

ELECTROLUX HOME PRODUCTS PTY LTD

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Electrolux Condenser Dryers SERVICE INSTRUCTION



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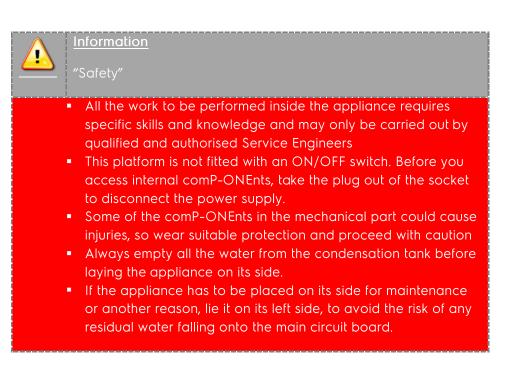
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2 PRECAUTION



3 PURPOSE OF THIS MANUAL

The purpose of this Service Manual is to provide Service Engineers who are already familiar with the repair procedures with information regarding: **Tumble dryers**

fitted with EDR16 electronic control systems.

This document describes the basic functional concepts of all User Interface types designed for: > P-ONE

For each aesthetic level, according to buttons/lights layout, specific electronic boards are provided. Such boards are separated from the main power board that controls the tumble dryer and communicates with it by means of MACS serial protocol.

The compatible main boards are based on:

The manual deals with the following topics:

- General characteristics
- o Control panel
- Guide to diagnostics

3.1 MODEL: EDC804BEWA

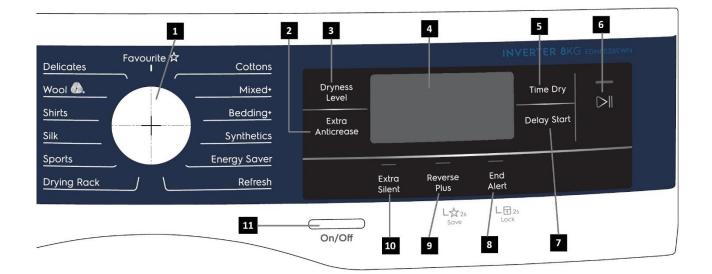
·	ITROL PAN 1 Favouriteな	IEL Cottons			2 3 INVERTER 8	4 KG EDC804BEWA
Wool		Mixed			Time Dr	, + → ▷
Shirts		Bedding			Delay Sto	
Easy Iron	/.	Synthetics				
Sports	<u> </u>	Energy Saver	c∷ -ờ -			
Denim		Refresh	Dryness Level	Gentle Dry	Extra Anticrease	
		9	On/Off 8	7	6 5])
1 Progr	amme kno	b	e	Extra	Anticrease to	uch button

- 2 Display
- 3 Time Dry touch button
- 4 Start/Pause touch button
- 5 Delay Start touch button

- 6 Extra Anticrease touch button
- 7 Gentle Dry touch button
- 8 Dryness Level touch button
- 9 On/Off button

3.2 MODELS: EDH803BEWN, EDH803CEWA

3.2.1 CONTROL PANEL



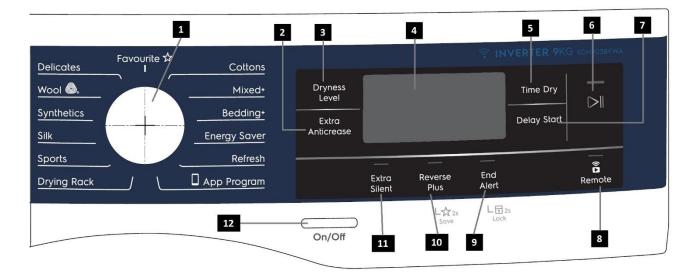


- 1 Programme knob
- 2 Extra Anticrease touch button
- 3 Dryness Level touch button
- 4 Display
- 5 Time Dry touch button
- 6 Start/Pause touch button

3.3 MODEL: EDH903BEWA

- 7 Delay Start touch button
- 8 End Alert touch button
- 9 Reverse Plus touch button
- 10 Extra Silent touch button
- 11 On/Off button

3.3.1 CONTROL PANEL



- 1 Programme knob
- 2 Extra Anticrease touch button
- 3 Dryness Level touch button
- 4 Display
- 5 Time Dry touch button
- 6 Start/Pause touch button
- 7 Delay Start touch button

- 8 🛱 Remote touch button
- 9 End Alert touch button
- 10 Reverse Plus touch button
- 11 Extra Silent touch button
- 12 On/Off button





3.4 COMMON FUNCTIONALITIES

3.4.1 ON/OFF BUTTON

All the other aesthetics levels of Electrolux range have a dedicated mechanical tact-switch button for On/Off function always present. Depending on the main board features of the machine, this button could completely disconnect the machine from the mains, or alternatively put the machine in a special low power consumption mode. When the main board mounts the 0 Watt power consumption circuit the machine is automatically and completely disconnected from the mains; without 0 Watt circuit, the user has to unplug machine to disconnect mains power. In any case the user interface behaviour is the same.

See also next "Stand-by mode" paragraph.

To switch on the appliance press and hold the On/Off button for a short time. The user interface plays the dedicated jingle and switches the lights and display turns on according to default programme.

To switch off the appliance, press and hold the On/Off button a bit longer. The user interface plays the dedicated jingle and all lights and display are switched off. All previously selected options and the possible program in progress are reset, so that at next machine power up the default drying program is selected.

3.4.2 LOW POWER CONSUMPTION MODES

The machine is put in low power consumption mode to avoid wasting energy when the cycle is not running, in accordance with international standards in terms of energetic consumption normative.

The low power mode in this document is referenced as Stand by.

3.4.3 STAND-BY MODE BEHAVIOUR

This mode applies to all UI levels where On/Off button is provided.

The appliance goes in Stand-by mode when it is "virtually switched off" by pressing On/Off button or the user does not interact with control panel for 5 minutes during program setting up or after that cycle has finished (auto stand-by). The machine is "virtually switched off" because all LEDs and display are lighted off and buttons are disabled, but the electronic boards are supplied anyway.

To cut out mains supply the appliance needs to be unplugged or mount the so called Zero-Watt circuit to provide the auto-off feature.

The appliance exits Stand-Off mode when the user presses the On/Off button to switch machine on.

The auto-off feature combined with Zero-Watt circuit works in two ways:

- when pushing the Off button, the electronics cuts out mains supply after some seconds, after having set machine in safety conditions (motor stops, ...). Cycle is reset, previously selected options are cleared so that next machine switching on the default programme is prompt;
- after 5 minutes without interaction with the customer, during programme setup or after the cycle is finished, the electronics cuts out mains supply automatically for energy saving purposes in accordance with power consumption norms. In case of cycle end, the cycle status and previously selected options are kept so that next machine switching on the same programme in cycle end phase is prompt; this way the customer is aware the cycle finished normally and can restart it if desired. During programme setup, the cycle and options are reset so that next machine switching on the default programme is prompt.

Automatic auto-off is disabled in case an alarm is displayed.



3.5 BUZZER

A multi-tone buzzer is provided to sound in following cases:

- switching machine on and off, with 2 different short jingles;
- pressing a button, with a very short "click" sound;
- when a selection error occurs, with three very short "click" sounds;
- when the cycle is finished, for about 2 minutes with a specific sequence of beeps;
- when alarms/warnings occur, for about 5 minutes with a specific sequence of short beeps.

The buzzer can be active or not by configuration; anyway **the default factory setting has to be active** to meet the norms regarding eyesight handicap people. To deactivate it the specific push buttons combination has to be used (see "Buttons Combinations" paragraph).

When deactivated the buzzer doesn't play the anti-crease start and cycle end melodies, while sounds anyway in case of button "click", the on/off jingles and selection error/alarms occurrence.

Volume level is pre-fixed and can't be changed by user. The behaviour is the same for all UI levels.

3.6 FAULTS/WARNINGS SIGNALS

3.6.1 SELECTION ERROR

The selection errors are noticed to customer by a specific buzzer melody. The selection errors are given in following cases:

- when an incompatible option button with selected program has been pressed;
- when an option button is pressed or the selector is moved during the cycle execution.

4 CONDUCTIVITY/MOISTURE LEVEL SETTING

Used to set the water conductivity degree among three levels: low, medium, high, to adjust humidity algorithm parameters for more precise final drying result.

Water contains, a variable quantity of <u>limestone</u> and <u>mineral salts</u> of which quantities vary according to geographical locations thus varying its conductivity values. Relevant variations of the conductivity of the water compared to those prefixed by the factory could slightly influence the residual humidity of the laundry at the end of the cycle. The dryer allows to regulate the sensitivity of the drying sensor based on conductivity values of the water.

To adjust this setting please refer to the individual model's User Manual, Moisture Level Adjustment section.

5 EDR14 EU, EDR 16

5.1 INTRODUCTION

EDR14, EDR 16 is an electronic platform based on a double board architecture: a power board (MB) to manage all sensors/loads and a separate user interface board (UI).

UI supported:

- Diamond-Plus(Electrolux models)

*supported only by EDR 14 EU and EDR 16

The **Power Board** electronic control have the purpose to:

- drive all the machine loads (motor control board, pumps, heating element, drum light, drying fan).
- read the several inputs necessary to control the functionality (water tank full/empty status, door status, motor speed, air temperature, power supply status).
- manage a serial port to connect the machine to external devices for testing, configuration, remote control purpose (EAP protocol).

The User Interface Board electronic control has the purpose to:

- manage the user selections and the machine status display by driving Leds and LCDs, and by reading buttons and/or rotary knobs,
- manage a serial port to allow connection to external devices for testing, remote control purpose (EAP protocol).

The purpose of this document is to describe the diagnostic architecture implemented on this electronic platform.

5.2 SYSTEM ARCHITECTURE

The machine can work in several functional modes:

- User mode
- Demo mode
- Electric test mode
- Special function mode
- Diagnostic mode
- Remote controlled mode

The last one can be set only by serial port using specific tools.

All the other modes are available using the machine itself.

<u>User mode</u> is the normal way to use the machine to execute normal cycles (used by the end customer).



<u>Demo mode</u> is used in the shops to show to the customer how to set and execute a cycle without drying.

<u>Special function mode</u> is used to show special parameters of the machine (for example the cycles/working hours counter – pay per dry architecture).

<u>Electric test mode</u> is used, on assembly line, to perform the electric safety tests according the International Standards.

Diagnostic mode is used by service/lab people to test the machine, read/reset alarms.

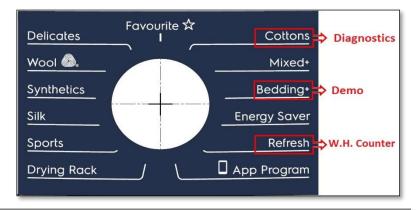
<u>Remote control mode</u> apart, the other functional modes can be set by configurable buttons combinations.



nformation Standardisation

- If the key combination is recognised within 10 seconds since the machine was switched on (via On/Off button), a specific mode is entered according to the position of the main knob or according the program selected in case of LCD Blue Fire or Pilot 2 levels:
 - Diraccording the program selected in case of LCD bit
 - Position 1: Diagnostic mode set
 - Position 3: Demo mode set
 - Position 5: Working hours counter

5.3 DIAGNOSTIC/DEMO MODE/WORKING HOURS COUNTER KEY COMBINATION



DIAGNOSTIC/DEMO/WORKING HOURS COUNTER MODE

5.3.1 MODEL EDH903BEWA

- 1. Select the required function via selector knob as shown
- 1. Switch the machine ON using ON/OFF switch



- 2. Within 7 seconds touch and hold both Start/Pause & Time dry touch pads simultaneously for a few seconds until all LEDs and display light up in sequence.
 - Note: If unsuccessful switch off the machine via ON/OFF switch and repeat above



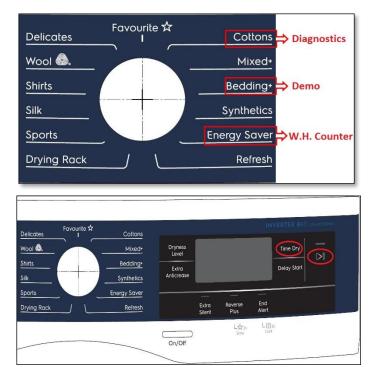


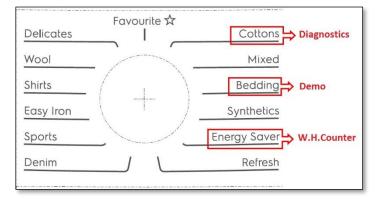
5.3.2 MODEL EDH803BEWN

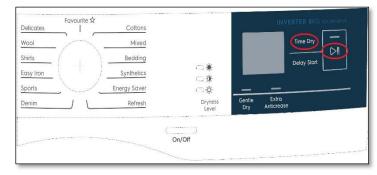
- 2. Select the required function via selector knob as shown
- 3. Switch the machine on using ON/OFF switch
- Within 7 seconds touch and hold both Start/Pause & Time dry touch pads simultaneously for a few seconds until all LEDs and display light up in sequence.
 - Note: If unsuccessful switch off the machine via ON/OFF switch and repeat above

5.3.3 MODEL EDC804BEWA

- 1. Select the required function via selector knob as shown
- 2. Switch the machine ON using ON/OFF switch
- Within 7 seconds touch and hold both Start/Pause & Time dry touch pads simultaneously for a few seconds until all LEDs and display light up in sequence.
 - Note: If unsuccessful switch off the machine via ON/OFF switch and repeat above







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5.4 WORKING HOURS COUNTER

Using a specific procedure(page 13), the operator can display the total operating time for the appliance, which is counted from the moment it is first switched on.

The unit can count up to a maximum of ${\bf 6}~{\bf 550}$ hours of operating time.

- Only the operating time of normal programmes (and not diagnostic cycles) is counted
- The actual operating time for the cycle is counted (which does not include pauses, delayed start time, rinse hold time and soaking phases)
- The precision of the counter is 30 seconds per programme.
- Only whole hours of operation are counted (1hr and 59 min = 1hr)

Working hours Dispplay	
 The thousands digit is showed only when value is over 999, the rule is valid for all platforms 	
 Examples: 15 = Hr 0 15 150 = Hr 1 50 1550 = Hr 15 50 	

This time is displayed with a sequence of two digits at a time: the first two digits indicate thousands and hundreds, the second two digits indicate tens

5.5 DEMO MODE

In the shops and exhibitions sometime it could be necessary to show to the customer the machine behaviour in set-up condition and also during cycle execution. The duration of a cycle execution is in any case too long for a brief show.

The Demo works in two ways: one interactive mode and one automatic loop.

Interactive mode allows the user, by selecting programs and options, to experience the interface without activating the appliance.

If no one has interacted with the interface for 3 minutes, or Start button hasn't been pushed, it proceeds to display an automatic loop instead, simulating the cycle execution only on display.

DEMO mode alters the execution of a cycle in such a way that these problems are avoided:

- In set-up state the machine behaviour is the same of the user mode one.
- During cycle execution all times are shorter.
- No drying is executed. All the user interface functionality is shown as in the normal condition (time to end ...).



Information

Once the DEMO mode is set, after each machine switching on DEMO mode is automatically recalled; this occurrence is signalled after some seconds from the start-up by the steady text "dEn"
 To exit the DEMO mode the machine has to be upply aged from mains path.

To exit the DEMO mode the machine has to be unplugged from mains net.

5.6 DIAGNOSTIC MODE

This mode is used in several conditions:

- In factory assembly line to perform a manual test of the machine functionality (final assembly test).
- By service people to check for faults and repair the machine.

- In the labs to check the right machine functionality.

5.7 ENTERING DIAGNOSTIC MODE

See 5.3 for access to diagnostics mode

Information

'DIAGNOSTIC mode"

- If the key combination is recognised within 7 seconds since the machine was switched on (via On/Off button), a DIAGNOSTIC mode is entered
- To exit from DIAGNOSTIC mode it's sufficient to switch off the machine.
- According to the machine configuration, at the next machine switching on the electric test cycle may be activated. To stop it, switch off again the machine.

5.8 DIAGNOSTIC PROGRAM DEFINITION

In the 1st selector or program position (LCD or Pilot 2) the User Interface test is performed; all LEDs or LCD symbols are lit sequentially to allow checking the outputs. For each LCD display a specific sequence of screens is performed in order to test all icons and backlight LEDs.

Pressing any button the associated LEDs and display icons are lit and the related position number is shown on cycle time (TTE) digits if present, till button is released; besides, the buzzer plays a single "beep" sound (mechanical switch) or "click" sound (touch sensor).

When the selector knob is moved the TTE digits show the "C" letter followed by the knob position code for about 2 seconds; Series 9 level shows also "Knob position" on text row.

Information

Enter "last alarm display" or "electric test"

After the diagnostic mode was entered, the same combination has the following functions:

- In "last alarm display" selector position (the 10th counting clockwise) the last alarms are cleared.
- In all other positions it sets the "electric test" mode at the next machine switching-on.

FOR ANY POSITION THERE IS A DIFFERENT TEST:		
POSITION	VERSION : DESCRIPTION	
1	User Interface Test	
2	Condense Tank Switch + Condense Tank Pump	
3	Counter Clockwise drum rotation	
5	Counter Clockwise drum rotation + Condenser Heat up	
	Clockwise drum rotation (for visual check of the drum)	
4	Compressor Cooling Fan	
i 	Compressor Cooling Fan + Steam Generation	
5	Heater ½ power + Clockwise drum rotation	
5	Clockwise drum rotation	
6	Heater full power + Clockwise drum rotation	
0	Compressor ON + Clockwise drum rotation	
7	Conductimetric sensor: drum open circuit	
8	Conductimetric sensor: drum short circuit	
Q	Condense Tank Switch	
7	Condense Tank Switch + Condenser Emptying + Steam Tank Level	
10	Last alarm display and possible reset	





The test cycles are working only if:

- There is no communication error between main board and user interface.
- The machine is configured with a valid configuration (no configuration alarm).
- In case of MB-UI communication alarm, the only test available is the user interface test, because the user interface can be tested alone only supplying the 12 Volts.
- Pressing together the key combination during one of the diagnostic cycles (from position 2 to 9) the machine will set in electric test mode at the next power on.
- Pressing together the key combination in the last alarm display position (10), the alarm codes that were stored in memory will be reset.
- Pressing another valid key combination (the ones configured for Child Lock, Conductivity level, Tank warning...) during one of the diagnostic cycles (from position 2 to 9) the factory default settings are restored, that is:
 - o disable permanent modes/options such as Child Lock, Buzzer;

During the test the display will show some data concerning the cycle being performed. The details are explained in the following tables, which also specify, for each selector position, the purpose of the associated test, the components activated and the conditions under that the test is performed.

COI USER INTERFACE TEST		
Selector-test position:	Position 1 in clockwise direction or in test sequence (LCD).	
Purpose of test:	To test the functionality of all lights, switches and buzzer.	
Activated comP-ONEnts:	All LEDs, LCD display (if present) and buzzer	
UI behaviour with display:	All led in sequence, pushing a button correspondent led is lit, the key number is showed on LCD and the buzzer sound. All LCD icons blink together See the descriptions below	
UI behaviour for	All led in sequence, pushing a button correspondent led is lit and the buzzer sound. See the descriptions below	
Working conditions:	There isn't any control to run the test (always active).	

C02	CONDENSER TANK SENSOR + F	PUMP => add water to tank for testing
Selector-	-test position:	Position 2 in clockwise direction or in test sequence (LCD).
Purpose	of test:	Test condense tank sensor and pump.
Activate	d comP-ONEnts:	Line Safe Relay + if the basement is full of water and the tank sensor recognises the condition, the pump is switched on.
UI behav	viour with display:	Water level high: 000 Blinking Water level low: 111 Steady
UI behav	viour for S5 / TC5	Water level high: Tank, Condenser, Filter warning LEDs blink Water level low: warning LEDs remain off Phase LEDs are lit steady to indicate service mode.
Working	conditions:	Door closed (Time out 10 min.).

CO3 CCW drum	
Selector-test position:	Position 3 in clockwise direction or in test sequence (LCD).
Purpose of test:	Test drum motor in counter-clockwise direction.
Activated comP-ONEnts:	Line Safe Relay + CCW Motor Relay + Tank Pump
UI behaviour with display:	
UI behaviour for S5:	Only phase LEDs are lit steady to indicate service mode.
Working conditions:	Door closed (Time out 10 min.).

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C04	CW drum (standard models)	
		Position 4 in clockwise direction or in test sequence (LCD).
Purpose	of test:	Test drum motor in clockwise direction.
Activated comP-ONEnts:		Line Safe Relay + CW Motor Relay
UI behaviour with display:		
UI beha	viour for S5:	Only phase LEDs are lit steady to indicate service mode.
Working conditions:		Door closed (Time out 10 min.).

C04	Fan Cooling (Heat pump Models)	
		Position 4 in clockwise direction or in test sequence (LCD).
Purpose	of test:	Test compressor cooling fan
Activated comP-ONEnts:		Line Safe Relay + Cooling Fan Triac
UI behav	viour with display:	
Working conditions:		Door closed (Time out 10 min.).

C05 Heater ½ power + CW drum (sta	ndard models)		
Selector-test position:	Position 5 in clockwise direction or in test sequence (LCD).		
Purpose of test:	Test Higher Power Heater Element		
Activated comP-ONEnts:	Line Safe Relay + CW Motor Relay + Heater 1 (Higher Power Heater Element)		
UI behaviour with display:	digits on LCD show NTC1(fan) drying temperature.		
Working conditions:	Door closed (Time out 10 min).		
C05 CW drum (Heat pump models)			
Selector-test position:	Position 5 in clockwise direction or in test sequence (LCD).		
Purpose of test:	Test drum motor in clockwise direction		
Activated comP-ONEnts:	Line Safe Relay + FCV Power		
UI behaviour with display:	digits on LCD show NTC1(compressor) drying temperature		
Working conditions:	Door closed (Time out 10 min).		
C06 Heater full power + CW drum (standard models)			
Salactor tast position:	Position 6 in clockwise direction or in test sequence		

Selector-test position:	Position 6 in clockwise direction or in test sequence (LCD).				
Purpose of test:	Test both Power Heater Elements				
Activated comP-ONEnts:	Line Safe Relay + CW Motor Relay + Heater 1 (Higher Power Heater Element) + Heater2 (Lower Power Heater)				
UI behaviour with display:	digits on LCD show NTC2(heating element) drying temperature.				
Working conditions:	Door closed (Time out 10 min.).				

C06 Compressor + CW drum (Heat pu	ump models)					
Selector-test position:	Position 6 in clockwise direction or in test sequence (LCD).					
Purpose of test:	Test Compressor					
Activated comP-ONEnts:	Line Safe Relay + FCV Power + Compressor Relay (Compressor Driven at 750W)					
UI behaviour with display:	digits on LCD show NTC2(Condenser) drying temperature					
Working conditions:	Door closed (Time out 20 min)					
Allow this test to run until the end (approximately 20 minutes). If error ED5 appears on screen it indicates there is no gas in the circuit. Note: this test is only available for models with serial numbers starting from 820xxxxx						

Selector-test position:	Position 7 in clockwise direction or in test sequence (LCD).
Purpose of test:	Verify conductimetric sensor in open circuit condition.
Activated comP-ONEnts:	Conductimetric sensor reading.
UI behaviour with display:	Test Running: 000 Blinking Test Completed: 111 Steady
Working conditions:	Open Circuit between two sensor bars.
C08 Conductimetric short circ	uit (must place a short circuit across the sensor bars for this test)
Selector-test position:	Position 8 in clockwise direction or in test sequence

Selector-test position:	(LCD).					
Purpose of test:	Verify conductimetric sensor in short circuit condition.					
Activated comP-ONEnts: Conductimetric sensor reading.						
UI behaviour with display:	Test Running: 000 Blinking Test Completed: 111 Steady					
Working conditions:	Short Circuit between two sensor bars.					

C09 Condense Tank Sensor (for facto	ry assembly line ONLY)				
Selector-test position:Position 9 in clockwise direction or in test sequence (LCD).					
Purpose of test:	Test the tank switch (for assembly line only).				
Activated comP-ONEnts:	Line Safe Relay + if the basement is full of water and the tank sensor recognises the condition, the pump is switched on				
UI behaviour with display:	Water level high: 000 Blinking Water level low: 111 Steady				
Working conditions:	Door closed (Time out 10 min).				

C10 Last alarm display and possible	reset
Selector-test position:	Position 10 in clockwise direction or in test sequence (LCD).
Purpose of test:	Display last alarm and possible reset
UI behaviour with display:	Alarm complete code is showed in the format Exx (E 4 2) on Time to End digits
To Reset	Press and hold diagnostic key combination for a few second to clear alarm codes

Condenser Empty Tank	
Selector-test position:	Position 2-9 in clockwise direction or in test sequence (LCD).
Detailed description:	If the reed of steam tank is on void position, related icon on LCD blinks

6 WARNINGS

In electronic platforms: EDR12, EDR14, EDR 16 in normal functioning mode, to final user are shown only those warnings that he is able to manage without the attendance of after sales service personnel. In case of EDR10 all alarms codes are shown.

These warnings are not considered permanent machine faults, but normally temporary faults due to carelessness of the user.

Such warnings are highlighted by using LED, turning on an icon on the display:

- fill the water container for steam system
- Clean the steam system filter
- Grain the water container
- Clean filter
- ⇒ do the check of the heat exchanger

or displayed with a specific message in the text line:

- "Close the door" cycle started with door opened
- "Check the load" cycle started without laundry
- "Unstable mains supply" + "EHO" on time digits
- "See user manual" + specific alarm code on time digits

There are also other **alarms that stop machine and cannot be managed by the final user**, that are requested to be shown:

- E5A FCV Board overheating
- E6A VSC Board overheating
- E97 Missing Program on CTF Alarm
- EH1 (EB1) Power Supply Frequency out of Range
- EH2 (EB2) Power Supply Amplitude out of Range (too HIGH)
- EH3 (EB3) Power Supply Amplitude out of Range (too LOW)
- EC6 Condenser Heater Sensing Alarm
- ECA Possible Empty Steam Tank



All the other warnings are not showed to final user because in many cases they are "false alarms" due to temporary abnormal conditions that the user sometimes neither notices and that could be simply solved switching off the machine.

The complete set of alarms is showed only in diagnostic mode for final test in factory assembly line or for after sales service personnel.

	nformation Varnings Buzzer sounds (regardless of configuration) on alarm presence only for warnings that are shown to final user, mains supply alarms excluded (EH0). Buzzer sounds (also if deactivated by customer via buttons combination) with a specific sequence of 3 short beeps about every 20 seconds for maximum 5 minutes. Stand-by mode is disabled on alarm presence only for warnings that are shown to customer. Warning code is disabled on alarm presence only for warnings that are shown to customer. Warning code is displayed as long as the fault condition is present. For the these codes EH1(EB1), EH3(EB3), the alarm puts the machine in pause state: ↓ DIGITS DISPLAY the Start/Pause button yellow /white (Blue Fire); red LED (AEG Perfekt 10); yellow (Pilot2) LED blinks continuously. ↓ NO DISPLAY the yellow (Blue Fire, Pilot2) / red (AEG Perfekt 10) LED is off, while the alarm red LED (Blue Fire, Pilot2) / yellow LED (Perfekt 10) under Start/Pause button blinks continuously for almost all warnings, except for "Software Configuration", "Boards Communication" and "Mains Supply"alarms. The blinking times for the LED are: 0.5 sec lit, 0.5 sec lighted off.
•	In some rare cases, other warning codes could be displayed to the customer, such as E91 – communication failure between electronic boards; in this case if failure repeats after unplugging/plugging machine, after sales service needs to be contacted. Alarm complete code is shown if the alarm belongs to the "Software Configuration" family, that includes also "Boards Communication" alarm, and "Mains Supply" family; this is in order to give the final user a valid indication of the alarm even if the configuration itself (needed to operate LEDs and Display) is damaged or missing.

DIGITS DISPLAY

warnings are displayed on the 7-segments digits display used to show the cycle time.

A specific code appears on digits while the buzzer sounds (also if deactivated by customer via buttons combination) with a specific sequence of 3 short beeps about every 20 seconds for maximum 5 minutes.

After the problem has been solved, pressing Start/Pause push button the warning code is not showed anymore, buzzer stops sequence and cycle restarts.

Standard warnings codes that can be showed to final user, with related actions to perform, are the following:

Displayed code	Warning condition	Alarm example
E5A	FCV Board overheating	
E6A	VSC Board overheating	
E97	Missing Program on CTF Alarm	P-ONE
EHI (EBI)	Power Supply Frequency out of Range	
EH2 (EB2)	Power Supply Amplitude out of Range (too HIGH)	ECU
EH3 (EB3)	Power Supply Amplitude out of Range (too LOW)	
EC6	Condenser Heater Sensing Alarm	
ECA	Possible Empty Steam Tank	



7 ALARMS

One of the main requirements of the diagnostic system is to be transparent to the final user except for some most common warnings.

To increase the flexibility of the system it was introduced the possibility to enable/disable the alarms display by the machine configuration in order to cover requirement as field test context, particular countries requirement ...

All alarms display is enabled during diagnostic test/cycles. They are displayed on the TTE digits of the display (if available) and on the red/yellow LEDs mounted beside the START key.

If the TD is in diagnostic mode and an alarm is raised, its code is always shown regardless of the configuration.

"Eb3" is shown like "EH3"

Please note that writing an alarm code on the LCD panels, all occurrences of "b" are replaced by "H" in order to avoid mistaking the "6" symbol, so for instance "Eb3" is shown like "EH3".

7.1 LAST ALARM READING AND RESET

The alarm indication is also used when the user interface (UI) enters LAST ALARM mode, that is when the user pushes the "special key" combination while the board is in normal mode or when the main knob is set to the 10th position while the board is in diagnostic mode.



Information "last alarm reading and reso

- While this mode is set, it's possible to read the code of the three latest alarms, starting from the most recent.
- It's possible to reset Last alarm pressing the defined key combination (START/PAUSE and the closest one for every UI) when in Diagnostic mode with selector in 10th position.

8 ALARMS TABLE

The alarm codes listed in the table below are divided by platform: EDR10, EDR12, EDR14 EU, EDR16.

4	\wedge	
6		

"Enable in setup", "Enable", "Display"

- Enable in setup an alarm can be active during cycle selection
- Enable an alarm can be available or not
- Display an alarm can be displayed to end user or not

Enable			
in	Enable	Display	Description
setup			
YES			an alarm is active also when machine is in idle (during cycle selection, before cycle start) not only during cycle execution
	NO		an alarm is not available, it is not saved neither shown to both end user and service
		NO	 end user - an alarm is not shown
			 service - if alarm is enabled it is saved in the history and shown in service mode
			an alarm is available:
	YES	NO	 end user - an alarm is not shown
			service - an alarm is saved in the history and shown in service mode
	YES	YES	an alarm is available, saved in the history and shown to both end user and service

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	DESCRIPTION	 Tank Pump Disconnected (Wiring or Connector Failure) Tank Pump Failure Tank Pump Triac Failure (Short Circuit, Diode Mode, Open Circuit) (Main Board Easturo) 	Pump Triac Sensing Circuit Failure (Main Board Failure)	Capacitive Level Sensor frequency out of range. 1. Sensor Disconnected (Wiring or Connector Failure) 2. Level Sensor Failure 3. Main Board Failure	Compressor Cooling Fan Sensing Circuit Failure (Main Board Failure)	Active only during HUMIDITY SENSOR SHORT CIRCUIT diagnostic. The oscillation Frequency is out of Range (Main Board Failure)	Active only during HUMIDITY SENSOR SHORT CIRCUIT diagnostic. 1. The Drum is not Short circuited 2. Wiring Failure 3. The oscillation Frequency is out of Range (Main Board Failure)	Not implemented	Door Closed Sensing Circuit Failure (Main Board Failure)	With Line Safe Relay Open, motor sensing detects voltage on motor. 1. Motor Short Circuit to ground (Motor or Wiring) 2. Electrical Noise 3. Line Safe Relay Problem (Main Board Failure)
16	Display	4	ON ON	-	-	ON	ON	-	ON	-
EDR16	Enabled in		YES YES YES YES		-	kes NO	kez NO	-	YES YES	-
14 J	Display		NO NO		-	ON	NO	ON	ON	ON
EDRI	Enabled in Enabled in		YES YES YES YES		-	kes NO	kez NO	YES	YES YES	YES YES
2	Display		ON ON		ON	ON	ON	-	ON	-
EDR12	Enable Enabled in		YES YES		YES YES	YES	YES	-	YES YES	-
0	Display		VES YES		-	YES	YES	-	YES	YES
	Enable Fnable		KEZ KEZ KEZ KEZ		-	YES	YES	-	YES YES	YES YES
		Stops cycle execution	No Action	Stops cycle execution	No Action	No Action	No Action		Stops cycle execution	Stops cycle execution
	FULL NAME	Condense Pump Alarm	Condense Pump Sensing Alarm	Capacitive level sensor alarm	HP Fan Sensing Alarm	Conductimetric Sensor Frequency too HIGH	Conductimetric Sensor Frequency too LOW		Door Closed Sensing Alarm	Drum Motor Short Circuit Alarm (only for Async Motor)
	CODE	E2I	E22	E23	E24	E31	E32	E33	E45	E51

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DESCRIPTION		 Drum Motor Disconnected (Wiring or Connector Failure) Drum Motor Capacitor (disconnected or broken) Drum Motor Failure Drum Motor Triac Failure (Short Circuit, Diode Mode, Open Circuit) (Main Board Failure) 	Drum Motor Triac Sensing Circuit Failure (Main Board Failure)	 Too much load into the drum Too low power supply voltage Drum/Motor mechanical abnormal frictions Drum Motor Capacitor (disconnected or broken) Drum Motor Failure 	Not implemented	1. Motor Wiring 2. Motor Windings 3. FCV Board	1. FCV Board - Motor Wiring 2. Motor Connector 3. FCV Board	1. FCV Board - Motor Wiring 2. Motor Connector 3. Motor mechanical blockage 4. FCV Board	1. FCV Board - Motor Wiring 2. Motor Connector 3. Motor mechanical blockage 4. FCV Board
16	Display			-	ON	ON	ON	ON	ON
EDR16	Enable Fnabled in			-	kez NO	kes NO	kes NO	лея ло	kes NO
	Display	C	N ON	ON	ON	ON	ON	ON	ON
EDR14 EU	Enable	S	YES YE	YES	YES	YES	YES	YES	SEY
	ni bəldan3	S	YES YE	ON		ON	ON	ON	ON
2	Display			-	ON	ON	ON	ON	ON
EDR12	Euaple			-	YES	YES	YES	YES	YES
	Endbled in			-	0.2.1				071
	Display Enable		YES YE	YES YES	YES YES	YES YES	YES YES	YES YES	
	Enable Enable		λE2 λΕ		23/	VEC.	VEC.	75	VEC.
NOLEOV		Stops cycle execution	Stops cycle execution	Pauses cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution
EIII NAME		Drum Motor Alarm (only for Async Motor)	Drum Motor Sensing Alarm (only for Async Motor)	Drum Motor Blocked Alarm (only for Async Motor)	FCV Safety Alarm	FCV motor plug not connected	FCV Current Trip Failure	FCV over current Failure	FCV - motor not following
L L L L L L L L L L L L L L L L L L L		E52	E53	E54	E55	E56	E57	E58	E59

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DESCRIPTION		1. Motor mechanical blockage 2. FCV Board	1. Main Board - FCV power supply wiring 2. FCV Board Failure	1. FCV BOARD Failure	Not implemented	1. Main Board - FCV communication wiring 2. Main Board - FCV power supply wiring 3. Motor Thermal Cutoff 4. Main Board or FCV Board Failure	1. FCV BOARD Failure	VSC Board	With Line Safe Relay Open, motor sensing detects voltage on heaters. 1. Heater/Compressor Short Circuit to ground Heaters or Wiring) 2. Electrical Noise 3. Line Safe Relay Problem (Main Board Failure)	1. Heater/Compressor Disconnected (Wiring or Connector Failure) 2. Heater/Compressor Failure 3. Heater/Compressor Relay Failure (Short Circuit, Open Circuit)	Heater/Compressor Sensing Circuit Failure (Main Board Failure)	VSC Board faulty (compressor inverter board)(models with VSC only)
\$	Display	YES	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
EDR16	Euaple	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Enabled in Display	NO AES	ON ON	ON ON	ON ON	ON ON	ON ON	ON ON	AES NO	kes NO	kes NO	ON -
DR14 EU	Enable	YES	SEY	SEY	XES	XES	XES	YES YES	SEX SEX	XES XES	SEY	-
EDRI	Enabled in	ON	ON	ON		ON	ON		YES	YES	YES	-
	Display	YES	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
EDR12	Enable	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Ш	ni bəldbn∃								YES	YES	YES	
0	Display	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	-
	Enable	YES	YES	YES	YES	YES	YES	-	YES	YES	YES	-
NOILUV	ni bəldon3	Stops cycle execution	Stops cycle execution	Stops cycle execution	No Action	Stops cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution
EIII NAME		FCV Board overheating	FCV under voltage Failure	FCV over voltage Failure	FCV Failure	FCV unknown message Failure	FCV Failure	Compressor Hardware Failure	Heater/Compressor Short Circuit Alarm	Heater/Compressor Alarm	Heater/Compressor Sensing Alarm	VSC Safety Alarm
CODE		E5A	E5B	E5C	E5D	E5E	E5F	E61	E62	E63	E64	E65

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		1. Motor Wiring 2. Motor Windings 3. VSC Board	1. VSC Board - Motor Wiring 2. Motor Connector 3. VSC Board	1. VSC Board - Motor Wiring 2. Motor Connector 3. Motor mechanical blockage 4. VSC Board	1. VSC Board - Motor Wiring 2. Motor Connector 3. Motor mechanical blockage 4. VSC Board	1. Motor mechanical blockage 2. VSC Board	1. Main Board - VSC power supply wiring 2. VSC Board Failure	1. VSC BOARD Failure		1. Main Board - VSC communication wiring 2. Main Board - VSC power supply wiring 3. Main Board or VSC Board Failure	1. VSC BOARD Failure
116	Display	ON	NO KES	ON	ON	YES	ON	ON	ON	ON	ON
EDRI6	Enabled in	yes No	NO	yes No	YES NO	yes No	yes No	kes NO	VES NO	XE2 NO	ле ло
EDR14 EU	Display Enable Enabled in	-	-	- -	- -	-	-	-	-	- -	-
EDR12	Display Enable Enabled in	NO AES	NO AES	NO AE2	NO AE2	YES YES	NO AES	NO AES	NO AES	NO AES	NO AES
EDRIO	Display Enable Frable	-	- -	- - -	- - -	-	-	-	- -	- -	- -
		Stops cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution	No Action	Stops cycle execution	Stops cycle execution
	TOLL NAME	VSC motor plug not connected	VSC Current Trip Failure	VSC over current Failure	VSC - motor not following	VSC Board overheating	VSC under voltage Failure	VSC over voltage Failure	VSC Failure	VSC unknown message Failure	VSC Failure
	CODE	E66	E67	E68	E69	E6A	E6B	E6C	E6D	E6E	E6F

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						ard				
	DESCRIPTION	NLCD reading out of Range 1. Wiring Failure 2. NTC Failure 3. NTC reading circuit Failure (Main Board Failure)	NTC2 reading out of Range 1. Wiring Failure 2. NTC Failure 3. NTC reading circuit Failure (Main Board Failure)	NTC3 reading out of Range 1. Wiring Failure 2. NTC Failure 3. NTC reading circuit Failure (Main Board Failure)	Not implemented	The code read on the selector is not supported by the configuration data (UI Board Failure)	1. Wrong selector configuration (MCF) 2. User Interface Failure	UI board microcontroller defective	1. Wiring Failure 2. User Interface Board Failure 3. Main Board Failure	The User Interface mounted is not compatible with the Main Board connected
	Display				-		- N ON	ЛО		н ОN
EDR16	Enable	YES	YES	YES	-	SEY	YES	YES	YES	YES
	Enabled in	YES	YES	YES	-	YES	YES	YES	YES	YES
4	Display	ON	ON	ON	ON	ON	ON	ON	ON	ON
EDRI	Euaple	YES	YES	YES	YES	YES	YES	YES	YES	YES
	Euaplea in	YES	YES	01		YES	YES	YES	YES	YES
812	Display	ON	ON	ON	-	ON	ON	ON	ON	ON
EDR12	Enabled in Enabled in	YES YES	AES AES	AES AES	_	YES YES	YES YES	AES AES	AES AES	YES YES
	Display	YES	-	-	-	YES	YES	YES	YES	XES XES
	Enable	YES	-	_	_	YES	YES	YES	YES	XES XES
	Euaplea in	XES YES	-	-	_	SEY	XES XES	YES	YES	XES XES
		Stops cycle execution	Stops cycle execution	Stops cycle execution		Stops cycle execution	No Action	No Action	No Action	Stops cycle execution
		Drying NTC Alarm	Heaters NTC Alarm	Condenser NTC Alarm		Selector Position Code Alarm	Selector configuration table error	UI board microcontroller self test failure	User Interface Communication Alarm	User Interface Protocol Incongruence Alarm
		E71	E72	E73	E82	E83	E86	E87	E91	E92

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							БDР	717				
	C E E	EDR10		Ш	EDR12				Ш	EDR16		
FULL NAME	ACIION	Enabled in Enabled in	Display	Evapleq in	Enable	Display	Euaple Euaplea in	Display	ni bəldon3	Enable	Display	DESCRIPTION
MCF Checksum Alarm	No Action	YES YES	YES	YES	YES	NO	YES YES	ON	YES	YES	≥ ON	Wrong Machine Configuration File
CCF Checksum Alarm	No Action	YES YES	YES	YES	YES	NO	YES YES	ON	YES	S ES	≶ ON	Wrong Cycle Configuration File
Missing Program on CTF Alarm	Stops cycle execution	YES YES	YES	YES	YES	YES	YES YES	YES	YES	YES	ю — ХЕЗ	1. Wrong selector configuration (MCF) 2. Missing cycle on cycle table (CCF)
FCV/Power Board protocol incongruence	Stops cycle execution	YES	YES		YES	ON	yes No	ON	ON	YES	NO N	1. FCV Board 2. Main Board Configuration
Coin meter absent (removed) alarm	Don't allow cycle execution	-	-	YES	ХЕХ	ON	_	-	YES	83Y	но NO	1. Wiring Failure 2. Coin meter Board Failure 3. Main Board Failure
User Interface configuration checksum alarm	No Action	YES YES	YES	YES	YES	ON	YES YES	ON	YES	YES	ON	
User Interface touch sensor not working	No Action	YES YES	YES	YES	YES	ИО	λes λes	NO	YES	YES	O K K ON	One or more touch buttons have calibration problems. 1. Electrical noise 2. Humidity/water on UI board 3. UI board defective
Power Supply Frequency out of Range	Pauses Cycle execution	YES YES	YES YES	YES	YES	XES XES	YES YES	YES YES	YES	YES	im in : XES	1. Power Supply Problems 2. Wrong MCF 3. Main Board failure
Power Supply Amplitude out of Range (too HIGH)	No Action	YES YES	YES	YES	YES	YES	YES YES	YES Tes	YES	YES	in in in KES	1. Power Supply Problems - Too HIGH VOLTAGE 2. Wrong MCF 3. Main Board failure
Power Supply Amplitude out of Range (too LOW)	Pauses Cycle execution	YES YES	YES	YES	YES	XES	YES YES	XES LCS	YES	YES	in in in KES	1. Power Supply Problems - TOO LOW VOLTAGE 2. Wrong MCF 3. Main Board failure
	Back to contents	ស្ដ										DRSI1004

	DESCRIPTION		Zero Relay does not open the power supply (Main Board Failure) The machine functionality is not affected by this fault, on the consumption in standby is higher	With Line Safe Relay Open, motor sensing detects voltage coming form any load. 1. Any Load Short Circuit to ground (Motor, Heaters or Wiring) 2. Electrical Noise 3. Line Safe Relay Problem (Main Board Failure)	Line Sage Relay Problem (Main Board Failure)	Line Safe Sensing Circuit Failure (Main Board Failure)				Condenser Heater Sensing Circuit Failure (Main Board Failure)			Condenser Pump Sensing Circuit Failure (Main Board Failure)	DRSI1004
EDR16		Display Enable	NO AES	NO AES	NO AES	NO AES	NO AES	NO AE2	NO AES	YES YES	NO AES	NO AE2	NO AES	
EDR14 FI1	2	Enabled in Erable	λες NO λες λες	AE2 NO AE2 AE2	AE2 NO AE2 AE2	AE2 NO AE2 AE2	ON - - -	λΕ2 - -	λΕ2 - -	λΕ2 - -	λΕ2 - -	λΕ2 - -	λΕ2 - -	
10 EDR12		Display Enable Display	NO AE2 AE2 AE2	NO AE2 AE2 AE2	NO AE2 AE2 AE2	NO AE2 AE2 AE2	NO AE2 NO	AES AES -	NO AE2 AE2 -	AE2 AE2 AE2 -	NO AE2 AE2 -	NO AE2 AE2 -	AC AE2 AE2 -	
EDRIO	Z	Enable Enable	AE2 AE2	YES YES	YES YES	YES YES	-	-	-	-	-	-	-	contents
	ACTION		No Action	Stops cycle execution	Stops cycle execution	Stops cycle execution	No Action	Stops cycle execution	Stops cycle execution	Stops cycle execution	Stops cycle execution	No Action	Stops cycle execution	<u>Back to contents</u>
	FULL NAME		Zero Watt Relay Alarm	Line Safe Short Circuit Alarm	Line Safe Alarm	Line Safe Sensing Alarm	Condenser Heating Timeout	Condenser Heater Short Circuit Alarm	Condenser Heater Alarm	Condenser Heater Sensing Alarm	Condenser Pump Alarm	Condenser Pump Diode Alarm	Condenser Pump Sensing Alarm	
	CODF		EH4 (EB4)	EHD (EBD)	EHE (EBE)	EHF (EBF)	EC3	EC4	EC5	EC6	EC7	EC8	EC9	28/70

	DESCEIDTION				Compressor Cooling Fan Sensing Circuit Failure (Main Board Failure)		Compressor Cooling Fan Sensing Circuit Failure (Main Board Failure)	No Gas in Compressor	Certification protection failure.	1. Wiring Failure 2. Coin meter Board Failure 3. Main Board Failure
	9	Display	YES	-	-	ON	ON	ON	ON	ON
	EDR16	Euaple	YES	-	-	YES	YES	YES	YES	YES
		Enabled in Display	۸ES -	ON	- ON	YES -	YES -	YES	YES NO	YES -
RIA		Enable	-	XES	XES	-	-		XES	-
EDR		Evapleq iv	-	YES	AES .	-	-		SEY	-
		Display	YES	-	-	-	-		ON	ON
	EDR12	Enable	YES	-	-	-	-		YES	YES
	Ш	Enabled in	YES	-	-	-	-		YES	YES
	0	Display	-	-	-	-	-		YES	-
	EDR10	Euaple	-	-	-	-	-		YES	-
		ni bəldon3	-	-	-	-	-		YES	-
	NOILOV		No Action	Stops cycle execution	No Action	Stops cycle execution	No Action	No Action	No Action	No Action
			Possible Empty Steam Tank	HP fan alarm (only for HP version)	HP Fan Sensing Alarm (only for HP version)	HP Fan Alarm	HP Fan Sensing Alarm	HP Circuit Alarm	Safety Reset	Coin meter communication alarm
			ECA	EDI	ED2	ED3	ED4	ED5	EF 6	EF8

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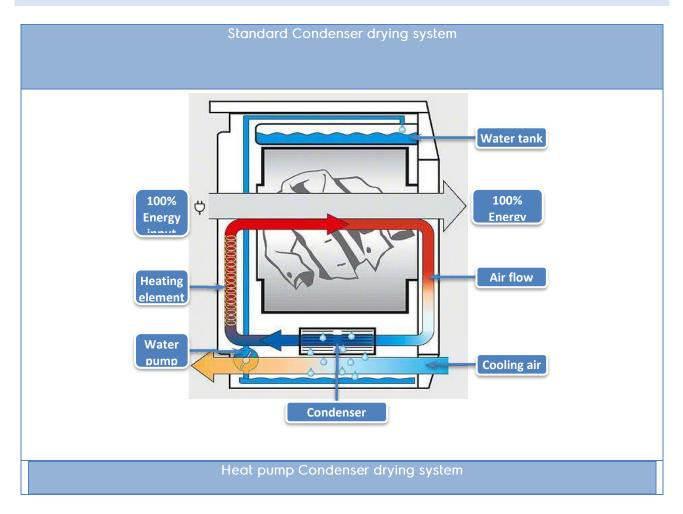
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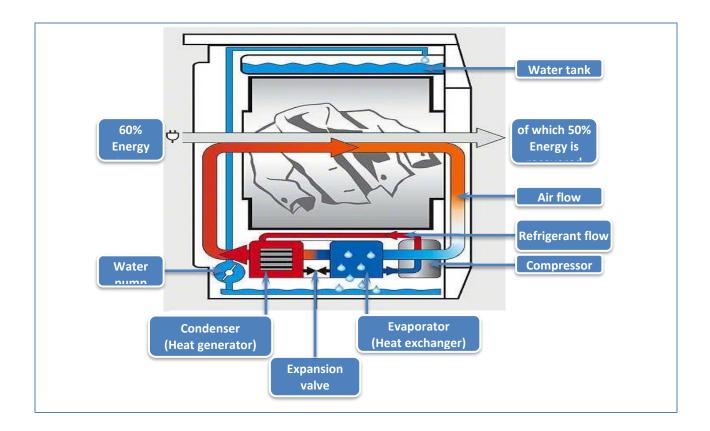
9 DEFINI	TION OF TERMS, ACRONYMS AND ABBREVIATIONS
TD	Tumble Dryer
UI	User Interface
РСВ	Printed Circuit Board
MB	Main board, Motherboard
NTC	Negative Temperature Coefficient
MCF	Machine Configuration File
CCF	Cycle Configuration File
FCV	Filed Controlled Vector, generally used to indicate motor control board
VSC	Variable Speed Compressor
OPTIFLOW	Refers to new Heat pump design
P-ONE	N ew Aesthetics design (All new models are P-ONE which includes Standard or Heat pump OPTIFLOW)
Standard	Refers to models with heating element



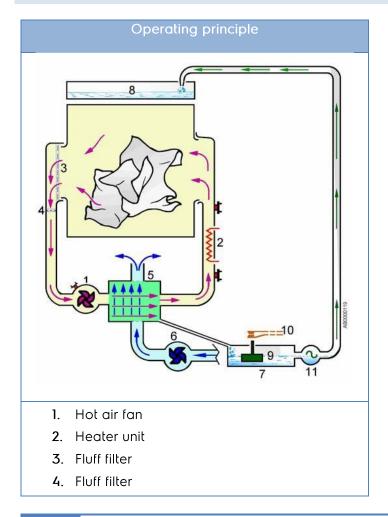
10 OPERATING PRINCIPLE

10.1 OPERATING PRINCIPLE





10.2 CONDENSE DRYERS - DRYING CIRCUIT



- 5. Heat exchanger
- 6. Cold air fan
- 7. Condensation collection tray
- 8. Condensation collection tank
- 9. Float device
- 10. Micro switch
- 11. Condensation water suction pump

There are two air groups inside the appliance:

- One hot one closed in on itself inside the appliance;
- One open cold one, for the circulation of ambient air through the condenser.

The first air group, which is hot and closed in on itself, circulates inside the appliance:

The fan (1) pushes air inside the heat exchanger (5), and from this via the heater unit (2), the air heats up and via a conveyor enters inside the drum passing through the holes in the back panel. The warm dry air moves through the laundry moving in the drum removing the dampness and transforming it into warm damp air; this exits from the front part of the drum through the fluff filter (3) and the lower filter (4), and is then channelled through the conduit to the fan (1); from here it is pushed inside the heat exchanger (5) where dampness is condensed. When this comes out, we have dry air and the cycle continues as described above.

The second air group, the one circulating ambient air through the condenser:

The fan (6) takes in ambient air through an air inlet in the back panel, pushing it into the heat exchanger (5), and cooling it. The air comes out on the opposite side of the exchanger, dispersing inside the appliance and coming out of the slots in the kick plate.

The two air groups, the damp hot one and the cold one cross over in the heat exchanger (5), producing heat exchange and, therefore, condensation of the humidity.

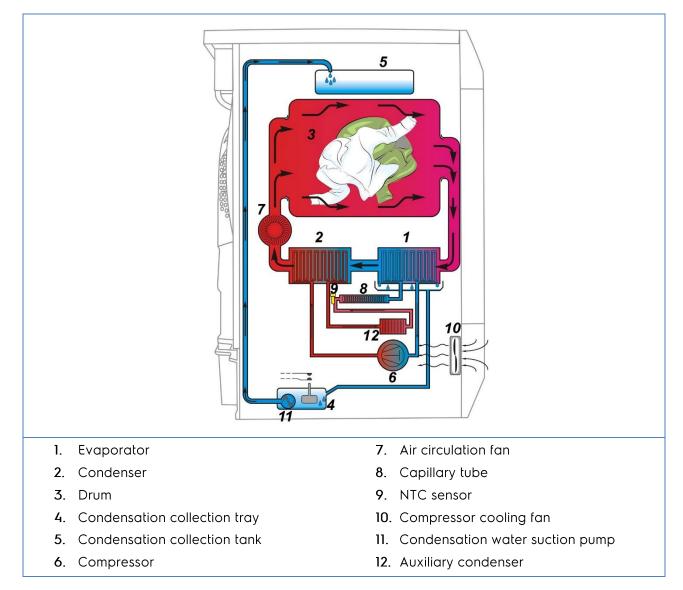
The condensation water that forms inside the exchanger is collected in a trap (7) where there is a float (9) that informs the circuit board that water is present, so the circuit board powers a pump (11) which conducts the water from the trap (7) to the tank (8).

The tank was designed to collect the condensation water of a complete cycle with a full load, so approximately 5.5 litres.

If for any reason the tank is filled beyond its capacity, any overflowing water is collected by the tank support and channelled along a pipe (not shown in the diagram) back inside the trap (7), moving the float (9) up, and thus activating the micro switch (10). The electronic control unit makes 7 attempts to empty the trap in specific amount of time, after which the electronic control unit recognizes the problem and cuts off the electricity supply to the appliance and lights a LED to inform the user that the tank is full.

10.3 HEAT PUMP DRYERS - DRYING CIRCUIT

Operating principle with <u>auxiliary condenser</u>



The cycle of the tumble dryer heat pump consists in evaporating, compressing, condensing and expanding the refrigerant.

By pressing the START/PAUSE button the drying cycle begins, the gas in the circuit is conveyed by the compressor (6) to the condenser (2), where at the outlet the circulation pipe known as capillary (8) narrows. This capillary slows down the release of gas and ensures that the pressure inside the condenser (2) increases bringing the gas to a liquid status and a pressure level of around 27 bar.

This rise in pressure subsequently increases the temperature of the gas that is now liquid inside the condenser (2) reaching around 53°C.

The air circulated by the fan (7) passes through this condenser (2) overheating before entering the drum (3) where the washing is located.

The evaporator (1) is located at the capillary outlet (8) with the gas circulation pipe being larger than the capillary which thus expands the hot, liquid gas coming from the condenser (2).

This gas expansion means that the gas in its liquid state once again becomes a gaseous state causing the gas itself to cool and subsequently cooling the entire evaporator, bringing it to a temperature of around 20°C.

The, by now hot air is circulated by the fan (6) and passes through the washing in the drum (3) absorbing humidity and reaches the evaporator (1) humid and hot. The latter which is now at a lower temperature thanks to the expansion of the gas ensures that all the humidity in the circulating air condenses.

The condensed water created is collected in a tray (4) and conveyed via a pump to the tank (5) located above the drum.

At this point, the air is now cold and dry and goes through the condenser (2) again, once again overheating before entering the drum (3) and the gas now cooled in the evaporator (1) returns to the compressor where it will once again be compressed and sent into the condenser (2) re-starting the cycle.

The entire gas evaporating and compressing system is kept in balance by a NTC (9) located at the entrance to the capillary (8). This collaboration with the main circuit board ensures that if the outgoing temperature from the condenser surpasses a certain level a fan (10) located in front of the compressor starts working and lowers the temperature.

In the models with auxiliary condenser, the operating principle remains the same and the only single variant is in the auxiliary condenser positioned in series to the main condenser. This ensures that the whole system is better balanced, thus increasing performance.



10.4 WATER CIRCUIT - CONDENSE / HEAT PUMP



condensation water that forms inside the exchanger is collected in a trap.

There is a float (5) inside this trap that informs the circuit board that there is water. This powers a pump (1) which conveys the water through the red pipe (2) from the trap to the tank inserted in the tank support (4).

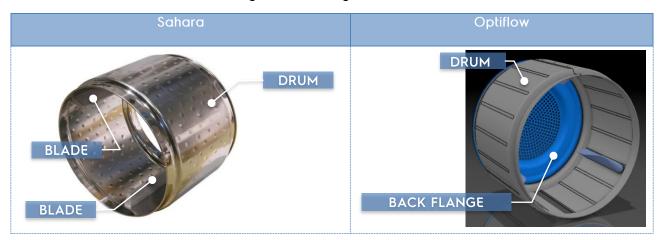
The tank was designed to receive the condensation water of a complete cycle at full load, approximately 5.5 litres.

If, for whatever reason, the tank fills up beyond its capacity, the overflowing water is collected by the support tank and via the transparent pipe (3), is re-conveyed inside the trap pushing the float (5) upwards and this activates the micro-switch. The electronic makes 7 attempts to empty the trap within a set time, after which the electronic control recognises the problem and disconnects the power supply to the appliance and lights up a LED informing the user that the tank is full.

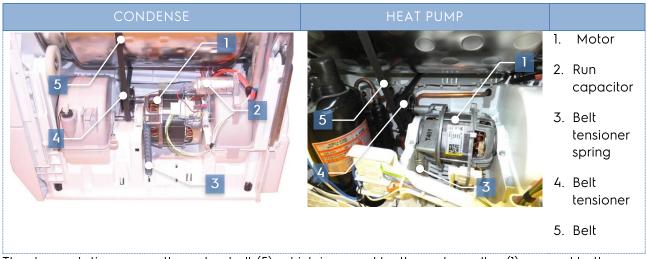
11 FUNCTIONAL PARTS

11.1 DRUM

The drum is made up of steel or zinc casing where inside there are three blades positioned at 120° one from the other which move the washing around during drum rotation.



11.2 DRUM ROTATION PRINCIPLE

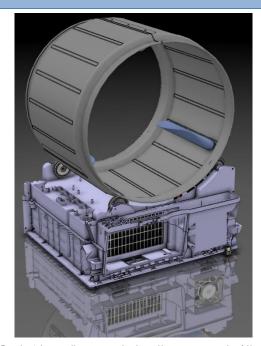


The drum rotation occurs through a belt (5), which is moved by the motor pulley (1) secured to the base. There is a belt tensioner (4) on the motor casing, which increases the angle at which the belt winds onto the drum and works together with the belt tensioner spring (3).

Two-way rotation of the drum is determined by the circuit board, which reverses the direction of power supplied to the motor briefly. The drum rotating in the opposite direction allows the laundry to untangle. During these times, the heater unit is cut out.

11.3 AIR SEAL AND DRUM ROLLERS

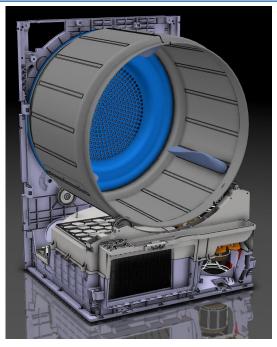
Sahara(standard



Back side – rollers mounted on the upper part of the basement

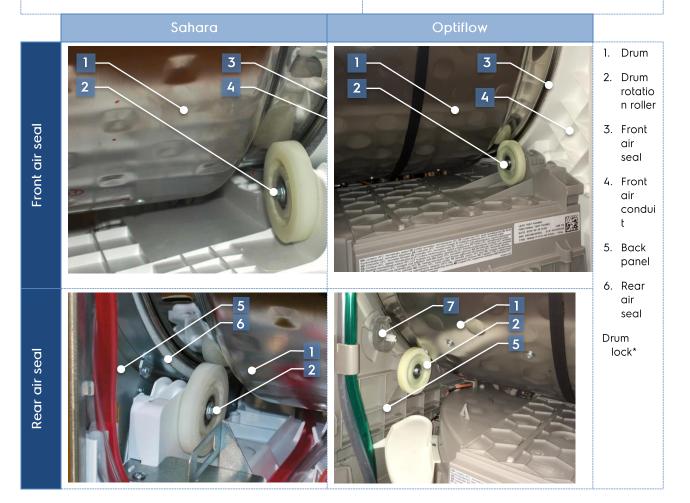
Front side - rollers mounted on the upper part of the basement

Optiflow(Heat pump)



Back side - rollers attached to the back panel

Front side – rollers mounted on the upper part of the basement



12 ELECTRICAL EQUIPMENT

12.1 CONDUCTIVITY SENSOR



These electronics use a conductivity sensor, comprising an electronic circuit (located inside the main circuit board) and a part outside the board comprising two sensors positioned on the front air conduit.

When the drum is empty, there is an infinite impedance between the two sensors, while its value is affected by the washing load, by the type of fabric and by the degree of humidity in the washing placed inside the drum.

The main circuit board continuously receives information about the condition of the laundry inside the drum via the conductivity sensor, receives the settings made by the operator at the start of the cycle via the control board and processes these values in order to determine the amount of time left until the end of the cycle.

12.2 TANK FILLING PUMP

	Label colour	Red	White	
	Insulation class	130	130	155
	Motor type	Asynchronous	Asynchronous	Asynchronous
	Volt (V AC)	220-240	220	220-240
	Frequency (Hz)	50	60	50
	Power (W)	5	10	5
	Resistor at 20°C (Ω)	778 ± 8 %	479 ± 8 %	764 Ω ± 10%

The pump is activated by a synchronous motor and is used to pump condensation water from the tray to the tank.

The pump is powered by a TRIAC on the main board.

12.3 LEVEL SENSOR



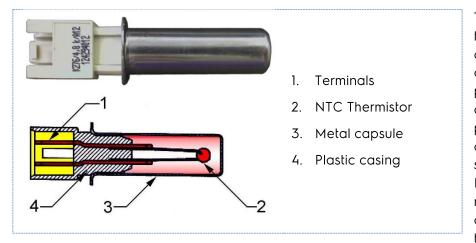
The condensation water level sensor is fitted on the rear of the tumble dryer and beside the tank filling pump.

It consists of a float with a magnet at the top and a reed switch positioned on the float guide/support.

When the water forming on the heat exchanger (condenser) falls into the collection tray this causes the

float to rise up subsequently bringing the magnet closer to the reed switch which sends a signal to the main circuit board activating the tank loading pump.

12.4 NTC PROBES



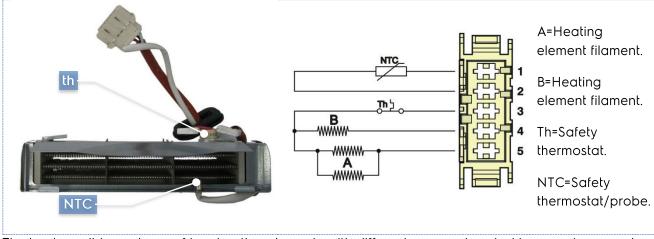
This sensor is fixed to: the front fan cover (hot air circulation, condense dryers only) or capillary tube (heat pump dryers only) and additionally to kick plate panel (heat exchanger compartment,.Optiflow structure only). It comprises a NTC Thermistor, inserted in a metal capsule. The resistance of NTC will decrease as the temperature increases. The

electronic circuit reads the value of the NTC Thermistor (which depends on the temperature inside the tumble dryer) and when it drops below a certain value, cuts the power supply to the heater unit. As the air cools, the value of the resistance of NTC increases, and when it reaches a certain value the electronic circuit restores the power supply to the heater unit. This occurs every time the temperature inside the appliance exceeds a given value, which varies according to the drying cycle that has been selected.

Temperature (°C)		NTC Thermistor Ω	
	Rated value	Maximum Value	Minimum value
20	6050 - 5617	6335 - 5686	5765 - 5548
60	1393 - 1250	1419 - 1222	1367 - 1278
80	725 - 640	743 - 620	707 - 660



12.5 HEATER UNIT



The heater unit is made up of two heating elements with different powers, inserted in ceramic supports and the whole is surrounded by a sheet metal casing.

A normally closed safety thermostat and an NTC are fixed to one side of the container:

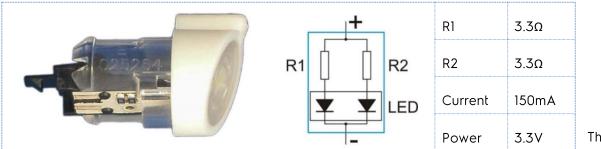
The NTC informs the main circuit board if there is an excessive rise in temperature due to various reasons, and the board intervenes by cutting off the power to the heating element and starting a cooling cycle so as not to damage the laundry inside the drum.

The thermostat (th) triggers at 140 $^{\circ}$ C ± 5 and, after opening the contact, it remains in this state and cuts the power supply permanently.

WARNING Faulty thermostat If the thermostat is f	aulty, the entire heater unit must be replaced!
NTC probe	Heating element

	be	nedung element						
Temperature (°C)	Ω	Rated power (W) Resistance 20		Rated power (W)		O °C (Ω)		
25	4997	Voltage (V)	Branch	A (3-5)	Branch B (3-4)	Branch	A (3-5)	Branch B (3-4)
100	476	230	950	950	700	49.23	49.23	66.81
200	59.21		190	00		24	.61	
		230	700	700	700	66.81	66.81	66.81
			141	00		33	.40	
		240	950	950	700	53.60	53.60	72.75
			191	00		82	2.6	

12.6 DRUM LIGHT



The drum light

consists of a high luminosity LED diode inserted in a plastic support and fitted onto the front air conduit. The lamp is powered directly by the main circuit board when the door is opened with a voltage of 5V.

12.7 COMPRESSOR COOLING FAN

	Axial fan on ball bearings		
	Power supply voltage	132-240V 50-60Hz	
	Power consumed	23W	
	Rotating speed rpm	2600/3000	
		2.32m³	
	Air flow at 3000 rpm	2.72m³	

12.8 DOOR MICRO-SWITCH



The door switch makes it possible for the electric comP-ONEnts to be powered after the door has been closed.

The switch is located above the door and it is closed, when the door itself is closed, by means of a pin located on the door itself.

The LED lights and level sensor is positioned on the left side of the tank containing the water necessary to generate steam.

It consists of 5 LED diodes (1) which only light up if you select a cycle that uses steam and a magnetic switch (2) that is triggered by a float with a built-in magnet found inside the tank.



12.9 COMPRESSOR

		E The compressor activates the coolant fluid circuit.
	A Line	Power supply
	B Heat protection	voltage
	C Run capacitor	220V 50Hz
	D Auxiliary coil	
	E Primary coil	Power consumed
		480
Watt.		
Main coil resistance	6.84Ω ± 7%	
Auxiliary coil resistance	5.88Ω ± 5%	
Overall weight	8.5kg	
Oil 210cm ³ +-10cm ³ NMOC Ze - Gle	es RB68EP	

12.10 OVER LOAD PROTECTOR



The heat protection is formed by a bimetallic which intervenes when the motor - due to excess effort increases current absorption and consequently rises in temperature.

12.11 START-UP CAPACITOR



The start-up capacitor enhances the performance of the compressor motor.

18µF 400V

425V~ 10 000h cl.B

475V~ 3000h cl.C

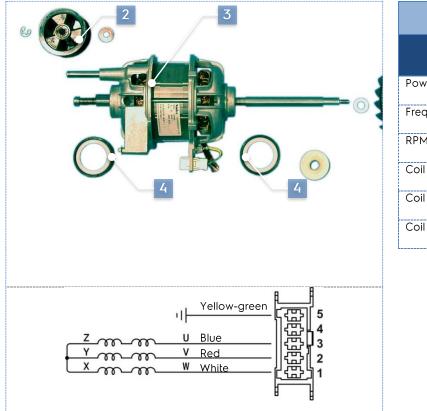


12.12 MOTOR - HEAT PUMP DRYERS



The asynchronous three-phase motor used in this tumble dryer has permanent magnets and is driven directly by the main board.

The motor unit consists of a belt tensioner (2) situated on an axis on the motor casing and secured by a spring ring, with one fan (1) for the circulation of hot air, bolted to the motor shaft, of the motor (3) with thermal cut-out and two vibration damping bushes (4) positioned on the two motor casings. The motor power connector is located on a shaft fixed to a casing.



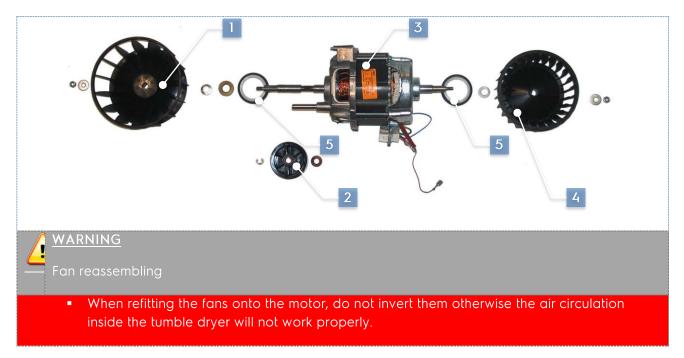
Technical detail			
	Three-phase or Inverter		
Power supply voltage	230 V		
Frequency	50 Hz		
RPM	2700		
Coil resistance 1 – 2	20.4 Ω ± 7 % at 20 °C		
Coil resistance 1 – 3	20.4 Ω ± 7 % at 20 °C		
Coil resistance 2 - 3	20.4 Ω ± 7 % at 20 °C		



Both the asynchronous single-phase motor and the asynchronous three-phase or inverter motor look the same. The only difference lies in the connections and operation.

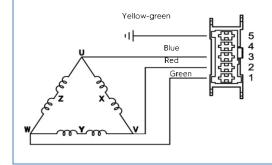
While the former is controlled directly by the main board, the latter needs a specific board (Inverter motor control board), which in turn receives commands from the main circuit board.

In both cases, the motor unit consists of a belt tensioner (2) situated on an axis on the motor casing and secured by a spring ring, of two fans (1 and 4) respectively for the circulation of cold air and hot air, which are bolted to the motor shaft, of the motor (3) with thermal cut-out, of two vibration damping bushes (5) positioned on the two motor casings and a variety of spacers (washers). The motor power supply connector is situated on a bracket which is screwed onto the lamellar bundle.



Asynchronous single-phase motor		Technical detail	
Ū ∓Yellow-green		Single-phase	Three-phase or Inverter
	Power supply voltage	220 V	230 V
	Frequency	50 Hz	60 Hz
Blue Blue	Power	167 W	-
White	RPM	2660	3600
	Coil resistance 1 - 3	18.1 Ω ± 7 % at 20	26.7 Ω ± 7 % at
Red -		°C	20 °C
	Coil resistance 1 - 2	18.1Ω ±7% at	26.7 Ω ± 7 % at
<u>ش</u> ش		20 °C	20 °C
	Coil resistance 2 - 3	-	26.7 Ω ± 7 % at
			20 °C
	Thermal cut-out activation	150 °C ± 5 °C	-
Asynchropous three phase or inverter	motor		

Asynchronous three-phase or Inverter motor



13 DISASSEMBLY

Note: Some components in the photo instructions below may look different than the model you are repairing. Assembly/disassembly methods remain the same regardless of machine aesthetics.

13.1 WORKTOP







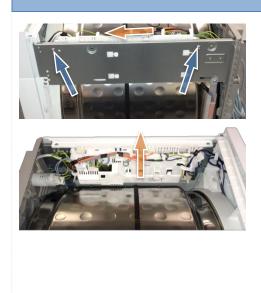
Remove the tank. Loosen the front fixing screw.

Loosen the 2 rear fixing screws. Move the worktop towards the rear and remove it.

13.2 SIDES



14 MAIN CIRCUIT BOARD



Remove the worktop. Remove the right side panel.

Release the fixing clips from the board guard and remove it by pulling it up.

Disconnect all connectors, making a note of their positions.

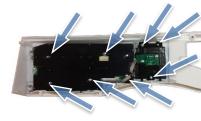
Remove the two fastening screws from the crossbar.

Move the entire board assembly to the left so as to remove it.

14.1 CONTROL PANEL

Remove the worktop. Remove the tank. Loosen the three screws securing the control panel to the uprights and air conduit.	Loosen the 2 screws that secure the control panel to the tank support.	Turn it forward. Remove the wiring, making a note of the position of the various connectors. Remove the entire control panel.

14.2 CONTROL BOARD



Remove the six screws, which secure the display board cover and three screws from selector board.



Unclip and take out the selector's box.

Carefully take the cover out and pay attention to the gasket that sits on it.

When reassembing start with the gasket around "MACS In". Using a thin screwdriver put it in the right position, paying attention not to break it, and simultaneously place the cover on the UI board





Release the hooks securing the display board to the control panel.

14.3 DOOR



Remove the tumble dryer door as follows:

Unscrew the 2 screws that hold the door to the front.

Lift up slightly so that the hook unhooks and remove it.



The glass door weighs approximately 4.5 kg

14.4 DOOR MICRO-SWITCH LEVER (TAPPET)

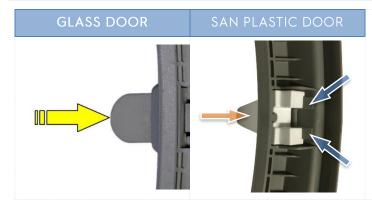


Insert the door micro-switch lever so that the reference pocket is positioned towards the inside the inner frame and it coincides with the notch in the outer frame.

14.5 TRANSPARENT DOOR HANDLE, LATCH AND HINGE



14.6 GLASS / PLASTIC DOOR MICRO-SWITCH LEVER



To remove the door micro-switch lever, press the fastening clip (glass door) or the two fastening clips.

Push the lever in the direction shown by the arrow until you have removed it completely. Insert the lever as far as it can go to reassemble it so that the fastening clips block it

14.7 LEVEL SENSOR AND CONDENSATION WATER PUMP

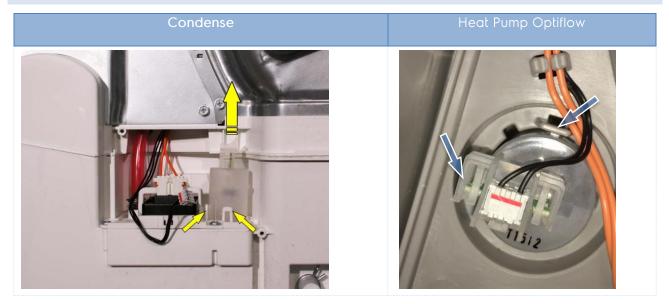


Remove the condensation water filling pump and level sensor cover.

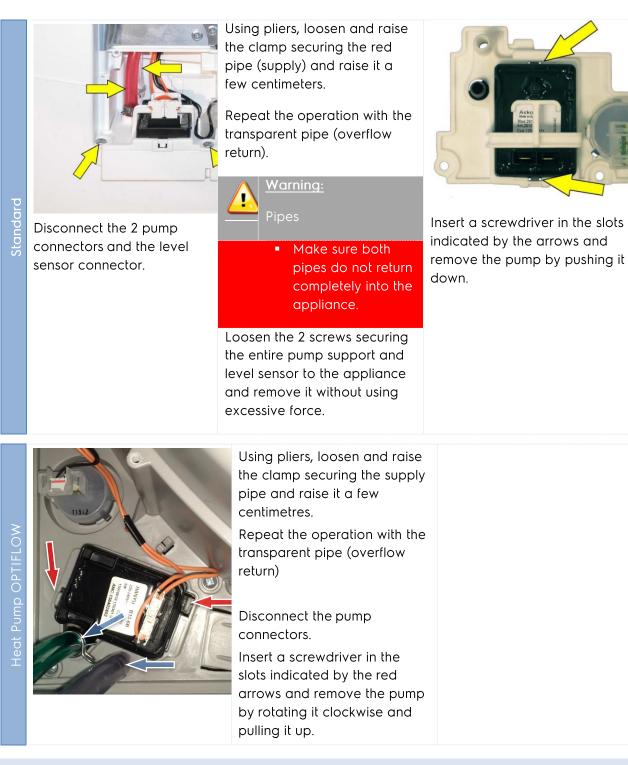


Remove worktop. Remove the left side panel (water tank). Loosen the screw and remove the protection plate.

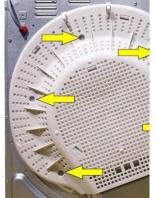
14.8 LEVEL SENSOR



14.9 CONDENSATION WATER PUMP



14.10 HEATING ELEMENT - Standard



Remove the plastic back panel guard by loosening the 5 screws indicated by the arrows.



Remove the 9 screws securing the heater unit guard.



Remove the worktop.

Remove the left side panel. Disconnect the 2 heater unit connectors.

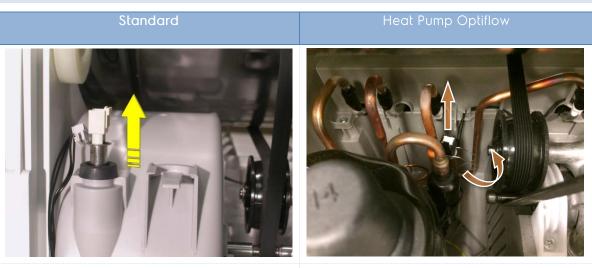
Press the 2 fixing clips and remove the connector from its seat.



Remove the rubber cable cleat. Loosen the 2 heater unit

fixing screws. Turn the entire heater unit slightly and remove it.

14.11 TEMPERATURE PROBE



Remove the worktop. Remove the right side panel. Disconnect the connector. Pull the probe up to remove it from its seat.



14.12 NTC PROBE, KICK PLATE PANEL - OPTIFLOW Heat Pump



14.13 COMPRESSOR PROTECTOR - Heat Pump Dryers



To reach the thermal motor protection, loosen the screw indicated by the arrow which secures the protective cap.

The thermal motor protection is located inside it (indicated by the arrow), kept in contact with the motor by a spring and the motor contacts.





. . . .

Before disconnecting the electrical wires, make a note of their position.



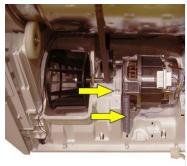


DRSI1004

14.14 MOTOR - Standard

Asynchronous single-phase motor

Three-phase asynchronous motor



Remove the 2 front and rear screws.

Disconnect the motor connector.

Using pliers, release the spring keeping the belt tensioner in tension.

Loosen the screws that secure the front and rear motor fixing brackets.

Raise them, turn them and remove them by pulling them off the rear hook.

Turn the entire motor and fan unit slightly towards the inside of the tumble dryer.

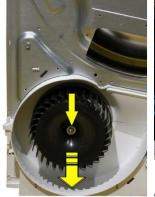
Raise it and remove it, feeding the rear fan through the belt.

14.15 MOTOR - Heat Pump Dryer

Remove the right side panel.

Loosen the 10 screws that hold the rear air conduit.

If necessary, use a screwdriver to unhook the clips that hold it and remove it.



Loosen the bolt that holds the hot air circulation fan.

Remove it by pulling it outwards.



Disconnect the motor connector.

Using a pair of pliers, detach the spring that keeps the tensioner spring under tension.

Remove the belt from the tensioner belt and motor axis. Loosen the screws that hold the front and rear motor fastening rods, lift them up by rotating them and remove them by pulling them off the rear hook.



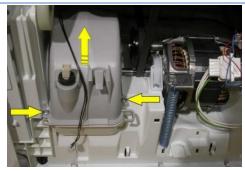
Slightly rotate the whole motor unit. Lift it up and remove.

14.16 FAN COVER Standard

FRONT (hot air circulation)

BACK (cold air circulation)





Disconnect the temperature probe. Loosen the 2 screws .Raise and pull out the screw.

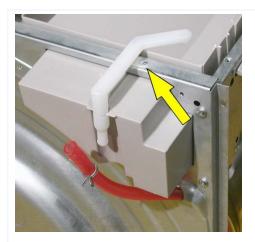


Disconnect the condenser. Loosen the screw fixing screw. Raise and pull out the screw.

14.17 STARTUP CAPACITOR



14.18 REAR PANEL - Standard



Remove the worktop.

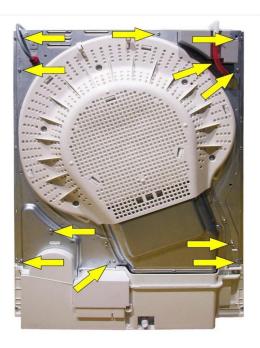
Remove the sides.

Disconnect the heating element and remove the connector from its seat (you do not need to remove the cable cleat).

Using pliers, open the clamp and disconnect the red pipe from the fitting.

Pull out the red pipe so it is free from the back panel.

Loosen the screws securing the tank fitting and remove it.

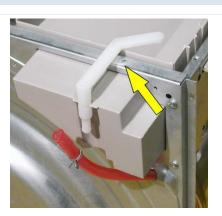


Disconnect the power supply cable from the main board. Loosen the 5 screws securing the back panel to the appliance base.

Loosen the 4 screws securing the back panel to the side crossbars and the screw securing it to the central crossbar. Release the clip on the tank support.

Tilt and remove the back panel.

14.19 REAR PANEL -Standard



Remove the worktop.

Remove the sides.

Using pliers, open the clamp and disconnect the red pipe from the fitting.



Disconnect the power supply cable from the main board.

Disconnect all the mass connections on the back panel

Pull out the red pipe so it is free from the back panel.Loosen the screws securing the tank fitting and remove it.



Remove the rear air conduit.

Loosen the screws securing the back panel to the appliance base.

14.20 REAR PANEL -OPTIFLOW

Remove the worktop.

Remove the sides.



<u>Warning:</u>

Lock the drum by turning 2 white screws located on the backpanel.
Put a Styrofoam underneath the drum in order to protect it from falling off the rolls.







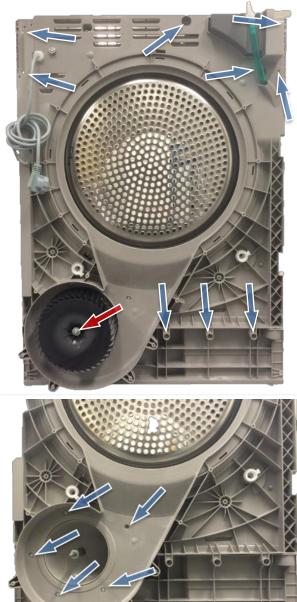
Using pliers, open the clamp and disconnect the pipe from the fitting.

Pull out the pipe so it is free from the back panel. Loosen the screws securing the tank fitting and remove it. Disconnect the power supply cable from the main board.



Loosen the screws that hold the rear air conduit.

Remove the rear air conduit.



Loosen the 4 screws securing the rear panel to the side crossbars and the screw securing it to the central crossbar.

Release the clip on the tank support.

Loosen the bolt that holds the hot air circulation fan.

Remove it by pulling it outwards.

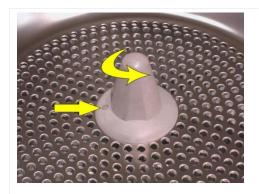
Loosen the screws securing the rear panel to the basement.

Tilt and remove the back panel.

Loosen the screws securing the rear panel to the basement.

Tilt and remove the back panel.

14.21 ANTI-ENTANGLEMENT CONE - Standard models only



The anti-entanglement cone ensures that during the drying stage the washing does not get tangled up in itself.

Press the blocking pin to remove and rotate the cone anti-clockwise



Loosen the three fastening screws to also remove the base.

Insert the cone in its slot to re-assemble it and rotate it clockwise until you hear a click that indicates the correct insertion of the blocking pin.

14.22FRONT PANEL



Remove the worktop Remove the control panel (you do not need to disconnect it electrically).

Loosen the 2 screws securing the appliance door to the air conduit

If present, remove the aesthetic cover above the door block (not shown in the figure) using a screwdriver.

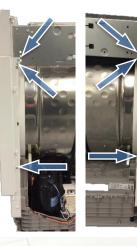
Loosen the 3 screws securing the front panel to the air conduit.

Right Left

Loosen the screws on either side securing the front panel to the air conduit.

Tilt the front panel slightly forward and lift it.

OPTIFLOW Heat Pump





Lossen fan cover screw and lift up slightly then slide to the left to remove cover

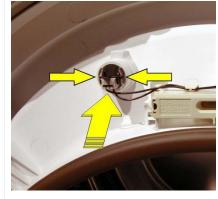
14.23 DOOR MICRO-SWITCH AND DRUM LIGHT

DOOR MICRO-SWITCH



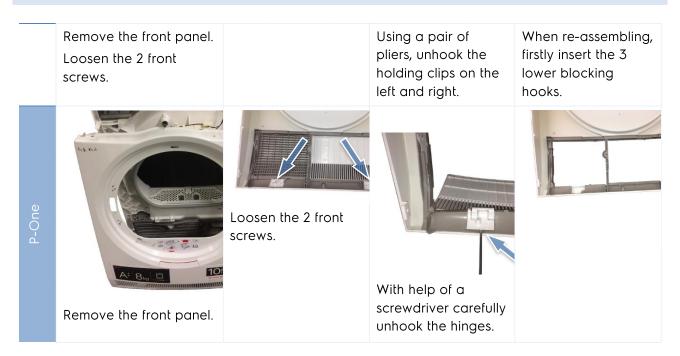
Remove the front panel. Disconnect the connector. Pull out the entire assembly.

DRUM LIGHT



Remove the front panel. Disconnect the connector. Press the two clips securing the drum light slightly and concurrently push it in until it is fully removed.

14.24 PLINTH



14.25 FRONT AIR CONDUIT

Standard

OPTIFLOW - Heat Pump





Remove the front panel. Loosen the 13 screws securing the front air conduit to the crossbars, to the tank support and to the appliance base. Raise the two crossbars slightly so as to remove them. Tilt the entire air conduit forward and lift it off.

14.26 FRONT AIR SEAL



Once the front air conduit has been removed, the air seal can be removed.

Raise the air seal to remove it completely.

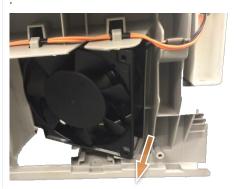
When repositioning the front air seal, make sure the joint is positioned as shown in the figure.

14.27 COMPRESSOR COOLING FAN



Remove the support.

Disconnect and pull out the cabling



Loosen the 2 screws that hold the fan in the lower part.

Lift up the 2 upper holding hooks and simultaneously remove the fan.

Press down on the fan latch and simultaneously remove the fan.

14.28 HEAT EXCHANGER COMPARTMENT DOOR

Standard	OPTIFLOW Heat Pump	Open the outer door of the kick plate.
		Open the heat exchanger compartment door completely. Turn it slightly so that the hinge pins are fully released from their seats. To reposition the door, position the pins on the hinges. Press down fully so that the hinge pins click back into their seats.

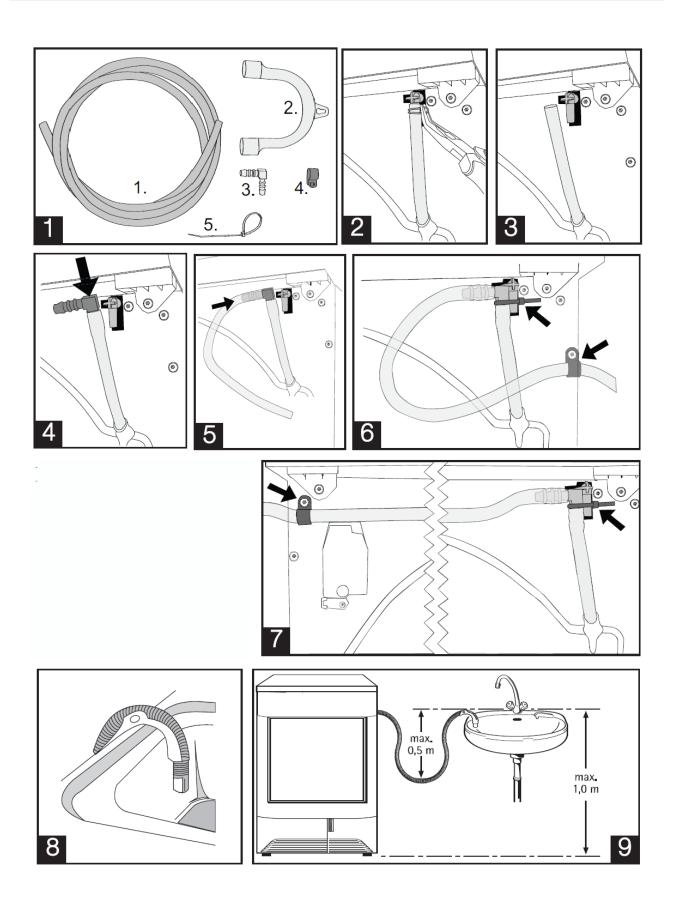
14.29 HEAT EXCHANGER COMPARTMENT DOOR SEAL

Condense	Heat Pump	
CONDENSE	neutromp	



Open the outer door of the kick plate.

Open the heat exchanger compartment door completely. You do not need to remove it. Raise the seal and remove it



Important!

The operation described below must be carried out before completing the stages of the entire installation of the tumble dryer.



Open the door of your tumble dryer, and extract from the drum the bag that contains the following items of the discharging kit:

- a nylon band;(5)
- a 90° fitting for connecting the draining hose;(3)
- a plastic curved part to be used for discharging into a sink;(2)
- a plastic anchoring support for fastening the draining hose to the back of the machine;(4)
- 2,5 metres of semi-transparent hose;(1)
- Position the tumble dryer so its back is towards you.
 - At the top right you can see a red hose which comes out of the back and is fastened to a plastic fitting.

Using a pair of pliers, loosen the metal band and push it down, in order to be able to extract the red hose from the plastic fitting.



Take the 90° fitting that has been supplied and insert it into the red hose. Insert the plastic anchoring support that fastens the draining hose to the back, then

connect the other end of the draining hose to the 90° fitting.

Using the nylon band, fasten the red hose to the fixed fitting on the back.



support, and tighten the screw, positioning the draining hose as shown in the figure.



If necessary, shorten the draining hose. If you wish to discharge the condensation water into a sink, you will have to apply the plastic curved part to the draining hose, in order to be able to hang it on the edge of the sink.



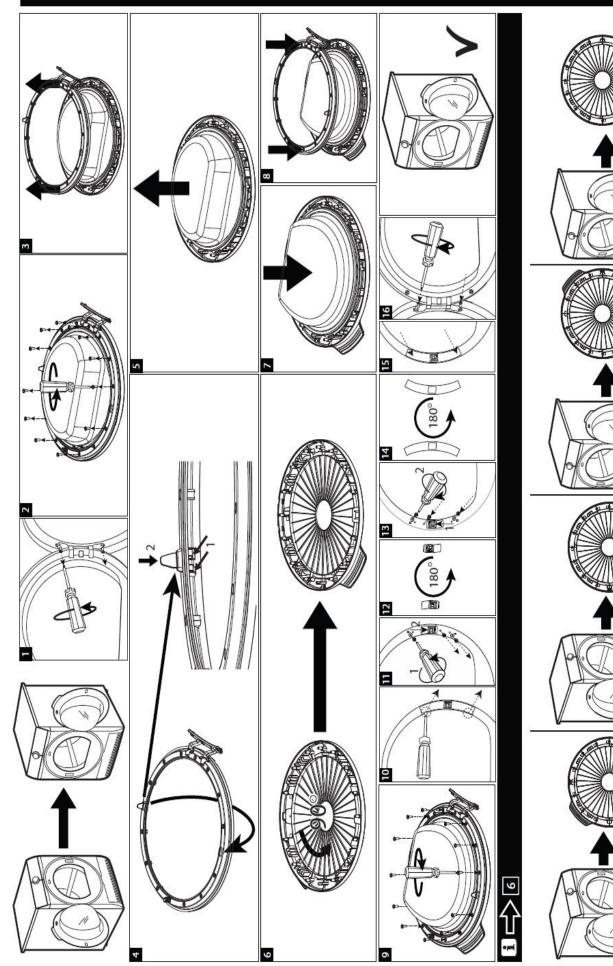
Important!

Do not hang the curved part at a height exceeding 1 metre, and suitably shorten the draining hose so as not to create a bend higher than 0.5 metres, as shown in the figure.

14.31 DOOR OPENING

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