OPREMA UREĐAJI d.d.

TÜV NORD TÜV Croatia ISO 9001 / ISO 14001

INSTALLATION & SERVICE BOOKLET

Juice Machine - Postmix

JM 6

JM 7

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Dispenser

Dispenser description for JM

Juice machine is a dispenser for the cooling of water and the mixing of juice concentrate to a finished product.

The dispenser comprises an electrically-connected cooler with water regulator and manometer, a chilled cabinet, thermostat, vents, a lighted front panel with buttons and a drip tray with a drain connection. The dispenser is designed for two drinks and (non-carbonated) ice water.

The juice dispenser is connected by a pressurised water tube to a socked water crane and to an electrical network by network cable.

The water pressure is adjusted with the help of a water regulator, and the desired water pressure is achieved with the help of a manometer.

Cooling of the water takes place in a cooling block that is kept cool by a fan-chilled compressor.

The water temperature is adjusted with a thermostat.

The cabinet temperature is adjusted with a thermostat.

The juice-water mixing ratio is adjusted by the vents.

The juice mix or ice water is dispensed by the pushing of one of the three buttons, or the portion control on the front panel.

The buttons activate the water valves that regulate the water, or water with juice concentrate, that is to be delivered.

The juice mix:

Concentrate is drawn through the vent by suction.

The mixture of water and concentrate flows out through the juice outlet pipe.

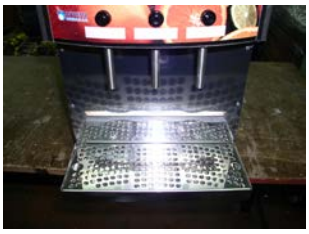
The bag-in-a-boxes (maximum 2 – JM6, maximum 3 – JM7) containing juice concentrate should be put beside each other on the shelf behind the front door.

The machine turns off completely if the flexible cord is removed from the socket.

Dispenser description

Illustration	Description
	The water regulator with pressure gauge: The water regulator can be installed at up to 6 bar. The installation of water-pressure is shown with a manometer calibrated for 0-6 bar. Recommended pressure is 2.2 bar.
 	Vents: The mixing ratio is adjusted in the vents. When water flows through the vent, the juice concentrate is drawn by suction. The amount is regulated manually with screws on the vents. There are two types: one for juice with fruit pulp, and one for no fruit pulp. The adjustment screws are labelled **+** and **–** to show which direction to turn in order to increase or decrease the amount of concentrate. *Note:* The functions of the vents with and without fruit pulp are inverted. Therefore it is important that you follow the labels on the vents.
	Water valve: The water valve is connected to the vent and opens the water flow with a push of the appropriate button on the front panel.
	Push-buttons (or portion panel): The push-buttons on the front panel control the water valves. Press only one button at a time.
	Cooling system: The cooling system consists of a cooling block made of aluminium with built-in stainless steel pipes.

Dispenser description

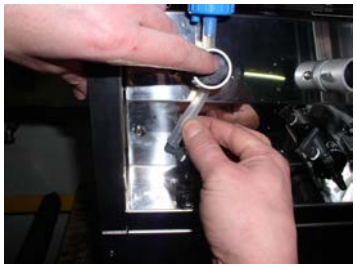
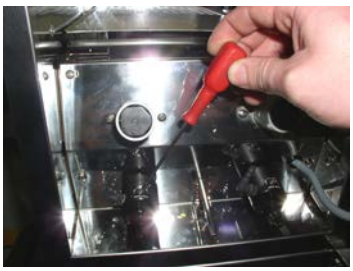
Illustration	Description
	Front panel: The front panel is divided into three parts: two plastic sheets (made of acrylic and opal) and a film in between. All parts are removable. The push-buttons for the products are located below the front panel.
	Drip tray: The drip tray is made of stainless steel with steel bars, and position curves for the glass.

Installation and user instructions

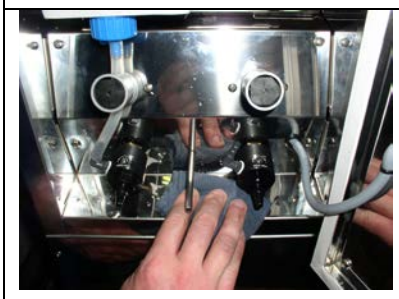
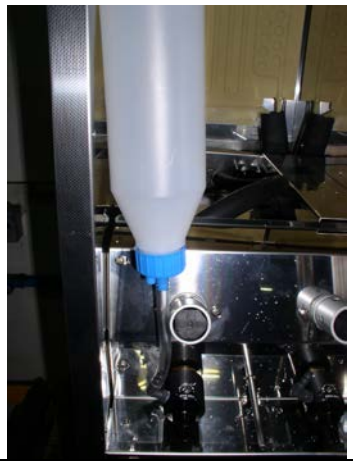
Read the instructions carefully before you start working with this equipment.
The equipment should be installed and serviced by trained staff.

Illustration	Description
	Unpack the dispenser from its packaging and ensure that nothing is damaged. Place the dispenser in position. ***Note:*** the dispenser weighs about 53 kg – JM6 / 59 kg JM7. Do not lift by door/front panel. Allow minimum clearance of 10mm around the frame for air circulation.
	Make sure that the dispenser is standing vertically. Adjustment is made with the adjustable feet. Inside the cabinet you will find accessories.
	Connect the water hose from the dispenser to the cold water supply. (Do not forget the seals). Turn on the water and check for leaks. ***Note:*** You are strongly recommended to use a shut-off valve in the water line in case of an emergency leakage.

Installation and user instructions

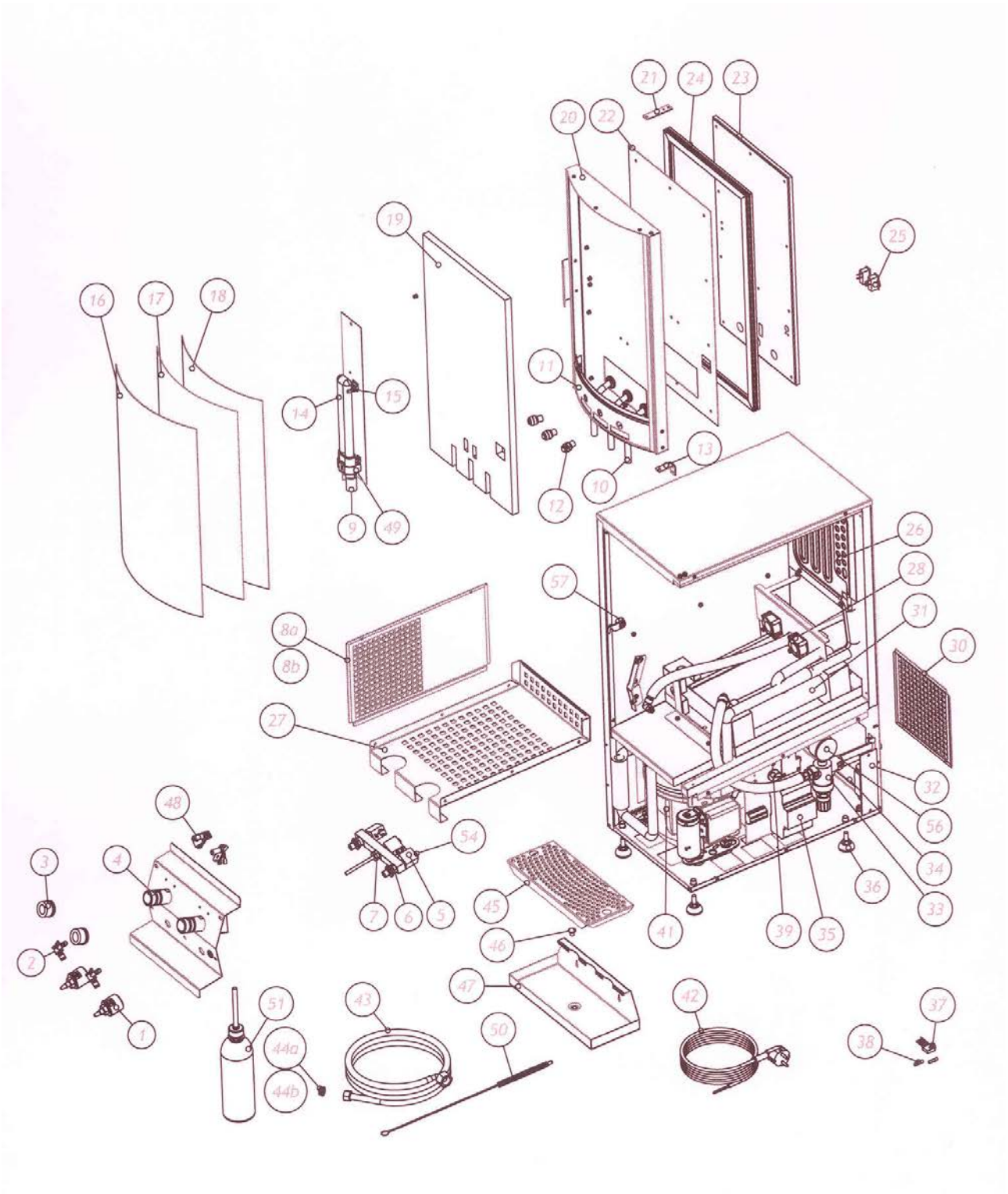
Illustration	Description
	Connect the power plug to the wall socket. (The compressor starts cooling the system and the front panel lights up)
	The water pressure is factory-adjusted to 2.2 bar, which is the correct working pressure. Check by pressing and holding one product button and reading the water regulator. If there is a variation, remove the ventilation cover and adjust by pulling the black knob and turning it until you get a reading of 2.2 bar. (Don't forget to put a cup under the outlet before checking.)
	Place a bag-in-a-box in the dispenser and connect it to the pinch solenoid valve and vent. The tube is positioned by pushing the centre of the pinch solenoid valve and sliding the tube inside. Cut the tube to the correct length and locate it in the elbow connector of the vent.
	Place a cup under the outlet pipes. Dispense a glass of juice by pressing the product push-button. Check that the brix valve (mixing ratio) is in the right position, otherwise adjust.
	Adjustment of the brix is made by turning the adjustment screw on the vent. Follow the label on the vent to increase/decrease the brix value. After adjustment of the brix, the dispenser is ready for use.

Cleaning

Illustration	Description
 	Daily cleaning: 1. Clean internal and external surfaces with a damp cloth. 2. Use the cleaning brush to clean the outlet pipes. 3. Wet the cleaning brush in water and put it into the outlet pipe from the inside of the door. 4. Clean the drip tray. 5. The drip tray is made of stainless steel and can be washed in a dishwasher. Periodic cleaning 1. Disconnect the bag-in-a-box tube from the vent. 2. Fill the cleaning bottle with warm water and some washing-up liquid and connect it to the vent. 3. Shut the dispenser door and put a cup under the outlet pipes. Rinse the vent and the outlet pipes by pressing the appropriate push-buttons. 4. Use the cleaning brush to clean the outlet pipes 5. Wet the brush in water and put it into the outlet pipe from the inside of the door. 6. Return the boxes and connect the tubes to the vents.

Troubleshooting		
Problem	**Probable cause**	**Solution**
Juice concentrate is dripping from the outlet pipe	The tube is not securely located in the pinch solenoid valve.	Put the tube properly into the pinch solenoid valve.
Almost nothing but water is coming from the outlet pipe.	The tube is kinked due to incorrect length.	Cut the tube to the correct length.
	The tube is twisted. The bag is empty.	Untwist the tube. Replace the bag.
The drinks are not cold.	Failure in thermostat. Failure in cooling system	Replace thermostat Call service.
Nothing happens when you push the buttons, and there is no “clicking" sound.	No power to the valves.	Check the on/off switch inside the door.
	A fuse in the transformer is broken.	Disconnect dispenser from power and change fuse.
Only water is dispensed.	The pinch solenoid valve is not working properly. The bag is empty.	Clean the pinch solenoid valve. Replace the bag.
The flavour is too strong/weak.	The ejector is not adjusted correctly.	Adjust the brix.
Nothing happens when you push the button and there is a “clicking" sound.	Water supply turned off. Water regulator turned off or failed. The cooling coil has frozen.	Check water supply. Check water regulator. Shut off water supply and call service.
Fluid drips constantly from the outlet pipes.	There may be dirt in the water valve.	Shut off water supply. Open the water valve and clean it.
The drinks are not cold enough.	The thermostat is not properly set.	Turn the adjustment screw 1mm at a time. See note 1.
Trouble with cooling system		Contact the supplier or an authorised cooling company.

JM6 HD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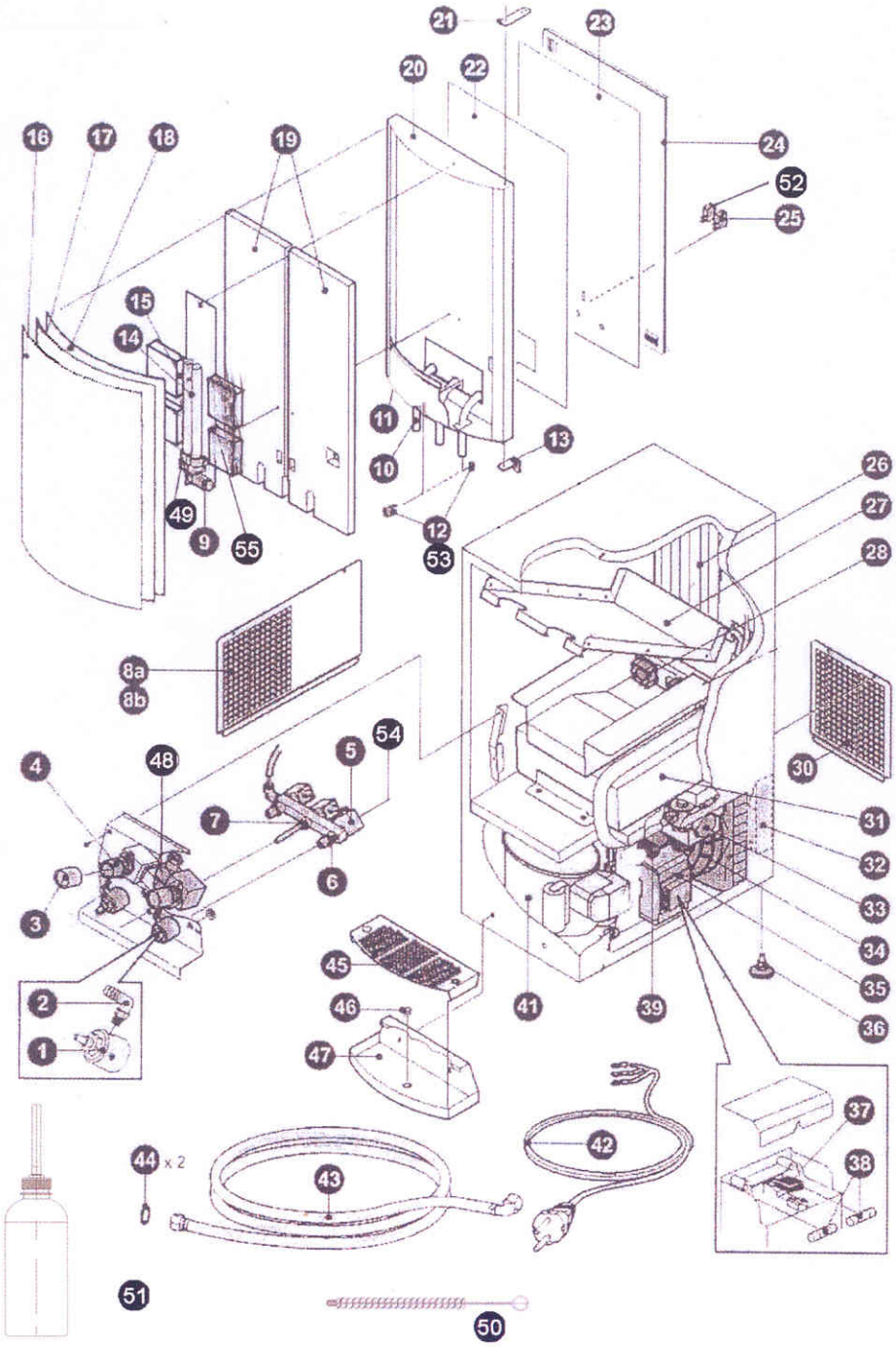
JM6HD LIST OF SPARE PARTS 2012-02-15

No.	Article No.	Description
1.	650529	Ejektor R1/4"- FI 11
2.	326059	Plastic conector FI 11 with valve
3.	265041	Security cover
4.	326029	Juice solenoid valve
5.	353106	Coil for water-valve
6.	326078	Water valve seat for ejector
7.	326079	Water valve seat for water outlet
8a.	650190	Ventilation cover (right side)
8b.	650191	Ventilation cover (left side)
9.	357007	Starter
10.	650154	Outlet pipe
11.	212275	Pushbutton sticker
12.	354120	Pushbutton switch
13.	650172	Lower door hinge
14.	357061	Lamp, 18 W
15.	357055	Clip
16.	650322	Transparent panel 471x300x1 mm
17.	215004	Printed foil 471x300x0.2 mm
18.	650321	White panel 471x300x1 mm
19.	311035	Door - insulation
20.	650807	Door
21.	650173	Upper door hinge
22.	650806	Washer plate
23.	650805	Washer-holder
24.	263033	Washer
25.	354127	Rocker switch
26.	650959	Evaporater
27.	650809	Panel
28.	343050	Fan
29.	-	-
30.	650192	Ventilation cover (back side)
31.	650821	Cooling block
32.	357011	Reactor
33.	326062	Water regulator
34.	304008	Condenser STVF 75
35.	353051	Transformer 24V 32 VA
36.	650323	Feet
37.	625815	Power supply
38.	-	-
39.	344019	Termostat K22 (for cooling block)
40.	-	-
41.	300003	Compressor FR 7.5 GX
42.	356040	Electrical cord 3 m
43.	650654	Waterhose and connector R 1/2”- R 3/8”
44.a	264079	Gasket 3/8"
44.b	264040	Gasket 1/2"
45.	650503	Drip tray
46.	211192	Cork
47.	650380	Spill lid
48.	354121	Cable connector with diod
49.	357054	Lampholder with starter
50.	322054	Cleaning brush
51.	650514	Cleaning bottle
52.	-	-
53.	-	-
54.	326080	Water valve body (inkl. plunger)
55.	-	-
56.	321028	Gauge
57.	229475	Lock

JM7 JD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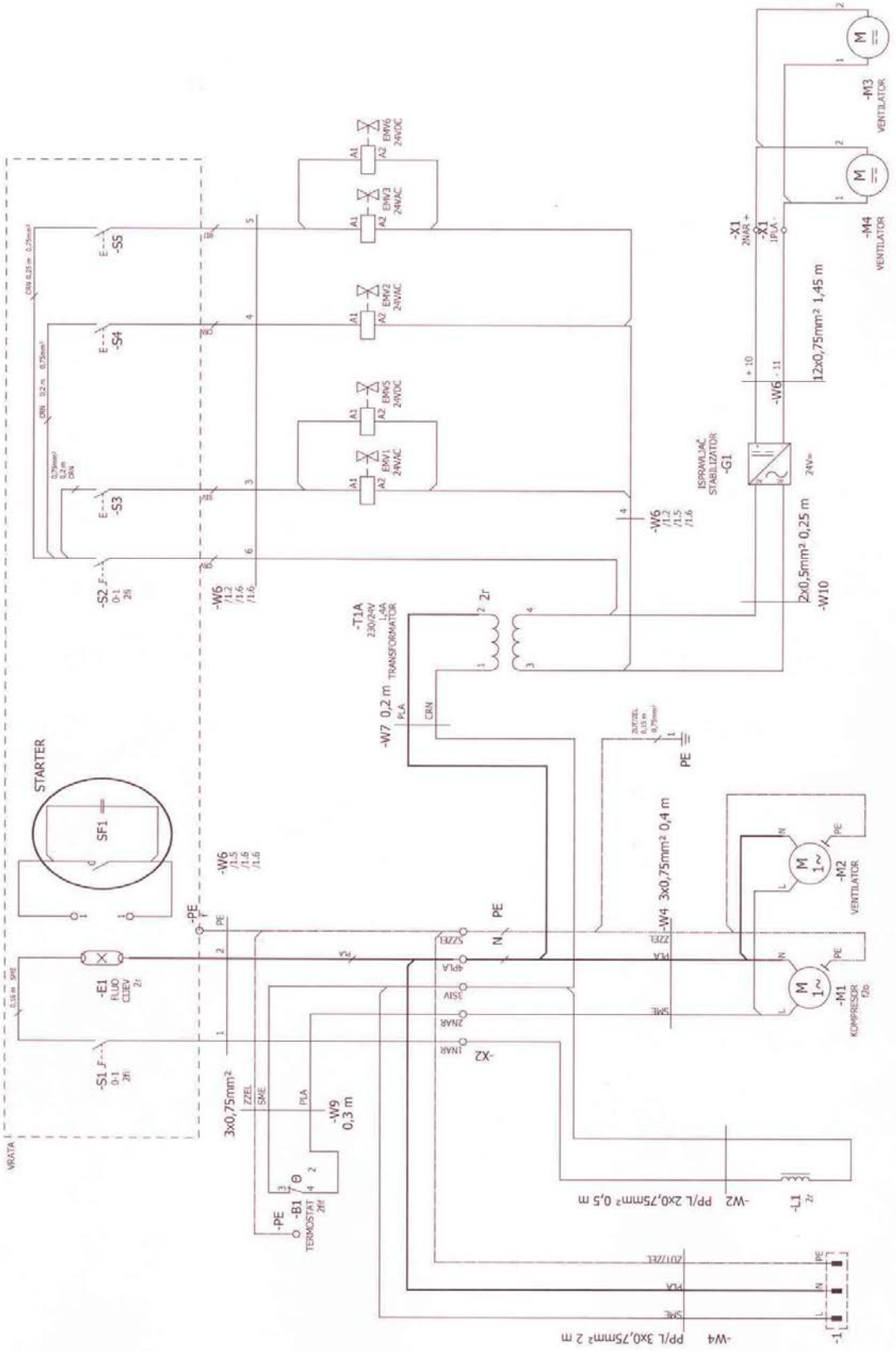
JM7JD LIST OF SPARE PARTS 2012-02-15

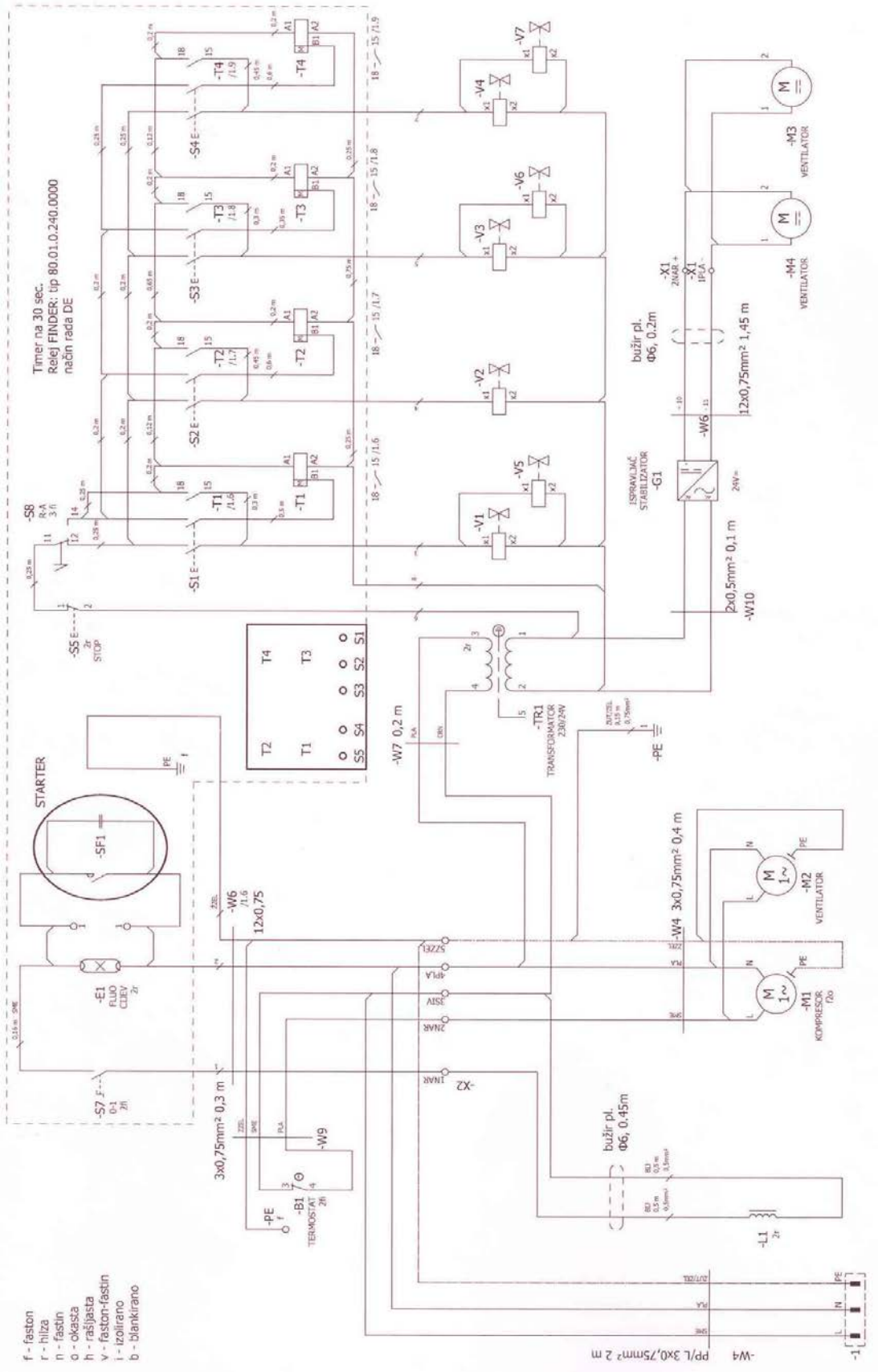
No.	Article No.	Description
1.	650529	Ejektor R1/4" - FI 11
2.	326059	Plastic conector FI 11 with valve
3.	265041	Security cover
4.	326029	Juice solenoid valve
5.	353106	Coil for water-valve
6.	326078	Water valve for ejector
7.	326079	Water valve for water outlet
8a.	650190	Ventilation cover (right side)
8b.	650191	Ventilation cover (left side)
9.	357007	Starter
10.	650154	Outlet pipe
11.	212347	Pushbutton sticker
12.	354207	Pushbutton switch
13.	650172	Lower door-hinge
14.	357061	Lamp, 18 W
15.	357055	Clip
16.	650407	Transparent panel 471x435x1 mm
17.	215008	Printed foil 471x435x0.2 mm
18.	650408	White panel 471x435x1 mm
19.	311040	Door - insulation
20.	650834	Door
21.	650173	Upper door-hinge
22.	650833	Washer-plate
23.	650832	Washer-holder
24.	263042	Washer
25.	354127	Rocker switch
26.	650965	Evaporater
27.	650828	Panel
28.	343050	Fan
29.	-	-
30.	650192	Ventilation cover (back side)
31.	650821	Cooling block
32.	357011	Reactor
33.	326062	Water -regulator
34.	304008	Condenser STVF 75
35.	353051	Transformer 24V 32 VA
36.	650323	Feet
37.	625815	Power supply
38.	-	-
39.	344019	Termostat K22 (for cooling block)
40.	-	-
41.	300034	Compressor FR 7.5 GX
42.	356040	Electrical cord 3 m
43.	650654	Waterhose and connector R 1/2”- R 3/8”
44a.	264079	Gasket 3/8”
44b.	264040	Gasket 1/2”
45.	650412	Drip tray
46.	211192	Cork
47.	650736	Spill-lid
48.	354121	Cable connector with diod
49.	357054	Lampholder with starter
50.	322054	Cleaning brush
51.	650514	Cleaning bottle
52.	354168	Dispensing mode switch
53.	354208	Pushbutton stop switch
54.	326080	Water valve body (inkl. plunger)
55.	353094	Timer
56.	321028	Gauge
57.	229475	Lock

Technical data		
	Juice machine JM6	Juice machine JM7
Electrical connection	230V / 50 Hz 2.5A	230V / 50 Hz 2.5A
Water connection	3m Tube with ½" - 3/8" internal thread (minimum 2.5 bar water pressure)	3m Tube with ½" - 3/8" internal thread (minimum 2.5 bar water pressure)
Compressor	Danfoss FR 7,5 GX	Danfoss FR 7,5 GX
Cooling gas	R134a Amount to fill 220 g	R134a Amount to fill 220 g
Cooling capacity	359 W	359 W
Cooling system	Flow-through cooler in aluminium with stainless-steel pipes inside	Flow-through cooler in aluminium with stainless-steel pipes inside
Front light	18 W Fluorescent tube	18 W Fluorescent tube
Front sign size	471x 300 mm	471x 435 mm
Dispenser dimensions	Height 810 mm Width 300 mm Depth 600 mm	Height 810 mm Width 440 mm Depth 600 mm
Weight	53 kg	59 kg

Electrical connections JM6



Electrical connections JM7



Notes

Note 1.	The thermostat is factory-adjusted and improper adjustment may cause the cooling system to freeze. Caution when adjusting the thermostat!

Note 2.	Frequent opening and closing of the door may cause ice build-up on the cooling plate inside the cabinet, which decreases the efficiency. If this happens, defrost the machine until all the ice has melted.

Note 3.	You are strongly recommended to use a shut-off valve in the water line in case of an emergency leakage.