

- CD: COMBI DISPENSER
 CP: CIRCULATION PUMP
 DIV: WATER DIVERTER VALVE
 DP: DRAIN PUMP
 DR: DOOR
 DS: DOOR SWITCH
 F: FILTER
 FM: FLOW METER
 FN: FAN
 FS: FLOAT SWITCH
 HE: HEATING ELEMENT
 HL: HALOGEN LAMP
 HS: HUMIDITY SENSOR
 IS: ILLUM. SWITCH
 IV: INLET VALVE
 MS: MAIN SWITCH
 PS: PRESSURE SENSOR
 RAS: RINSE AID SENSOR
 SS: SALT SENSOR
 SV: SALT VALVE
 TH: THERMISTOR
 TS: TURBIDITY SENSOR
 VAX: VAX ACTUATOR
 NET: INTERFACE TO HOME NET COMMUNICATION UNIT
- WIRES IN ALL MACHINES
 --- INTERNAL CONNECTION
 - - - WIRES IN SOME MACHINES

**RESISTANCES AT ROOM TEMPERATURE (CA. 20°C/68°F)
 VALUES WITH +/-10% ARE REGARDED AS NORMAL**

COMPONENT	RESISTANCE
RADIO INTERFERENCE SUPPRESSION FILTER	1 MOHM
HEATING ELEMENT 1400W 120V	12 OHM
HEATING ELEMENT 1800W 230V	30 OHM
THERMISTOR	25 KOHM
COMBINED DISPENSER 120V	0.3 KOHM
CIRCULATION PUMP 120V 60HZ	1.3 OHM
CIRCULATION PUMP 230V 50HZ	22 OHM
CIRCULATION PUMP 220V 60HZ	96 OHM
DRAIN PUMP 120V 60HZ	96 OHM
DRAIN PUMP 230V 50HZ	25 OHM
DRAIN PUMP 230V 60HZ	85 OHM
SPRAY ARM DIVIDER 120V 60HZ	2.6 KOHM
INLET VALVE SINGLE INCL. FLOW SENSOR 120V	0.95 KOHM
INLET VALVE SAFETY INCL. FLOW SENSOR 120V	0.5 KOHM
INLET VALVE WATER SOFTNER INCL. FLOW SENSOR 120V	0.95 KOHM
INLET VALVE SINGLE INCL. FLOW SENSOR 230V	3.8 KOHM
INLET VALVE SAFETY INCL. FLOW SENSOR 230V	2 KOHM
INLET VALVE WATER SOFTNER INCL. FLOW SENSOR 230V	<10 KOHM
HALOGEN LAMP 5W 12V	1.1 KOHM
WAX MOTOR	0.18 KOHM
FAN MOTOR 120V	1.1 KOHM
FAN MOTOR 230V	0.75 KOHM

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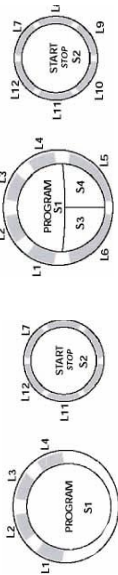
S:\U\DW2011_Tryckunderlag\kopplingschema\8073809 Circuit diagram DW20.4_c.dft, mail, 2002-06-18 08:34:08

Pos.	Qty	Part No.	Name of item	Material
			Dens.Kg/dm3	Dimensions, Type, etc.
			Gen.tolerance	Description(ENG)
			Gen.tol.Angle	CIRCUIT DIAGRAM DW20.1..2..3..4..C
			Iss by Dept	Description(SE)
			UD	KOPPLINGSSCHEMA DW20.1..2..3..4..C
			Year	Rev Ind
			Week	Replace
			00	41
ASKO CYLINDA				Project
			80 738 09	00

Rev ind	Revision	Appod	Year	Week

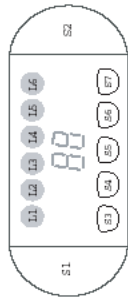
Displays

DW20.1



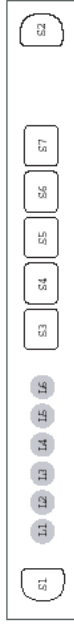
Panel type DW20.1, L = LED, S = Push-button

DW20.2



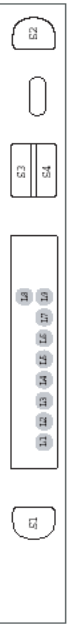
Panel type DW20.2, L = LED, S = Push-button, D = Display

DW20.3



Panel type DW20.3, L = LED, S = Push-button

DW20.4



Panel type DW20.4, L = LED, S = Push-button

TOTAL RESET

- TURN OFF MAIN SWITCH
- WAIT FOR AT LEAST 5 SECS
- HOLD PROGRAM BUTTON (S1)
- TURN ON MAIN SWITCH
- RELEASE PROGRAM BUTTON (S1)

SERVICE MENU

- TURN OFF MAIN SWITCH
- WAIT FOR AT LEAST 5 SECS
- *HOLD PROGRAM AND START BUTTONS (S1 & S2)
- TURN ON MAIN SWITCH
- RELEASE PROGRAM AND START BUTTONS (S1 & S2)
- *FOR DW20.4 HOLD TEMPERATURE/SET AND DRYING/MENU BUTTONS (S3 & S4)

VARIANT SETTING

- *ACTIVATE THE SERVICE MENU
- PRESS START (S2) 3 TIMES WITHIN 5 SECS
- *FOR DW20.4
- HOLD PROGRAM AND START BUTTONS (S1 & S2)
- TURN ON MAIN SWITCH
- RELEASE PROGRAM AND START BUTTONS
- PRESS START (S2) 3 TIMES WITHIN 5 SECS

COMPONENT TEST:

First enter Service menu.

DW20.1

No component test available.

DW20.2 and DW20.3

Component test:

Press the Programme button (S1) and index through the following components:

1. Inlet valve
2. Salt valve (only machines with water softener)
3. Detergent and surfactant dispenser
4. Circulation pump
5. Heating element and circulation pump (Max 75°C)
6. Fan
7. Drain pump

DW20.4

First enter service menu.

Press Drying/Menu (S4) to access component diagnostics.

Press Temperature/Set (S3) to activate the following components:

1. Inlet valve (display shows water intake volume)
2. Salt valve (only machines with water softener)
3. Detergent and surfactant dispenser
4. Circulation pump (display shows turbidity in Volts)
5. Heating element and circulation pump (Max 75°C)
6. Fan (display shows humidity sensor value)
7. Drain pump (display shows pressure sensor reading; 0.5-3.5 VDC)

Pos	Qty	Part No.	Name of item	Material
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	1:1			CIRCUIT DIAGRAM DW20.1, 2, 3, 4, C
			Gen.tol.Angle	Description(SE)
				KOPPLINGSHEMA DW20.1, 2, 3, 4, C
			Iss by Dept	Week
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				Project

Rev ind	Revision	Appd	Year	Week