



Service Information

HSCX 90420

8575 038 10050

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Spare Part List	2
Exploded View	4
Technical Data	6
Wiring Diagram	9
Circuit Diagram	11
Testprogram	13
Error Codes	16

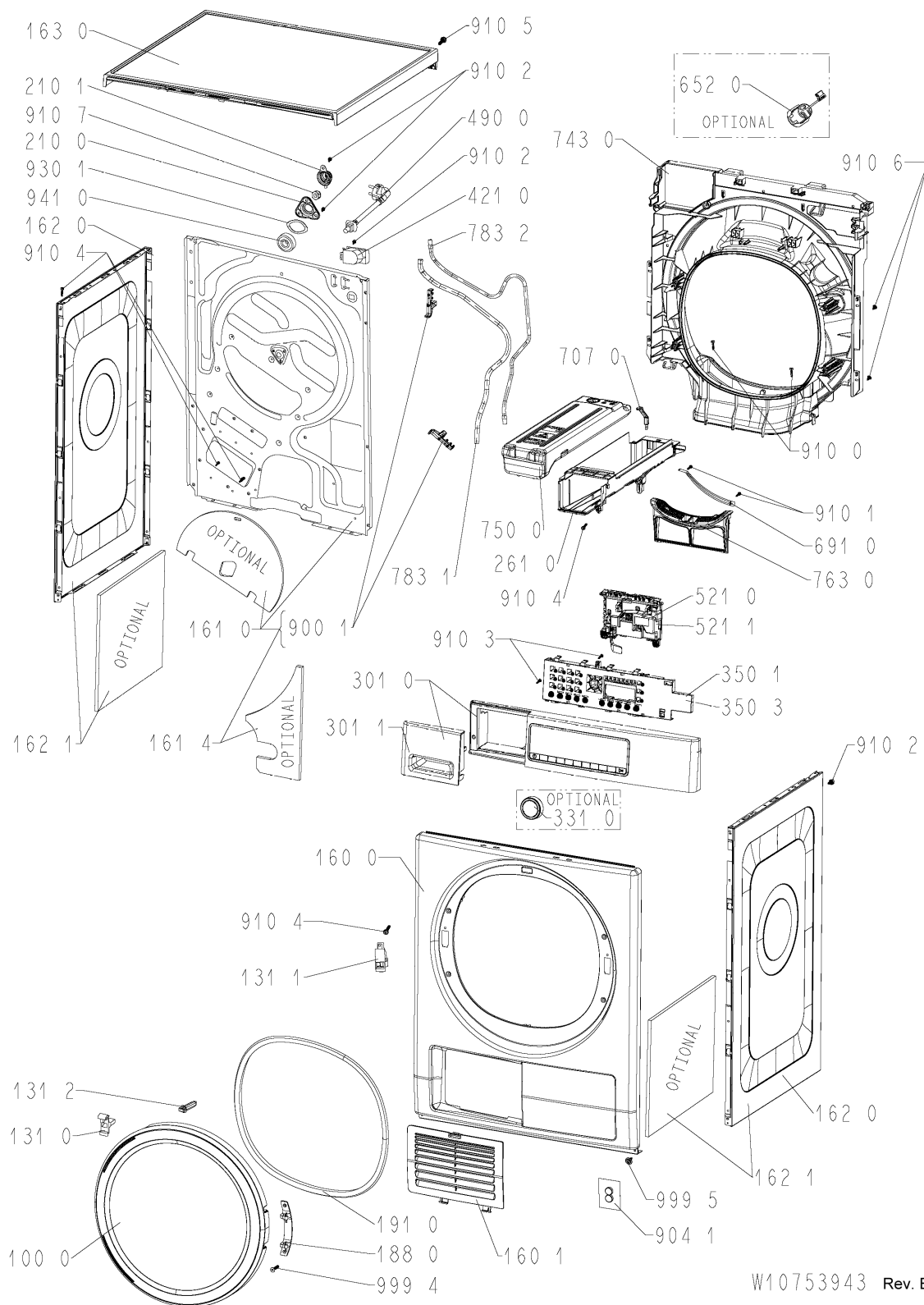
This document is only intended for qualified technicians who are aware of the respective safety regulations.
Subject to modifications

Spare Part List

Pos	12NC	Description
1000	4810 106 15851	DOOR COMPL,MR,14,WP
1310	4801 121 01519	Pin
1311	4810 106 15880	LOCK ASM - DOOR
1312	4801 121 01518	Pin Start reset
1600	4810 107 49940	FRONT PANEL PAINT EOLOS
1601	4810 105 90597	FLAP FILTER HP
1610	4810 106 61267	Rear panel
1611	4810 107 30860	Heating chamber
1620	4810 107 49664	SIDE PANEL PAINT EOLOS
1630	4810 105 79197	TOP COMPL - LAMINATED, DR, 14
1840	4810 107 02342	Bottom A++
1841	4810 107 49921	COVER - BASE HP
1850	4812 500 18054	Foot adjustable
1880	4810 105 90599	Hinge
1910	4810 107 13648	Gasket door
2030	4810 106 36551	Insulation HP
2100	4801 121 01513	Cover
2101	4801 121 01502	Cover
2110	4810 104 56115	Roller
2200	4810 105 80150	Drum
2230	4810 105 80171	Drum lifter
2610	4810 106 09215	HOUSING ASM, CONTAINER
2710	4801 121 01469	Belt,driving
2730	4810 107 00903	Kit pulley motor asm
2732	4810 107 00903	Kit pulley motor asm
2733	4822 505 10547	Nut
2734	4810 107 00903	Kit pulley motor asm
2900	4801 121 01497	Gasket Drum / Rear Panel
2901	4810 106 15879	Gasket Drum/Air guide
3010	4810 107 83570	Control panel + handle drawer
3011	4810 107 77097	Handle drawer chromed + gold
3310	4810 106 91641	Knob timer U1,6TH,14,WP
3501	4810 107 76130	User board UI 1AB progr.
4000	4810 105 98725	Motor BPM Tech Spec
4201	4810 103 44796	Capacitor Compressor
4210	4812 121 18285	Filter
4300	4810 103 44760	Pump
4400	4810 107 32919	Fan compressor
4900	4810 107 28617	Connection cable EU
5210	4810 107 51018	BOARD PROG HPA++ BPM aircare lifter
5211	4810 106 28667	Control unit Fuujin, ACU BPM HP basic
6140	4810 104 11505	Temper. limiter Compr. BSD104
6160	4840 000 08365	Cable harness Kit harness bottom
6910	4801 121 01486	Sensor
6912	4810 106 07765	KIT sensor NTC
7070	4810 106 29345	Pipe
7410	4810 106 45484	Cover blower
7413	4810 106 45481	Fixation Fan wheel
7430	4810 106 15877	Support front air channel w/o DL
7431	4810 104 25277	Fan wheel PA

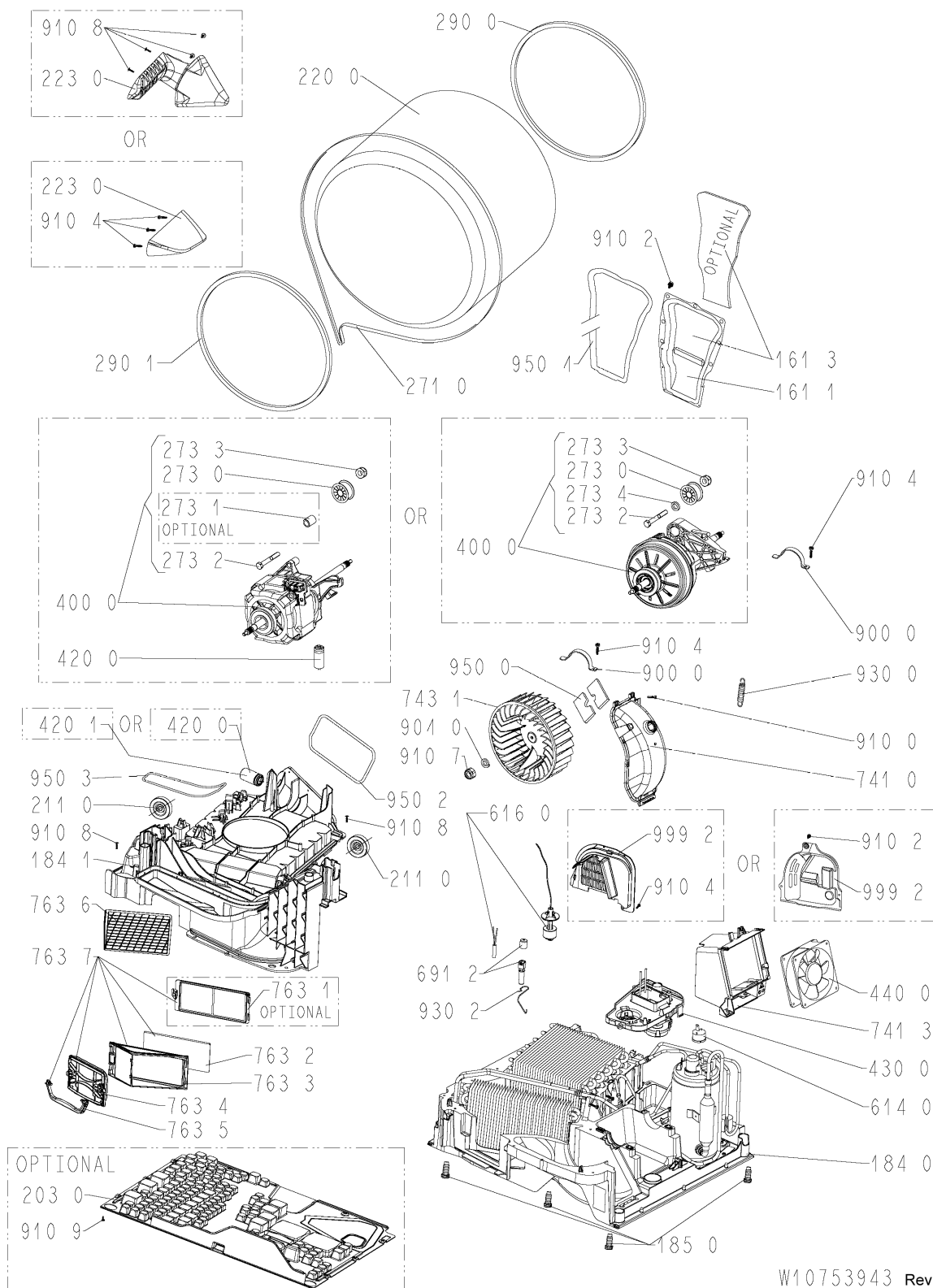
Pos	12NC	Description
7500	4810 105 72507	WATER CONTAINER, 14
7630	4810 106 15876	Filter
7632	4810 107 16911	Foam HX Filter
7633	4810 103 54755	Frame HX Filter, inner
7634	4810 103 54761	Cover HX Filter, ASM
7635	4810 103 54762	Handle HX Filter
7636	4810 107 17367	Filter
7637	4810 103 45281	Filter HX, cpl.
7831	4801 121 01509	Hose reflow
7832	4801 121 01508	Hose
9000	4801 121 01471	Clamp
9001	4810 105 53524	Hook
9040	4801 121 01631	Washer
9041	4810 107 63983	Cap Packaging
9100	4801 121 01492	Screw
9101	4812 502 48347	Screw,selftap 3,5x14
9102	4801 121 01491	Screw
9103	4810 213 05003	Screw CB H C F Z P3.3x12
9104	4812 502 18695	Screw (10 pieces)
9105	4801 121 01528	Screw
9106	4801 121 01488	Screw
9107	4801 121 01464	Nut M6
9108	4810 103 06501	Screw
9109	4812 502 38151	Screw 4x14
9300	4801 121 01468	Spring
9301	4801 121 01561	Washer
9302	4810 103 74142	Spring NTC
9410	4801 121 01499	Bearing
9500	4801 121 01463	Felt,strip
9502	4801 121 01472	Gasket
9503	4801 121 01477	Gasket
9504	4801 121 01505	gasket
9992	4810 103 54766	Flap Pump HP
9994	4810 106 58549	Screw 5.0-2.24x25 FL 6L
9995	4810 107 11270	Cap M4-0.7x9.5

Exploded View



W10753943 Rev. E

Exploded View



W10753943 Rev. E

Technical Data

Dimensions + Weight

Product dimensions	
Height	85 cm
Width	60 cm
Depth	63 cm
Weight	
net	48 kg

Electrical base data

Voltage	230 V
Frequency	50 Hz
Fuse	10 A
Total connected load	950 W

Surroundings temperature

Room temperature	max.	35 °C
Room temperature	min.	5 °C

Thermostats condenser

Safety thermostat	TL
Switch off temperature	160 °C ± 10 °C
Switch on temperature	70 °C ± 10 °C
Characteristics of the NTC	

SET2				
0 °C	35.975	kΩ	± 5.8	%
30 °C	9.786	kΩ	± 3.7	%
40 °C	6.653	kΩ	± 3.1	%
50 °C	4.608	kΩ	± 2.6	%
60 °C	3.243	kΩ	± 2.0	%
70 °C	2.332	kΩ	± 2.5	%
95 °C	1.09	kΩ	± 3.7	%

Main- and blower motor

.....	+ MCU
Type	Brushless Permanent Magnet (BPM)
Nominal voltage	220 - 240 V
Frequency	50/60 Hz
Power Consumption	185 W ± 20 %
Nominal current	1.5 A ± 20 %

Fan motor

Type 1-phase asynchronous motor
Nominal voltage 220 - 240 V
Frequency 50 Hz
Power Consumption 24 W

Condensation pump

Type 1-phase
Nominal voltage 220 - 240 V +10 % / -15 %
Frequency 50 Hz $\pm$ 0.5 %
Resistance (20°C) 716 Ω $\pm$ 10 %
Power Consumption 7.5 $\pm$ 3 W
Capacity (height 1.1m) 2.3 l/min

Reed contacts**Water Level**

Type SLE
Nominal voltage 5 V
Current 0.5 mA

Heat exchanger

Type SHX
Nominal voltage 5 V
Current 0.5 mA

Door switch

Type SD
Nominal voltage 5 V
Current 50 mA

Drum light - optional

Type LC
Nominal voltage 2.9 - 5 V
Power 0.5 W
Current 45 - 160 mA

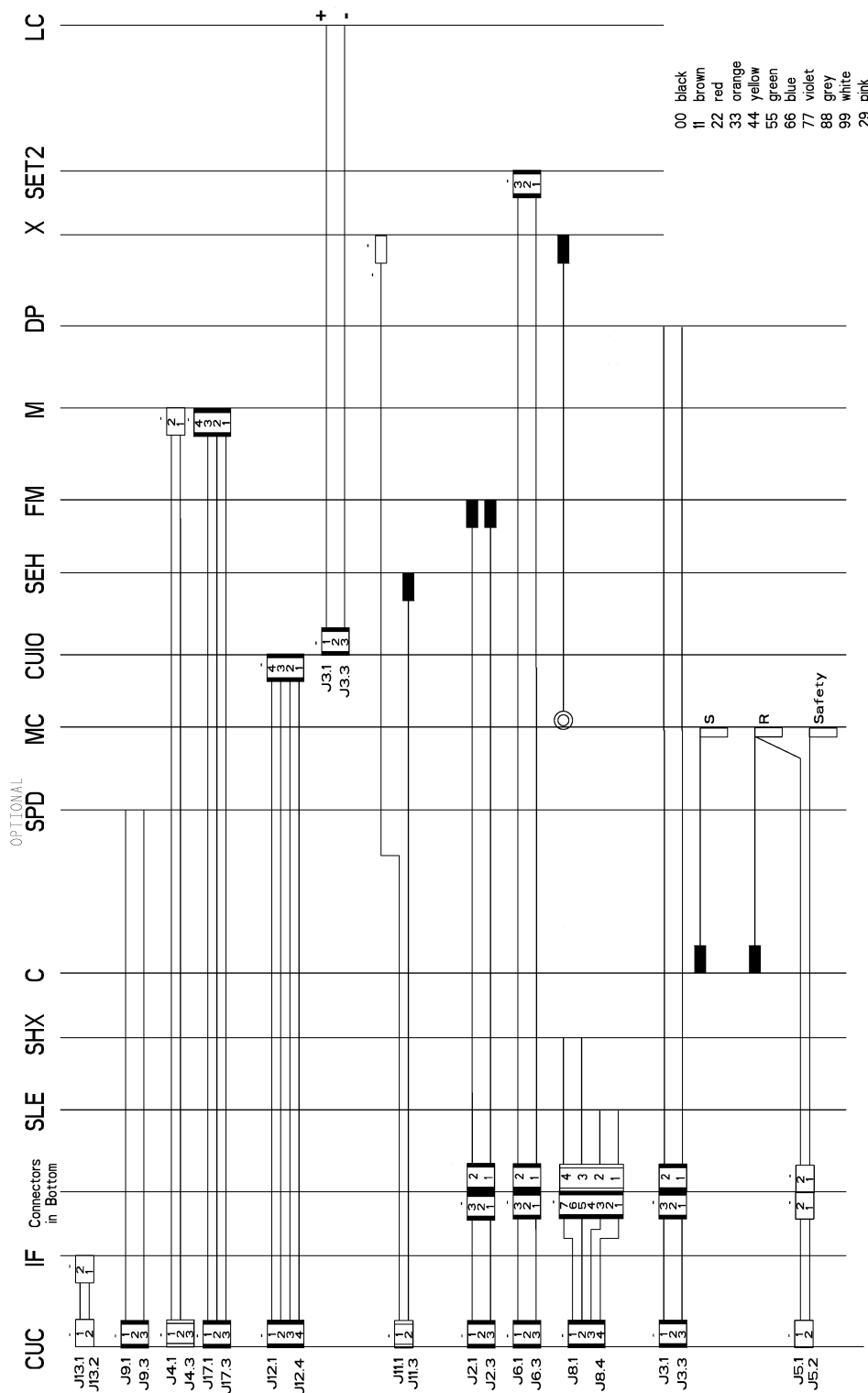
Control unit central

Type Fujin
Nominal voltage 220 - 240 V
Frequency 50/60 Hz

Control unit display

Nominal voltage	5 V $\pm$ 0.5 V
Current	max. 350 mA
Nominal voltage	12 V
Current	max. 20 mA

Wiring Diagram

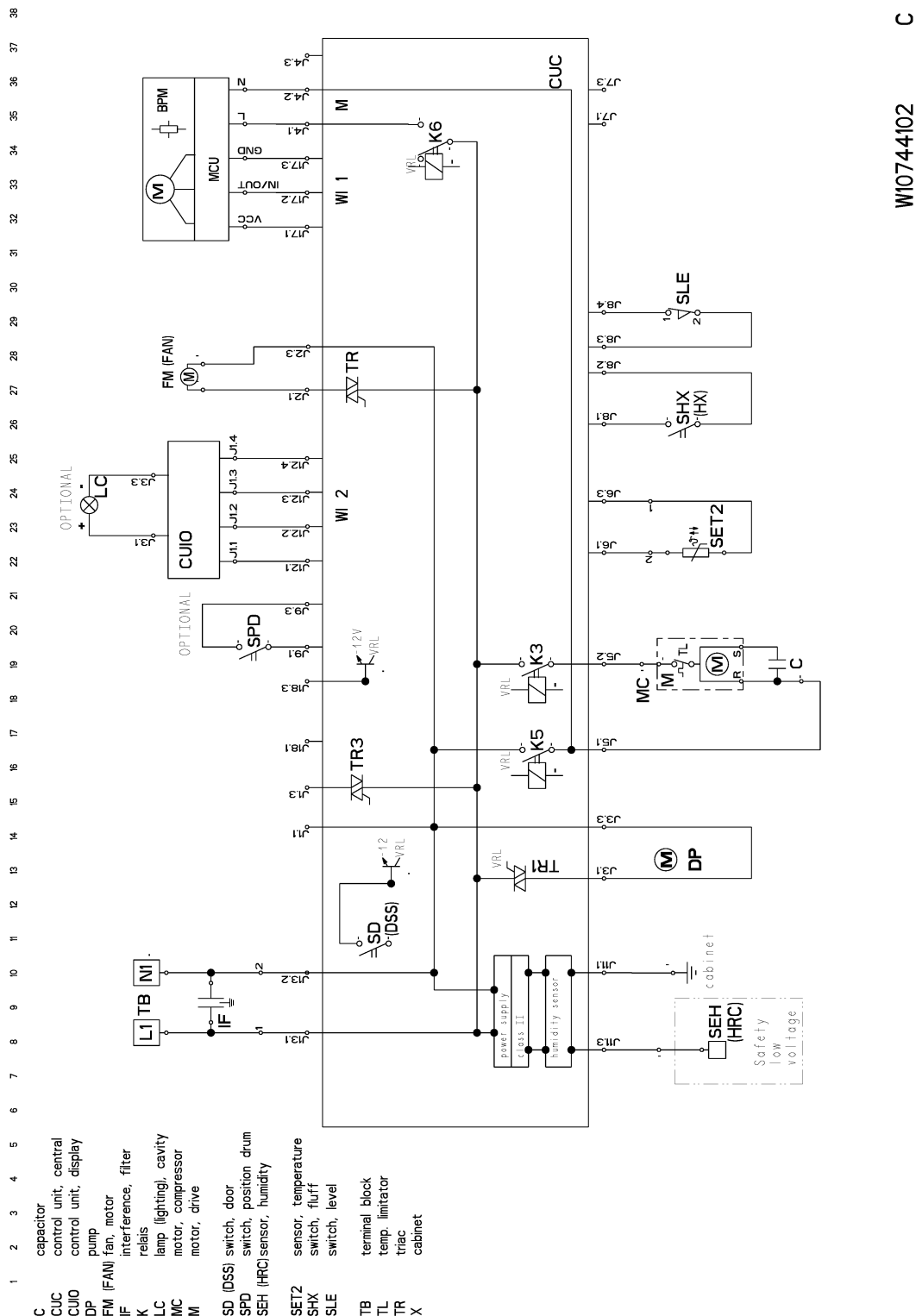


W10744102 C

Legend

00	black
11	brown
22	red
29	pink
33	orange
44	yellow
55	green
66	blue
77	violet
88	grey
99	white

Circuit Diagram



Legend

C	capacitor
CUC	control unit, central
CUIO	control unit, display
DP	pump
FM (FAN)	fan, motor
IF	interference filter
K	relais
LC	lamp (lighting), cavity
M	motor, drive
MC	motor, compressor
SD (DSS)	switch, door
SPD	switch, position drum
SEH (HRC)	sensor, humidity
SET2	sensor, temperature
SHX (HX)	switch, fluff
SLE	switch, level
TB	terminal block
TL	temp. limiter
TR	triac
X	cabinet

Testprogram

EOLOS HP

1. Close the door or close the door switch.
2. Switch ON the appliance and wait until the start procedure has been finished.
3. Within 1 minute press and hold the button on the right side of the program display at the same time the most left and



the button before last until "FC" or "SC" appear on display.

4. Choose "SC" (service test program) with the program selector and confirm with the start button.
5. Press the start button to reach the next test step.
6. How to leave the test program
 - Switch OFF the appliance
 - or
 - Open door
 - or
 - Last step of test program is reached and START button is pushed

Display	Description of the Program Flow	Test/Tested Component
S:01	Display and button test HX filter position test, Drum Light function via corresponding button	Buttons, LED's, Drum Light, Reed Sensor HX filter positioning
S:02	Motor is turning clockwise (CW)	Motor
S:03	Motor is turning counter clockwise (CCW) Pump is running	Motor, Pump
S:04	Humidity test Pump and Float Switch Test is running, after water container is drawn out fill water into container housing the pump and floater function is tested	Humidity Sensor, Float Reed Switch
S:05	Compressor Test	Compressor
S:06	Fan is running	Fan
S:07	Last failure which has been detected is displayed	
EXIT	Leave the test mode	

EOLOS HP

Instruction for compressor test in step S:05

1. Remove the table top and the right side panel.
2. Verify the environment temperature.



3. Fix a temperature probe with aluminium tape to the marked (arrow) pipe.



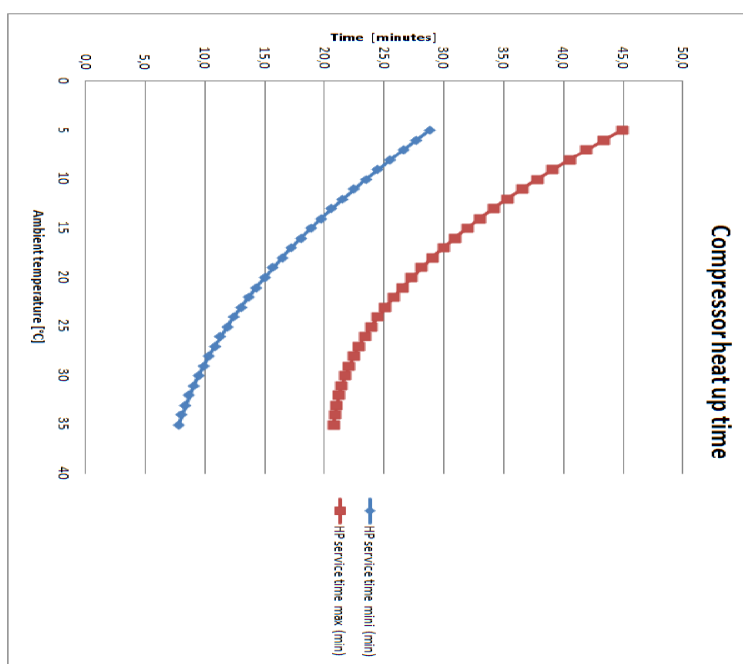
4. Run step 5 from service test program.
Monitor the increasing of temperature in the fixed time on the datasheet (see next page).

EOLOS HP

S:05 Temperature increase dependent on time

(valid for A-40, A-50, A+, A++, A+++)

Ambient temperature (°C)	HP service time mini (min)	HP service time max (min)	Delta
5	28,9	45,0	16,1
6	27,8	43,4	15,7
7	26,7	42,0	15,3
8	25,6	40,6	15,0
9	24,5	39,2	14,6
10	23,5	37,9	14,3
11	22,6	36,6	14,0
12	21,6	35,4	13,8
13	20,7	34,2	13,5
14	19,8	33,1	13,3
15	18,9	32,0	13,1
16	18,1	31,0	12,9
17	17,3	30,0	12,7
18	16,5	29,1	12,6
19	15,8	28,2	12,4
20	15,0	27,4	12,3
21	14,4	26,6	12,2
22	13,7	25,8	12,1
23	13,1	25,2	12,1
24	12,5	24,5	12,1
25	11,9	24,0	12,0
26	11,4	23,4	12,0
27	10,9	22,9	12,1
28	10,4	22,5	12,1
29	9,9	22,1	12,2
30	9,5	21,8	12,3
31	9,1	21,5	12,4
32	8,8	21,2	12,5
33	8,4	21,1	12,6
34	8,1	20,9	12,8
35	7,9	20,8	13,0



Cut-off temperature compressor (max. achievable temp. in Service Test):

A+ : Standard Lifter 70 °C; Air Care Lifter 73 °C

A++ : Standard Lifter 70 °C; Air Care Lifter 73 °C

A+++ : Standard Lifter 65 °C; Air Care Lifter 65 °C

Error Codes

EOLOS HP

Name	7-seg. code	LEDs failure code	Recommended actions
Main relay or heating element	F01		Check heating element and heating element wiring. If fluff is accumulated clean heating element and remove humidity. If problem is still present then change the ACU.
Data corruption	F02		Apply service reset procedure (see below). If not solving the issue then reprogram the ACU with the eSAM. If issue is still not solved, replace the ACU.
Humidity sensing system	F03		Check wiring of humidity sensing circuit. If problem still present then change the ACU.
Heater relay or heating element	F04		Check heating element limiter. Clean fluff on HE & remove humidity. Apply reset procedure. If issue is still present then change the ACU.
Air channel NTC (SET 1)	F05		Check NTC resistance, check wiring, check if NTC is connected. Clean fluff and humidity around NTC.
Heater NTC (SET 2)	F06		Check NTC resistance, check wiring, check if NTC is connected. Clean fluff and humidity around NTC.
Drum rotation detection	F07		Check if belt is not broken, check if drum can be turned by hand without excessive force. Check if motor is connected and working properly in both directions (apply Service Test Program, see above). On appliances with broken belt sensor a reed switch malfunction or missing magnet can cause F07. On air vented appliances detection is done with humidity stripes so check wiring otherwise replace ACU.
Communication failure ACU – MCU (BPM motor only)	F10	--	Check connection between ACU and MCU. Signal is 3-pole cable and power is 2-pole cable. Apply service reset procedure (see below).
MCU failure (only for BPM motors) or BPM motor failure (BPM motor only)	F11 to F19	--	Switch off/on the appliance. Check wiring from ACU to motor. Apply service reset procedure.
Motor over-temperature (BPM motor only)	F20	--	Check for any source of over-temperature : high friction of drum, overloaded drum, damaged drum seals.
UI Communication Error	F21	--	Check cable between ACU and display module.
Motor over-current	F22	--	Check for any source of over-current : blocked drum, damaged drive system, overloaded drum.
Compressor defect (heat pump only)	F23	--	Perform temperature check with service test procedure.
Fan defect (heat pump only)	F24	--	Check if fan rotor is not blocked by dust or foreign object. Check ACU to fan wiring. If everything is ok then replace the fan.
No communication with WIFI module	F33	--	Check WIFI setup, switch on WIFI module.
No communication with ACU	F70	--	Check cable between ACU and display module.
Touch button failure	F73	--	Check mechanical assembly of UI or change UI.
Requested dryness level not supported	F98	--	Reprogram ACU.
Cycle ID not available at ACU	F99	--	Reprogram ACU.

Reset procedure:

Appliance is switched ON. Press and hold the ON/OFF button for 3 seconds.