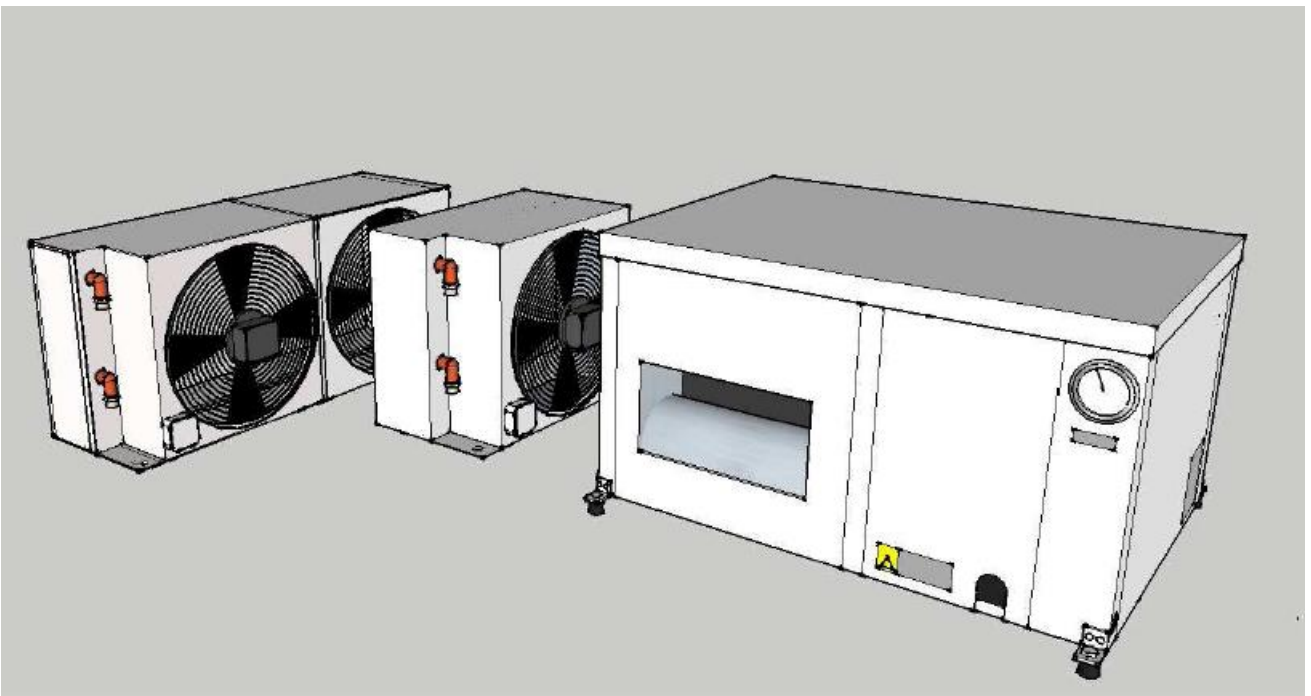


INSTRUCTIONS

OPTICLIMATE PRO3 SPLIT



Please take note of:

- High temperature protection on page 9
- Clear alarm history on page 15

Content

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Specifications

OPTICLIMATE 3500 PRO3 SPLIT (WITH AIR-COOLED OUTDOOR UNIT)

Voltage	Phase	Power	Cooling Capacity	No. Of Lamps		Heating	Dimensions (mm)	Weight
				600W	400W			
230V	1 of 3	820W	3.5kW	6	9	2 x 1500W	870x580x405	50kg

OPTICLIMATE 6000 PRO3 SPLIT (WITH AIR-COOLED OUTDOOR UNIT)

Voltage	Phase	Power	Cooling Capacity	No. Of Lamps		Heating	Dimensions (mm)	Weight
				600W	400W			
230V	1 of 3	1590W	6kW	10	15	3 x 1500W	990x630x505	70kg

OPTICLIMATE 10000 PRO3 SPLIT (WITH AIR-COOLED OUTDOOR UNIT)

Voltage	Phase	Power	Cooling Capacity	No. Of Lamps		Heating	Dimensions (mm)	Weight
				600W	400W			
230V	1 of 3	2390W	10kW	16	24	3 x 2000W	1050x660x505	110kg

OPTICLIMATE 15000 PRO3 SPLIT (WITH AIR-COOLED OUTDOOR UNIT)

Voltage	Phase	Power	Cooling Capacity	No. Of Lamps		Heating	Dimensions (mm)	Weight
				600W	400W			
400V	3	3500W	15kW	24	35	3 x 2700W	1230x810x545	150kg

OPTICLIMATE 15000 PRO3 S SPLIT (WITH AIR-COOLED OUTDOOR UNIT)

Voltage	Phase	Power	Cooling Capacity	No. Of Lamps		Heating	Dimensions (mm)	Weight
				600W	400W			
230V	1 of 3	3500W	15kW	24	35	3 x 2700W	1230x810x545	150kg

The opticlimate 15000 Pro 3 Split is a Phase 1 Machine

Dimensions outdoor unit (mm);

-3500 Pro: 540x450x310

-6000 Pro: 640x550x320

-10000 Pro: 960x510x350

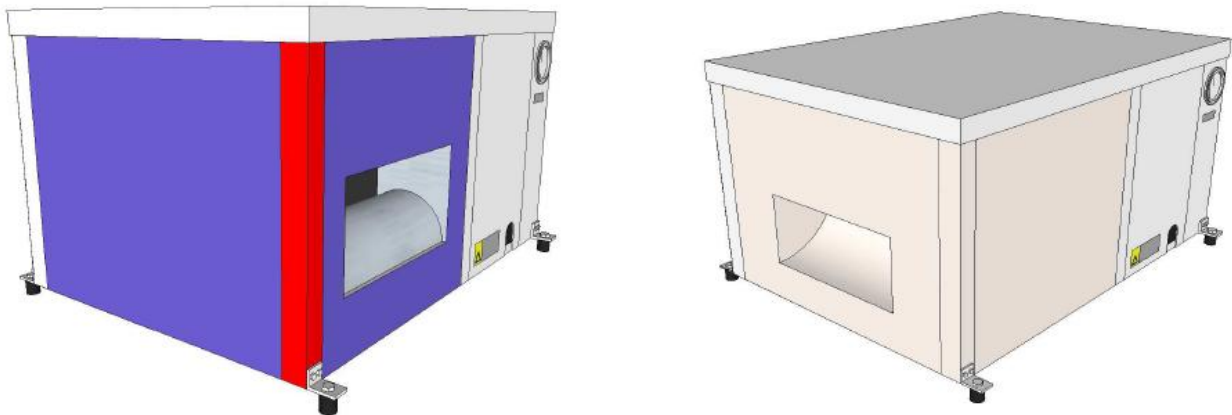
-15000 Pro: 1080x700x330

Installation

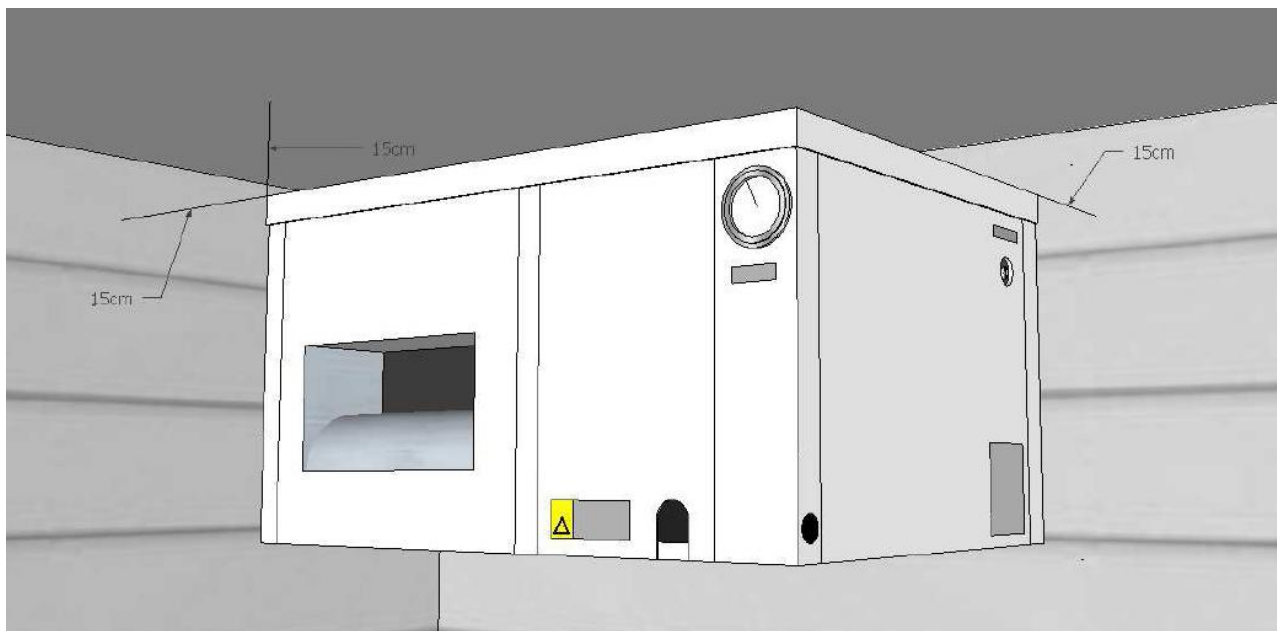
Fan mount (front / side)

If the unit is placed in a narrow space or in the ridge of a gable, place the fan outlet on the short side of the unit.

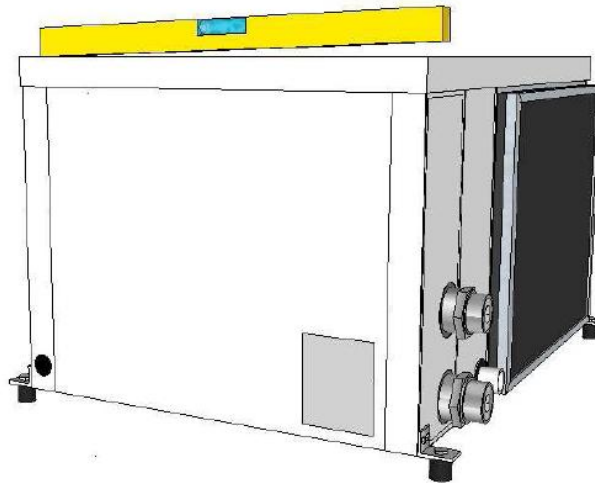
This is done simply by rotating the purple panels shown in the picture so the fan panel is on to the short side of the unit. This is done by rotating the red corner support 90° then upside down so there are no loose cable connections.



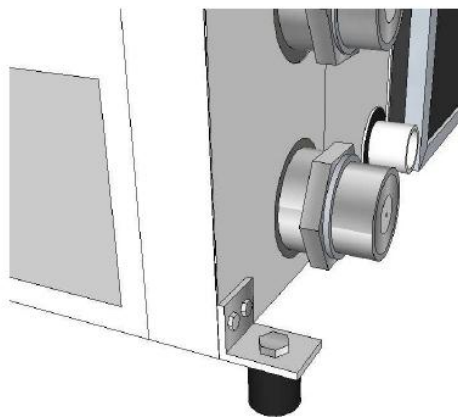
At the rear of the unit where the carbon / particle filter is the air inlet must be a minimum distance of 15 cm from the wall in order to guarantee proper intake of the air. The distance between the top of the unit and the ceiling should also be at least 15 cm. Greater distances are preferable. The unit must be free of the walls to avoid unnecessary noises caused by contact.



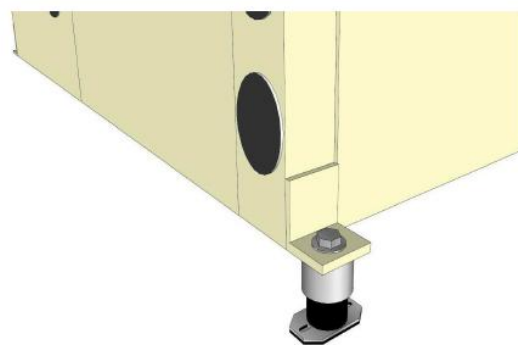
The unit should be mounted so that the side of the condensation drain is sloping at least 1 cm lower than the other side to make sure that the condensation flows out well. In practice, increases of 1 cm on all angles, except for the corner of the electrical compartment, will enable the correct outcome. The use of a spirit level is hereby advisable.



To avoid noises caused by vibration whilst in use, the OptiClimate comes with rubber mounts which are suitable for pendant mounting. For ground mounting or areas where it needs to be quiet you can remove the rubber mounts and replace them with the isolator springs, which absorb more vibration. The unit will automatically fall to the condensate drain.

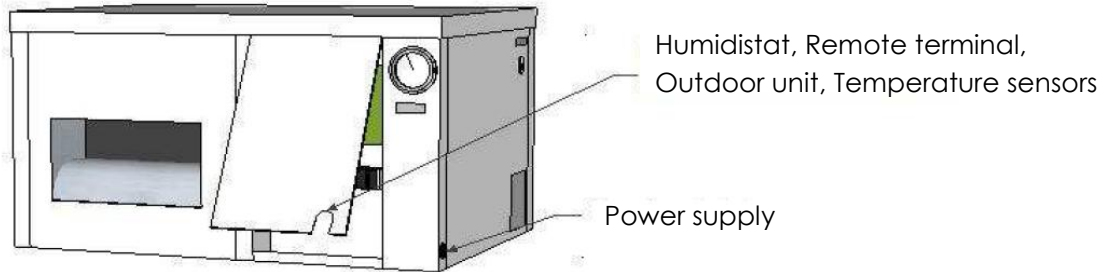


Rubber Mounts



Isolator Spring Mounts

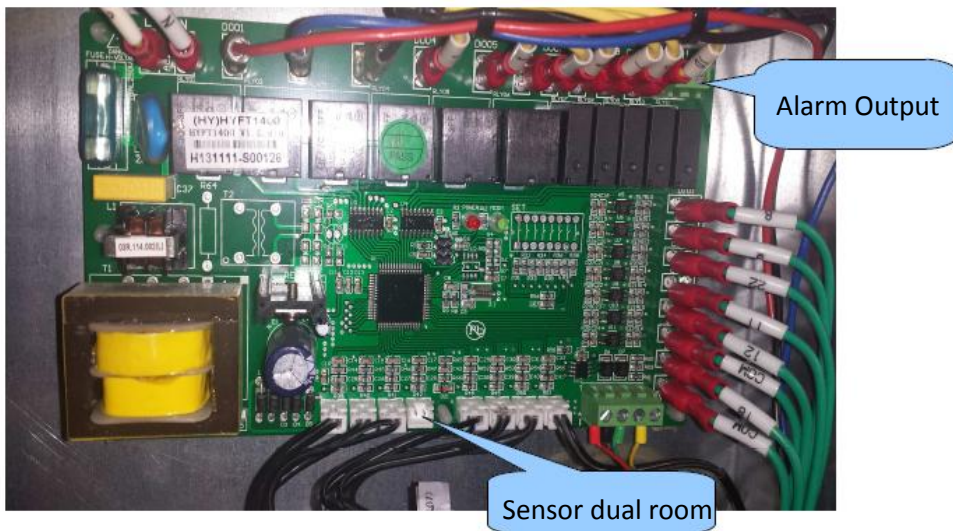
Electrical Connections



In order to make the various electrical connections they have to be to the left of the panel, the first manometer dismantled. Included is a 5-core cable, humidistat, remote and room temperature. The wiring of this can be fed through the opening at the bottom of the panel. The power cable for the power supply to the side is led by the black rubber grommet.

Alarm Output

On the PCB is an alarm output, it is activated (contacts) when a fault (error) is detected. This output can be used with a mobile phone detector or connected to an alarm system. The output can be set to NO or NC via the Settings menu. This means that the contact is opened or closed by a notification. See the manual of the mobile phone detector or alarm.



Humidistat with light cell

The humidistat supplied with built-in light sensor is already connected. The cable must to be guided through the opening in the panel only, The unit should be suspended in space and The light cell in the humidistat must not be covered. OptiClimate automatically switches from day to night mode.

Room Temperature

The compartment is also the room temperature. This is already connected to the PCB. The sensor is used by the opening in the panel through to the outside and is to be hung in line with the top of the crop. **The sensor must be protected against heat radiation but not placed in the shade, a cover on top of the sensor is sufficient.**

The Remote

The remote can also be hung in the compartment is in space but also elsewhere. OptiClimate can also operate outside the room. The four core cable is already connected, and entered by the opening in the panel, to be carried out.



5-Core Cable

Included is a 5-pin connector to provide power to the outdoor unit and to connect the indoor unit. The temperature in the outdoor unit is connected by the 5-core cable to the terminal strip in the indoor unit and the white junction box to the outdoor unit. The 5-core cable must be passed through the opening in the panel and is connected to the indoor unit as follows.

Blue (or black with # 1 *) N
Brown (or black with nr2 *) 7
Yellow / green PE
Black or gray (or black with # 3 *) 24
Black or gray (or black with # 4 *) 23
* (depending on the type of 5-core cable included)

Power cables

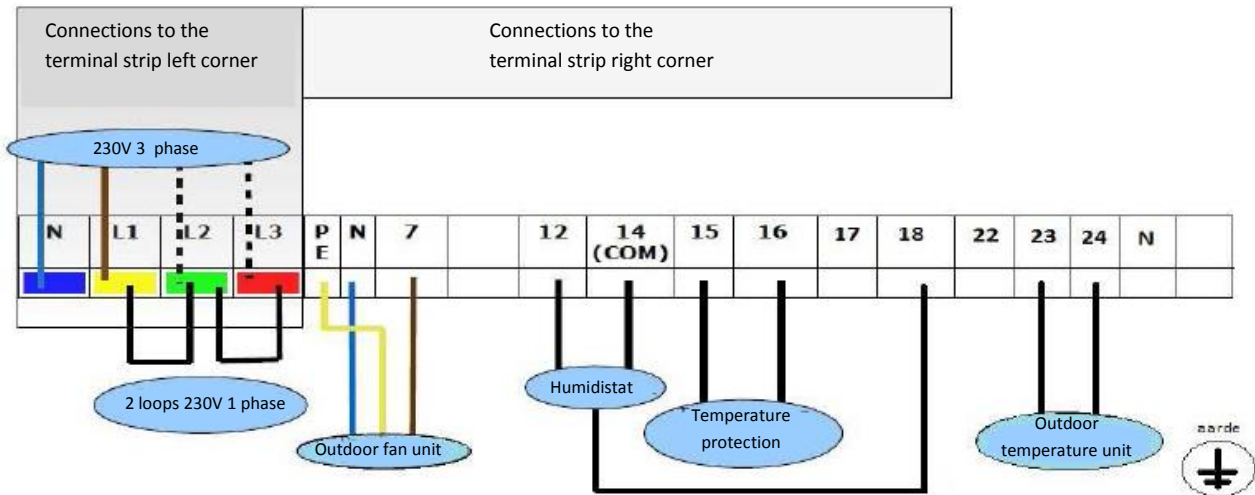
There are five different OptiClimate models. For your safety and the safety of the OptiClimate serve to connect the power supply, the following specifications are to be observed; Use the specified circuit breakers and cable sizes

Model	Circuit breaker	Cable sections
3500pro3	first phase D16 automatic	2.5 mm ² cable
3500pro3	3 phase automatic D10	2.5 mm ² cable
6000pro3	first phase D25 automatic	4.0 mm ² cable
6000pro3	3 phase automatic D16	2.5 mm ² cable
10000pro3	first phase D35 automatic	4.0 mm ² cable
10000pro3	3 phase automatic D20	2.5 mm ² cable
15000pro3 (S)	1 phase D50 automatic	6.0 mm ² cable
15000pro3 (S)	3 phase automatic D35	4.0 mm ² cable
15000pro3	3 phase automatic D25	4.0 mm ² cable *

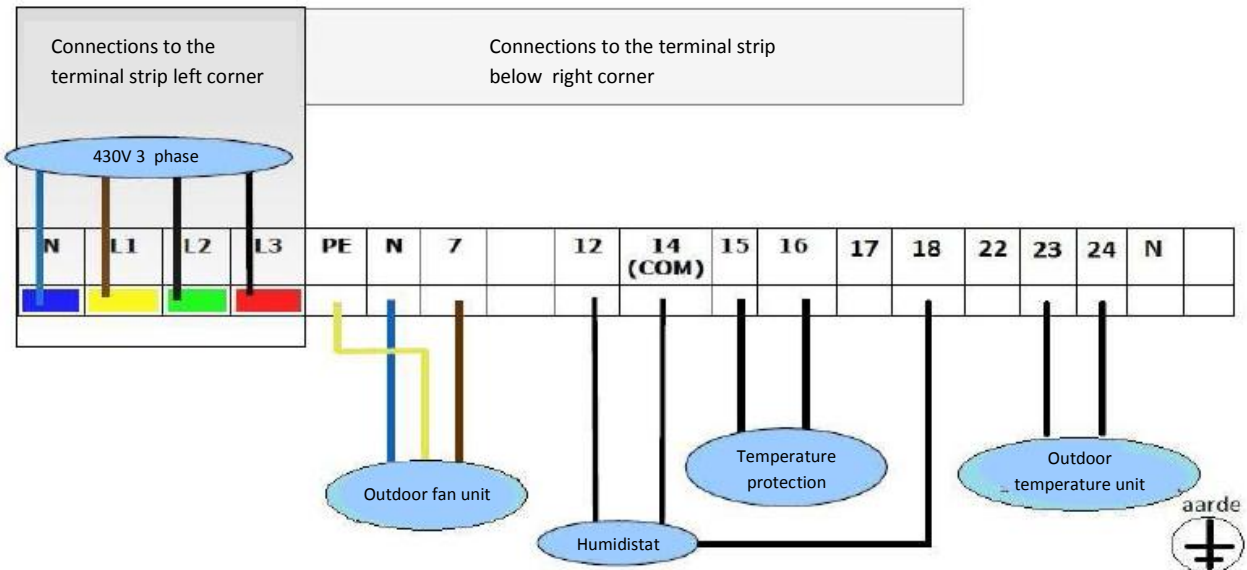
* This unit is the compressor divided over 3 phases

The cables for the power supply must be guided through the grommet on the side to be connected to the left side of the terminal strip as described in the figure. The earth can be connected to terminal PE or on the screw on the metal casing directly below the terminal block.

D3500pro, D6000pro & D1000pro 230 (1 & 3 phase). At phase 1, 2 loops between L1-L2 and L2-L3 of the heating elements. 3-phase is always preferred.

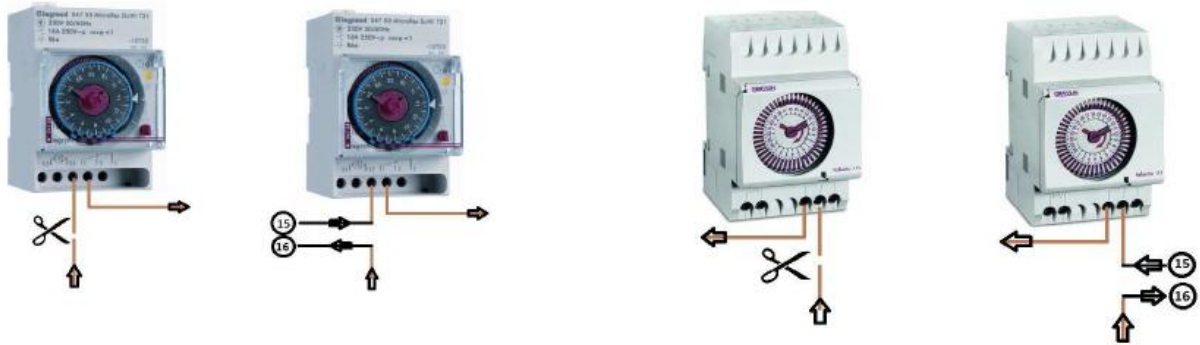


Wiring diagram for the pro D15000 400v 3 phase only



High temperature protection

If the temperature in a room is too high OptiClimate switches the heat sources (eg lamps) off. In the unit there is a connection that can be connected to the timer on the switchboard. The power wire runs to the switch on the switchboard should this be interrupted. In one example, this is Grasslin clock terminal 1 and at a LeGrand switch this connection 4 is scheduled for D15000 pro 400v 3 phase only.



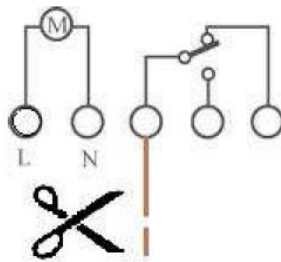
LeGrand

Grasslin

The two ends must be at terminal 15 & 16 on the connected terminal strip in the OptiClimate's electrical compartment.

The power for the switch then runs through the OptiClimate. If the temperature is above 35 ° C, the OptiClimate interrupts the circuit so that the heat sources switch off. ERROR 15 will appear on the remote.

Always refer to the instructions of the manufacturer of the switch if another model is used than what is shown in this example.



Connecting the Outdoor Unit

Placing the outdoor unit

The outdoor unit should preferably be placed outdoors in a cool place (Shadow) to which the unit can suck dirt. When mounted, enough space should be left around the unit to ensure proper supply of air. If the air by the outdoor unit is warmer, then the capacity is reduced (table) if the ambient air above 40 ° C, creates an error E: 16. The unit continues to operate as normal.

Connecting coolant hoses

Included are 2 coolant hoses. One hose has a large diameter and the indoor unit connected to the "steam" (above). The other hose has a slightly smaller diameter, and is connected to the "liquid" (below).

On the outdoor unit, the hose with the largest diameter is connected to the upper and the hose with the smaller diameter is connected to the lower connector.

Caution! Coolant hoses must not be kinked or at an acute angle when mounted. The hoses must not be shortened or extended.

The connection on both the indoor and outdoor unit must first be rotated by hand. Hereafter connections with two wrenches can be tightened, not tighten too hard if connecting 5 core cable to the outdoor unit.

The outdoor unit is a white waterproof junction box. 5, the wire cable extending from the indoor unit must be connected herein.

Blue on blue or black No. 1 *

Yellow / green yellow / green

Brown on brown or black No. 2 *

Black or gray on black or black No. 3 *

Black or gray on black or black No. 4 *

* (Depending on the type of 5-core cable included)

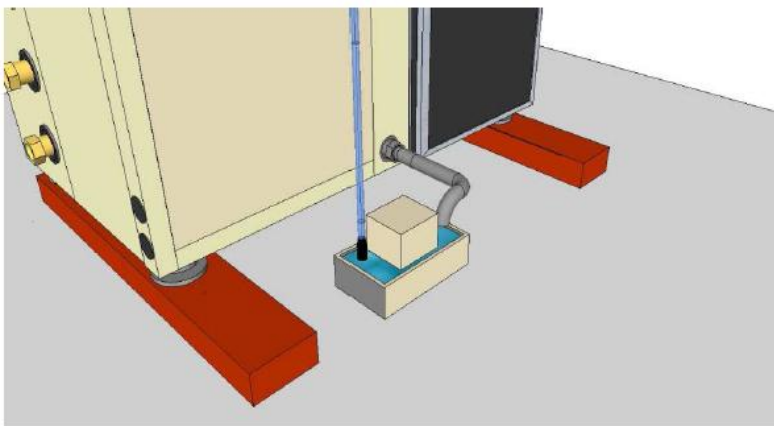
Condensation drain

During cooling, the unit also dehumidifies the air; the fluids from the air are drawn out of the condensation drain. The condensation drain is connected to a sturdy garden hose or tubing that is not easy to bend. The condensation dripping out of the hose can be connected to the drain. The condensation can also be used as feed water. The heatsink is adjusted so that no metal or oxides may end up in the condensation water. This is ideal if only hard water is available as a water supply.

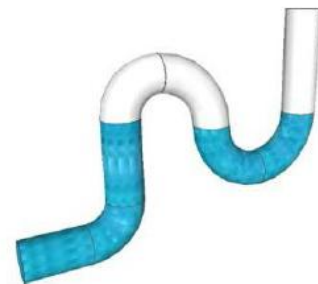
The condensate drain must not have loops and should be placed into a barrel but not go under the water level.



When the unit is placed equal or lower than the drain or sewer, water can be picked up by a condensation delivery pump. This small lift pump is pumping up to 4 meters through a tube of 9 mm to the drain. There are stronger pumps available if needed.



Condensation Drain Pump



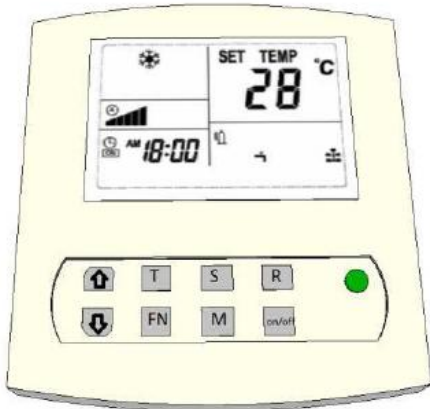
Faulty Discharge

The outlet to the pump must not be under water and have no loops examples are as shown above.

The unit is now installed and can be put into use

Commissioning

Operation



- ↑ = Temp up / scroll
- ↓ = Temp down / scroll
- T = Press to set time / Press and hold to confirm
- FN = Fan speed
- S = Press to read Sensors / Press and hold is Menu
- R = Press to confirm / Press and hold to erase / delete error codes
- M = Pressing M switches between day and night mode manually. Pressing and holding M turns automatic light sensor mode on / off.
- On / Off = Unit On / Off or confirm menu option.

1) On / Off button

The On / Off button turns the unit on and off. If the unit is turned on, the LED lights green. If the unit is off the LED lights red. When a fault is detected the LED will flash red / green. The On / Off button is also used to confirm a menu selection.

2) Mode button 【M】

Pressing the mode button switches between day mode (cooling) and the night mode (heating / dehumidification). In the day mode a snowflake is pictured in the display with night mode a sun with water drops is shown.



Night mode

In the default mode, the temperatures are already be set for day and night. This can be changed later.

3) Fan speed button **[Fn]**

This is used for the selection of the air speed of the fan, the sequence is:



The speed changes each time the Fn key is pressed.

If the automatic ventilation mode is selected in the cooling mode, the unit will go up or down depending on the ventilation cooling requirements.

4) Temperature setting

Users can set the temperature from 16 °C to 34 °C when the ▲ or ▼ button is pressed, the SET TEMP temperature setting will be displayed on the display, when pressed again. Here the user can set the desired temperature. To confirm setting press and hold. After 3 seconds, the setting will be saved. Use **[M]** mode button to switch between day and night.

5) Time setting **[T]** key

Press the **[T]** button to select the hours and now press the ▲ or ▼ button to change the hours. Press **[T]** button again start flashing the minutes, and now press the ▲ or ▼ button to change the minutes. Now press **[R]** key to confirm the entry.

6) Automatic Brightness sensor setting (Day / Night Mode)

In the humidistat of the pro3 is a light cell. This shows when the light is on, in light it switches to day mode and no light to night mode. Only the Day / Night temperatures should be set, the rest is easy. If you still want to set the unit manually the automatic light sensor can be disabled, by pressing the **[M]** mode button for 3 seconds.

This mode alternates between light emitter and manually. By pressing the **[M]** button another 3 seconds the mode goes back to the emitter mode. If the automatic light cell is activated, there will be a big A shown in the display panel.

It is important to note that when the timer setting is programmed, the automatic light sensor mode is deactivated. So only install a timer when in use and use advanced options to configure.

The Timer mode is active when a clock symbol is on the display.

The external unit should be connected to the light sensor on the terminal block in the electrical compartment (terminal 12, 14 and 18) otherwise the unit will remain in night mode because no light is detected. This is the standard connection.

7) Timer setting (DAY / NIGHT program)

By default, we recommend to use the timer, automatic light sensor mode
 So only set if you want it to work without light cell.

This function can be used for the DAY / NIGHT program. This program restarts, every day no matter what day it is. The timer is set, when the display shows the clock symbol.

Press **【T】** key for 2 seconds, when "--", ON is visible, the user can set the timer

To change setting. Pressing **▲** or **▼** on the hours the ON time can be set by pressing **【T】** again the minutes can be set. The ON time is the time that the unit is cool.

When **【T】** is pressed again the OFF time can be set. The OFF time is time the unit is heating / dehumidification.

The display will show "-: -" If there is no timer set, or else the time that is already set.

Example:

The unit must cool down between 8:00 and 20:00.

The ON time should be set to at 8:00 AM

OFF time must be set to 8:00 PM

1:00 AM = 1:00	1:00 PM = 13:00
2:00 AM = 2:00	2:00 PM = 14:00
3:00 AM = 3:00	3:00 PM = 15:00
4:00 AM = 4:00	4:00 PM = 16:00
5:00 AM = 5:00	5:00 PM = 17:00
6:00 AM = 6:00	6:00 PM = 18:00
7:00 AM = 7:00	7:00 PM = 19:00
8:00 AM = 8:00	8:00 PM = 20:00
9:00 AM = 9:00	9:00 PM = 21:00
10:00 AM = 10:00	10:00 PM = 22:00
11:00 AM = 11:00	11:00 PM = 23:00
12:00 PM = 12:00	12:00 PM = 24:00

To delete the time during the timer setting (turning off of the timer)

Press **【R】** key, and the time is erased. The display will show "-: -" display.

EXIT: Press **【T】** key 3 times to exit or wait 10s to close automatically.

The settings must run synchronously with of the current time and timer settings with the times on the switchboard. All clocks must be synchronized when the timer function is used.



8) Using of the humidistat to dehumidify at night

The humidistat can be set to the desired maximum humidity for night time. When the night mode is active and the humidistat indicates that the unit must dehumidify the drop symbol will flash. During dehumidification it will also need to use water.



Humidistat

9) Readout function for temperature sensors

Press the **[S]** key and the sensor temperature is displayed. The number and the temperature of the sensors is displayed in place of the clock.

By pressing the **▲** and **▼** keys users can choose different sensors to read.

EXIT: Press **[S]** key to exit or wait 60s for the option to automatically close.

C: 01 = heatsink temperature

C: 02 = temperature refrigerant from outdoor unit (liquid / return)

C: 03 = room temperature 2 (only for dual-room configuration, now-40g)

C: 04 = temperature (cold) air blown

C: 05 = temperature (warm) air drawn

C: 06 = temperature low pressure (for compressor)

C: 07 = Outside air temperature (for outdoor unit)

10) Readout function for the error codes

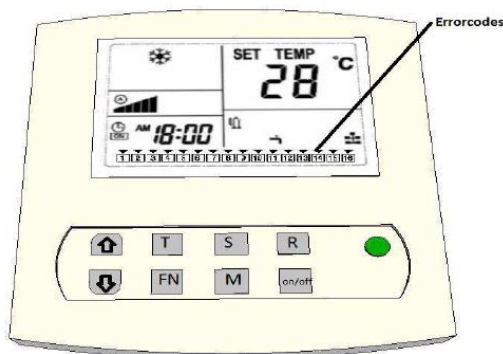
If the On / Off LED is flashing green / red flashing this indicates a fault. The actual error code will be shown with E: XX. If the problem resolves itself, the error will disappear.

Below the display remote control is the error log (alarm history). If there has been an error, the error will be visible on the bottom of the display, even when the error has been resolved.

In this way, an emerging malfunction or incorrect adjustment can be noticed early and / or corrected.

Clearing the error log (alarm history)

Errors in the log can be cleared by pressing the (R) button as they are resolved press and hold.



Making good use of the alarm history items means any problems can be better detected and resolved early!

12) Alarm output

On the PCB is an alarm output which makes contact with an alarm when an error has occurred, at this contact a detector can be connected to alert an alarm system or SMS (GSM).

13) Compressor operating mode

If the compressor is running, the compressor symbol will be displayed right below on the display, in turn this will disappear.



The compressor operates only in the day-time as the temperature is exceeded and in the night-time when the relative humidity set is exceeded.

14) Heaters active mode

If the heaters are turned on the hot air symbol below will be shown on the display, in turn this will disappear.



The heaters operate only at night-time when the temperature is below the set value.

15) Fan outdoor unit operates.

When this symbol appears on the display, the fan (s) on the outdoor unit are turned on.



When switching off, the fan (s) symbol will disappear. The fan (s) on the outdoor unit will only run when needed.

Settings (Setup)

In this menu you can change certain settings, adjust the heating, temperature protection, auto restart and hysteresis setting.

Press and hold the **[S]** button for longer than 6 seconds to access the settings menu. A capital letter D appears on the screen followed by a number from 01 to 29. Press the **[S]** key again briefly pressing repeatedly run through the different settings.

The first setting is D: 01 second D: 02, etc.

To change a setting, you do so with the **▲** or **▼** button. To confirm this press the **[ON / OFF]** key. If you want to change anything and exit the menu, press the **[R]** key.

The settings range from D 01 to D 32.

If you want to reset to factory settings press the **[M]** button while you are in the settings menu. All settings are now defaulted back to factory settings. Confirm by pressing the on / off button.

D: 01 Heaters on / off

There are three heating elements in the OptiClimate. There are 1-phase systems in all three connected to the first phase and at a 3 phase distributed over the 3 stages.

In the Settings menu, each of these elements can be turned on and also disabled. They can also all be shut off when, for example, central heating is on.

Setting:

D: 1 = 3 means all three elements will heat

D: 1 = 2 means two elements will heat

D: 1 = 1 means the first element will heat

D: 1 = 0 means all the elements are off

D: 02 Temperature protection

If the room temperature is above 35 ° C, the unit via the terminals 15 and 16 will turn off the heat source to the terminal strip. By setting D: 02 you may change the cut out to act between 30 ° C and 40 ° C. If the temperature drops below the set temperature, the cooling mode will disable security again.

The security has no influence on the operation of the OptiClimate. However, there will be an error message given, ie E: 15. (See also the error code list)

D: 03 Auto restart after power failure

If the voltage is interrupted when the unit is turned on, the voltage will return the unit to default setting to allow it turn back on safely.

If after a power failure you want the unit to remain off; or when it is assumed an interruption has occurred by external interference, connect the D setting: change to D 03.

Setting:

D: 03 = 0 means auto restart is off.

D: 03 = 1 means auto restart is on.

This is the default setting. There will always be an error code displayed when a power failure has occurred, i.e. code 14. See also error code list.

D: 04 Night cooling (Cool at Night) on / off.

In this parameter, the night cooling can be changed.

D: 04 = 0 means cool at night is out. This is the default setting.

D: 04 = 1 means cool at night is on.

If the timer off mode is on, and the minimum temperature is set to e.g. 22 °C, the unit will cool the room at 22 °C in night mode. If the temperature is below 22 °C the unit will heat up. In a warm climate, a very well insulated space or other heat sources cannot be deactivated this function is required to maintain accurate levels.

If the cool at night function is active there will be a moon visible in the display.

D: 05 Heater (Pre-Heat) on / off.

In this parameter, the heating can be turned on.

D: 05 = 0 means pre-heat is off. This is the default setting.

D: 05 = 1 means pre-heat is on.

If pre-heat is activated, the room will heat up for an hour during the day (on timer) the space will warm up to the set cooling mode (day) temperature. The space is then at the correct temperature at immediately at the start of each day. Apart from the advantage of the temperature one day needing a jump-start, this also prevents cold parts which will reduce and prevent mould.

Note: Only works in conjunction with the timer and not in the light cell mode!

D: 06 After heating (slow cool-down) on / off.

In this parameter, the post-heating can be switched on.

D: 06 = 0 means slow cool-down is out. This is the default setting.

D: 06 = 1 means slow cool-down is on.

In slow cool down on, the heating may reduce gradually rather than shut down completely until one hour after the day has ended to ensure the room cools slowly.

Note: Only works in conjunction with the timer and not in the light cell mode!

D: 07 2 bedrooms 12/12 cooling (dual room) on / off.

In this parameter, the 2 cooling chambers can be turned on.

D: 07 = 0 means dual operation room is off. This is the default setting.

D: 07 = 1 means dual operation room is on. If this function is active, the display shall include the cottage visible on the screen.

To use this function, there must be a three-way valve and connection ordered to be composed of; 3-way valve, plenum, 2nd temperature sensor and an extensive installation manual / instructions.

D: 08 Alarm output N.Ö. or N.C.

In this parameter, the alarm output can be adjusted.

D: 08 = 0 means N.C. Normally closed. This is the default setting.

D: 08 = 1 means N.Ö. Normally open.

For the correct setting to connect; the user should consult the GSM detector or alarm.

D: 09. Not applicable

D: 10 Timer output

At D: 10 = 0 will output 15 and 16, the interruption of the high temp alarm.

At D: 10 = 1 high temp alarm will not go through these contacts.

At D: 10 = 1 will be 16 common, and 16 & 17 each changeover contacts.

The clock of the OC shall now operate changeover contact and the clock on the switchboard can be substituted for the clock / timer in the OC. The lights then run synchronously with the cooling mode of the OC.

Now a high temp to post security must contact 16 are placed in line the alarm output on the PCB.

If there is a high temp alarm will signal, pause the timer and updates the temp security.

The setting of the alarm output must then NC (default 0) position.

D: 11 of the hysteresis temperature

In this setting, the hysteresis (bandwidth) of the temperature control can be

adjusted. This is the temperature difference which is required to switch the compressor on and off.

Setting:

D: 11 = 2 means the hysteresis is 2. This is the default setting.

The hysteresis can be set from 1 to 4 °C in increments of 0.5 °C. If the set daytime temperature is set to e.g. 28 °C and the hysteresis at 2 °C, the unit will begin cooling at 29 °C and stop cooling at 27 °C. To hysteresis actually works to shorten the compressor. (D:27)

D: 12 Not less than the adjustable preheat temperature

With this option, the minimum controllable heating temperature can be changed.

The adjustable values in D: 12 standard = 16 °C, max = 20 °C, min = 10 °C.

D: 13 Not more than the selectable preheat temperature

With this option, the maximum adjustable heating temperature can be changed.

The adjustable values in D: 13 standard = 35 °C, max = 50 °C, min = 25 °C.

D: 14 The least adjustable cooling temperature

With this option, adjustable minimum cooling temperature can be changed.

The adjustable values in D: 14 standard = 16 °C, max = 20 °C, min = 10 °C.

D: 15 Maximum adjustable cooling temperature

With this option, the maximum cooling temperature can be changed.

The adjustable values in D: 15 standard 35 °C, max = 35 °C, min = 25 °C.

D: 16 Not applicable.

D: 17 Heat sink anti-freeze protection

This option can be determined at which temperature the cooling block anti-freeze alarm is activated. The settings in D: 17, default = 0 °C, max = 5 °C, min = -2 °C.

D: 18 Not applicable.

D: 19 Not applicable.

D: 20 Not applicable.

D: 21 Heat sink too hot

This option can be determined at which temperature the heatsink too warm alarm is activated. The settings in D: 21, default = 24 °C, max = 30 °C, min = 15 °C.

The temperature must be too high at a certain amount of time to activate the alarm. Time D 22 is defined by: D 21 and D 22 together determine when error11 is active.

D: 22 Duration heat sink is too hot

With this option, you can determine how long it should take for a heatsink too Hot alarm is activated. The settings in D: 22 standard = 30min, max = 40min, min = 20min.

The height of the temperature is determined by D: 21. D 21 and D 22 together define where E: 11 active.

D: 23 Temperature compensation room temperature sensor

With this option, the room temperature sensor can be calibrated. The setting can be changed if the indication on the display does not match the reality.

The settings in D: 23 standard = 0 °C, max = 5 °C, min = -5 °C and in set by 0.5 °C.

D: 24 Temperature compensation heatsink temperature sensor

With this option, the heat sink temperature sensor can be calibrated. The settings in D: 24 standard = 0 °C, max = 5 °C, min = -5 °C and 0.5 °C per set.

D: 25 Temperature compensation Liquid / return temperature sensor

With this option, the temperature sensor can be calibrated.

The settings in D:24 are default = 0 °C, max = 5 °C, min = -5 °C and 0.5 °C per set.

D: 26 Temperature compensation dual roll room temperature sensor

With this option, the 2nd room temperature sensor in the dual-room configuration is calibrated.

The settings in D: 26 standard = 0 °C, max = 5 °C, min = -5 °C and in set by 0.5 °C.

D: 27 Compressor rest

In this setting, the rest period between the compressor and the compressor can be adjusted.

Setting: D 27 = 15 means the rest time is 15 seconds. This is the standard institution. The option can be used as in the time that the compressor is at rest, the values in the space change too much.

D: 28 Not applicable**D: 29 Lighting Display.**

With this option, the lighting in the display of the remote control can be powered up or disabled.

0 = Auto (default)

1 = Always on

D: 30 Fan outdoor unit on / off.

This option is determined at the Liquid / return coolant temperature the fan (s) ignite the outdoor unit.

The default setting is 27 °C. The setting can be changed to be from 23 °C to 33 °C.

D: 31 Latency fan outdoor unit

With this function, the period can be changed after the fan goes on the outdoor unit or run after the compressor is active.

The default setting is 30 seconds. (3). The time can be changed between 0 and 90 seconds. (0 to 9).

D: 32 High outdoor temperature alarm

In the default setting, an error E: 16 given as the air surrounding the outdoor unit reaches more than 40 °C. The setting can be changed from 35 °C to 45 °C.

Inspection / Maintenance

Check regularly that all links from the coolant hose are tight.
Also check the links, or oil is palpable, if so please contact the supplier, this signals a leak.

The dust on the back of the unit is to be controlled at least every 10-12 weeks to remove dust deposits. When a layer of dust is on the filter it should be removed with a cleaner.

For proper operation, the charcoal filter should be replaced every 10-12 weeks. This is an essential part of the system and should not be forgotten. To replace the charcoal filter, the carbon dust filter must first be removed.

If used with a humidifier then you must ensure that it is connected to the reverse osmosis filter or a water filter. **A faulty fan by limescale is not covered under warranty.**

If the dust filter is still white efflorescence when using a humidifier in combination with a water filter then there is an osmosis filter needed, the water is too hard for use with a lime filter. A humidifier is not necessary if the proper space dimensions are adhered too.

Fault Analysis and Error Messages

If the unit does not turn on (and the display of the remote control and the LEDs on the PCB are also off) there is probably no power.
It may also be that the internal fuse is blown, it sits next to the circuit board in a plastic housing.

If the unit does not turn on and there is power on (LED on the board flashes and the display of the remote control unit provides E: 01) it is most likely to be 2 of the 3 phases which are to be changed together, which of the three does not matter.

If the circuit breaker shuts off or the unit should start cooling this is probably a wrong value or the system has been incorrectly installed. Check the correct information in the Technical Specifications (page 8).

If the unit makes strange noises or is always cooling check the pressure gauge; or to ensure that nothing more is going on, check right in the middle of the window and see if the outdoor temperature (C: 07) does not exceed 30 °C . Should this be the case, make sure the outdoor unit can get to colder air and check that the pointer on the gauge drops.

If water drips from the sides of the unit has a problem with the condensation drain. Check with a spirit level that the unit has enough slope (see section assembly). It may also be that the condensation hose has too many bends or restrictions.

Temperature sensors in the unit.

There are seven temperature sensors connected to the indoor unit. These can be read by briefly pressing the **[S]** key and navigated with the arrow keys.
Typical values of these sensors are;

C: 01 = Heatsink temperature 5 ° C - 15 ° C

C: 02 = Temp. refrigerant from outdoor unit (Liquid / return) 23 ° C - 50 ° C

C: 03 = Room temperature 2-40g or dual temp.

C: 04 = Temperature (cold) air blown 8-16 ° C lower, C: 05

C: 05 = Temperature (warm) air sucked in is almost equal to room temperature.

C: 06 = Temperature low pressure (for compressor) almost equal to C: 01

C: 07 = Outside air temperature (for outdoor unit) Max 40 ° C

Fault Code List

Error 01 = Most stages crossed (Reversal). Active only for the 15000 series.

It should probably be interchanged with each other, of which the 2 or 3 of the 3-phase does not matter. If the unit has already worked with the phases connected, it can signify that there is a problem with the voltage (voltage). This can be checked by the white box at the top of the electrical compartment to see what LED there is lit.

Overvoltage	=	Voltage too high
Low voltage	=	Voltage too low
Phase loss Phase	=	Interrupted
Reversal	=	Phases order wrong (crossed)
Normal	=	Phase voltage and connected properly

Error 02 = Condensation will not run away. Check the condensate drain for blockages, and make sure the unit has enough slope toward condensate drain.

Error 03 = Not applicable

Error 04 = Ambient temperature too low.

The unit is in a cold environment to which the risk of freezing occurs. The space in which OptiClimate will need is to be warmer than 4 °C.

Error 05 = Ambient temperature sensor (AI01) not connected or defective

Error 06 = Heat sink temperature sensor (AI02) not connected or defective

Error 07 = Liquid / return temperature sensor (AI03) not connected or defective

Error 08 = Dual-room systems is error 08 is a problem with the 2nd temperature sensor (AI04)

Error 09 = Thermal protection compressor is activated.

Consumes too much power for the compressor. If after resetting the thermal protection pops it back, contact the service technician. The thermal protection is left off the circuit in the electrical compartment.

Error 10 = Anti-freeze protection, the temperature of the cooling block is too low.

If the heatsink is less than 0, it can freeze. The unit will stop cooling and defrost. Probably too much water flows through the unit and has therefore too much cooling capacity. The minimum pressure is 1.3 MPa, it may be that the pressure required to ensure the cooling capacity is slightly increased and needs to be slightly decreased. See section balancing to remedy this. Also, the carbon filter may be clogged or discharge is too tight (too little holes or thin tube) through which the unit are cooled cannot and need to be loosened.

Error 11 = Poor cooling.

The cooling system is not working properly. Probably there is a leak in the cooling system and it should be repaired. The capacitor of the compressor may also be defective.

Error 12 = High pressure protection.

When this error occurs, the hot air to +40 ° C or outdoor fan unit is not running. It may also be one of the links of the cooling coil is not connected properly.

Error 13 = Low pressure protection.

Check the pressure gauge when the unit is turned off. The pressure is lower than 4bar / 0.4 Mpa? If so, is there a leak in the cooling system this must be repaired.

Error 14 = Voltage interruption alarm.

The unit has come to be without tension. Through this alarm which occurs only in the alarm history at the bottom of the screen is to see whether there is a stress problem.

Error 15 = High room temperature protection is active.

Only when the room temperature drops below the set temperature in cooling mode the unit will heat sources, turn it on and the alarm will disappear. There remains a 15 in the log at the bottom of the display. These can be deleted by holding down the (R) button and corresponding key.

Error 16 = Outside air temperature (for outdoor unit) to high 40 ° C.

Make sure the cooler air is drawn from the outdoor unit.

Error 17 = AI05 temperature sensor defective or not connected (no login)

Error 18 = Temperature AI06 defective or not connected (no login)

Error 19 = Temperature AI07 defective or not connected (no login)

Error 20 = AI08 temperature sensor defective or not connected (no login)

Options, to be delivered with

Vibration isolator springs

Vibration dampers for extra quiet room. These dampers are exactly calculated on the weight of the unit and ensure almost 100% contact isolation.

This insulation is unattainable with other solutions from a hardware store.

Damping Plate with adhesive layer (2 pieces)

Anti-vibration plates; damping plates for quiet room. These plates can be placed on the flat panels of the unit also stuck to keep radiated noise to the minimum.

Fuel pump for condensation

Head up to 4 meters. This pump is often used when there is no drainage close to the condensation or if the unit is placed as the outlet is lower.

Connection PVC hose 6 mm. Standard with 5 meter hose.

3-way valve

Comes with servo motor and extra temperature of 10 meters. This valve makes it possible to cool when the Dual Room function is enabled. 2 rooms 12/12

Each space has a sensor, and the sensors tracking the area where the cooling is active. The high temperature protection will be active simultaneously for both spaces.

Plenum

This box can be placed on the back of the unit so OptiClimate outer space can be placed. The plenum 1 to 3 hoses can be connected to suck the warm air from the room. Dimension suction hoses are always greater where possible.

Carbon filters (3 pieces)

See Inspection and Maintenance

Long refrigerant hoses

By default, coolant hoses are supplied with a length of 8 meters. On request hoses can also be made to a length of 15 meter.

EX indoor unit

If the distance between the indoor and outdoor unit is more than 15 meters, there must be a PRO3/split EX (extended range) indoor unit used. The EX models comes standard with 15 meter coolant hose. There may be made optional hoses up to 30 meters.

Fault code list

Keep this list in error near OptiClimate.

E: 01 Phase monitor (15000pro3 only)

E: 02 Condensate drain

E: 03 N.A.

E: 04 Ambient temperature is too low (<4 °)

E: 05 Room temp sensor not connected

E: 06 Heat sink temp sensor not connected

E: 07 Liquid / return sensor not connected

E: 08 2nd Room temperature sensor not connected (dual cream)

E: 09 Thermal protection compressor motor

E: 10 Anti-freeze protection heatsink

E: 11 Bad or no cooling alarm

E: 12 High pressure protection (cooling)

E: 13 Low pressure protection (cooling)

E: 14 Power interruption

E: 15 High room temperature protection

E: 16 Outside air temperature (outdoor unit) too high

E: 17 AI05 Temperature sensor not connected or defective

E: 18 AI06 Temperature sensor not connected or defective

E: 19 AI07 Temperature sensor not connected or defective

E: 20 AI08 Temperature sensor not connected or defective