

SERVICE MANUAL

NEW ARISTON 60 cm PLATFORM



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Contents of the Manual: Note for the Engineer.

This manual is a supporting document for technical personnel. It contains a description of the various product types, the general operating principles and indications concerning assistance.

Technical personnel should, in any case, consult the specific model on [servicenet[®]](http://www.servicenet.indesitcompany.com) (www.servicenet.indesitcompany.com) to access data and updates of electrical diagrams, technical bulletins and spare parts.

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1. PRODUCT TYPE:

1.1. ARISTON APPLIANCES LEGEND:

M	B	T	20	2	2	CZ	-	-	-
M=Ariston	B = Combi T = Double Door	M = Mechanic L = LED + Ele + Air T = TOUCH + Ele + Air P = BUTTONS + Ele + Air	15 = 150cm 17 = 175 cm 18 = 187cm 20 = 200cm	3 = A++ 2 = A+ Freezer Temp. 1 = A	1 = White 2 = Stainless steel 3 = Silver	C = Chiller Z = Variable I = Integrated Everfresh V = Ventilated	Q= Aquacare	T = Tropical L = Lock	F= No Frost S= NF Surround

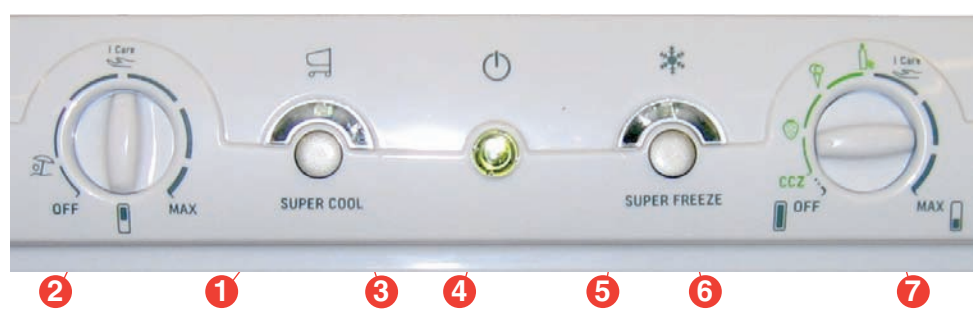


1.2. INTERFACE:

Electronic thermostat



Electronic Static Combi - No Frost Basic



Legend:

- 1. **SUPER FRIDGE** button
- 2. **FRIDGE** knob
- 3. **SUPER FRIDGE** indicator led
- 4. Power supply indicator led
- 5. **SUPER FREEZE** indicator led
- 6. **SUPER FREEZE** button
- 7. **FREEZER** knob

Interface: Everfresh

Interface: without Everfresh

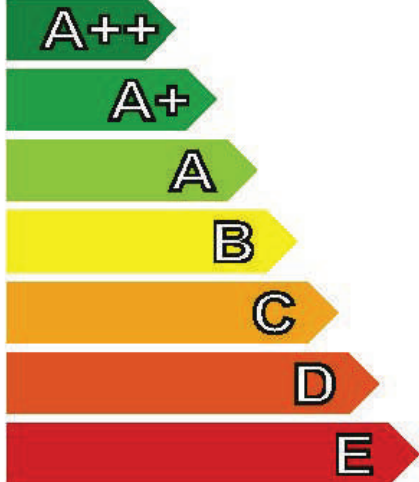




Legend:

- 1. **ON/OFF** button
- 2. **VARIABLE TEMPERATURE COMPARTMENT** temperature selector
- 3. **FREEZER COMPARTMENT** temperature selector
- 4. **FRIDGE COMPARTMENT** temperature button
- 5. **"I CARE"** button
- 6. **"HOLIDAY"** button
- 7. **"RESET ALARM"** button
- 8. **"SUPER FRIDGE"** button
- 9. **"SUPER FREEZE"** button
- 10. **"EVER FRESH"** button
- 11. **"ICE PARTY"** button
- 12. **FREEZER** display
- 13. **FRIDGE** display
- 14. **VARIABLE TEMPERATURE COMPARTMENT** display

1.3. ENERGY LABEL:

Energy Label for appliances:

Energy	Ariston XXX
Manufacturer Model	
More efficient	
Less efficient	<p data-bbox="140 1249 603 1323">Energy consumption kWh/year <i>(based on standard test results for 24 h)</i></p> <p data-bbox="140 1352 475 1429">Actual consumption will depend on how the appliance is used and where it is located</p> <p data-bbox="140 1451 475 1527">Fresh food volume Frozen food volume </p> <p data-bbox="140 1585 352 1662">Noise (dB(A) re 1 pW)</p>
Further information is contained in product brochures	<p data-bbox="667 1249 831 1317">XYZ</p> <p data-bbox="699 1462 810 1574">xyz xyz ✱ x x x</p> <p data-bbox="715 1585 762 1617">xz</p>
Norm EN 153 Refrigerator label Directive 2002/X/EC	

2. PRODUCT TYPE

2.1 ARISTON DOUBLE DOOR, ELECTRONIC THERMOSTAT:



Consult Indesit New Cold Platform Manual. Operation is identical or similar to equivalent Indesit appliance.

2.2 ARISTON COMBI, ELECTRONIC THERMOSTAT:



Consult Indesit New Cold Platform Manual. Appliance operation is the same as the Indesit brand appliance.

2.3 APPLIANCES WITH CONTROL KNOB INTERFACE

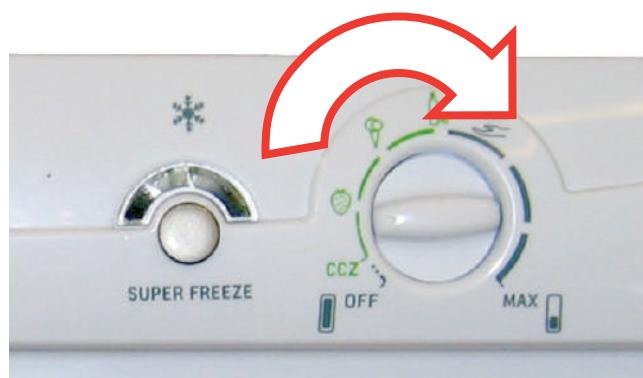


2.3.1 "FREEZER KNOB" FUNCTIONS:

Switching the appliance ON/OFF:

The freezer knob is used for switching the appliance on/off. In the "OFF" position, the appliance is switched off (Logical Off). Turn the knob clockwise to switch the refrigerator on.

To switch it off, turn the knob anti-clockwise to Off (Virtual Off).



Activation/Setting of the C.C.Z. variable temperature compartment (where available) and/or Freezer compartment temperature setting:

In appliances with knob controls, temperature setting of the variable temperature compartment and of the freezer compartment are inter-dependent, since both are adjusted with the same control knob.

The first half of the knob's range activates the

variable temperature compartment (C.C.Z.) and the freezer compartment temperature will be approx. -18°C .

For C.C.Z. temperature setting the user has three options:

- **STRAWBERRY** symbol, sets temperature to -8°C .
- **ICE CREAM** symbol, sets temperature to approx. -12°C .
- **BOTTLE** symbol: sets temperature to approx. -18°C .

If the knob is set past the half way mark (after the bottle), the C.C.Z. switches off and the relative drawer can be used as an additional standard freezer drawer.

To select the lowest temperatures, turn the knob clockwise (past the half-way mark). To select the higher temperatures, turn anti-clockwise (to the section next to the bottle symbol).

Note.: to activate the **I CARE** function, the fridge and freezer knobs must both be set to the **I CARE** position.

2.3.2 FRIDGE COMPARTMENT KNOB:

The fridge compartment knob is used for switching the refrigerator compartment on/off. If the knob is set to **OFF**, the fridge compartment is switched off. Turn the knob clockwise (away from the **OFF** position) to switch the fridge compartment on.

To switch it off, turn the knob anti-clockwise to the **OFF** position.

To select the lowest temperatures, turn the knob clockwise. Turn anti-clockwise to select the higher temperatures.

The refrigerator knob is also used to select the **Holiday** function (two beeps signal activation, one beep signals deactivation), indicated with a beach umbrella symbol (the function on this platform has the same characteristics as the Indesit New Electronic Cold Platform - Consult manual).



When this function is selected, the fridge compartment will be thermostat-controlled at around 12°C and the freezer compartment will be approx. -18°C.

Note.: to activate the I CARE function, the fridge and freezer knobs must both be set to the I CARE position.

2.3.3 SUPER FREEZE BUTTON:



The Super Freeze button is used for activating/deactivating the Super Freeze function for 24 / 48 hours for static appliances and for 24 hours for No Frost appliances.

To activate the 24 hour Super freeze function on static appliances, press the relative button, the indicator led will light up steady. This function operates with the same logic as appliances in the Indesit New Electronic Cold Platform (consult manual). The function is deactivated automatically when the maximum time has elapsed (24 hours) or once a given temperature has been reached and maintained for a time interval parameterised in the EEPROM memory.

To activate the 48 hour Super freeze function, press and hold the button for 3 seconds. The led

will flash to indicate that the function has been activated and will continue to flash for the first 24 hours, after which it will remain lit steady for the last 24 hours. This function has the same characteristics as appliances in the Indesit New Electronic Cold Platform (consult manual).

The function is deactivated automatically at the end of the 48 hours.

On No Frost products, the Super Freeze function can only be set for 24 hours. The function is activated by pressing the relative button and is deactivated automatically when the maximum time has elapsed (24 hours) or once a given temperature has been reached and maintained for a time interval parameterised in the EEPROM memory.

With both appliances, the function can be deactivated: by pressing the relative button again or switching off the appliance. In the event of a power failure while the function is activated, when the power is restored the PCB (which controls the function), will reactivate it, completing the remaining hours. In the event of an alarm mode, the function cannot be activated and if already active, the PCB will automatically deactivate it.

The Super Freeze function cannot be activated together with the **Holiday** function.

2.3.4 SUPER FRIDGE OR EVER FRESH BUTTON (depending on model):

To activate the Super Fridge function, press the relative button, the corresponding Led will light up to signal activation. The function is deactivated automatically upon completion of the cycles parameterised for this function on the PCB.

The function can be deactivated: by pressing the relative button again or switching off the refrigerator compartment or appliance.

In the event of a power failure while the function is activated, when the power is restored, the PCB (which controls the function), will reactivate it from where it was interrupted.

In the event of an alarm mode, the function cannot be activated and if already active, the PCB will automatically deactivate it.

The function cannot be activated if the Holiday function is already active.

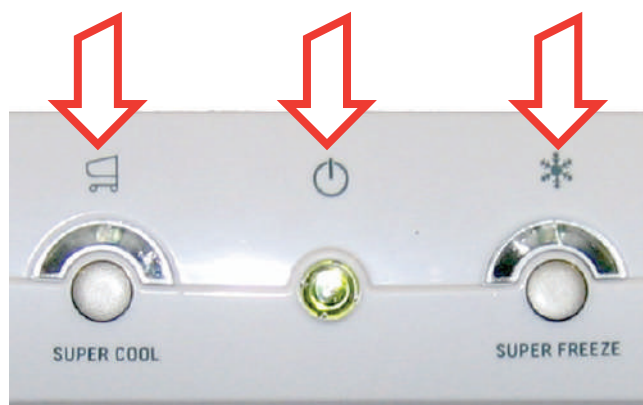


In other models with control knob interface, where available, this button is also used to activate the Ever Fresh function. For further information on the operation of this function, see chapter **PRODUCT CHARACTERISTICS**.

2.3.5 LEDs:

The appliances has 3 leds (from left to right):

1. Super Fridge (Ever Fresh) led which lights up when the user activates the Super Fridge function or, on some models (where featured), lights up when the user activates the Ever Fresh function.
2. Appliance Powered led which lights up automatically when the appliance is connected to the power supply.
3. Super Freeze led which lights up steady when the user activates the 24 hour Super Freeze function and flashes when the user activates the 48 hour Super Freeze function (only available on static appliances).



Another function of the Leds is to alert the user and/or technician to any Faults (see **Assistance chapter - Fault Table**).

2.4 APPLIANCES WITH TOUCH INTERFACE:

2.4.1 Switching the appliance ON/OFF:

To switch the appliance ON, press the **Power ON** button. The led changes from red to green and the I CARE function is automatically activated. The display shows the temperatures for the fridge and freezer compartments (+ 5 and -18 respectively) and the AUTO led lights up, the ICE CREAM function of the CCZ.

The user can now change/personalise settings.

To switch the appliance off, press the power button for two seconds. The corresponding led changes colour (from green to red) and all the control panel leds switch off.

2.4.2 SWITCHING THE FRIDGE COMPARTMENT ON/ OFF:

The fridge compartment switches on automatically when the appliance is switched on (see previous paragraph).

The refrigerator compartment can be switched off by then pressing the “-” button, the temperature will reach +2°C, press again and the display will show “- -”, indicating that the compartment is switched off. To switch it back on again, press “+”, the display will show +2°C, continue pressing the button to obtain the desired temperature.

2.4.3 SETTING FUNCTIONS:

All available functions are highlighted on the control panel with special symbols.

To activate a function, simply press the relative button; the corresponding led will light up to indicate that the function has been selected.

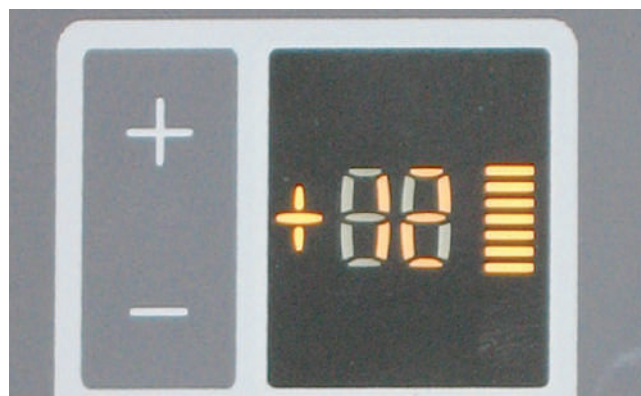
Those functions having a duration parameterised in the EEPROM memory will end once the exit conditions are met or, when the function button is pressed again.



2.4.4 SETTING FRIDGE AND FREEZER TEMPERATURE:

When the appliance is switched on, the **I CARE** function is automatically activated (see details of **I CARE** function) and the display shows +5°C for the fridge compartment and -18°C for the freezer compartment. The **AUTO** led lights up.

To change the temperatures simply press the “+” or “-” button next to the relative display (fridge or freezer display) to increase or decrease the temperature of the desired compartment. When the temperature in one of the compartments is changed, the “**AUTO**” led switches off.



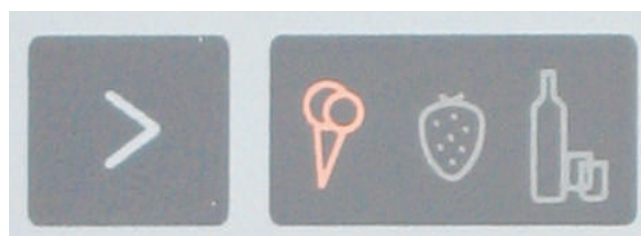
2.4.5 ACTIVATING THE VARIABLE TEMPERATURE COMPARTMENT (C.C.Z.):

When the appliance is switched on, the variable temperature compartment is activated and the display shows the **ICE CREAM** symbol (-12°C).

Press the arrow (left of the symbol) to change the setting and select the desired temperature or to switch off the compartment (in this case, no symbol will remain lit) and use it as simply another freezer drawer.

The setting options for this compartment are as follows:

- a. **STRAWBERRY** symbol, for a temperature of -8°C.
- b. **ICE CREAM** symbol, maintains the C.C.Z. temperature at approx. -12°C and,



3. **BOTTLE** symbol, for a temperature of approx. -18°C.
4. All leds switch off, which means the compartment operates as a normal freezer drawer.

2.4.6 APPLIANCE SPECIAL FUNCTIONS



HOLIDAY Function:

For details of this function, see the Indesit New Electronic Cold Platform manual.

When the Holiday function is active, the Ever Fresh function can be activated, the temperature in the variable temperature compartment can be changed and the child lock can be activated/deactivated.



ICE PARTY Function:

This function enables the user to chill a bottle (Champagne, wine, ...) in the freezer compartment as quickly as possible. The appliance will force the compressor to run continuously in order to have the maximum refrigerating power and rapidly chill the bottle. After 30 minutes, the time parameterised in the EEPROM for this function, the display and an acoustic signal alert the user to remove the bottle in order to prevent it from breaking.

The function is activated by pressing the corresponding function button. The function is deactivated at the end of the set time or by pressing the function button again, after which the appliance will continue with normal operation.

At the end of the function, when end of function conditions are met, the appliance emits an acoustic signal and the led starts flashing, alerting the user to remove the bottle. To exit the function, the user must press the button until the function led indicator stops flashing.

The function cannot be activated in an alarm condition or in tandem with the HOLIDAY function. Activation of the HOLIDAY function automatically deactivates the ICE PARTY function and activates the corresponding buzzer and led, prompting the user to remove the bottle.

The I CARE or SUPER FREEZER functions can be activated but will start at the end of the ICE PARTY function.

IMPORTANT: In the event of a power failure during the I CARE function, when the power supply is restored the function will not be reactivated and the end of function signal will be activated immediately.



Super Freeze Function:

See the Super Freeze function of the Indesit New Electronic Cold Platform (24 hour version for No Frost models and 24/48 hour version for Static models).



Super Fridge Function:

See the Super Fridge function of the Indesit New Electronic Platform.



Child Lock:

The Child Lock function is designed to prevent accidental changes to appliance settings.

To activate the function, press and hold the “Alarm” button for two seconds, the display shows “LO CH” and the buzzer emits a short beep. The appliance shows “LO CH” on the display for the time parameterised in the EEPROM memory while the function remains active.

The function is deactivated by pressing the “Alarm” button again for two seconds. The buzzer beeps and the message “CH OF” appears on the display, confirming exit from the function.

In the event of a temperature alarm, an Ever Fresh or door open alarm, or if the ICE-PARTY function ends or a Fault is detected, these situation take priority, halting and deactivating the Child Lock. When the alarm situation is over, the Child Lock function WILL NOT be reactivated automatically.

In the event of a power failure, when power is restored the function will be reactivated automatically.



I CARE:

For appliances with control knob interface, the **I CARE** function, featured on the Ariston New Electronic Cold Platform, is identical to the **ECO** function on the Indesit New Electronic Cold Platform.

For appliances with TOUCH interface, this function is activated automatically when the appliance is switched on. The Auto led also lights up automatically, only switching off if and when the user changes the preset temperature.

If the user changes the temperature and later reverts to the temperatures managed by **I CARE** manually, the Auto led will not light up again and the PCB will not switch the solenoid valve before switching off the compressor at the end of the cooling demand from the fridge compartment. In short, the appliance will operate as a normal appliance with normal temperature settings. To once again activate function, the user must set the **I CARE** function by pressing the relative button.

The temperature bands can be changed without exiting the **I CARE** function.

To do this, hold the function button down and, at the same time, press the temperature change buttons for the desired compartment. The variation options are:

Fridge compartment: +4°C, +5°C, +6°C.

Freezer compartment: -18°C, -19°C, -20°C.



EVER FRESH (Where available):

This function enables the user to store vacuum packed food for a prolonged period of time.

Before pressing the button to select the function, the user must set the ring of the container to "Vacuum empty" and insert the container in the allotted space, pulling the internal button on the shelf and activating Ever Fresh function with the button. When the user activates the function (pressing the function button with the appliance on), the PCB activates a TRIAC which in turn switches on the vacuum pump.



The function is deactivated automatically when the PCB receives Feed Back from the vacuum switch indicating that air has been removed from the container, or by pressing the Ever Fresh button again or switching off the fridge compartment (only for appliances with control knobs) or the entire appliance. In the event the vacuum pump continues running, for a period of time established as the maximum parameter, the pump will be deactivated and the function will enter alarm mode.

In appliances with Led interface, when in alarm mode the relative Led will flash and the buzzer will beep twice. In appliances with TOUCH interface the Led will change colour (from blue to red), it will also start flashing and the buzzer will beep twice. In both cases, to reset the alarm simply press the Ever Fresh button.

Note.: entering alarm mode automatically results in deactivation of the function. This function does not interact with other appliance functions and cannot be activated when the appliance is switched off.

2.5 PRODUCT CHARACTERISTICS:

SURROUND:

The innovative **SURROUND** refrigeration system featured on all Ariston Full No Frost refrigerators guarantees a uniform temperature throughout the refrigeration compartment thanks to numerous ventilation cells.

It is easy to identify since inside the fridge an extension of the multiflow which reaches to the very roof of the compartment is clearly visible.

The Surround system It is managed by the appliance's main PCB which controls a stepper type electronic damper with three positions:

- a. **Closed:** when there is no cooling demand from the fridge compartment. In this case there is no air circulation inside the compartment.
- b. **Open 45°:** which allows circulation of air through the multiflow column. This grading occurs when the user selects any function other than **I CARE** or **Super Fridge**, and therefore, the **SURROUND** system is not activated.
- c. **Open 90°:** In this case the **SURROUND** system is active and the four vents are operational (with air flow). The electronic circuit board will open the **Damper** at 90°. The **SURROUND** system will be activated by the PCB automatically if the user has set the **I CARE** and/or **Super Fridge** function on the control panel.



Control Care Zone (C.C.Z.):



The Control Care Zone (C.C.Z.) or variable temperature compartment is an area of the freezer (top drawer) which allows the user to set a different temperature compared to the rest of the freezer compartment (which will operate as a normal freezer). The setting options are: -8°C represented by the **STRAWBERRY** symbol,

-12°C represented by the **ICE CREAM** and, -18°C represented by a **BOTTLE**.

Note.: with **C.C.Z.** switched off, the drawer in question operates as a normal freezer compartment drawer, both in **Static** and **No Frost** appliances.



2.6 STATIC APPLIANCES:

To introduce this technology in static appliances, the following thermodynamic changes had to be made: There are two solenoid valves instead of one, physically positioned in "series" (cascade connection), and three capillary tubes as opposed to two; all electronically controlled as follows:

E.V.1-ON / E.V.2-Off (Capillary 1):

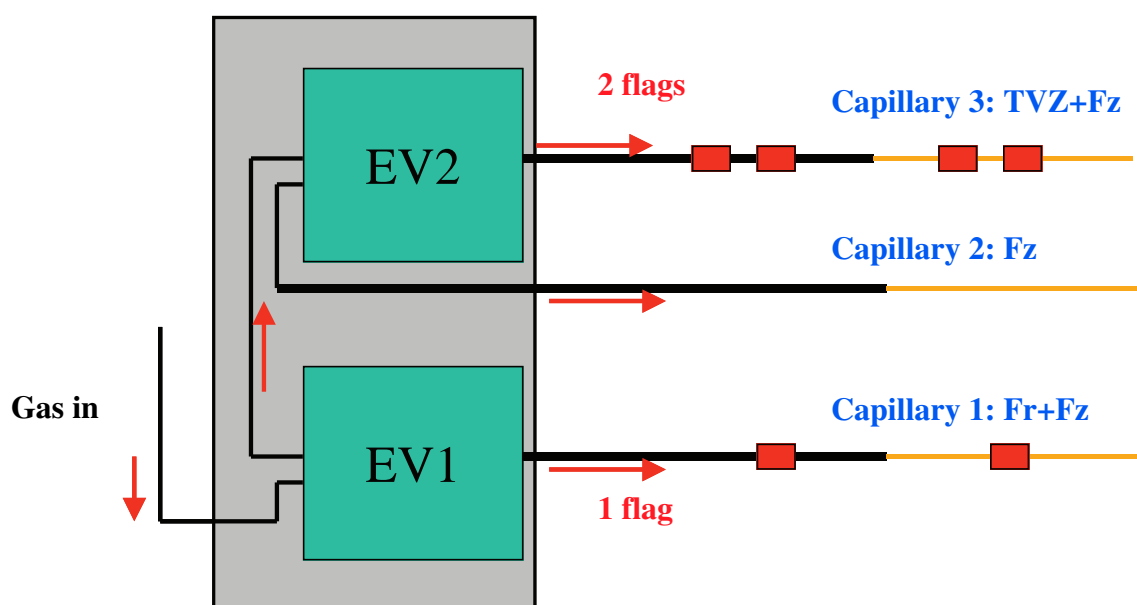
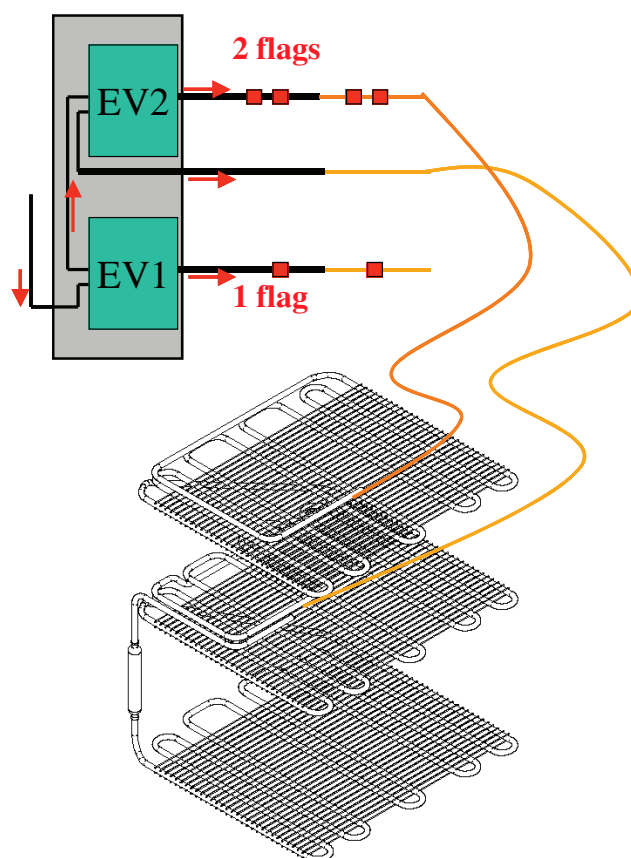
The gas is sent first to the fridge evaporator and then to the freezer evaporator, as in traditional models.

E.V.1-Off / E.V.2-Off (Capillary 2):

Here the gas is sent only to the freezer compartment (not to the CCZ).

E.V.1-Off / E.V.2-On (Capillary 3):

In this case, the gas is sent first to the variable temperature compartment and then to the freezer compartment.



2.7 FULL NO FROST APPLIANCES:

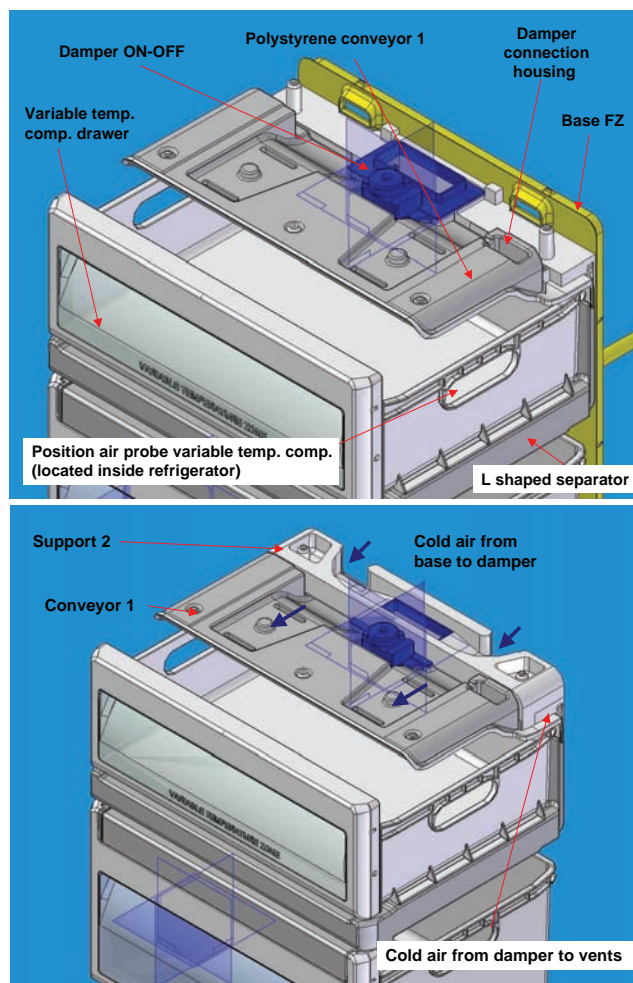
In Full No Frost appliances, a secondary On/Off type damper (different from the stepper type used in the fridge compartment) has been fitted; when there is a cooling demand from the variable temperature compartment (C.C.Z.), the PCB activates the compressor and after a period of time parameterised in the EEPROM memory it activates the fan and opens the damper, thus cooling the latter.

The setting options are: -8°C represented by a STRAWBERRY, -12°C represented by an ICE CREAM and, -18°C represented by a BOTTLE.

In the case of defrosting, there is a pre-defrosting procedure when the fan is activated and the damper is opened for a period of time parameterised in the eeprom memory.

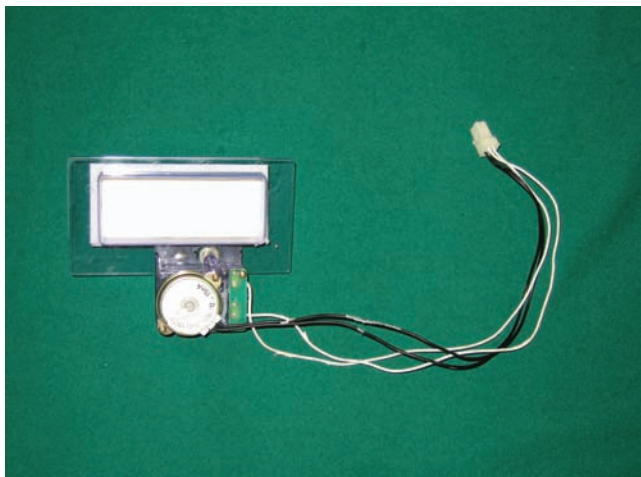
For the defrosting characteristics/procedure, consult the Indesit New Cold Platform manual.

After defrosting, the compressor continues running for a period of time prior to the opening of the secondary damper in order to prevent circulation of any warm air.

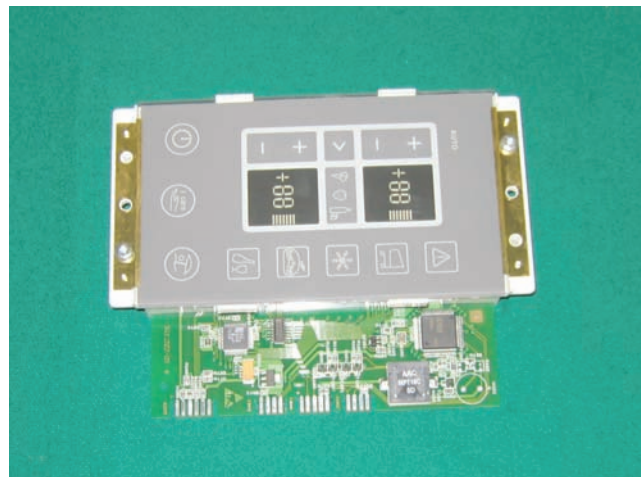


3. COMPONENTS:

ELECTRONIC THERMOSTAT NO FROST COMBI.



Damper



Display PCB

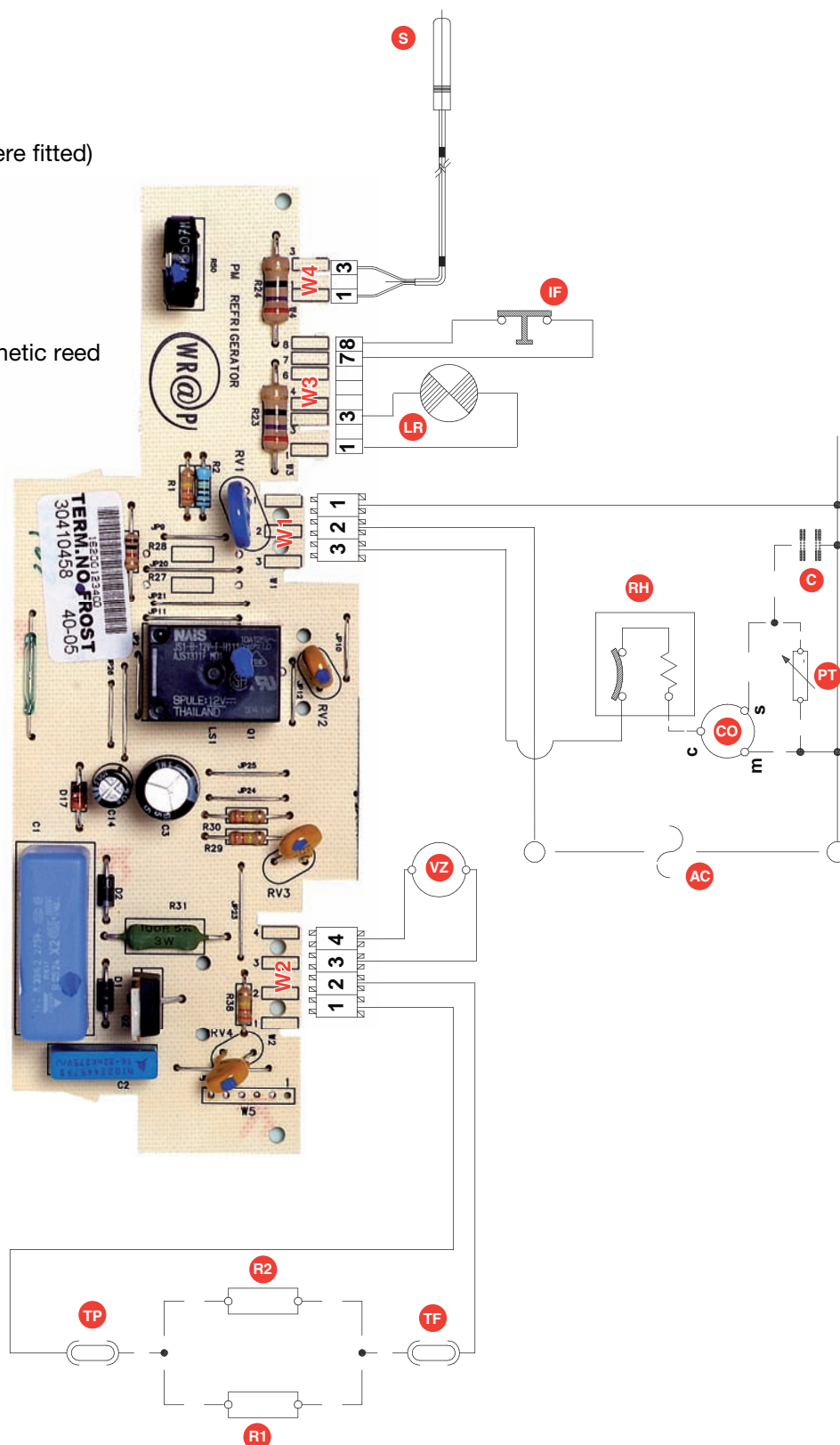


Variable temperature compartment separator panel

4. WIRING DIAGRAMS:

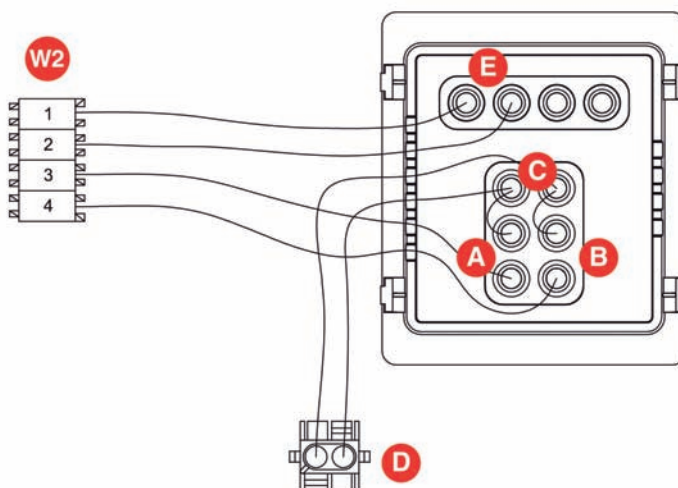
Legend

- AC Power supply
- CO Compressor
- PT Starter relay
- C Running condenser (where fitted)
- RH Klixon thermoprotector
- VZ NF freezer fan
- R1, R2 Defrosting element
- TF Thermo fuse
- TP Thermoprotector
- IF Fridge door button/magnetic reed
- LR Fridge light
- S Fridge air probe



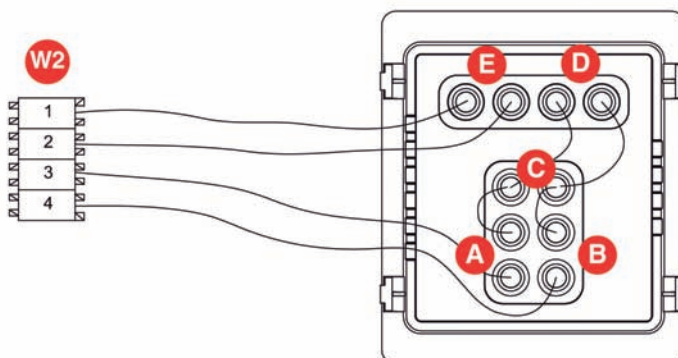
Wiring diagram for Combi No Frost

- A Thermo fuse
- B Thermoprotector
- C Evaporator element
- D Drip tray element
- E Freezer fan



Wiring Diagram Double Door No Frost

- A Thermo fuse
- B Thermoprotector
- C Evaporator element
- D Drip tray element
- E Freezer fan

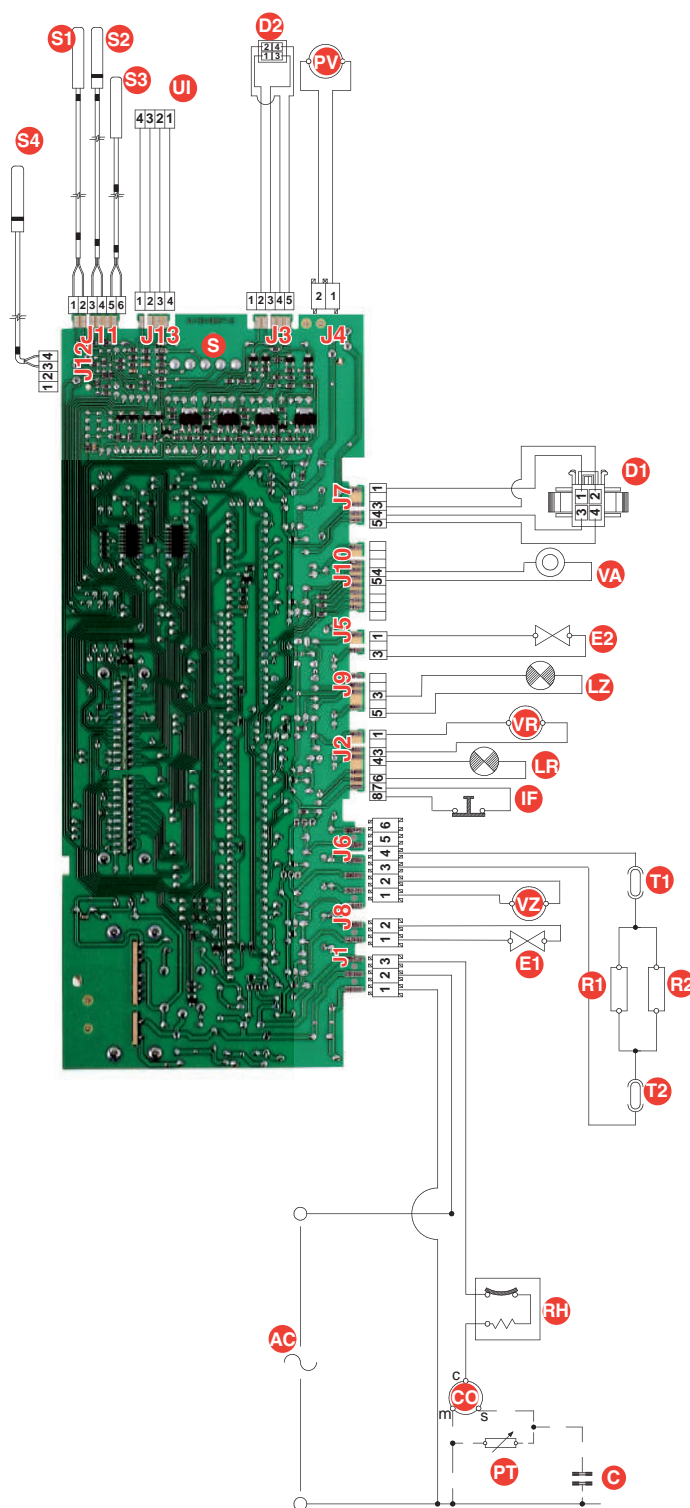


CONNECTIONS	COMBI NO-FROST MECHANICAL	DOUBLE DOOR NO-FROST MECHANICAL
W 1	YES	YES
W 2	YES	YES
W 3	YES WITHOUT IF	YES
PROBES	YES	YES

4.2 FULL WIRING DIAGRAM

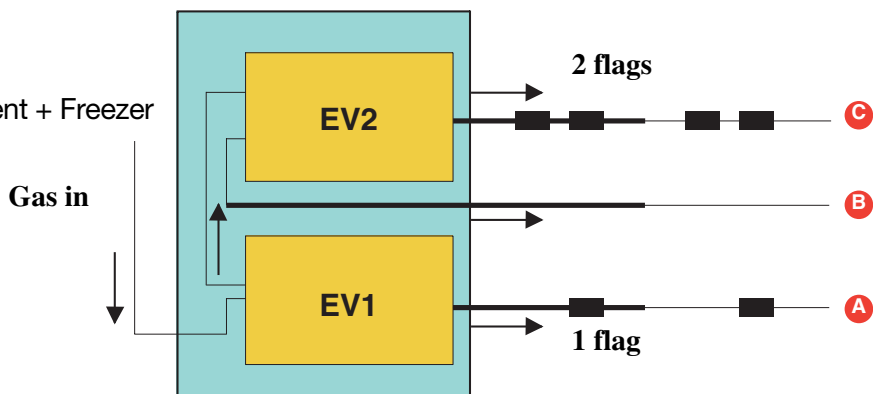
Legend

- AC Power supply
- CO Compressor
- PT Starter relay
- C Running condenser (where fitted)
- RH Klixon thermoprotector
- E1 Solenoid valve
- VZ NF freezer fan
- R1, R2 Defrosting element
- T1, T2 Thermo fuse
- IF Fridge door button/magnetic reed
- LR Fridge light
- VR AIR fridge fan
- LZ Freezer light
- E2 Variable temperature compartment solenoid valve
- VA Vacuum switch (no measurable signal)
- D1 Variable temperature compartment damper on/off switch (J7 pin 1-3 power supply 100V, pin 4-5 open/close reed limit switch)
- PV Vacuum pump
- D2 Stepper damper (12V signal not measurable)
- S Serial line
- UI Interface card with microprocessor (J13 pin 3-4 power supply 12V, with ref. to 220V do not touch the powered card)
- S1 Evaporator probe (fridge for static models, freezer for NF)
- S2 Fridge air probe
- S3 Freezer air probe
- S4 Variable temperature compartment air probe



Solenoid valve diagram for variable temperature compartment (CCZ)

- A Capillary 1: Fridge fridge
- B Capillary 2: Freezer
- C Capillary 3: Special compartment + Freezer



Wiring diagram for Combi No Frost

- A Thermo fuse
- B Thermo fuse
- C Evaporator element
- D Drip tray element
- E Freezer fan

CONNECTIONS	STATIC CCZ TOUCH	STATIC CCZ UI LED	NO-FROST CCZ EF TOUCH	NO-FROST EF UI LED
J 1	YES	YES	YES	YES
J 2	YES	AIR (1-3) LAMP. FR (4-6)	LAMP. FR (4-6) INT. FR (4-6)	LAMP. FR (4-6)
J 3	----	----	YES	YES
J 4	----	----	YES	YES
J 5	YES	YES	----	----
J 6	----	----	DEFROST.EL. FREEZ.FAN (3-4) (5-6)	DEFROST.EL. FREEZ.FAN (3-4) (5-6)
J 7	----	----	YES	----
J 8	YES	YES	----	----
J 9	----	----	----	----
J 10	----	----	VACUUM SWITCH (5-6)	VACUUM SWITCH (5-6)
J 11	YES	YES	YES	YES
J 12	VS AIR PROBE (3-4)	VS AIR PROBE (3-4)	VS AIR PROBE (3-4)	----
J 13	YES	YES	YES	YES

5. ASSISTANCE:

5.1. DEMO MODE:

This mode is not available in products with Electronic Thermostat or Control Knob Interface.

For appliances with Touch Interface, without any great energy consumption (approx. 3 W) the Demo Mode makes it possible to show the appliance's full potential, so it appears as if the appliance is switched on and operating normally, but without any load.

To activate the DEMO mode, simply switch off the appliance (**On/Off** button) and press the **I CARE + HOLIDAY** buttons at the same time for six seconds. The fridge and freezer displays will show "dEon" and the Buzzer will beep.

To deactivate and return to normal operation, press the same buttons (**I CARE + HOLIDAY**) for three seconds. The displays will show "dEoF" and the buzzer will beep again.

During Demo mode, every six seconds the fridge and freezer displays will show "dEon" for around two seconds. In the event of a power failure, when power is restored the appliance will continue in **DEMO** mode.



5.2. AUTO TEST:

AUTOTEST in appliances with **Electronic Thermostat**:

Electronic Thermostat Autotest:

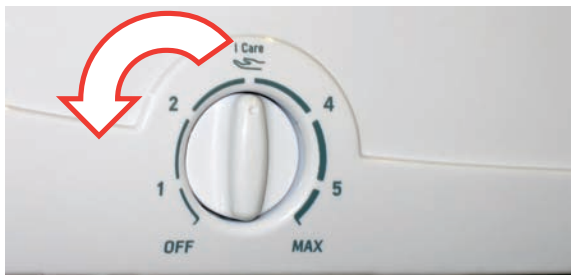
The Autotest function is activated by carrying out the following movements with the thermostat knob:



1. Turn the thermostat knob to the minimum setting (appliance **OFF**)



2. Turn the knob from **OFF** to the maximum setting.



3. Turn the knob from maximum to minimum (appliance OFF).

The function terminates automatically after 255 seconds.

AUTOTEST in Appliances with Knob

Controls:

To activate the Autotest procedure, turn the Fridge and Freezer knobs to OFF and press the Super Freeze button for more than 3 seconds (all the leds light up for 5 seconds).

The function terminates automatically after 255 seconds (time parameterised for the autotest) or, it can be terminated by the user by switching on the appliance using the freezer knob or by disconnecting and reconnecting the mains power supply. The buzzer emits a beep to signal activation and deactivation.

It is possible to halt or exit the AUTOTEST function by switching the appliance on with the thermostat knob or by disconnecting the appliance from the power supply and then reconnecting it.

With regard to appliance loads driven by the PCB during the autotest procedure, any faults will be signaled by flashing of the fridge lamp.

Note.: remember the important points with regard to Autotest on these appliances.



Any faults will be signaled by flashing of the three Leds on the control panel. As regards the sensors, any faults will be signaled by the three Leds and the flashing of the fridge lamp at the same time.

AUTOTEST in appliances with TOUCH interface:

To activate the AUTOTEST procedure, turn the appliance off (On/Off button) and press the following buttons at the same time for six seconds: Super Cool + Super Freeze + Ice Party. Upon activation, the red led "Ever Fresh" (where featured) lights up for 2 seconds, after which all the leds light up for 5 seconds (Ever Fresh blue).

The function terminates automatically after 255 seconds (time parameterised for the autotest) or, it can be terminated by the user by switching on the appliance (pressing the On/Off button) or by disconnecting and reconnecting the mains power supply. The buzzer emits a beep to signal activation and deactivation.



5.3 AUTOTEST SEQUENCE:

Model: ELECTRONIC THERMOSTAT

Duration of Autotest procedure: 255 seconds.

Test sequence:

1. test defrosting element (8 seconds) pause 3 seconds
2. test freezer air probe (8 seconds) pause 3 seconds
3. test freezer fan (8 seconds) pause 3 seconds
4. Element and fan on for approx. 230 seconds.

Fault signalling: After each step the appliance light switches on steady to indicate that the test detected no faults, or flashing to indicate faults.

Note. do not forget the important points for correct autotest sequence (e.g.: the Freezer compartment temperature must be below -10°C).



Model: COMBI NO-FROST BASIC



Duration of Autotest procedure: 255 seconds.

Test sequence: The probes are tested for the first 5 seconds. 10 seconds after Autotest activation, the freezer fan and defrost elements switch on and remain in operation until the end of the test. 10 seconds after activation of the Autotest, the electronic damper is opened for 125 seconds and then closes again at the end of the autotest.

Fault signalling: Any faults are signaled by a specific combination of leds on the interface. In the event of Probe faults, the fridge lamp will also flash.

Model: COMBI STATIC BASIC



Duration of Autotest procedure: 255 seconds.

Test sequence: The probes are tested for the first 5 seconds of the procedure. 10 seconds after Autotest activation, the freezer fan switches on and runs until the end of the procedure.

Fault signalling: Any faults are signalled by a specific combination of leds on the interface. In the event of Probe faults, the fridge lamp will also flash.

Model: COMBI STATIC BASIC with CCZ

Duration of Autotest procedure: 255 seconds.

Test sequence: The probes are tested for the first 5 seconds of the procedure. 10 seconds after Autotest activation, the freezer fan switches on and runs until the end of the procedure.

Fault signalling: Fault signalling: Any faults are signalled by a specific combination of leds on the interface. In the event of Probe faults, the fridge lamp will also flash.

Model: COMBI STATIC TOUCH with CCZ

Duration of Autotest procedure: 255 seconds.

Test sequence: The probes are tested for the first 5 seconds of the procedure. 10 seconds after Autotest activation, the freezer fan switches on and runs until the end of the procedure.

Fault signalling: Any faults are signalled on the fridge and freezer displays (e.g. F01). In the event of Probe faults, the fridge lamp will also flash.

**Model: COMBI NO-FROST TOUCH with CCZ and Ever Fresh**

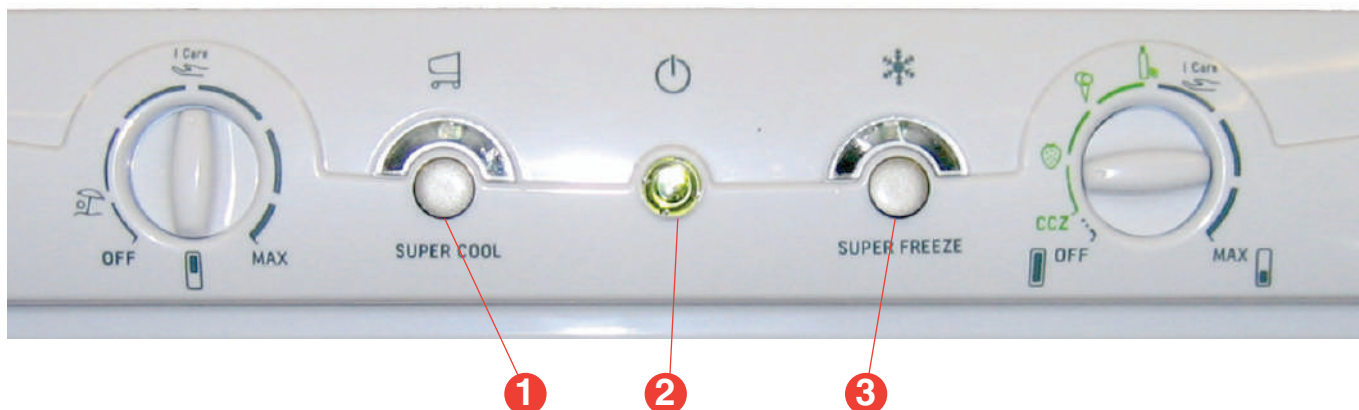
Duration of Autotest procedure: 255 seconds.

Test sequence: The probes are tested for the first 5 seconds. 10 seconds after Autotest activation, the freezer fan and defrost elements switch on and remain in operation until the end of the test. 10 seconds after activation of the Autotest, the electronic damper is opened for 125 seconds and then closes again at the end of the autotest. 10 seconds after activation of the Autotest, the electronic damper in the variable temperature compartment is opened for 125 seconds and then closes again at the end of the autotest.

Fault signalling: Any faults are signalled on the fridge and freezer displays (e.g. F01). In the event of Probe faults, the fridge lamp will also flash.



5.4 LED INDICATED FAULTS AND SOLUTIONS:



Legend: 1 = LED 1; 2 = LED 2; 3 = LED 3;

Reading of faults shown by LEDs

The control panel LEDs light up, to signal the fault, according to the following table (the LEDs stay on while the fault lasts).

Faults	Signal		
	LED 1	LED 2	LED 3
F01	off	Flashing	off
F02	on	Flashing	off
F03	off	Flashing	on
F04	on	Flashing	on
F05	Flashing	Flashing	on
F06	on	Flashing	Flashing
F07	off	Flashing	Flashing
F08	Flashing	Flashing	off
F09	Flashing	Flashing	Flashing
F12	off	off	on
F14	on	off	on
F21	on	on	Flashing
F22	Flashing	on	on
F23	Flashing	on	Flashing
F24	off	on	Flashing
F25	on	off	Flashing

Table. Led Faults **Blocking Faults** **Non-blocking Faults**

FAULT	CAUSE	CORRECTIVE ACTIONS
F1	Compressor relay sticking	<ul style="list-style-type: none"> - Check for water leaks that may affect connector J1 causing the relative contacts to short; - Check motor terminal board (possible problems due to incorrect connection which may cause short-circuits); - Renew motor; - Renew PCB.
F2	Compressor relay open	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J1 on the PCB; - Check on wiring connector J1 between pins 3 and 2 for an impedance value that is compatible with the value given in the specific table. - Check that the compressor is not stopped due to overtemperature conditions (thermal cutout open) - Renew motor; - Renew PCB.
F3	Faulty power board	<ul style="list-style-type: none"> - Renew PCB.
F4	Freezer fan unit does not run	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J6 on the PCB; - Check impedance on wiring connector J6 between pins 2 and 1 checking that the value is compatible with the value given in the relevant table; - Check correct connection of the freezer fan on the freezer compartment wiring junction box; - Renew freezer fan unit; - Renew PCB.
F5	Electronic damper does not close/open	<ul style="list-style-type: none"> - Check efficiency of J3 connector contacts on PCB; - Check efficiency of connection of electronic damper at foam protected connector behind multiflow; - Renew electronic damper; - Renew PCB.
F6	Triac driving defrost heating element short-circuit	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J6 on the PCB; - Check condition by checking for impedance on wiring connector J6 pins 3 and 4; - Check connections of the defrost heating elements and possible short circuits on the freezer compartment wiring junction box; - Renew heating element. - Renew PCB
F7	No power draw of defrost heating element	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J6 on the PCB; - Check for continuity of the defrost heating element on pins 3 and 4 of connector J6, ensuring that the impedance value read is compatible with the value given in the relevant table; - Check for correct connection of the defrost heating element and the drip tray heating element on the freezer compartment wiring junction box; - Check the correct impedance value on the defrost heating element across the heating element terminals; - Check that the fuses have not blown; - Renew defrost heating element; - Renew PCB.
F8	Incorrect switching of solenoid valve	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J8 on the PCB; - Check for impedance on wiring connector J8 pins 1 and 2 and ensure that the value is compatible with the value given in the relevant table; - Check correct switching of the solenoid valve With the compressor running, check that the solenoid valve switches when the refrigerator compartment is set to OFF. - Renew solenoid valve; - Renew PCB.
F9	File setup error (EEPROM not programmed or faulty)	<ul style="list-style-type: none"> - In the case of a production PCB, renew PCB and EEPROM; - In the case of replacement PCB and EEPROM, check correct insertion of EEPROM in PCB socket.

FAULT	CAUSE	CORRECTIVE ACTIONS
F10	NO-FROST Models: Faulty ON/OFF DAMPER STATIC Models with CCZ: SECONDARY SOLENOID VALVE FAULT	NO-FROST Models: Faulty ON/OFF DAMPER <ul style="list-style-type: none"> - Check efficiency of contacts on connector J7 on the PCB; - Check efficiency of the damper connection to the connector inside the air duct in the variable temperature refrigerator compartment; - Renew ON/OFF damper; - Renew PCB. CCZ STATIC models with SECONDARY SOLENOID VALVE fault <ul style="list-style-type: none"> - Check efficiency of contacts on connector J5 on PCB; - Check impedance on wiring connector J5 pins 1 and 2, ensuring that the value is compatible with the value given in the relevant table; - Check correct switching of the solenoid valve. With the compressor running, check that the solenoid valve switches when the variable temperature compartment is set to OFF. - Renew solenoid valve; - Renew PCB. Check
F12	No communication between display PCB and control PCB	For LED interface PCB: <ul style="list-style-type: none"> - Check efficiency of contacts on connector J13 on PCB; - Check continuity of connector J13 / LED PCB 5-way and 7-way connectors; - Renew main PCB; - Renew display PCB; For Indesit digit interface PCB and Ariston LED interface PCB on appliances with CCZ and/or Ever Fresh System: <ul style="list-style-type: none"> - Check efficiency of contacts on connector J13 on PCB; - Check continuity of connector J13/ interface PCB 4-way connector; - Renew main PCB; - Renew display PCB. For Touch interface PCB: <ul style="list-style-type: none"> - Check efficiency of contacts on connector J13 on PCB; - Check continuity of connector J13/interface PCB 4-way connector; - Check continuity of connector J13/connector inside cabinet control panel; - Check continuity of connector inside cabinet control panel / interface PCB 4-way connector; - Renew main PCB; - Renew display PCB.
F14	Faulty power board	<ul style="list-style-type: none"> - Renew PCB.
F16	Fridge fan unit does not run	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J2 on PCB; - Check for impedance on wiring connector J2 pins 3 and 1, ensuring that the value read is compatible with the value given in the relevant table; - Check correct connection of the fridge fan inside refrigerator compartment; - Renew fridge fan unit; - Renew main PCB.
F17	Vacuum pump does not work	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J4 on PCB; - Check impedance on wiring connector J4 pins 1 and 2, ensuring that the value read is compatible with the value given in the relevant table; - Renew vacuum pump; - Renew main PCB.
F20	Fridge lamp fails to switch on	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J2 on PCB; - Check for impedance on wiring connector J2 pins 4 and 6; - Renew lamps; - Renew main PCB.
F21	NTC ambient probe UI	<ul style="list-style-type: none"> - Renew main PCB.
F22	FRIDGE Air NTC probe open / short circuit	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J11 on the PCB; - Check NTC probe, ensuring that the impedance value read on pins 3 and 4 of wiring connector J11 is compatible with the values in the temperature-impedance correlation table (also heat the probe by holding it with your hand where possible and checking the change in the impedance value); - Renew main PCB.

FAULT	CAUSE	CORRECTIVE ACTIONS
F23	FRIDGE Evaporator NTC probe open / short-circuit	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J11 on the PCB; - Check NTC probe, ensuring that the impedance value read on pins 1 and 2 of wiring connector J11 is compatible with the values in the temperature-impedance correlation table (also heat the probe by holding it with your hand where possible and checking the change in the impedance value); - Renew main PCB.
F24	FREEZER Air NTC probe open / short-circuit	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J11 on the PCB; - Check NTC probe, ensuring that the impedance value read on pins 5 and 6 of wiring connector J11 is compatible with the values in the temperature-impedance correlation table (also heat the probe by holding it with your hand where possible and checking the change in the impedance value); - Renew main PCB.
F25	FREEZER Evaporator NTC probe open / short-circuit	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J11 on the PCB; - Check NTC probe, ensuring that the impedance value read on pins 1 and 2 of wiring connector J11 is compatible with the values in the temperature-impedance correlation table (also heat the probe by holding it with your hand where possible and checking the change in the impedance value); - Renew main PCB.
F26	CCZ Air NTC probe open / short-circuit	<ul style="list-style-type: none"> - Check efficiency of contacts on connector J12 on the PCB; - Check NTC probe, ensuring that the impedance value read on pins 3 and 4 of wiring connector J11 is compatible with the values in the temperature-impedance correlation table (also heat the probe by holding it with your hand where possible and checking the change in the impedance value); - Renew main PCB.
F28	Display PCB does not work	<ul style="list-style-type: none"> - Renew Touch display PCB
F40	“ON/OFF” button does not work	<ul style="list-style-type: none"> - Renew Touch display PCB
F41	“I Care” button does not work	<ul style="list-style-type: none"> - Renew Touch display PCB
F42	“Holiday” button does not work	<ul style="list-style-type: none"> - Renew Touch display PCB
F43	“ICE PARTY” button	<ul style="list-style-type: none"> - Renew Touch display PCB
F44	“Ever Fresh” button	<ul style="list-style-type: none"> - Renew Touch display PCB
F45	“Super Freeze” button	<ul style="list-style-type: none"> - Renew Touch display PCB
F46	“Super Cool” button	<ul style="list-style-type: none"> - Renew Touch display PCB
F47	“Alarm” button	<ul style="list-style-type: none"> - Renew Touch display PCB
F49	FRIDGE “+” button	<ul style="list-style-type: none"> - Renew Touch display PCB
F50	FRIDGE “-” button	<ul style="list-style-type: none"> - Renew Touch display PCB
F51	CCZ button	<ul style="list-style-type: none"> - Renew Touch display PCB
F52	FREEZER “+” button	<ul style="list-style-type: none"> - Renew Touch display PCB
F53	FREEZER “-” button	<ul style="list-style-type: none"> - Renew Touch display PCB

5.6 Troubleshooting:

FAULT	REMEDY
Fails to switch on.	<ul style="list-style-type: none"> - Check voltage on mains socket outlet. - Check power cord.
Compressor fails to start.	<ul style="list-style-type: none"> - Check continuity of windings. - Check operation of Klixon relay. - Faulty PCB. - Appliance set to OFF.
Compressor runs but appliance fails to cool.	<ul style="list-style-type: none"> - Compressor is cold - check refrigerant charge. - Compressor is very hot - Check for traces of oil or refrigerant circuit is blocked. - Check for possible faulty compressor.
Compressor unable to start.	<ul style="list-style-type: none"> - Faulty Klixon relay. - Faulty compressor. - Mains voltage too low.
Water under crisper drawers.	<ul style="list-style-type: none"> - Drain hole blocked. - Container or wrapping paper touching refrigeration walls.
Water on floor.	<ul style="list-style-type: none"> - Condensation collection bowl ruptured. - Water drain tube incorrectly positioned. - Condensation collection bowl not in contact with compressor.
Compressor fails to stop.	<ul style="list-style-type: none"> - Faulty thermostat. - Incorrectly positioned thermostat. - Unsuitable electrical installation on Klixon. - Door closure fault. - Refrigerant circuit insufficient charge or blocked.
Compressor fails to start.	<ul style="list-style-type: none"> - Damaged compressor. - Check Thermostat/PCB.
Door open alarm sounds continuously.	<ul style="list-style-type: none"> - No magnet in door. - Faulty PCB. - Door is distorted.
Display switches off occasionally.	<ul style="list-style-type: none"> - Check display cable. - Check display PCB.
For No-Frost: Compartments are not very cold.	<ul style="list-style-type: none"> - Evaporator coil clogged with ice. - Check thermo fuse. - Check heating elements.
For No-Frost: Refrigerator compartment not cold enough.	<ul style="list-style-type: none"> - Chilled air suction fan motor. - Ice has formed in the duct between the refrigerator and freezer compartments.
For No-Frost: Refrigerator compartment too cold - food tends to freeze.	<ul style="list-style-type: none"> - Check temperature probes. - Damper does not close properly

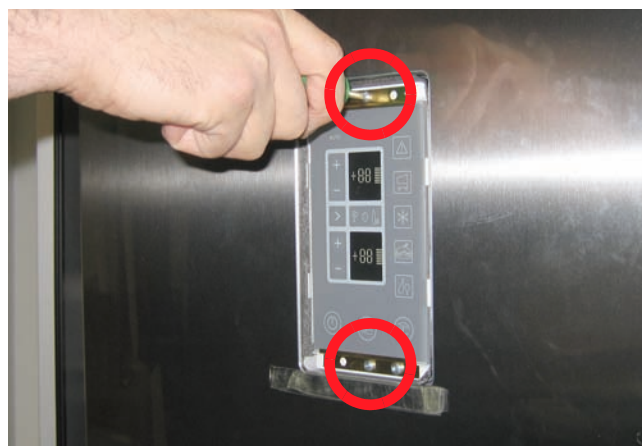
5.7 DISMANTLING:

5.7.1 TOUCH INTERFACE:

Removing the Display PCB:



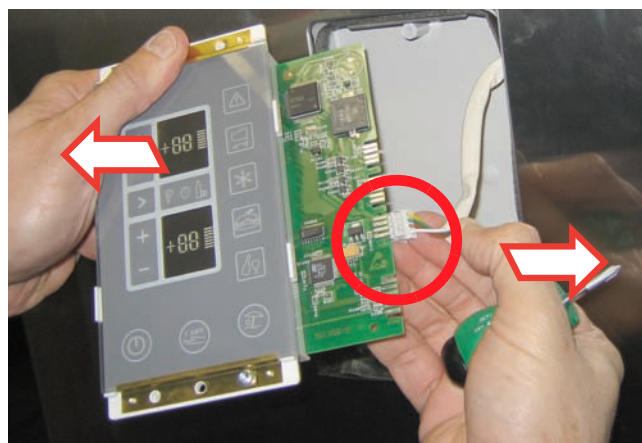
1. Attach some adhesive tape to the bottom of the PCB to prevent damage to the panel.



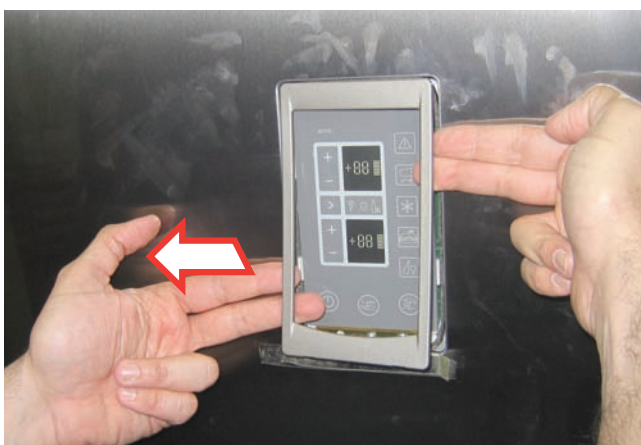
4. Release the 2 screws (one top, one bottom) that secure the PCB.



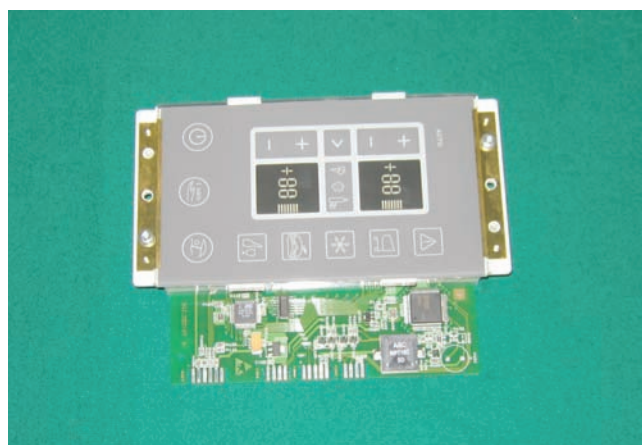
2. Using a screwdriver, prise the PCB off at the bottom on each side.



5. Pull to remove the PCB and disconnect the terminals.



3. Remove the surround carefully.



6. PCB disconnected.

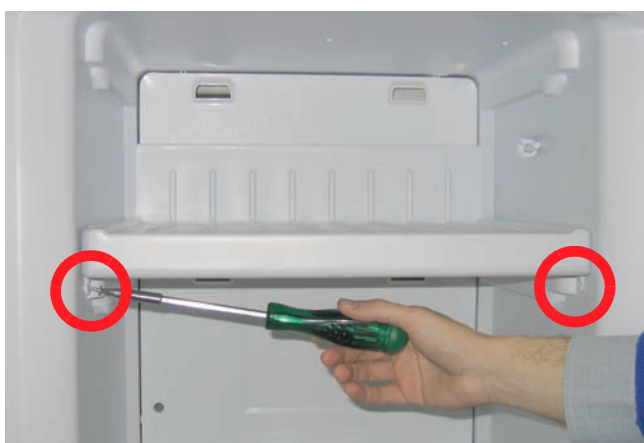
Removing components of the Variable Temperature Compartment:



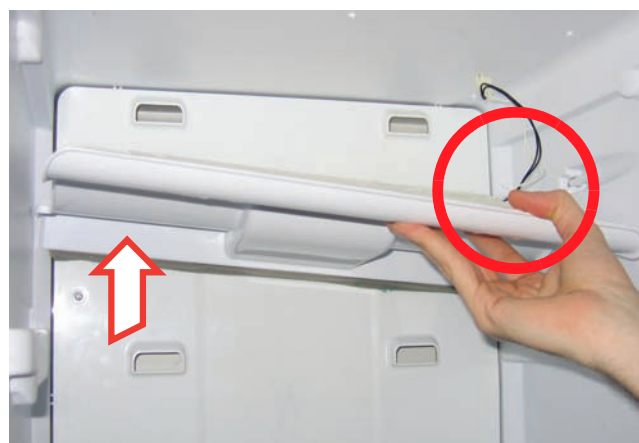
1. Remove the drawers from the freezer compartment.



4. Release the 5 screws of the freezer damper housing.



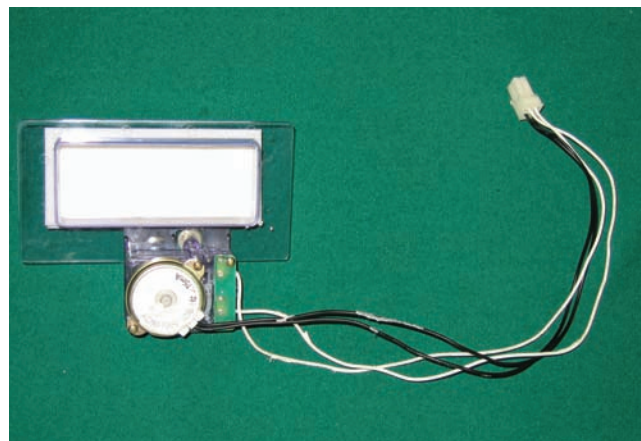
2. Release the screws of the shelf of the variable temperature compartment.



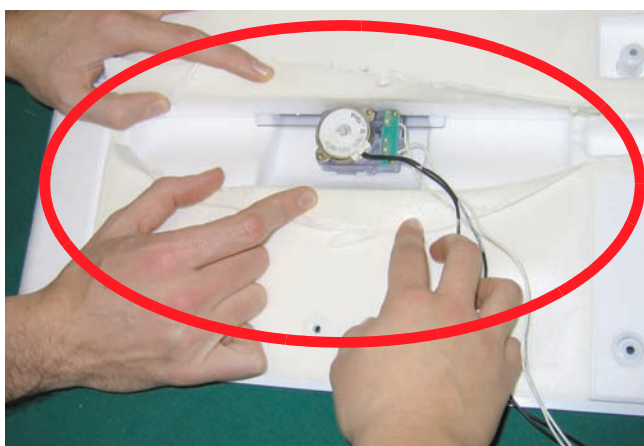
5. Remove the damper housing, taking care not to damage the connection.



3. Remove the shelf

Removing components of the Variable Temperature Compartment:

2. Remove the shelf.



1. Release the screws of the shelf of the variable temperature compartment.