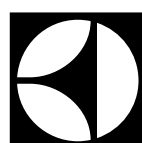


Service Manual Drying Cabinet

DC6-14HP



Electrolux
PROFESSIONAL

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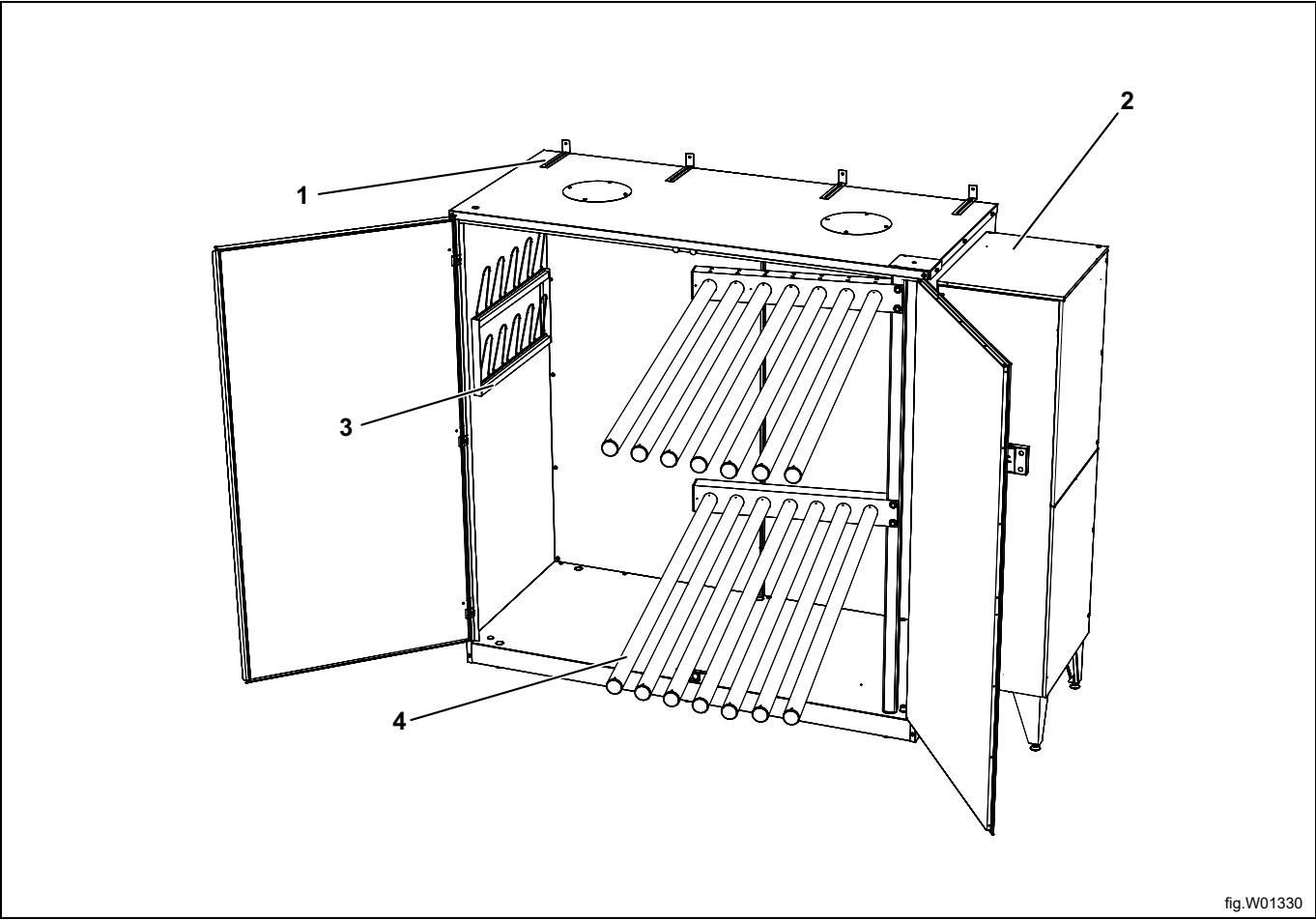
The manufacturer reserves the right to make changes to design and component specifications.

1 Symbols

	Caution
	Caution, hot surface
	Read the instructions before using the machine.
	Be careful. The drying cabinet is top heavy and can tip over easily.

2 Appliance layout

The figure shows the cabinet with the fan unit located on the right side. The cabinet is delivered in a right version or left version and cannot be converted afterwards.



1	Wall bracket
2	Dehumidifier unit
3	Glove hangers
4	Expandable hanger. The lower hanger section contains curtain coils that can be used to fasten items

3 Identification plate

The identification plate is located on the outside of the dehumidifier unit.



fig.W01551

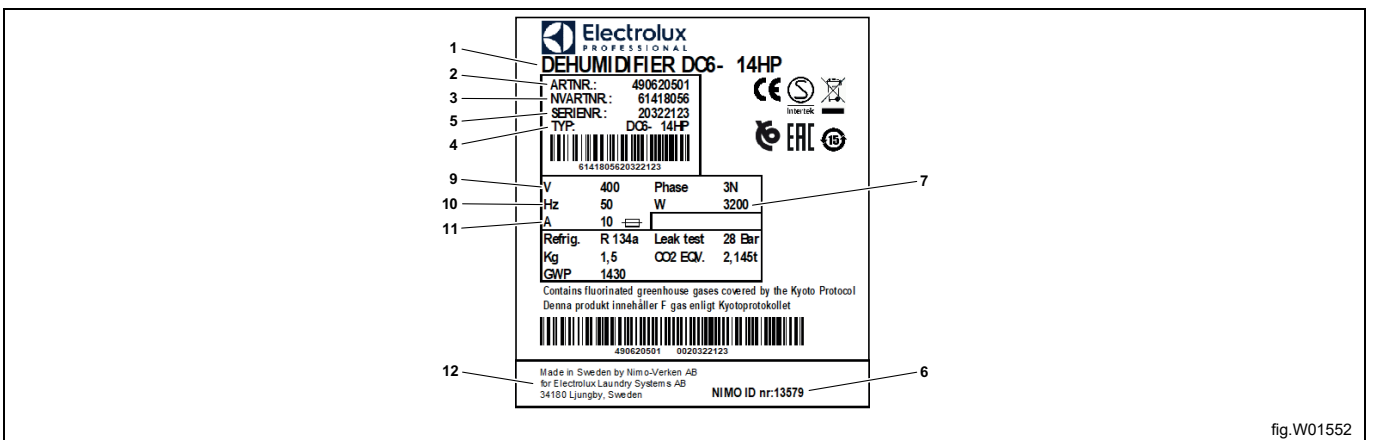


fig.W01552

1	Model number
2	Article number
3	NIMO article number
4	Type/model
5	Serial number
6	NIMO ID number
7	Power
8	IP rating
9	Supply voltage
10	Power supply frequency
11	Fuse
12	Address Electrolux Professional

4 Technical data

4.1 Dimensions drawing

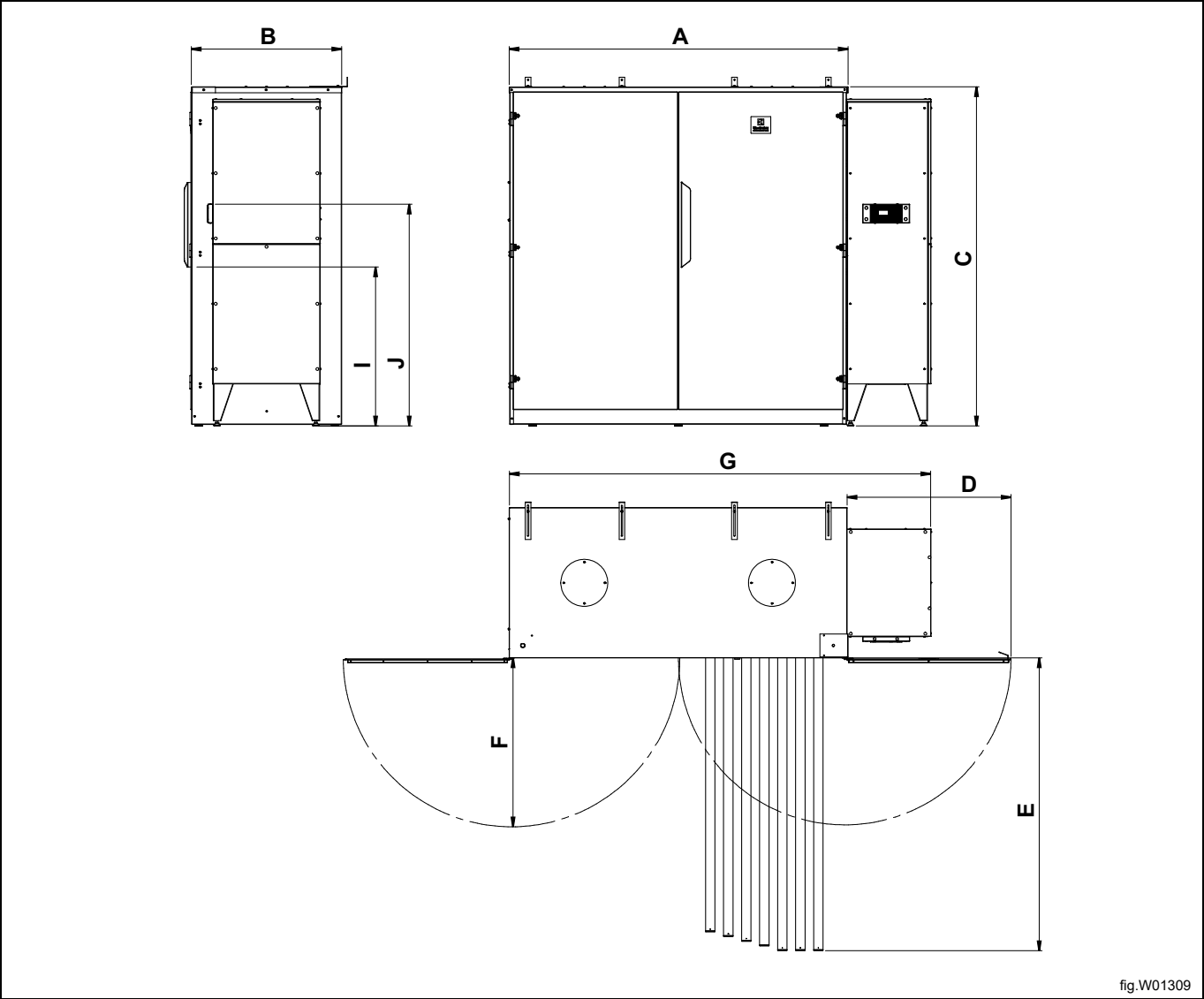


fig.W01309

	A	B	C	D	E	F	G	I	J
mm	1805	800	1805	875	1560	900	2245	850	1150

4.2 Technical data

Capacity	kg of laundry	10
Drainage capacity	g/min *)	80
Electrical connection		400V 3N AC 50Hz
Traditional threaded fuse	A	10 slow-blow
Automatic fuse	A	10
Total power	kW	3.2
Overheat protection		Yes
Fan capacity (Free-blowing)	m³/h	1490
Hanging length	meters	22
Net weight	kg	290
Sound pressure level	A-weighted emission sound pressure level dB(A)	< 68

*) 10 kg dry weight cotton, 55% residual moisture

Connections

Connection, condensation	Pipe dim ø 32
--------------------------	---------------

Heat pump

Type of refrigerant		R134a
Amount of refrigerant	kg	1.5

Fluorinated greenhouse gases

This product contains fluorinated greenhouse gases.

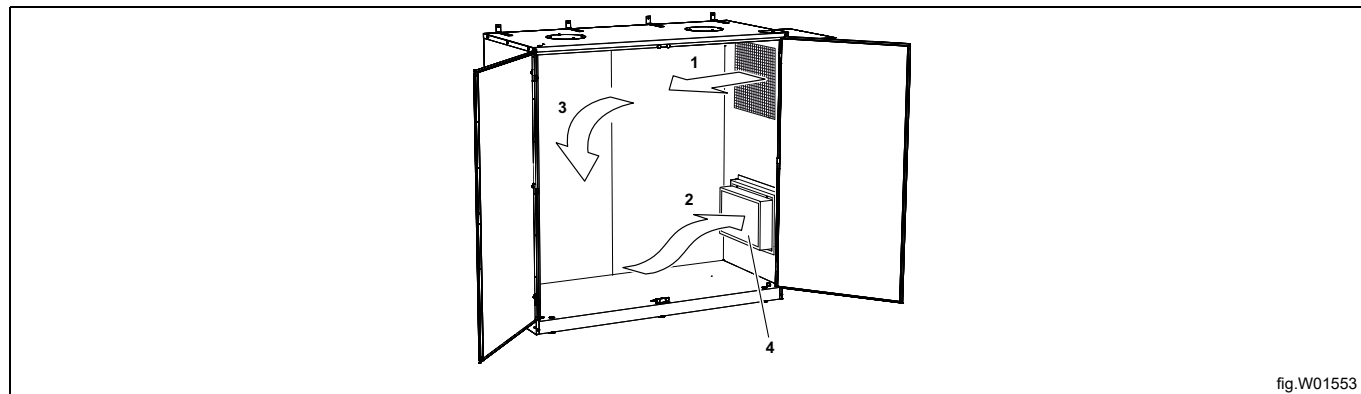
R134a 1.5 kg

GWP 1430

CO₂ equivalent: 2.145t

Hermetically sealed.

5 Air flow



1	Inlet for hot, dry air
2	Outlet for humid air. A lint filter is located in front of the air intake
3	Circulating hot air
4	Filter

Principle of operation

The drying cabinet works according to the principle of heat pump with dehumidifier unit instead of conventional hot air unit. This dries the garments at a lower heat and with significantly lower energy consumption.

The cabinet is a completely closed system. No exhaust air connection is required. The moisture is condensed during the process, and the water formed is directed to the drain via a hose.

The amount of moisture in the cabinet's air flow determines when the laundry is dry.

Functionality check

Check that:

- The fan starts
- The inlet (1) becomes warm and the surface behind the filter becomes cold.

6 Electrical connection



The electrical installation may only be performed by qualified personnel.
 Electrical connection of the appliance must be done in accordance with electrical safety regulations.
 Make sure that the connection current is in line with the data on the identification plate and that the mains cable is grounded properly according to the applicable standard.
 We recommend that the mains cable be equipped with a ground fault interrupter.
 The manufacturer disclaims all liability if the electrical connection is not done in the manner prescribed in this manual.

The drying cabinet must be connected to an all-pole circuit breaker.

Heating options	Mains voltage	Hz	Total output kW	Recommended fuse A
Heat pump	400V 3N ~	50	3.2	10 slow-blow

- Unscrew the lower end plate on the dehumidifier unit and unscrew the cover on the electrical box.
- Connect a 5-wire cable to the terminal block as indicated in the wiring diagram.
- Reinstall the parts.

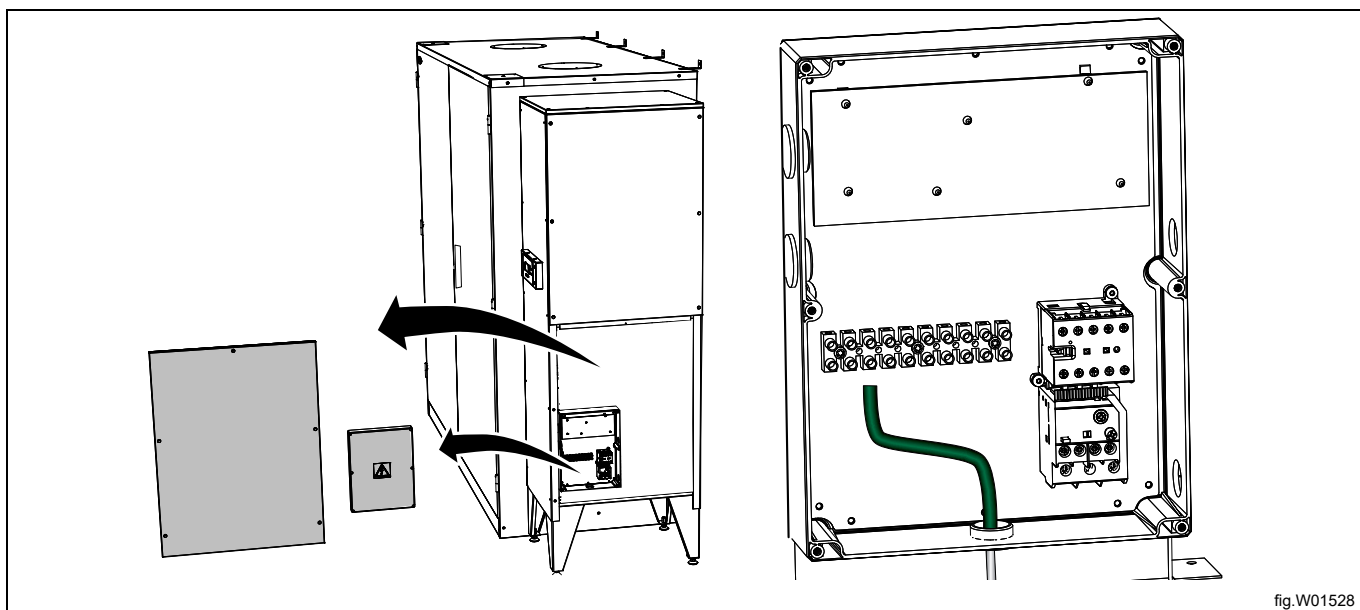
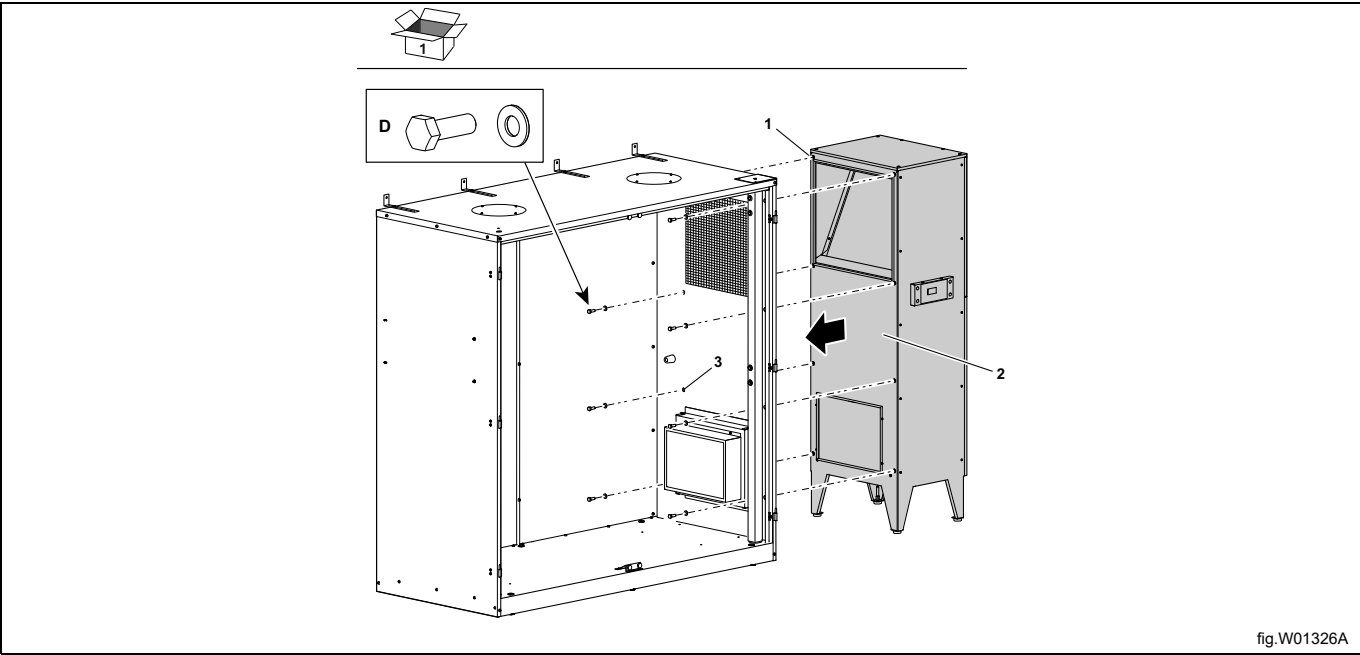


fig.W01528

7 Dehumidifier unit

The dehumidifier unit is a separate component of the drying cabinet and can be mounted on either the left or the right side. The dehumidification unit is fastened with 8 screws. The components are then locked with a screw. The cabinet is delivered in a right version or left version and cannot be converted afterwards.



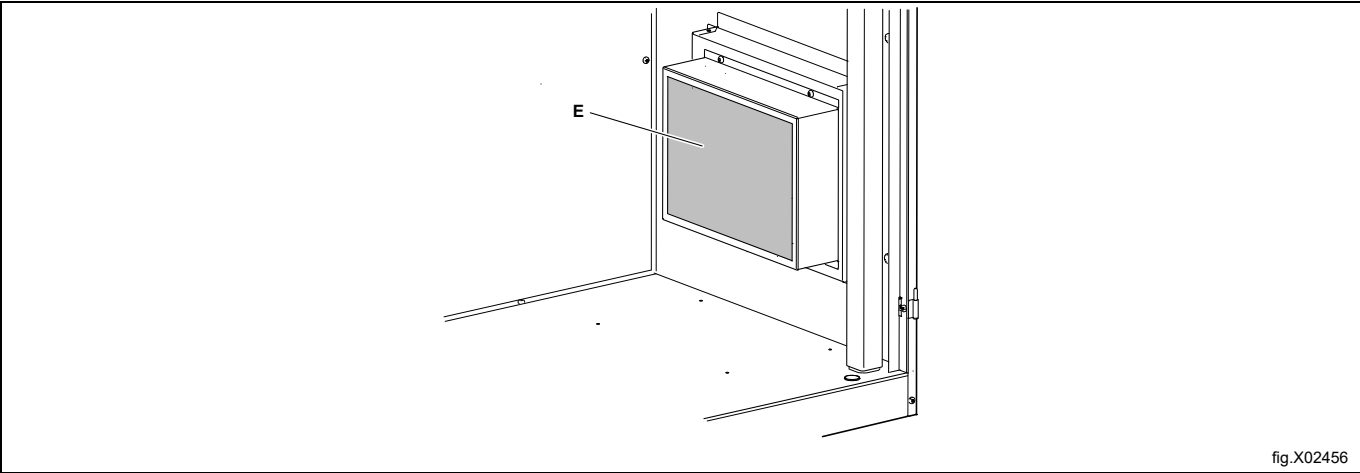
1	Blind rivet nut in the dehumidifier unit
2	Dehumidifier's side towards the drying cabinet
3	Oval mounting holes in the cabinet unit

Function

The dehumidifier unit condenses away moisture from the air that is drawn in and then heats the dried air and blows it out over the garments in the drying cabinet.

Dehumidifier unit replacement

- Cut off power to the appliance.
- Remove the lower end plate (A) from the dehumidifier unit and the cover from the electrical box (B).
- Disconnect the power supply.
- Remove 8 screws from the inside of the cabinet frame.



The figure shows attachment for a drying cabinet in right version and with the door and hangers removed.

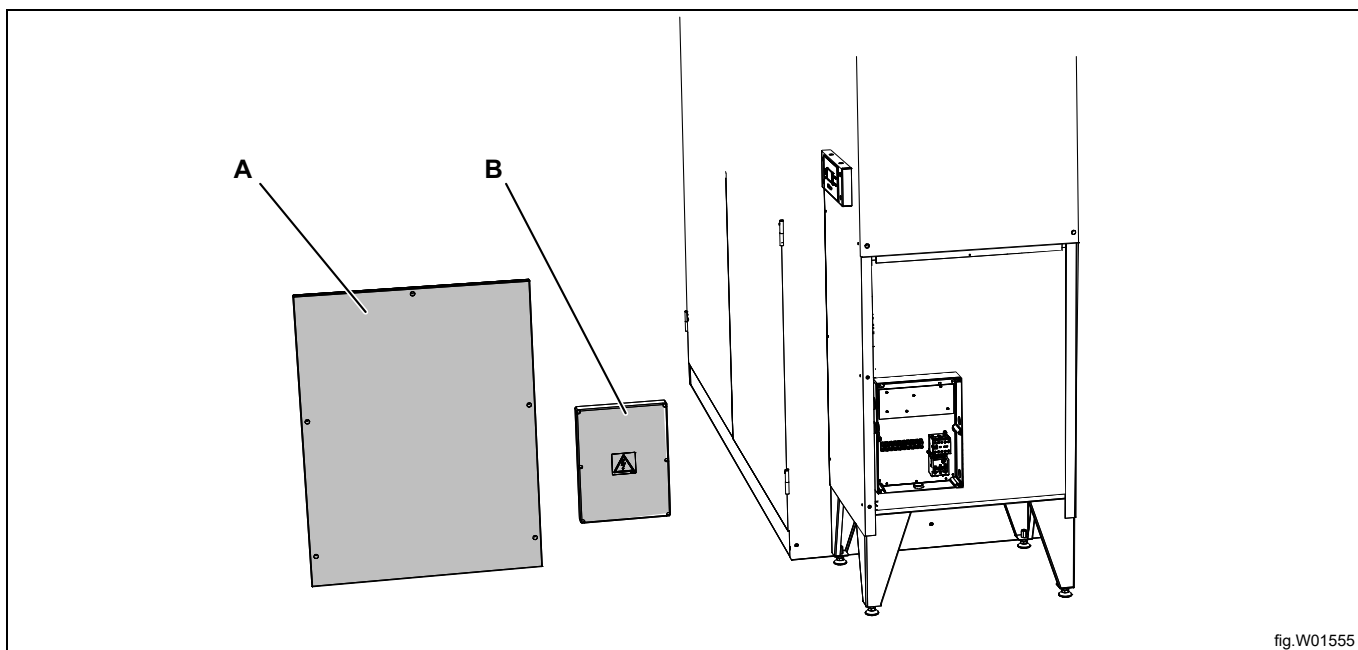


fig.W01555

A	Lower end plate
B	Cover of electrical box
D	Screw with washer (8x)
E	Lint filter between drying cabinet and dehumidifier unit

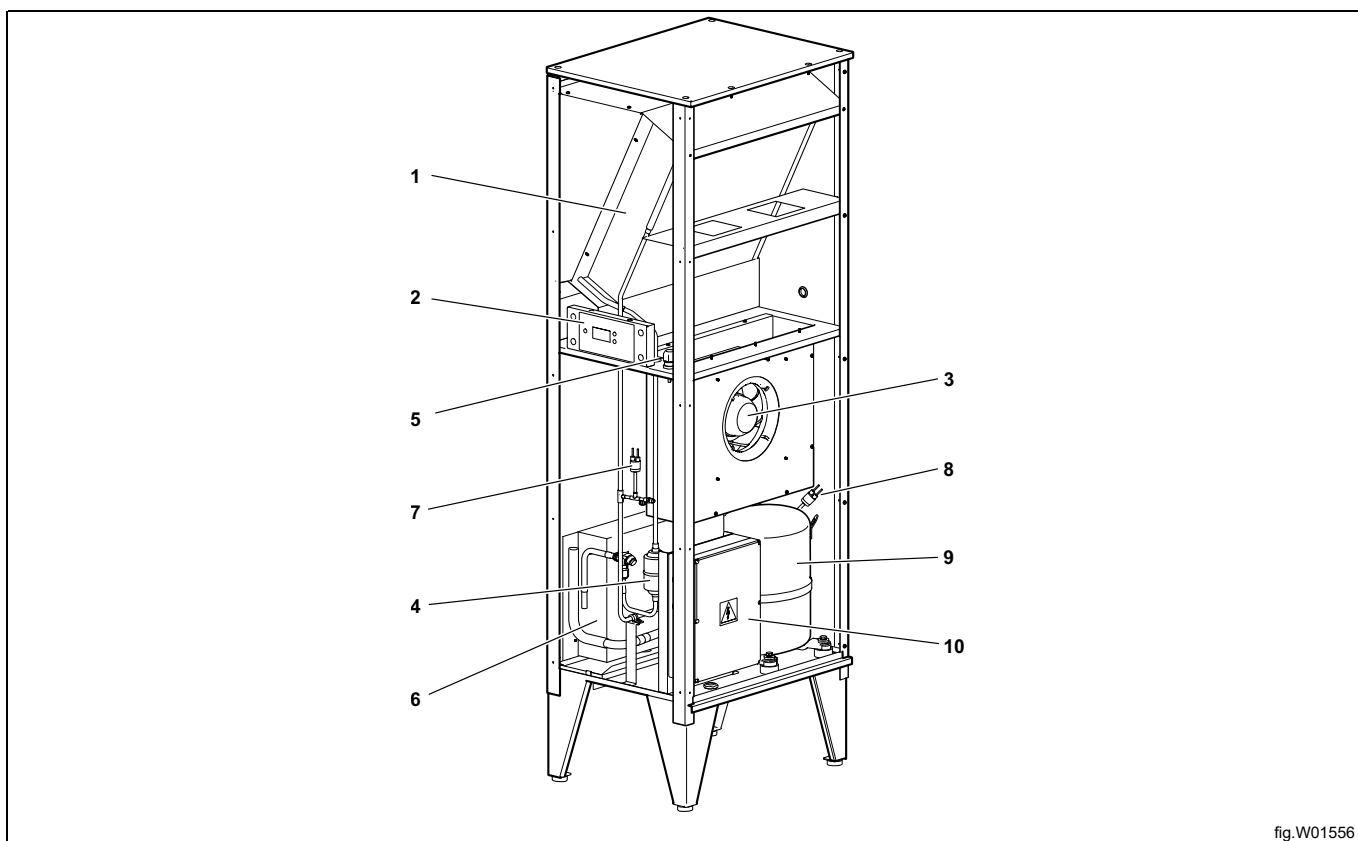


fig.W01556

1	Condenser
2	Control panel
3	Fan
4	Moisture filter
5	Moisture sensor
6	Evaporator
7	Pressure switch, high pressure
8	Pressure switch, low pressure
9	Compressor
10	Electrical box

8 Electrical box

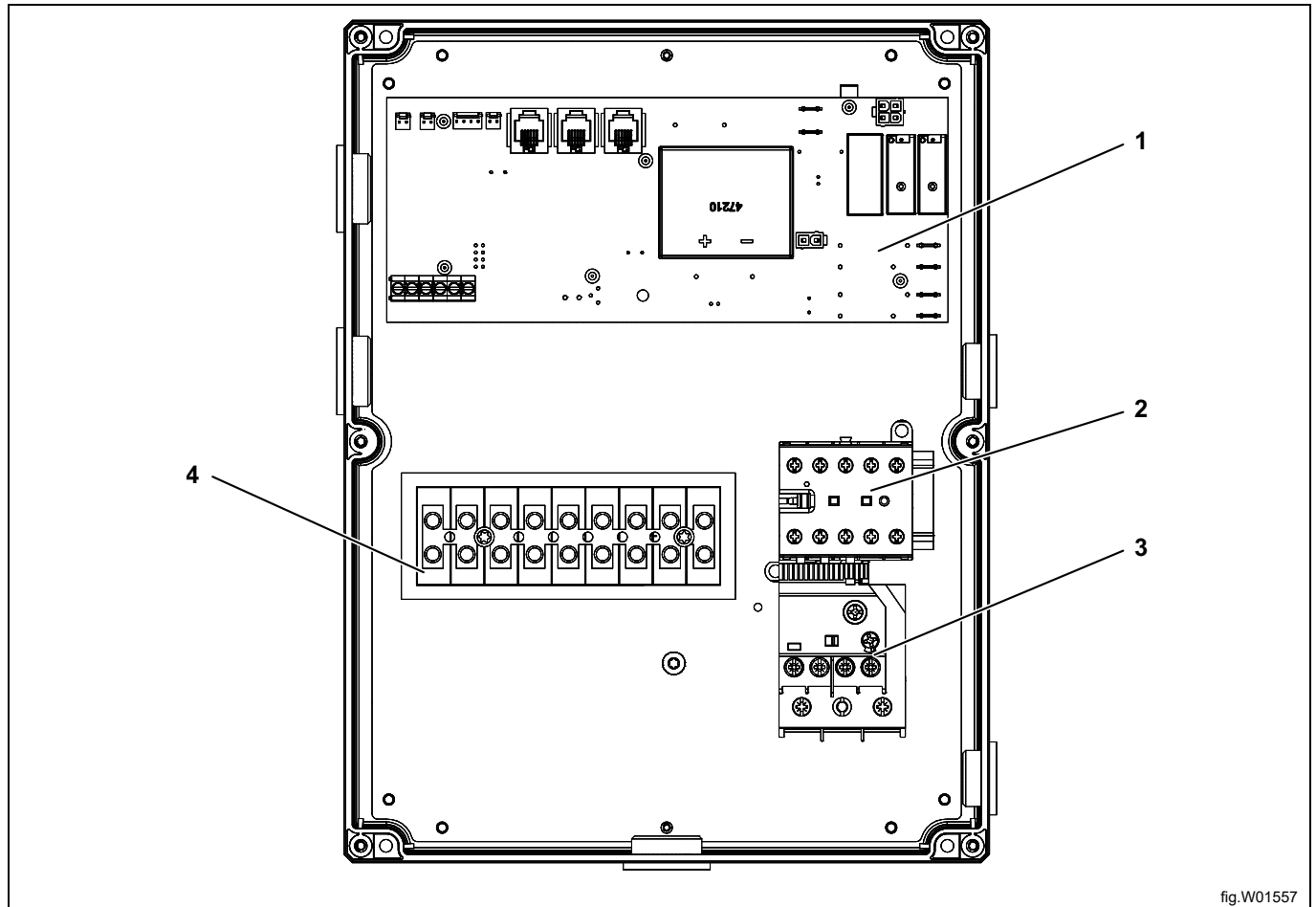
Function

The electrical box houses the electronics and contactor.

Location

The electrical box is mounted on the end of the dehumidifier unit behind the lower end plate.

8.1 Electrical box components



1	Circuit board
2	Contactor
3	Overheat protection
4	Terminal block

8.2 Moisture sensor

Function

The drying process is controlled by means of a moisture sensor, HIH 4000. The drying process is stopped when the moisture in the cabinet has dropped below a set level.

If the sensor is not working properly, the laundry will not dry completely or will overdry.

Troubleshooting



The work must be performed with power supplied to the appliance.



The circuit board must be supplied power and a program active in order to test the sensor.

- Place a black probe on pin 1 as illustrated below, and a red probe on pin 2 and then pin 3. For both measurements, the value should be between 0.8 and 3.5 V. When the red probe is placed against pin 4, the measured value should be 5 V.

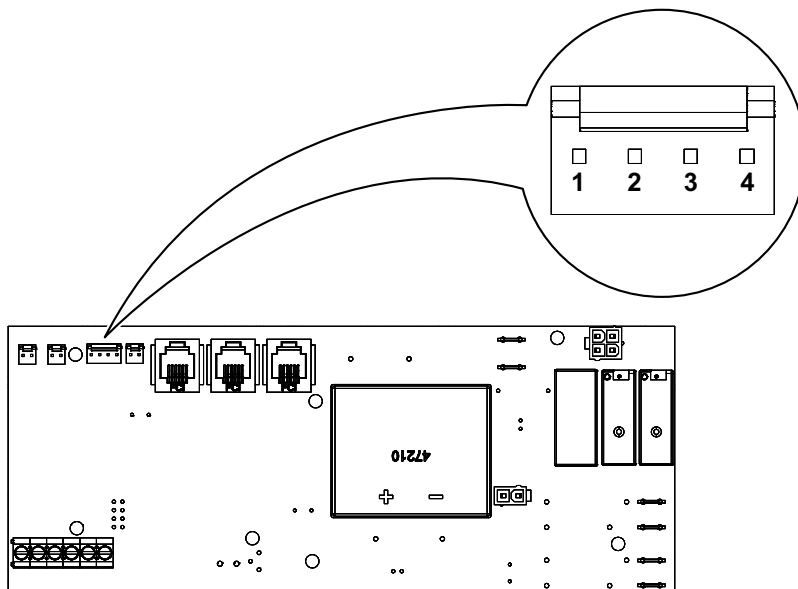
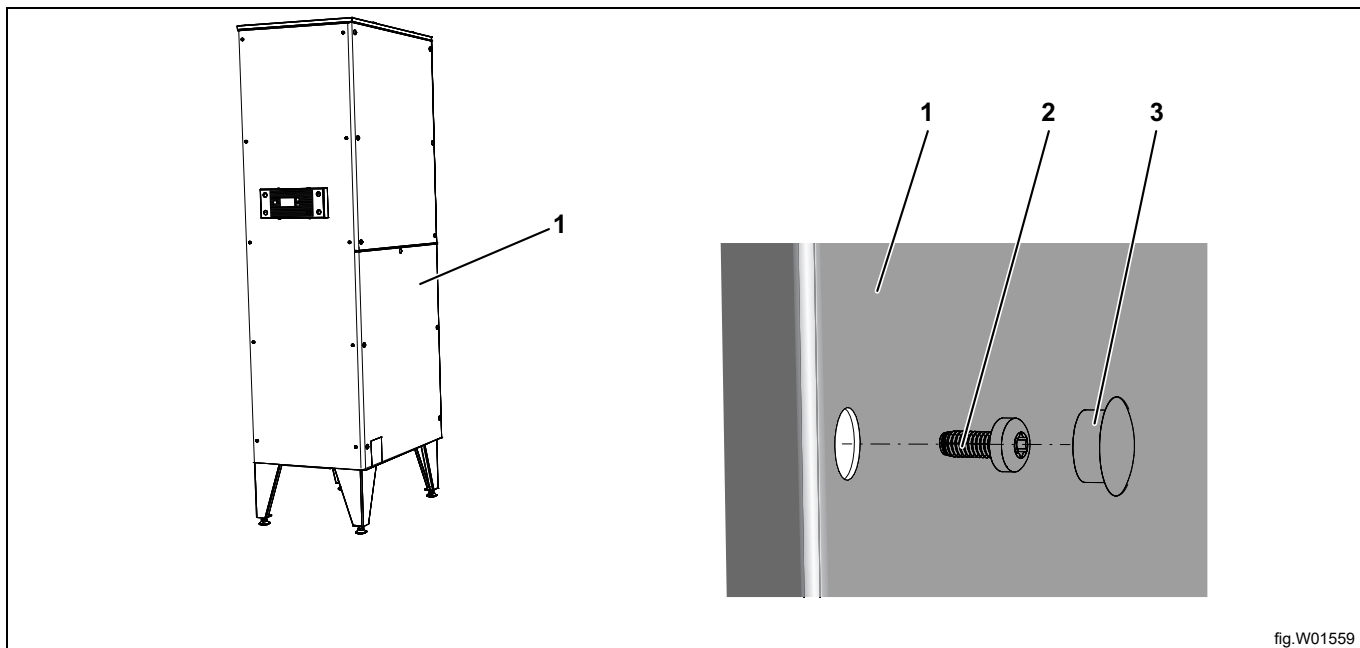


fig.W01558

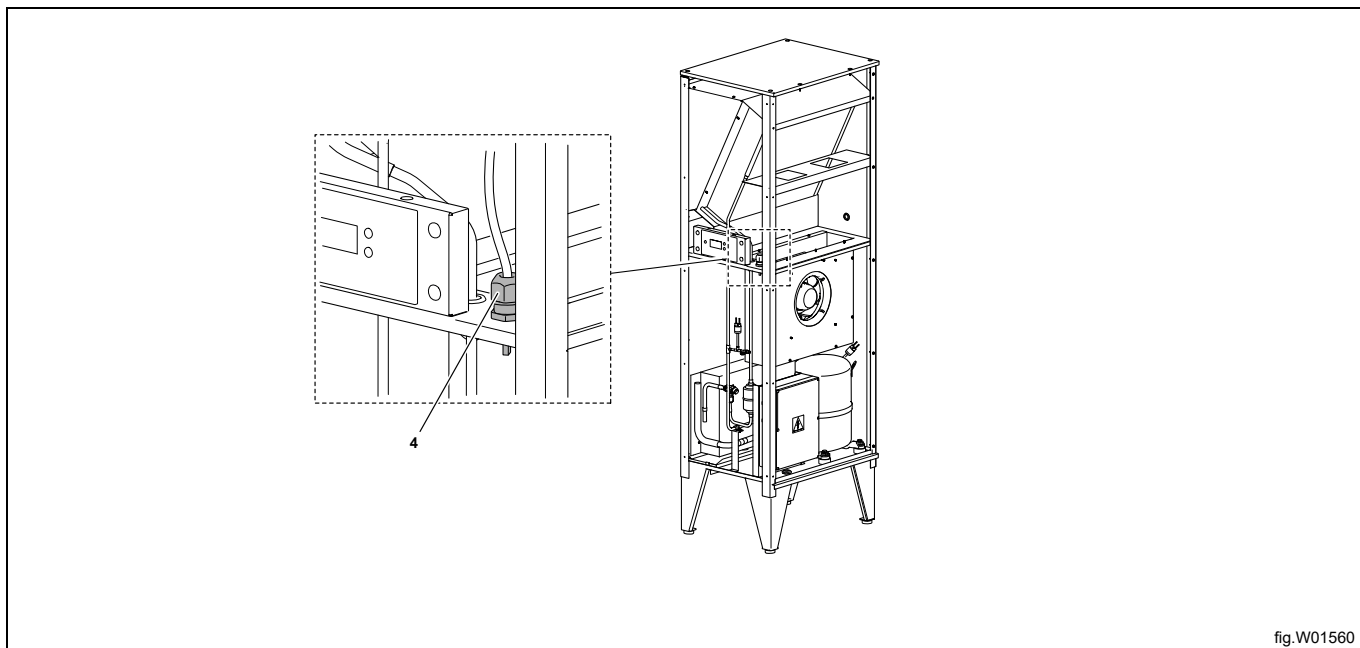
Moisture sensor replacement

- Disconnect the power to the cabinet.
- Remove the lower end plate (1).



1	Lower end plate
2	SHEETtracs
3	Cover plug

- Then unplug the connecting cable and unscrew the sensor.
- Install the new sensor in reverse order.



4	Moisture sensor
---	-----------------

8.3 Circuit board

Function

Controls the drying process.

Troubleshooting



The work must be performed with power supplied to the appliance.



- Check that there is voltage running to the electronics, 230V. Two flat pins (C).
- Start the drying program.
- Check the electronics' relay output (D). This connects a circuit to the fan unit.

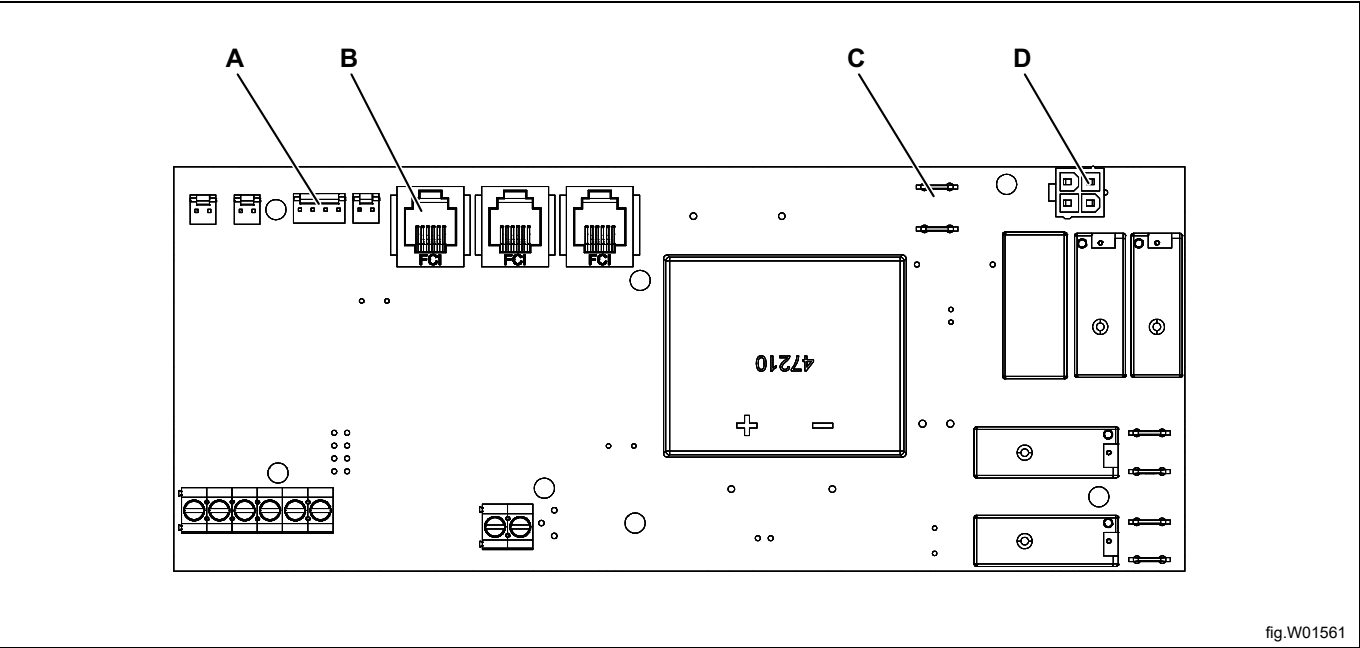
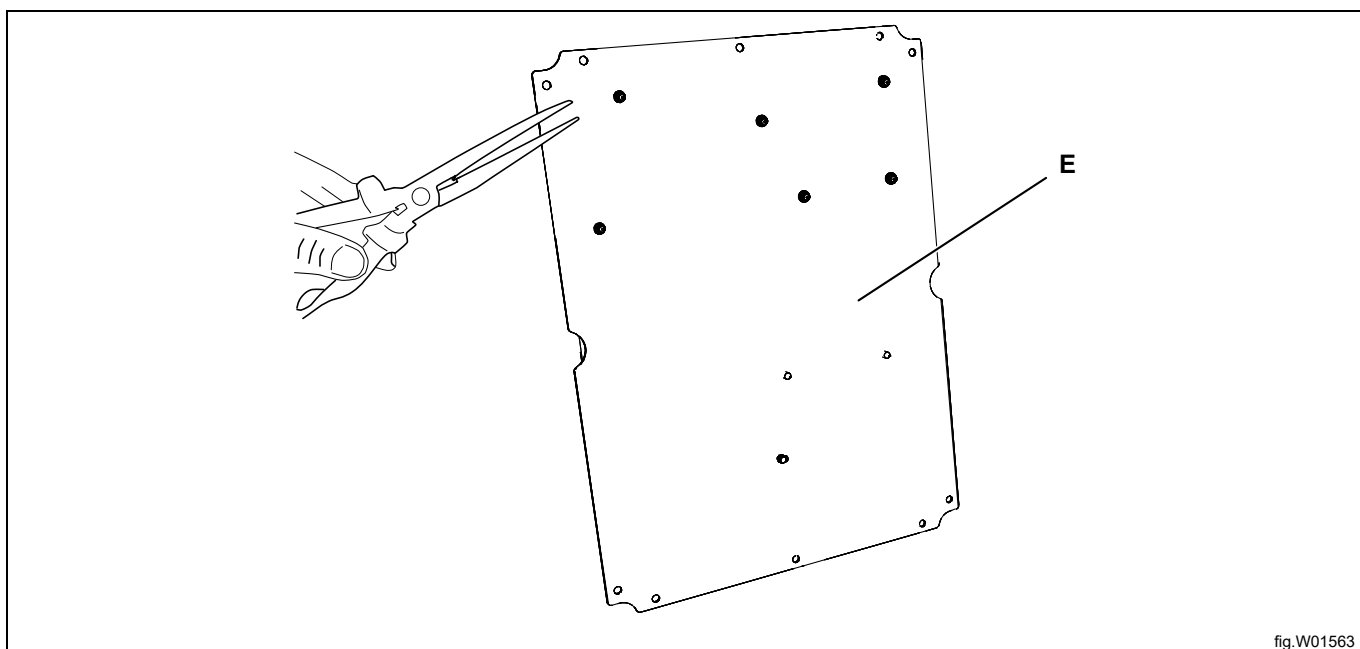
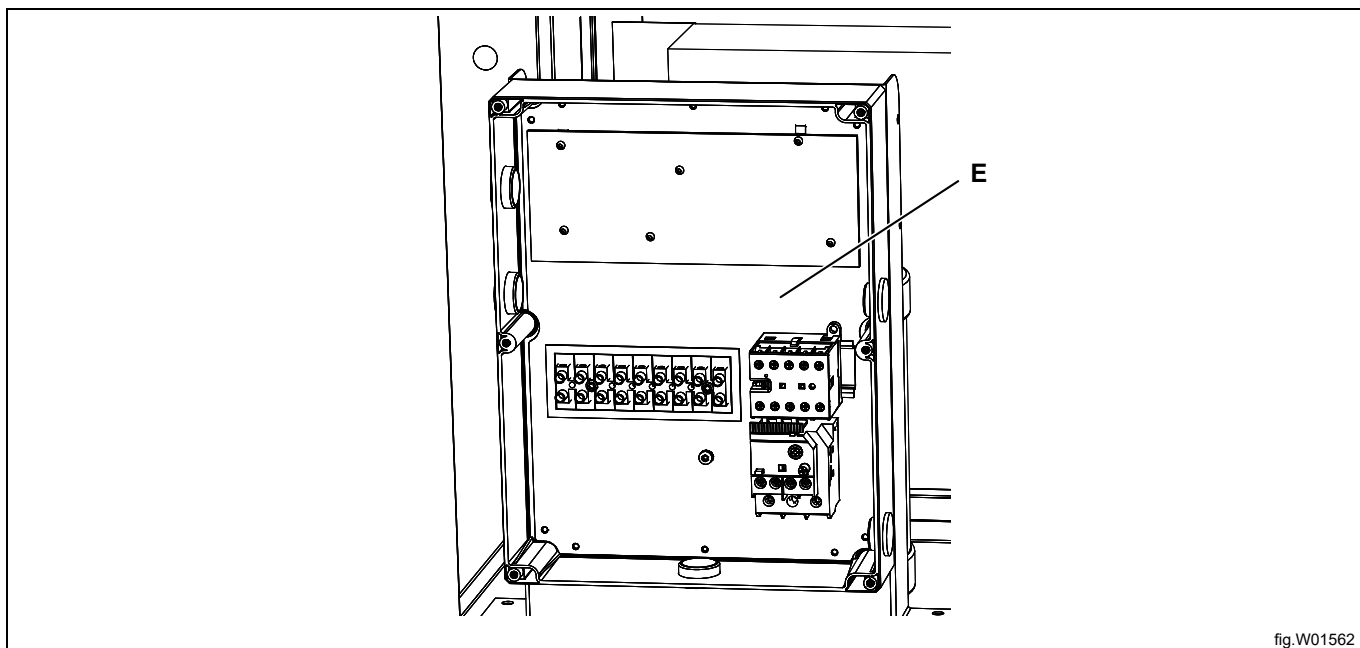


fig.W01561

A	Moisture sensor connection
B	Control panel connection
C	Mains connection
D	Relay output
E	Electrical plate at the bottom of the electrical box

Circuit board replacement

- Disconnect the power to the appliance.
- Remove the cover of the electrical box.
- Disconnect the connection of the moisture sensor (A), the control panel (B), the connecting cables (C) and the cables of the relay output (D) from the circuit board. See the previous page.
- Unscrew the electrical plate (E) at the bottom of the box. Secure with 4 screws.
- Using long-nose pliers, remove 6 PCB holders on the rear of the electrical plate. New ones are included when replacing the circuit board.
- Install the new circuit board with the new PCB holders and then screw the electrical plate back in place.
- Install the other parts in reverse order.



8.4 Control panel

Function

Program selector, Normal drying/Gentle drying of sensitive material.

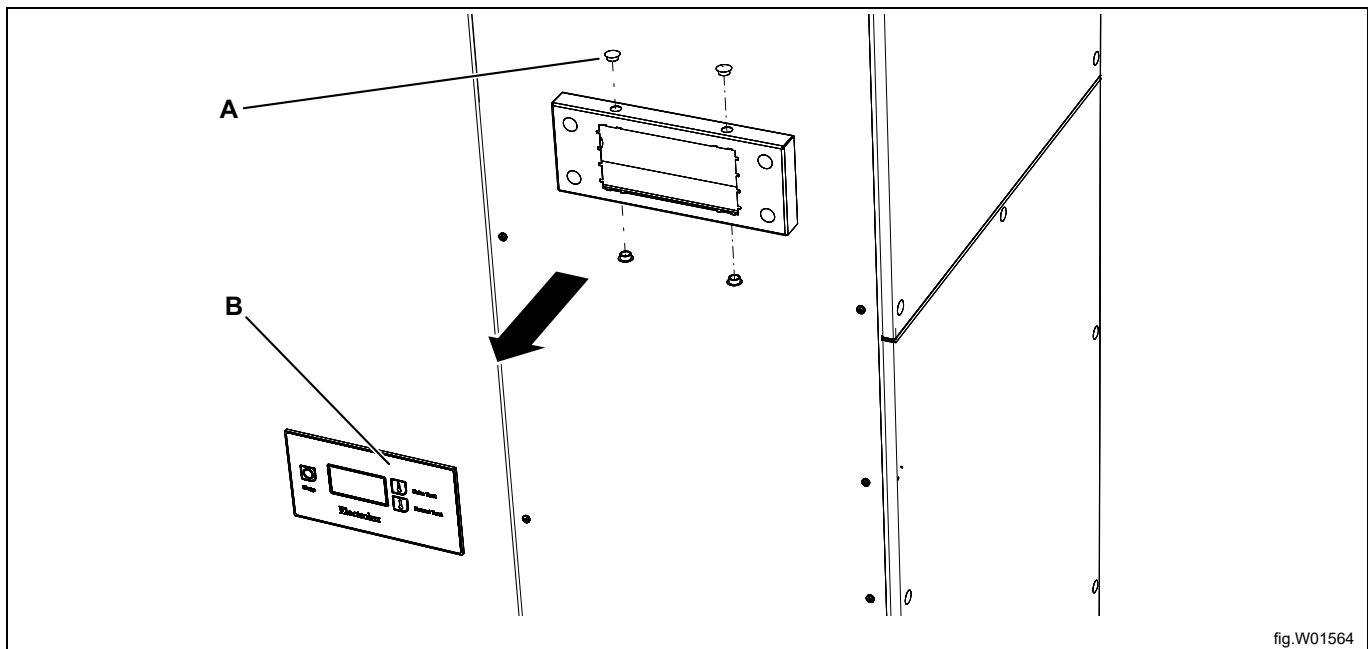
Troubleshooting

- Remove the cover from the electrical box.
- Check that the modular connector is properly installed in the control panel and circuit board, output USER INTERFACE.
- Check that there are no red LEDs lit on the rear of the control panel or on the circuit board under the circuit board's sensor connectors.

Control panel replacement

The control panel is installed in a holder on the side of the dehumidifier.

- Remove 4 cover plugs on the top and bottom of the holder.
- Carefully detach the control panel from the holder. The control panel is mounted with four snaps.
- Carefully detach the modular connector on the control panel.
- Install the new control panel in reverse order.



A	Cover plug
B	Control panel

9 Programming options

- Display language
- Activation/deactivation of child safety lock
- Optimization of the drying process

The program setting is determined by parameters and is managed via the control panel.

9.1 Control panel

The user interface has 3 touch buttons. The buttons have a dual function

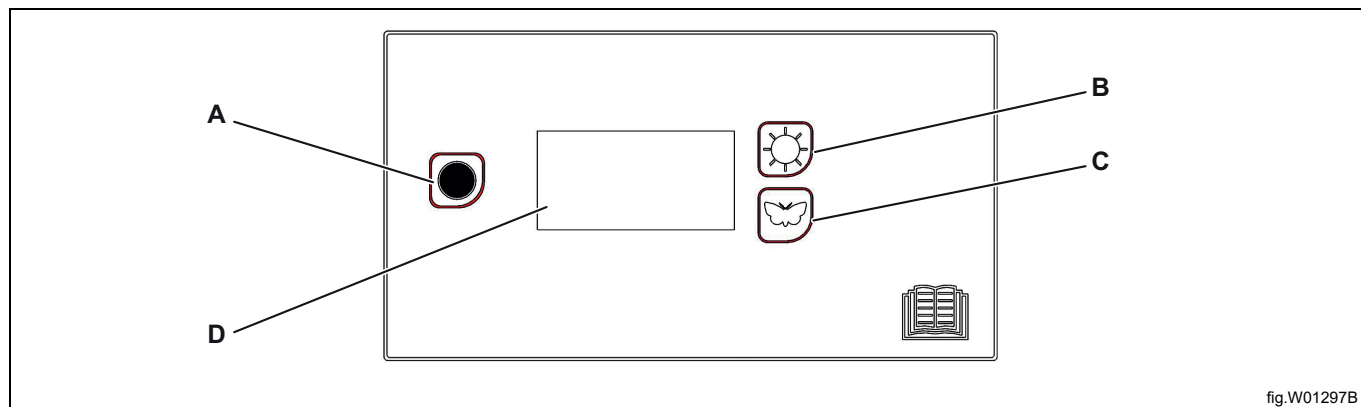


fig.W01297B

A	Stop
B	Program selection button, Extra drying In programming mode = STEP UP
C	Program selection button, Normal drying of sensitive material In programming mode = STEP DOWN
D	Display, Animated symbol that shows that drying is in progress. UPPER ROW = Instruction text, e.g. AUT, is shown during the drying process. In programming mode, the actual parameter is shown here, e.g. P2152 LOWER ROW = Instruction text, e.g. NORMAL, is shown during the drying process. In programming mode, the set value of the parameter is shown here. The CHILD SAFETY LOCK symbol is lit during the entire drying process when the child safety lock mode is active.

9.2 Parameter list

Parameter	Value	Factory default value	Setting options	Means
P 105	0 1 2 3 4 5 6 7	1	0 - 7	English Swedish Norwegian Danish Finnish Russian French German
P 115	0 1	0	0/1	Child safety lock off Child safety lock on
P 117	0	0	0 - 3	Network activation, see below
P 118	1	127	0 - 127	Network address
P 140		10	0 - 255	Test sequence time on
P 141		3	0 - 255	Test sequence time off
P 150		0	0 - 255	Test sequence
P 2151	min	15	0 - 30	Time constant
P 2152	ReH %	32	20 - 70	Moisture sensor
P 2153	min	120	60 - 360	Maximum time for the entire drying process
P 2154	min	5	2 - 20	Cool-down period

9.3 Activating/deactivating programming mode

- Press STOP + SUN + BUTTERFLY. Press the Stop button first and then the program selection buttons simultaneously. The display lights up and shows "ACCESS 1000". To be able to move on, code 9191 must replace the code 1000.
- After the above, you will be at the first digit "1" in ACCESS 1000. Step to the digit "9" using the program selection buttons SUN (up) or BUTTERFLY (down). Then move to the next digit, in this case "0", using the STOP button. Increase this to "1" using the SUN button and then continue until "9191" is shown. Once you have set the last digit, press the STOP button and **access programming mode**.
- The first parameter (as per the list above) and the factory-set value are then shown in the display. The row with the parameter flashes.
- Use the program selection buttons to step to the required parameter, up (SUN) or down (BUTTERFLY).
- Once the display shows the required parameter, press STOP to confirm the parameter selection. The row with the parameter's set value will now flash.
- Use the program selection buttons to step the parameter value up or down.
- Press STOP to save.
- To exit programming mode, press STOP + BUTTERFLY (STOP button first). The display will restart and show "HELLO".

9.4 Network functions

The product can be connected to ELS VISION.

To activate the connection to ELS VISION, access parameter 117.

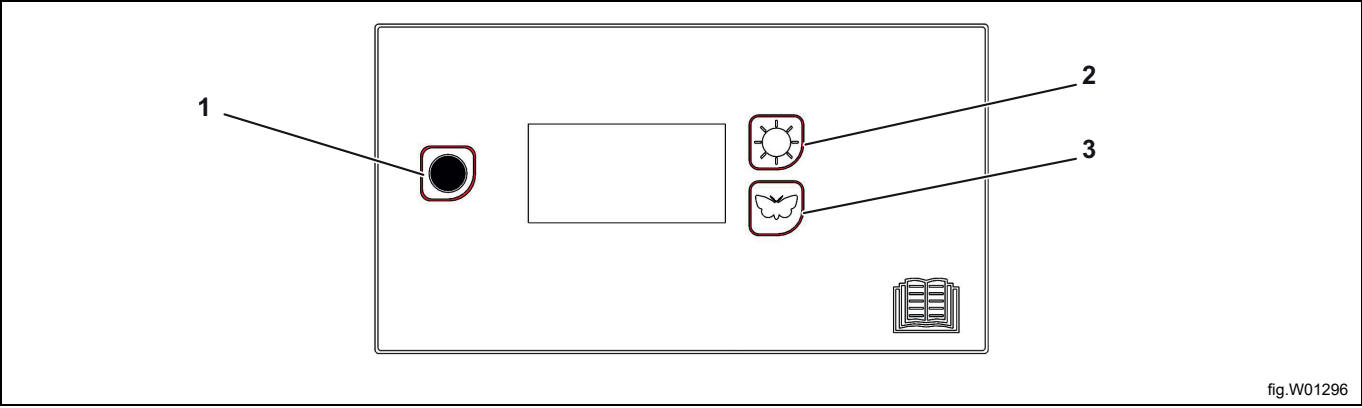
Select a transfer rate that matches ELS VISION's setting.

0: off, 1: 2400 bps, 2: 4800 bps, 3: 9600 bps.

Then access parameter 118 and set network address 1–127.

9.5 Language setting

- Activate the programming mode: Press STOP + SUN + BUTTERFLY. Press the Stop button first and then the program selection buttons simultaneously. The display lights up and shows "ACCESS 1000". To be able to move on, code 9191 must replace the code 1000.
- After the above, you will be at the first digit "1" in ACCESS 1000. Step to the digit "9" using the program selection buttons SUN (up) or BUTTERFLY (down). Then move to the next digit, in this case "0", using the STOP button. Increase this to "1" using the SUN button and then continue until "9191" is shown. Once you have set the last digit, press the STOP button and **access programming mode**.
- The first parameter and the factory-set value are then shown in the display. The row with the parameter flashes.
- Step forward or back with the SUN (increase) or BUTTERFLY (decrease) button until "P 105" is shown.
- Once the display shows "P105", press STOP to confirm. The row below will now flash with the language symbol. Each language is assigned a number symbol as listed in the following table. The unit is factory-set to "1" (Swedish).
- Step to the required language with the SUN or BUTTERFLY button.
- Press STOP to save.
- To exit programming mode, press STOP + BUTTERFLY (STOP button first). The display will restart and the new language is set.



1	Stop button
2	Sun button Extra drying
3	Butterfly button Normal drying

Language symbol	Display language
0	English
1	Swedish
2	Norwegian
3	Danish
4	Finnish
5	Russian
6	French
7	German

9.6 Activating/deactivating child safety lock mode

The child safety lock is a safety feature that prevents the drying process from being unintentionally started or changed. When activated, buttons must be held depressed for at least 3 seconds to produce the desired effect. Activating this drying cabinet setting may be a good idea for preschools and the like.

Note!

During operation, if the door is opened and then closed within 5 minutes, the drying process continues. If the door is open for more than 5 minutes, the drying process ends.

- Activate programming mode.
- Step to the parameter P 115 using the program selection buttons.
- Press STOP to save.
- Change the parameter to the value 1 for activation and the value 0 for deactivation.
- Press STOP to access the parameter.
- Exit programming mode with STOP + BUTTERFLY. Press STOP first.

If the child safety lock mode is activated, this is indicated in the display through illumination of the "clock" symbol.

9.7 Optimize the drying process

The drying cabinet is equipped with two automatic programs. The automatic program stops when the laundry is dry. The drying results of the programs may vary depending on factors such as the temperature in the room, the humidity in the room, incoming and outgoing air, the moisture level of the garments, etc.

If the laundry is too dry or not dry enough, the drying process can be optimized by adjusting the parameter values of the respective drying program via the control panel.

Program EXTRA controlled via moisture sensor and a time factor.

The program runs until the value set for the moisture sensor is reached. The program then runs for the amount of time set. Once both of these have been reached, the program is finished.

Program NORMAL controlled via moisture sensor.

The program runs until the value set for the moisture sensor is reached.

To determine when the laundry is dry, a measured value is compared to the factory-set parameter. The parameter is **P 2152 (moisture sensor) for automatic program NORMAL** and parameter **P 2151 (time constant) for automatic program EXTRA**.

It is primarily these two parameters that are adjusted to optimize the drying process of the automatic programs.

- To **increase a value**, press the program selection button **Sun**.
To **reduce a value**, press the program selection button **Butterfly**.
- If the laundry does not seem dry enough with
Automatic program NORMAL, **reduce** the parameter value for **P 2152 (moisture sensor)**.
Automatic program EXTRA, **increase** the parameter value for **P 2151 (time constant)**.
- If the laundry seems overdry and there is a long drying time with
Automatic program NORMAL, **increase** the parameter value for **P 2152 (moisture sensor)**.
Automatic program EXTRA, **decrease** the parameter value for **P 2151 (time constant)**.

Drying process optimization should always be done in small increments. Start by adjusting the parameter in question 1–2 units up or down. Then check the results after the next drying process and make further adjustments as necessary.

9.8 Restoring factory settings

- Activate programming mode.
- Press all three buttons. Start with **STOP** and then press the **program selection buttons at the same time**. The factory settings are saved and the display shows the most recently run programs.
- Exit programming mode.

10 Maintenance

10.1 Preventive maintenance by the user

The user should wipe out the drying cabinet with a damp cloth and clean the lint filter with the provided brush after each use. It should be free of dust/gravel.

10.2 Preventive maintenance is performed by a trained technician at least once a year

10.2.1 Doors

Check that the doors close properly.



Important



It should be possible to open the cabinet from the inside.

10.2.2 Hangers

Check that the hangers are intact.

10.2.3 Total clearing of dust

Vacuum around the fan and heat pump.

10.2.4 Functionality check

Check that:

- The fan starts.
- The heating works by running a program with heating for 5 minutes and then opening the doors to check whether the being blown into the cabinet is warm and the surface inside the filter is cold.

11 Operation

11.1 Operation

Expand the hanger unit and hang the laundry evenly over the hangers.

Close the hanger unit and close the doors.

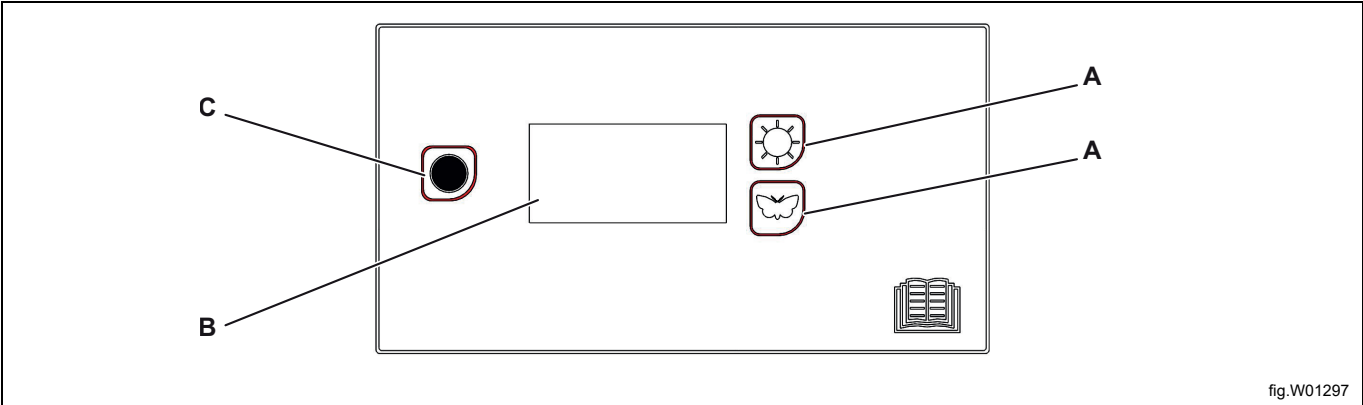
Select a drying program (A). Drying will start when the program button is pressed. The symbol (bar) on the left side of the display (B) indicates that the drying process is in progress.

The drying cabinet will stop automatically when the laundry is dry.

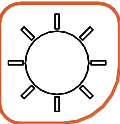
When the textiles are dry, the drying process switches to a cool-down period that ends automatically after 3 minutes. During the cool-down period, the text "COOL" is shown on the display.

The display shows the text "END" (flashing).

To cancel the drying cycle, press the stop button (C).



11.2 Program description

	Extra drying The program stops when the laundry is dry
	Normal drying The program stops when the laundry is dry

11.3 Loads

For optimum energy efficient drying, operate with a full load and do not open either door until the appliance has stopped. If the door is opened during drying, the drying time will increase.

The drying cabinet has an expandable hanger unit. The lower section contains curtain coils that can be used to fasten items. Hanging the laundry according to the following instructions will result in the most efficient drying result.

- Hang the items in the drying cabinet according to how much room they require and not according to their weight.
- Do not lie the garments flat over the upper part of the hanger unit.
- Hang gloves, caps, scarves and the like on the glove hangers on the inside of the cabinet.
- Do not overload the drying cabinet. The laundry will become creased and dry unevenly. Leave some space between the items if possible.

To avoid the transferring of colors, make sure materials are not touching each other.

- Avoid drying thick items at the same time as lighter items as they hold more moisture and have completely different drying times. If so, remove the lighter items when they are dry to reduce the drying time for the thick items that are left.
- Do not hang knitted items. These will stretch unnecessarily as they are heavy when wet.

Follow the instructions on the care label of the garment as far as possible.



Do not dry any garment or the like that has been treated with gasoline or another volatile and flammable agent. This could cause an explosive gas mixture to form.

12 Troubleshooting guide

Problem	Action
The drying cabinet does not work	1. Check the connection to the power mains. 2. Check that no fuse has been tripped. 3. Did you press the start button?
The sealing strip does not create a seal/ there is a gap at the door	Check that the cabinet is level. Check with a spirit level and adjust via the adjustable feet if necessary.
No heat in the cabinet	1. Check the cabinet temperature sensor (Chapter 7). 2. Check the dehumidifier unit (Chapter 7). 3. Check the outgoing air moisture sensor (Chapter 8.2).
The drying cabinet does not start	1. Check that no fuse has been tripped. 2. Did you press the start button? 3. Check the mains connection. 4. Check the display (Chapter 8).
Drying takes a long time	1. Check that the right program was selected for the type of garments in question (Chapter 12). 2. Check to ensure the garments are not extremely wet (poorly centrifuged). 3. Check that there is not too much laundry in the cabinet. 4. The laundry cuts off the air flow. 5. The software that controls the drying process requires adjustment (Chapter 9.7 <i>Optimize the drying process</i>). 6. Check the moisture sensor (Chapter 7). 7. The fan does not start (Chapter 7).
The laundry does not get dry	1. Check that the right program was selected for the type of garments in question. 2. Check that there is not too much laundry in the cabinet. 3. Check to ensure the garments are not extremely wet (poorly centrifuged). 4. The software that controls the drying process requires adjustment (Chapter 9.7 <i>Optimize the drying process</i>). 5. The laundry cuts off the air flow; free the air ducts. 6. The overheat protection may have been triggered (Chapter 7). 7. The fan does not start (Chapter 7). 8. Check the moisture sensor (Chapter 8). 9. The heat pump does not start (Chapter 7).
Troubleshooting at the component level	Overheat protection (Chapter 8). Moisture sensor (Chapter 8). Dehumidifier unit (Chapter 7). Electrical box (Chapter 8). Electronics unit (PCB) (Chapter 8.3). Display (Chapter 8.4).

13 Error code list

Only the error code is shown in the display, e.g. "ER 03"

Malfunction	Type of malfunction	Description	Possible cause	Action by user	Service action
ER 03	Ends the drying process	Moisture sensor error	Sensor outside its measuring range	Contact Service	Replace the moisture sensor
ER 04	Ends the drying process	Max time for drying process exceeded		Contact Service	Preset value 240 min can be changed with parameter P 2073
ER 12	Ends the drying process	Communication between the user interface and the electronics is temporarily suspended.		Contact Service	Check that the cable for the display and heat pump is not damaged and is correctly installed

The Stop button must be held depressed for 5 seconds to reset the alarm.



Electrolux Professional AB
341 80 Ljungby, Sweden
www.electroluxprofessional.com