



Electrolux

SERVICE MANUAL

FOOD PRESERVATION

FOR INTERNAL AND PARTNERS USE ONLY

© ELECTROLUX HOME PRODUCTS

Consumer Service - EMEA

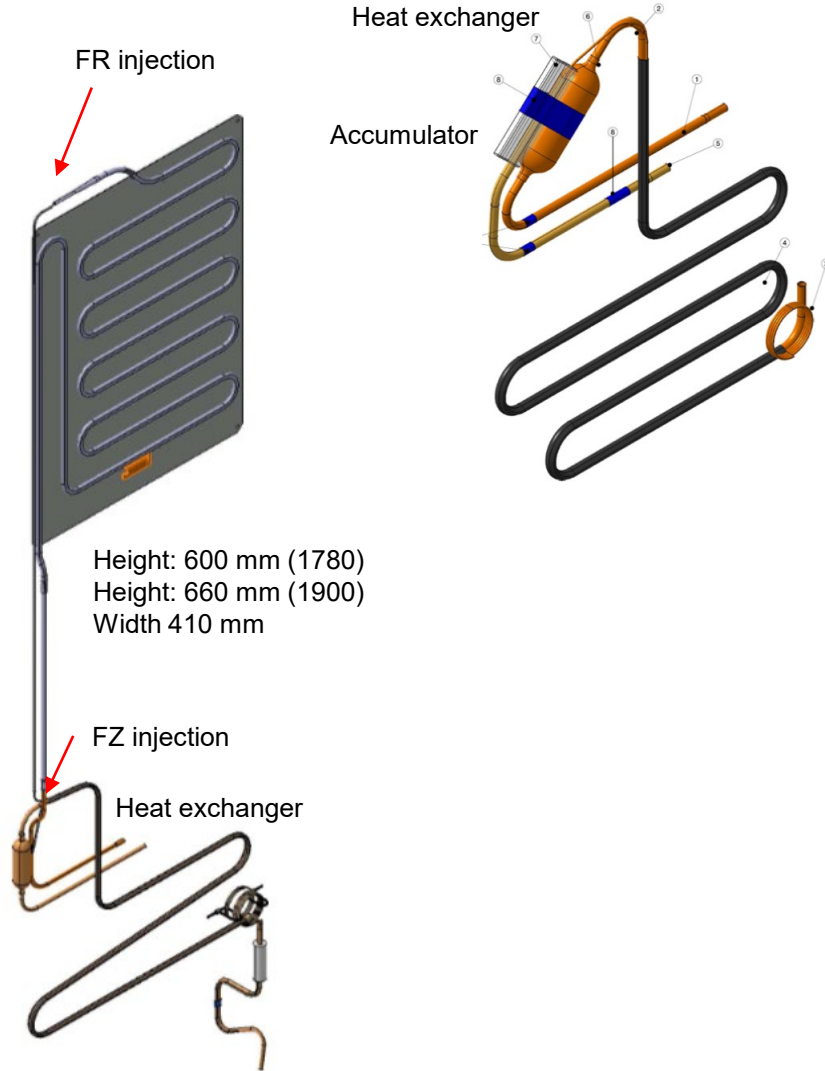
Quality & Continuous Improvement - Technical Support

BUILT IN COMBI
with 3-WAY MAGNETIC VALVE

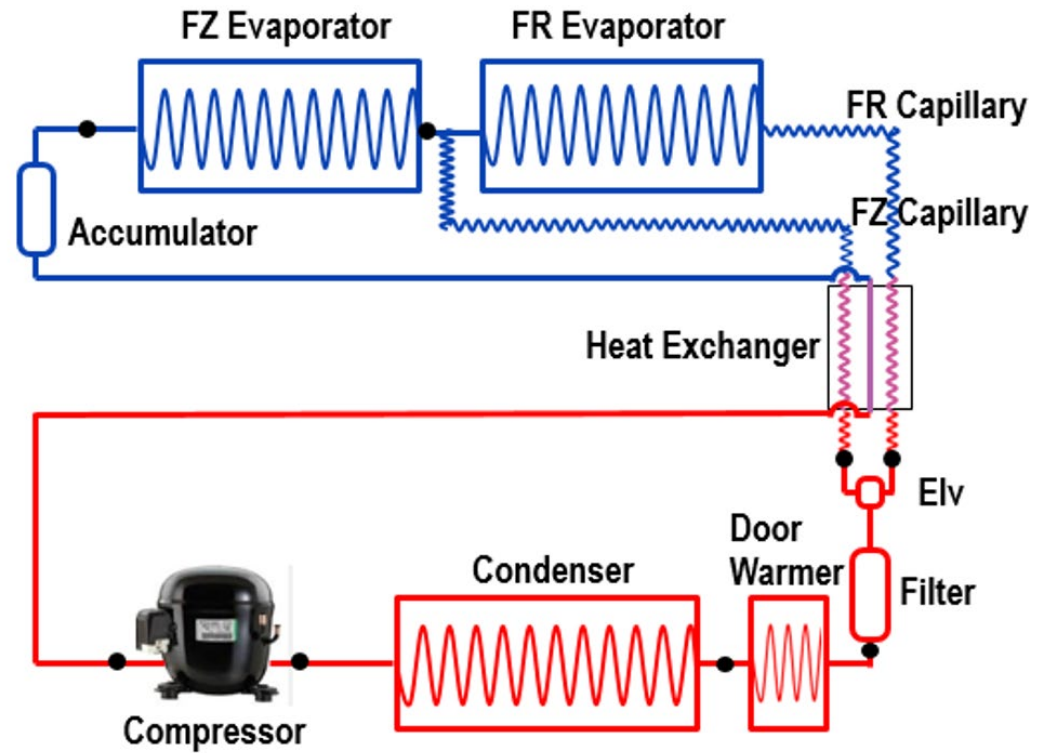


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FEATURES

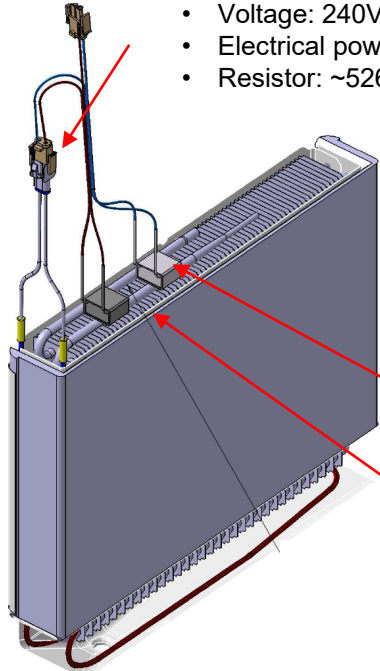


For electronics and service mode,
see dedicated service manual in TDS



COLD MODULE

Fan connection



Defrost heater

- Voltage: 240V AC 50Hz
- Electrical power: ~111W
- Resistor: ~526Ohm

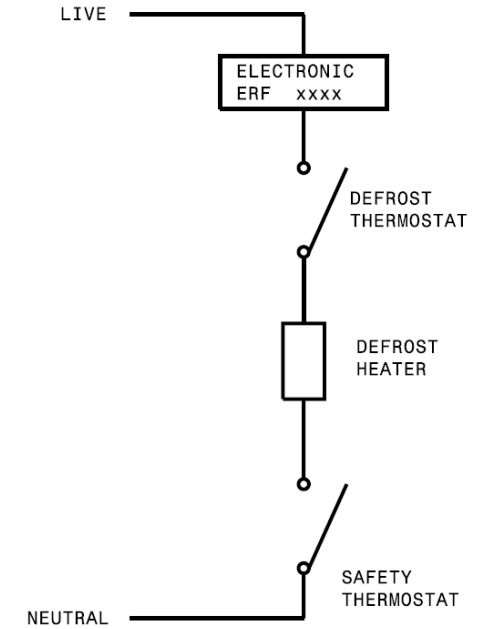
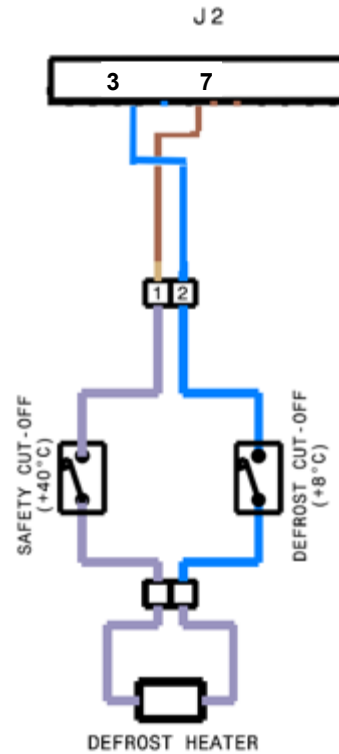
- Outlet AL Ø6.4
- Inlet AL Ø6.4

Safety Thermostat

- 40°C cut off
- 30°C closing

Defrost thermostat

- 8°C cut off
- -1°C closing



HIGH FAN FRIDGE

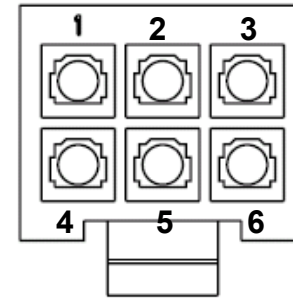
Voltage: 12VDC

Electrical power 1.44 W

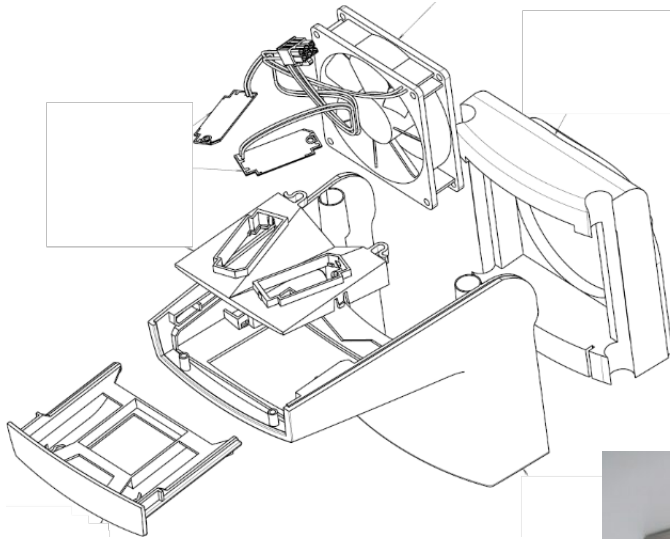
Spinning: 1600 - 2000 1/min

Controlled by the electronics or manually on the UI.

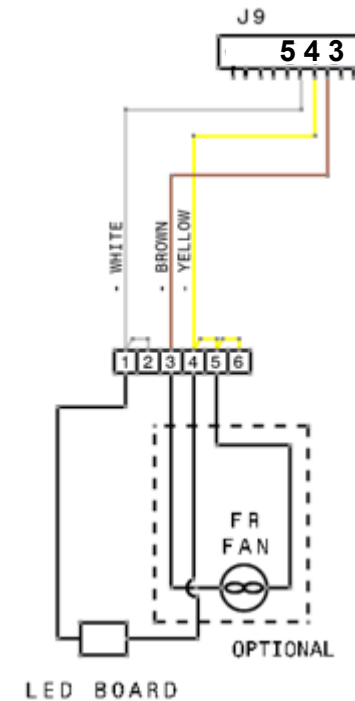
1. White LED 1: 0 VDC
2. White LED 2: 0 VDC
3. Black fan: 0 VDC
4. Yellow LED 1: 12 VDC
5. Yellow LED 2: 12 VDC
6. Red fan: 12 VDC



Fan and LED electronics is one spare part.

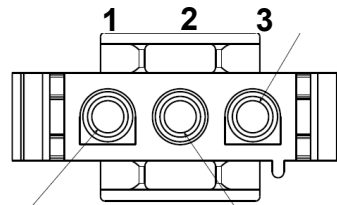
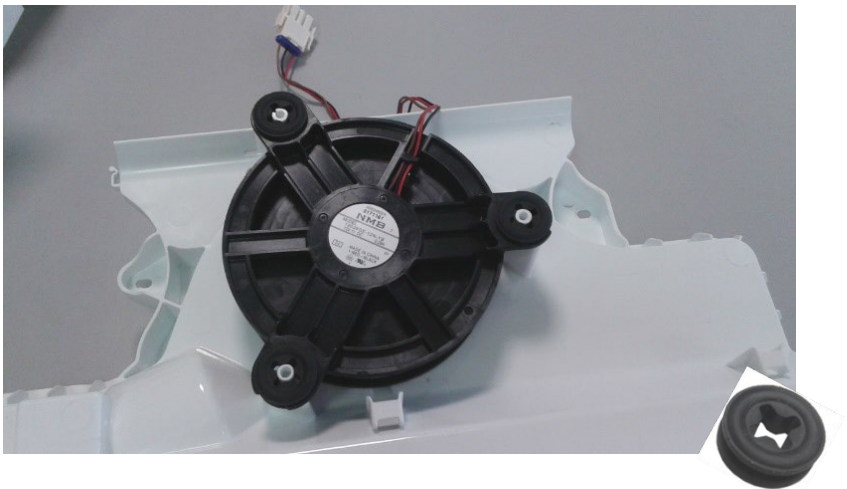


Dismount by 2xT20 Torx screws

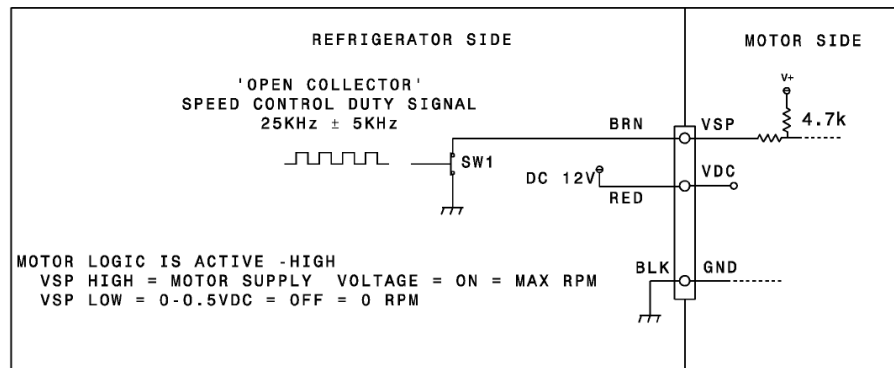


RADIAL FAN FREEZER

Voltage: 12VDC
 Electrical power: 1.4W
 Spinning: 1400 1/min (max 1900 1/min)
 Controlled by the electronics

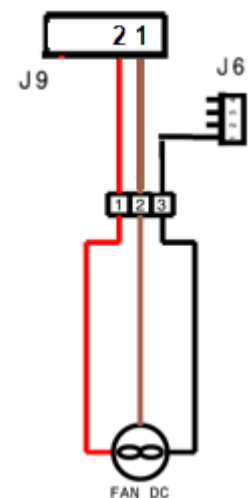
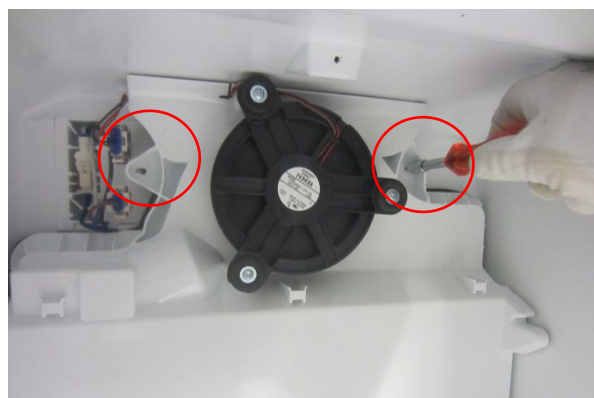


1. Brown speed control (PWM)
2. Black GND
3. Red 12VDC

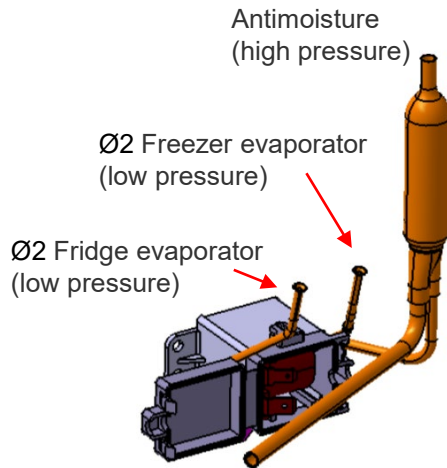


The fan is mounted on 3 rubber dampers and fixed by 3xT20 Torx screws, make sure to refit these properly after service to avoid noise

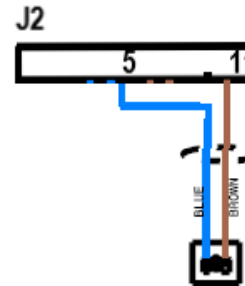
3x7mm Hex screws and one bushing to dismount the covers.



3-WAY MAGNETIC VALVE



RN: 3200
Ohm: 200
Vn:220 240V



Troubleshooting:

- Disconnect and reconnect power
- Listen for clicking sounds:
- If it does not click:
 - Measure the resistance value across the coil
 - If no resistance value - replace the valve
 - If there is resistance value - check the wires between the coil and the electronics, if ok replace the valve or the electronics if it is defective.
- If it clicks:
 - Open the system and blow through with Nitrogen and check that Nitrogen comes out of both capillary tubes.
 - Assemble the tubes, fill and check again.
 - Replace the valve if in doubt.

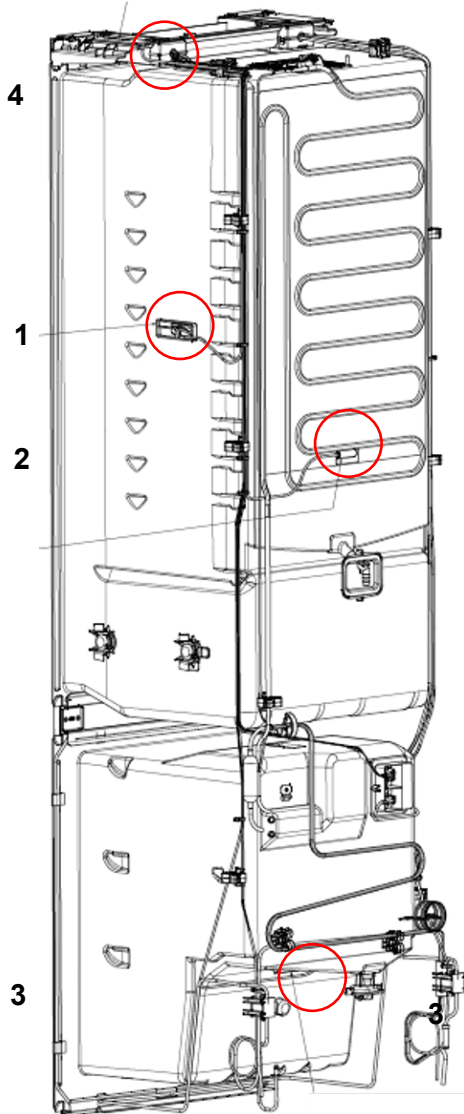
When servicing a cooling system with magnetic valve:

Activate the valve in service mode and disconnect and reconnect power
Service mode:

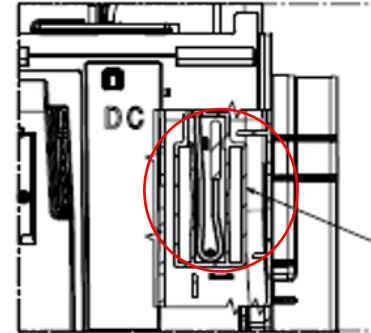
- Activate the compressor – position 0 Fridge, position 1 Freezer.
- Activate position 6
- Activate valve by pressing another key
- Check if the evaporator gets cold.

Or when the compressor is running, pull out the mains plug - the valve is open

SENSORS



Top view



Sensors 10K	Service mode
1. Refrigerator air	29
2. Refrigerator evaporator (not replaceable)	31
3. Freezer air	30
4. Ambient temperature	33 / 34

Sensor information



Yellow fridge evaporator

Grey freezer air

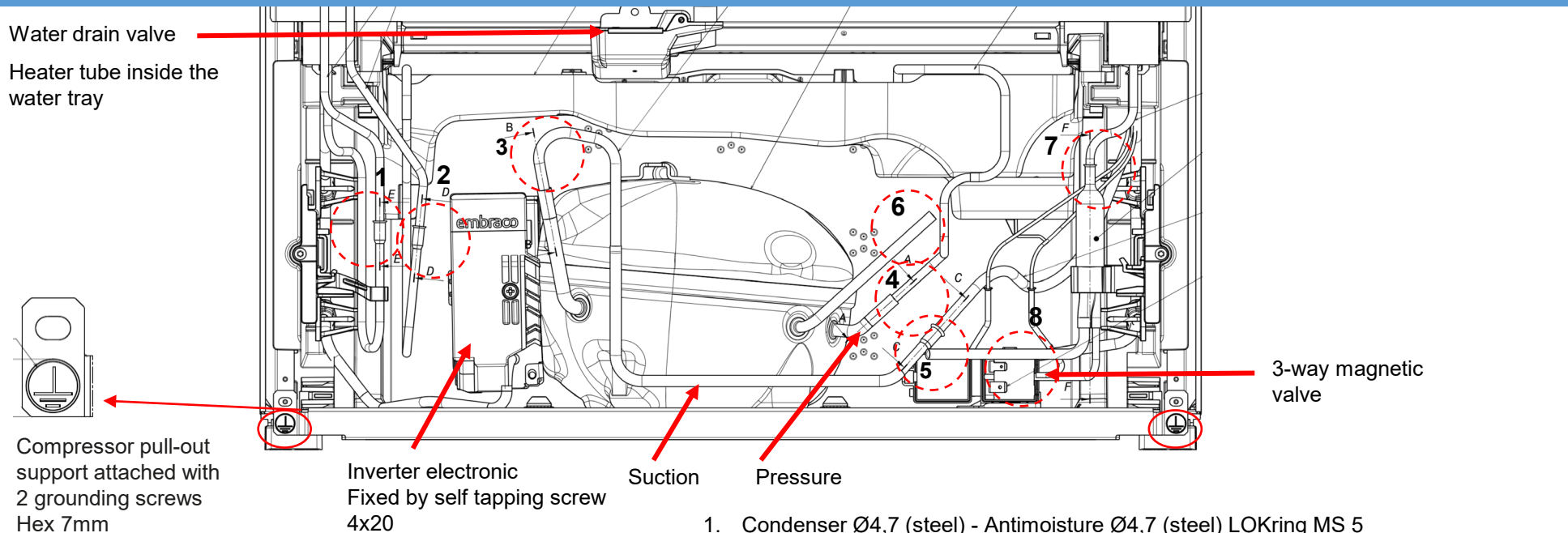
White fridge air

Service instructions are available in the spare part kit **4055500336**:

Kit 4055500336 includes:	
140142974553	Probe, 15mm
2230073013	Cap, screw cover, 9.4mm, 7801
2425156029	Housing lid, temperature sensor
50287145002	Sheath, heatshrinking, L=15mm x 2
50287147008	Sheath, heatshrinking, L=50mm
5190900133	Screw
5993741361	Service instructions

°C	Ohm	°C	Ohm
25	10000	-15	72764
10	19897	-16	76975
9	20877	-17	81460
8	21912	-18	86239
7	23006	-19	91331
6	24161	-20	96761
5	25381	-21	102552
4	26671	-22	108732
3	28036	-23	115329
2	29479	-24	122373
1	31007	-25	129900
0	32624	-26	137944
-1	34336	-27	146545
-2	36149	-28	155745
-3	38071	-29	165591
-4	40108	-30	176132
-5	42267	-31	187422
-6	44558	-32	199520
-7	46989	-33	212489
-8	49569	-34	226398
-9	52308	-35	241322
-10	55218	-36	257343
-11	58310	-37	274548
-12	61596	-38	293033
-13	65091	-39	312904
-14	68808	-40	334274

COMPRESSOR COMPARTMENT



1. Condenser Ø4,7 (steel) - Antimoisture Ø4,7 (steel) LOKring MS 5
2. Condenser Ø4,7 (steel) - Heater tube Ø4,7 (CU) LOKring MS 5
3. Jumper tube Ø6.0 (CU) - Compressor Ø6.1 (CU) LOKring MS 7/6
4. Heater tube Ø4,7 (CU) – High pressure Ø5.1 (CU) LOKring MS 6/5
5. Jumper tube Ø6.0 (CU) - Suction tube heat exchanger Ø6.1 (CU) LOKring MS 7/6
6. Service tube Ø 6.0 (CU)
7. Anti-moisture tube Ø 4,7 (steel) - Dryer Ø 4.9 (CU)
8. Capillary Ø1,9 (CU) - tubes of the valve (see drawing in section 3-way magnetic valve)

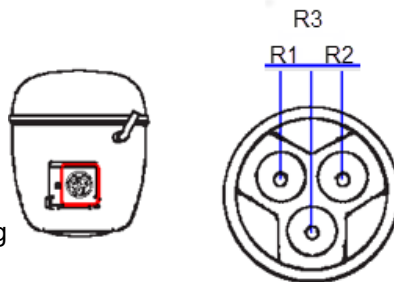
Compressor VESF9C

Voltage	220V-240V / 33.3-150Hz ~3
Hub	8,9 cm ³
Oil	Mineral
Main winding	10.7 (ohm value)

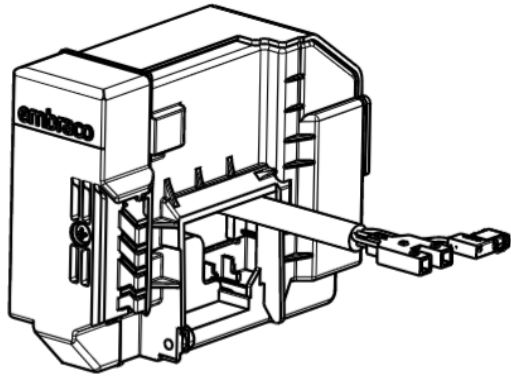
R1 = R2 = R3 = 10,7 Ohm

Compressor motor winding is OK

R1, R2, R3 not identic Compressor motor winding INTERRUPTED



WIRING DIAGRAM AND INVERTER



Yellow green cable

Blue cable

Brown cable

Four ways connection

Two ways connection



Screws

Supply cable

Input cable

AC cable

