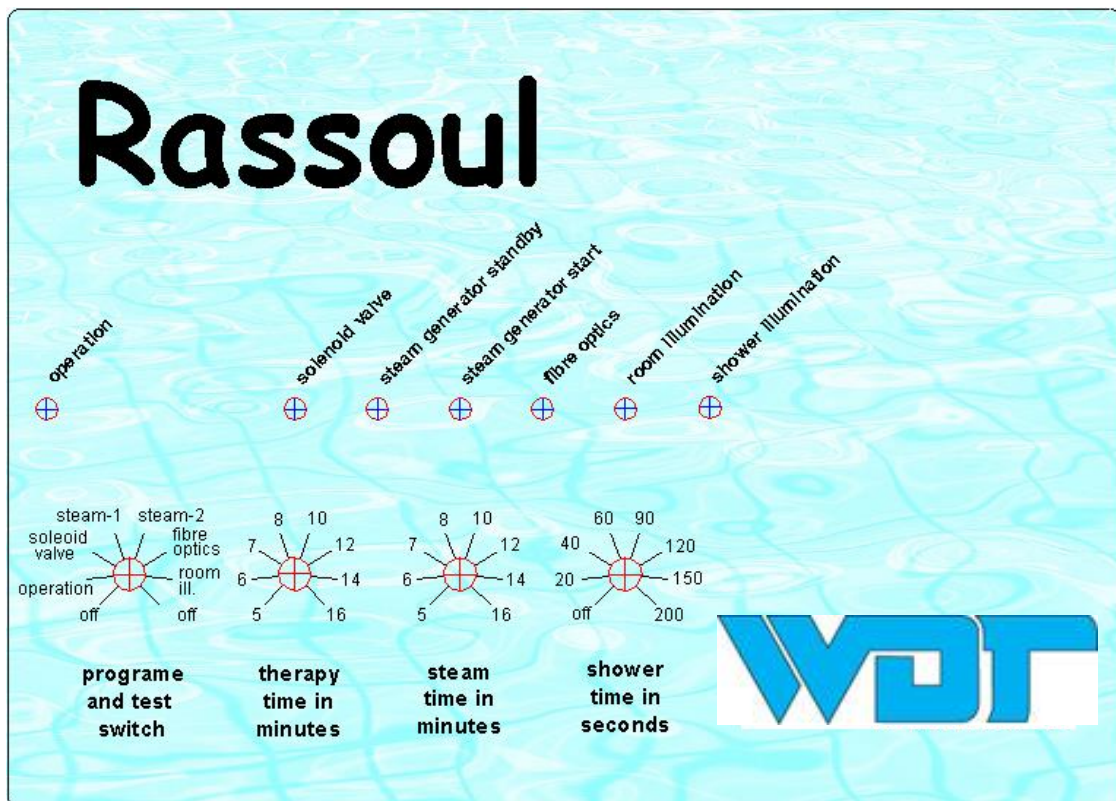
The set-up of the programme is done by rotary knobs at the front plate of the controller (see next page):

Programme and Test switch: By this knob every single function of the controller can be tested. The functioning is indicated by a shining of the accordant LED at the control housing. For the standard operation the Poti has to be set on "operation".

Therapy time in minutes: Here you adjust the time between the switch-off of the room illumination and and the start of the steam generator.

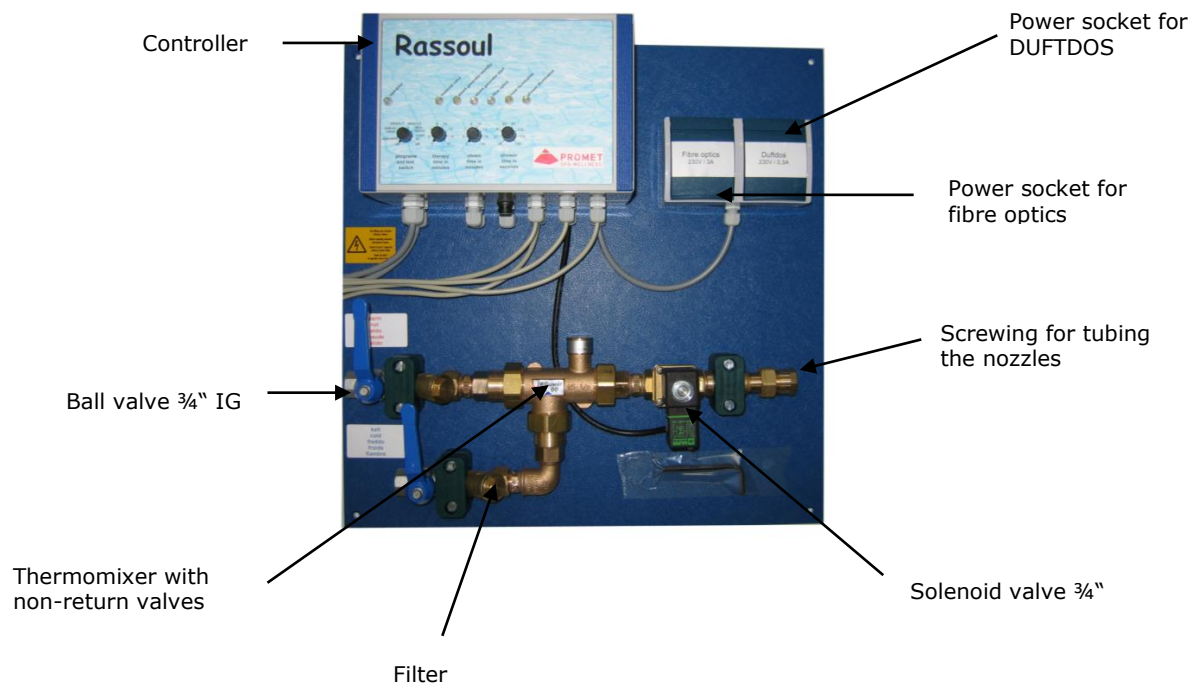
Steam time in minutes: Here you adjust the time between the switch-on of the steam generator and the switch-on of the shower.

Shower time in seconds: Here you adjust for how long the shower should last.



2. Technical data

measures:	width 50cm, height 50cm, depth 20cm
weight:	app. 10 kg
voltage supply:	plug 230V



3. Installation

The control unit has to be installed at a capable place next to the Rassoul. The water tubing has to be installed according to the following schema. Electrical supply with power plug 230V/AC. Ensure that the nozzles are not blocked by residues that have been in the tubing if you take the unit into operation for the first time!

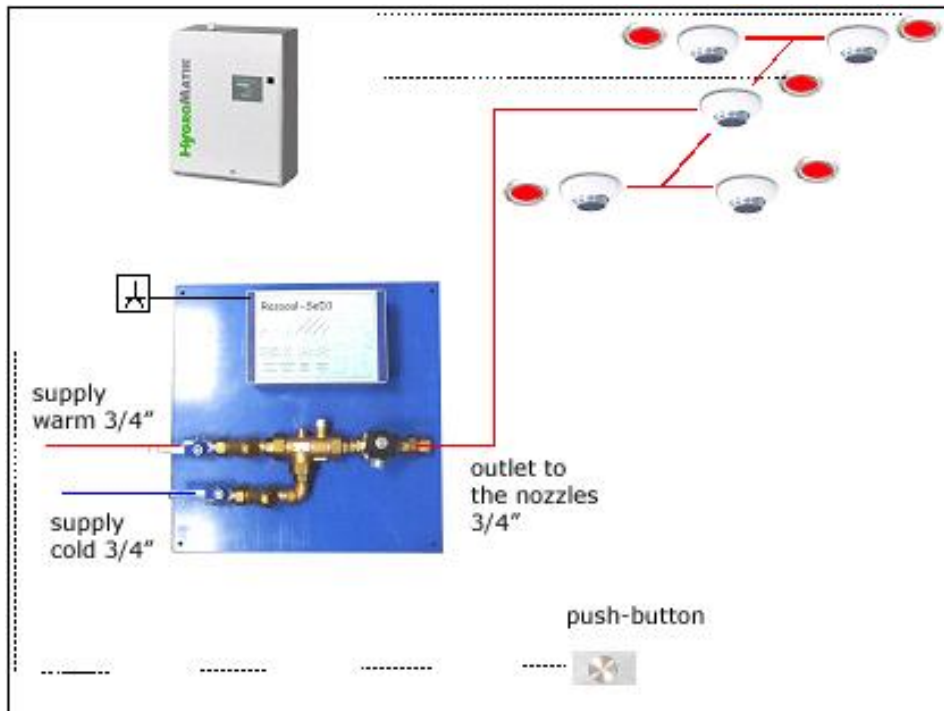


Fig.: Example with 5 nozzles

- Installation only by authorised staff!!!
- Before taking the unit into operation we recommend to flush all the tubings without nozzles to guarantee that no residues will block the nozzles.
- We recommend to install a fine in-line strainer before the shower techniques!
- We recommend to use (softened) water with a low hardness to prevent residues of calcium!

4. Taking the unit into operation

If the whole tubings and the electrical supply are connected the unit is ready for taking it into operation.

Put the „Programme switch“ on „**off**“ and switch-on the unit by the main switch on the left side of the controller housing. The main switch shines red and the operation-LED green. Afterwards all functions can be tested like described above (see page 3). Now the single programme functions can be adjusted according the demanded needs.

5. Maintenance

If the unit will be out of operation for a longer period of time we recommend to empty the whole tubing and to switch the unit off by the main switch. If the pressure should fall down immediately the filter inserts in the supply have to be cleaned.

		⇓ <u>to be done!</u>	
1. <u>Water part</u>		⇓	
1.1	<u>check solenoid valves in test function</u>	OK []	exchange []
1.2	<u>solenoid valve diaphragms all every two years</u>	OK []	exchange []
1.3	<u>clean pre-filter</u>	OK []	clean []
1.4	<u>filter pressure gauge</u>	OK []	clean []
1.5	<u>check tube cutter</u>	OK	
1.6	<u>check function of thermo mixer</u>	OK	
2. <u>Fragrance pump</u>			
2.1	<u>function</u>	OK []	exchange []
2.2	<u>valve inserts of the pump every two years</u>	OK []	exchange []
2.3	<u>diaphragms of the pump every two years</u>	OK []	exchange []
2.4	<u>function of the dosing valve 3/8"</u>	OK []	clean []
2.5	<u>check dosing tubes</u>	OK []	exchange []
2.6	<u>function empty switch</u>	OK []	exchange []
3. <u>Nozzles</u>			
3.1	<u>spraying pattern in test function</u>	OK []	clean []
3.2	<u>view of the nozzles</u>	OK []	clean []
4. <u>Controller</u>			
4.1	<u>Test all functions</u>	OK []	
4.2	<u>All knobs present?</u>	OK []	
4. <u>Miscellaneous</u>			
4.1	<u>Clean the whole unit</u>	[]	

7. Spare parts

Water part:

10424	ball valve G 3/4" i-a, PN25, Ms/PTFE-FKM
17146	solenoid valve Ms 3/4" - 230VAC - M250 16 bar - 2/2-ways, soft-closing
13082	plug for solenoid valve LED, 1,5m wire 230VAC
12887	filter Ms 3/4"
15599	thermo mixer 3/4" DN 20 adjustable 30 - 45°C

Controller:

12985	rotary knob mm
12764	main switch 2p A-E 16A d20 round
14840	control board ED-S1-V4 11-outputs 230 V/AC
11378	transformer 5VA, 2 x 9V, 2 x 278 mA