

Operation manual Action shower "Sibirian Night"

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Overview

Obey all safety notes and warnings present on the unit.

In case of a malfunction, switch off the unit immediately and prevent a restart. Repair malfunctions promptly.

After any repair work, have qualified personnel check the safe operation of the unit.

Use original spare parts only. Additional national safety regulations also fully apply to the operation of this unit.

Accident Prevention Regulations



Comply with the accident prevention regulation Accident Prevention Regulation Electrical Systems and Equipment to prevent injury to yourself and others.

Operation of the Unit

Do not perform any work which compromises the safety of the unit.

Regularly check that all safety and monitoring devices are functioning normally.

Do not remove or disable safety devices.

Installation, Dismantling, Maintenance and Repair of the Unit

Disconnect unit components from power supply prior to maintenance or repair work.

Attaching or installing **additional components** is permitted only with the **written consent** of the manufacturer.

Electrical



Work on the electrical system must be performed by qualified personnel.

Disconnect unit components from power supply prior to work

In case of a malfunction in the electrical power supply, switch off the unit immediately.

Use only original fuses with the appropriate amperage rating.

Regularly check the unit's electrical equipment. Promptly repair any damage, such as loose connections or burned wiring. After proper electrical installation or repair, test all safety mechanisms (such as grounding resistance).

2.3 Disposal after Dismantling



Note: The operator is responsible for the disposal of unit components as required by law.



1. Function – programmes

The Action shower "Sibirian Night" is a control unit for 4 programmes. The programmes can be started by a 4-fold push-button from the shower cabinet.

Head sprinkler 1:	cold, aromatized water fog
Head sprinkler 2:	warm rain
Side Nozzles:	cold side nozzles
Sibirina Night:	the above programmes run one after the other

The single adjustement are handled by rotary knobs at the control housing:

programme and	132		100
test switch	\oplus	operation	
operation with			
emptying 10 sec. head spi	. 1		
	A	fragrance empty	
emptying 5 sec. thead sp	r. 2		
operation without side nozzles			
emptying	\oplus	fragrance pump	
4 6	Ð	nagrance pump	
dosing 3 AA 8			
performance	m		
in mi/min at 2-++++-+-10	\oplus	room illumination	
adjustment x 12			
stroke 75% off 12	-		
40 50	\oplus	emptying	
3 1			
operation 30 60			
sprinkler 1 20 - 80	\oplus	head sprinkler 1	
(in seconds)			
off 100			
	0	head sprinkler 2	
40 50			
operation 30 160			
time head	0	si de nozzles	
	S.		
(in seconds) off X 100			
40 50			
operation 30 X 60			
time side			
nozzies 20-++++++++++++++++++++++++++++++++++++			
(in seconds) off 100			
011 100			
Action	~ C	shower	
" Sibiri	an	Night "	
JUIT	un	INIGITI	
	1.0		



programme and test switch

This rotary knob is to test every function of the action shower. Each function is indicated by a burning of the yellow LED on the right side of the control housing. The fragrance pump can only be operated if the fragrance canister is filled or if the pressure switch bellow the pump is bridged.

<u>Before the test of the functions</u> the unit has to be switched on by the *main switch* at the side of the hosuing!!

<u>Adter the test of the functions</u> the operation mode has to be chosen by the switch position: **operation with 10 (5) sec. emptying**

This mode has to be adjusted at all shower techniques that include emtying valves. The emptying time (5 or 10 seconds) is according to the length of the tubing that has to be emptied.

dosing performance in ml/min at adjustment stroke 75%

This rotary knob is to adjust the fragrance dosing performance. Pump stroke 75% is adjustment ex works.

operation time head sprinkler 1 in seconds:

Adjustment of the operation time for the cold aromatized shower from 20 – 100 seconds.

operation time head sprinkler 2 in seconds:

Adjustment of the operation time for the warm shower from 20 - 100 seconds.

operation time side nozzles in seconds:

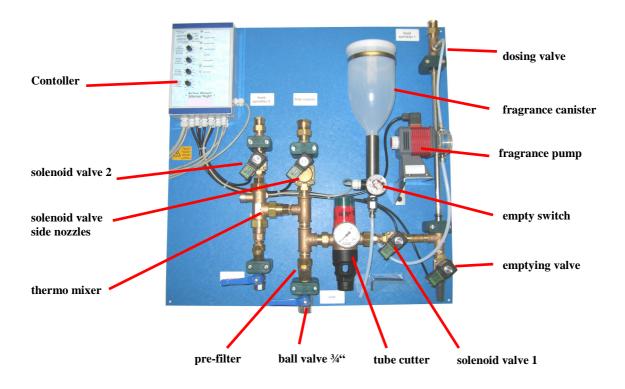
Adjustment of the operation time for the cold side nozzles from 20 - 100 seconds.



2. Technical description

measures:	width 100cm, height 65cm, depth 20cm
weight:	app. 12 kg
power supply:	power plug 230V
water supply pressure:	min. 3 bar at a flow through of 3m ³ /h

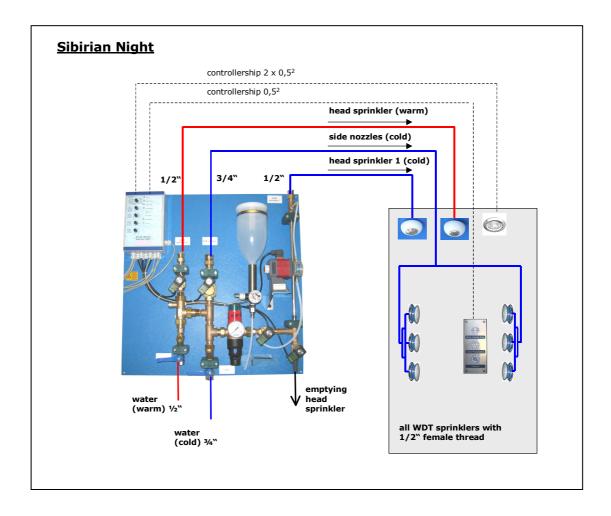
The action shower "Sibirian Night" consists of the following components:





3. Installation

The control unit **"Sibirian Night**" has to be installed at a capable place next to the shower. The water tubing has to be installed according to the following schema. <u>Electrical suplly</u> 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!



- 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 "Selector switch 1" on "O" 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 4). Now the single programme functions can be adjusted according the demanded needs.

If you fill the fragrance canister for the first time, air is getting into the pump head. To ensure a reliable function of the pump it has to be aired. For this reason the pump hose has to be pulled off the dosing valve (see picture). This procedure is only necessary if you take the unit into operation.



5. Programme flow

The characteristics of the programmes are describes on page 3. The **3 functions** *"Tropical Rain*", *"Polar Fog*" and *"Side Nozzles*" are started by the user by a push button from the cabinet. If one programme runs the others are locked.

Example:

The operator of the unit sets the time for the Tropical Rain on 30 seconds. If the user in the cabinet presses the according push-button a smooth and warm aromatized rain patters down on him for 30 seconds. After the 30 seocnds the emptying valve opens and the water tubing is emptied to prevent bacterial impact and bad smell due to stagnant water.



6. Temperature adjustment

1 C C C C C C C C C C C C C C C C C C C	nd on ostat slide rd temperati	ure d water setting
Function The blended w transmitted to t compares it wit If the blended y correspond to t volume change A. This leads to regulated by th water temperat setpoint value. Classification of 3400 in accordan characteristics:	he thermost that the setpoint the setpoint takes place the valve s e pin C until ture correspondent the thermal b	at A. This nt value. rature does not value, then a in thermostat lide B being the blended onds to the lending valves
GN DN	% 15	%-1% 20-32
Fittings group	10	20-32

The warm water temperature has to be at least 5 K higher than the blended water temperature.

Standard temperature set by	Limits of the blended water setting ranges	Change of the blended water temperature with 1 rotation of the key			
the factory °C	°C	GN ½-1	GN 1¼-2	DN 65 u. 80	
25	20-30				
40	30-45	ca.	ca.	ca.	
48	36-53	вĸ	14	2 K	
55	45-65		40	- ^	



7. 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.

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



8. Spare part list

- 13080-1 fragrance pump ESB 10
- 13103 diaphragm EH0066
- 12840-1 pump head for fragrance pump ESB 11
- 12836 pump head without valves
- 10433 dosing tube PTFE 6 x 1
- 10432 dosing tube PTFE 4x1mm
- 15953 thermo mixer 1/2" JRG
- 14680 solenoid valve Ms 1/2" M24K
- 15108 dosing valve 3/8" VA
- 13082 plug for solenoid valve 230VAC LED 1,5m
- 15967 controller ED-SeD complete
- 10959 hosuing 240/160/90
- 12985 rotary knob 6mm



9. Wiring diagram

