





U0691002\_2202\_EN\_1 18/09/2020 A cooling system can significantly lower the home's indoor temperature compared to the outdoor temperature, but without guaranteeing that an absolute setpoint will be reached.

Standard measures for limiting rising temperatures and power consumption are highly recommended in parallel:

- Closing windows and shutters during the day,

- Ventilating the home at night when the outside temperature has sufficiently dropped.

The cooling system is deliberately limited to avoid condensation problems, for example in floor heating/ cooling systems.

Before switching on the heating-cooling circuit in the floor, check that the floor's construction and coverings are compatible with cooling mode.

To avoid any risk of condensation, damp rooms such as kitchens and bathrooms must be equipped with valves to prevent water from flowing into the corresponding floor circuit in cooling mode. It is strictly forbidden to use a radiator circuit in cooling mode.

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This appliance is marked with this symbol. This means that electrical and electronic products shall not be mixed with general household waste.

European Community countries(\*), Norway, Iceland and Liechtenstein should have a dedicated collection system for these products. Do not try to dismantle the system yourself as this could have harmful effects on your health and on the environment.

The dismantling and treatment of refrigerant, oil and other parts must be done by a qualified installer in accordance with relevant local and national regulations.

This appliance must be treated at a specialized treatment facility for re-use, recycling and other forms of recovery and shall not be disposed of in the municipal waste stream.

Please contact the installer or local authority for more information \* subject to the national law of each member state

#### Nominal cooling performances

Designation Model alféa extensa duo A.I. R32		5	6	8
Cool output				
+35°C / +18°C - Cooling floor system	kW	5.0	6.0	7.7
+35°C / +7°C - Fan convector (Capacity priority)	kW	3.5	4.2	5.5
+35°C / +7°C - Fan convector (EER priority)	kW	2.3	2.3	2.6
Power absorbed				
+35°C / +18°C - Cooling floor system	kW	1.19	1.60	2.58
+35°C / +7°C - Fan convector (Capacity priority)	kW	1.19	1.56	2.51
+35°C / +7°C - Fan convector (EER priority)	kW	0.70	0.70	0.78
Cooling Efficiency (EER)				
+35°C / +18°C - Cooling floor system		4.20	3.76	2.98
+35°C / +7°C - Fan convector (Capacity priority)		2.94	2.70	2.19
+35°C / +7°C - Fan convector (EER priority)		3.30	3.30	3.27

Capacity priority: Power priority/EER priority: Performance priority

#### **Remarks and Recommendations:**

If the installation is fitted with a DHW tank :

- The production of DHW takes priority over cooling. After a DHW load, the heat pump shifts to the cooling mode after few minutes (maximum 10 minutes).
- For an optimal cooling, Cooling time program and DHW time program will be set at different times (example: cooling the day and DHW the night).

Use glycol if the "*Min flow temperature*" is less than 10 ° C. Use monopropylene glycol only. The recommended concentration is 30% minimum.



In the case of using PANAMA fan coil, do not use a room sensor and set an operating range in Comfort mode from 00:00 to 24:00.

# Assembly an setting

# Thermal insulation

Install the thermal insulation kit on the metal parts to avoid the inconvenient effects of condensation.

- **1** Place insulating adhesive tape on the 3-way valve fittings.
- **2** Install **the collector tray** (3 parts) on the technical tray.

Then thermally insulate the refrigerant pipes/ connections/fittings to avoid all condensation. Use insulating sleeves that resist temperatures above 90°C, that are thicker than 15 mm thick if the humidity level reaches 80% and at least 20 mm thick if the humidity exceeds 80%. The insulation's thermal conductivity must be less than or equal to 0.040 W/mK. The insulation must be impermeable to resist the passage of steam during the defrosting cycles.

fibreglass wool is prohibited.

# Heating circulation pump speed settings

Please refer to the instructions supplied with the heat pump (Chapter "*Controller Menu*" : HP configuration / HP / Compressor configuration).

# Commissioning

Please refer to the instructions supplied with the heat pump ( Chapter "*Commissioning*").















fig. 1 - Mounting Kit



Setting parameters "Cooling"

#### See installation manual

To access the Installer Menu, press and hold the button and turn the knob a **quarter turn to the right**. To return to the User Menu, repeat the same operation.

- In Installed Options, allow cooling function in the compatible zone(s).
- Configure settings specific to the cooling function.



# Installed options

Installed options are configured during commissioning. However, you can modify them by accessing the "*Installed Options*" menu.

# Name of Appliance

- Choose the appliance's power.

# Electrical backup

- Choose the electrical backup power.

# **Boiler connection**

- If the electrical backup is set to "No", you can then set the boiler connection to "Yes".
- If a power setting is applied to the electrical backup, the boiler connection setting remains set to "*No*" and cannot be changed.

# **Number of Circuits**

- Choose the number of circuits.

# Cooling

- If the installation is fitted with cooling function, choose the zone(s): None / Area 1 / Area 2 / Area 1 and 2.

Hydraulic configuration Area 1

► Hydraulic configuration

▼ Heating / Cooling

- Choose the heating zone to configure.

Installed optio	ns
Name of Appliance	KW
Electrical back-up	3 KW
Boiler connection	No
Number of circuits	2
Cooling	Area 1
Complete	

Hydraulic configuration

Area 1 (Direct circuit)

Area 2 (Mixed circuit)

Hot water



Temperature control

Choose the temperature control to adjust: "Cooling".

## • Control using flow temperature

**1** - Set "Room T° influence".

If the position of the outdoor sensor is not compliant with the installation recommendations (sun exposure), set "*Room T* $^{\circ}$  *influence*" to 100%.

- Set "flow T° to +25°C" and "flow T° to +35°C".

**2** - Set "*Min flow T*°".



	Area 1 Cooling	
	Room T° influence 100%	
<ul> <li>Use 100% ambient temperature</li> </ul>	Emitters type	Heat. floor system
If set to use 100%, adjust the radiator type on " Heat. floor system".	Min flow T°	18°C

## Comfort mode limitation

"Activation outd. T°": 20°C / 50°C "Stoping outd. T°": 20°C / 50°C "Maximum increase" : 1°C... 10°C

The default values should not to modified to avoid the risk of reducing the comfort temperature or increasing energy consumption.

Consigne T° comfort



 Area 1 : Cooling

 Comfort mode limitation

 Activation outd. T°
 26°C

 Stoping outd. T°
 40°C

 Maximum increase
 4°C

In summer, the "*Comfort*  $T^{\circ "}$  setting for cooling is offset upwards in line with the increase in outdoor temperature. The saves on cooling power and prevents too great a differential between the ambient indoor and outdoor temperatures.

Remark: Summer compensation explains the difference between the value "Comfort  $T^{\circ "}$  and the value reading.

Hydraulic configuration > Area 1

Setting setpoint T°

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"Comfort T°": ECO Temperature 5°C.							
"ECO T°": Absence Temperature Comfort Temperature.					Zone 1		
"Absence T°": 40°C ECO Temperature.						Cooling Setpoint T°	
					Comfort T°	24°C	
Cooling temperature					ECO T°	25°C	
5°C	≤ Comfort T°	≤ Eco T°	≤ Absence T°	≤ 40°C	Absence T°	35°C	
Default values	24°C	25°C	35°C				
Heating temperature							
4°C	≤ Absence T°	≤ Eco T°	≤ Comfort T°	≤ 35°C			
Default values	8°C	19°C	20°C		L		

Depending on the type of setpoint temperature and outdoor temperature transmitters, the setpoint temperature may not be reached during cooling.

A difference of 0.5° C between the Eco temperature setpoint and the Comfort temperature setpoint is advisable for floor heating/cooling systems.

#### Setting temperatures "Temperature control" in "Cooling"

	Heating floor system / Cooling	Fan-coil / Panama
Influence T° ambiance	10 à 100%	No room thermostat
Min flow T°	see table below	10°C
Flow T° at +25°C	20°C	16°C
Flow T° at +35°C	16°C	6°C

## "Min flow temperature" with Heating floor system / Cooling

The water temperature must be restricted to a value set according to the geographical area. Setting to the lowest temperatures runs the risk of causing condensation on the floor, together with all the other risks this may engender. If the limit temperatures are not observed, the manufacturer may not be held responsible for any physical injuries or damage to equipment that may be caused.



Geographical area	Min flow temperature
① Internal area	18°C
② Coastal area (Width 30 km)	19°C
③ Coastal area (Width 50 km)	20°C
④ Coastal area (Width 50 km)	21°C
⑤ Coastal area (Width 50 km)	22°C

#### Hydraulic configuration > Area 1

• Time programming

- Choose "Cooling" as well as the appropriate zone by accessing the menu: "Programming" > "Heating" / "Cooling" > "Area 1" / "Area 2"
- Select the day.
- **3** Adjust the Comfort period start and end times.
- If 2 or 3 Comfort periods are not required, click on "--:--".
- To return to the previous setting (e.g. end 1st heating period to start of 1st heating period), press the  $(\_)$  button.

#### • To copy the program to other days:

- Select "Validate and copy".
- 6 Set the required days to "Yes" and then select "Complete".
- Else "Validate".

## Heating / cooling period factory setting: 06:00 - 22:00.



	Monday Comfort ranges
To delete a Comfort period, set its start and end times to the same value	Program 1: 06:50 - 07:50
When accepting a setting, the screen displays:	Program 2::
	Program 3: 18:30 - 23:00
Program X:::	0 6 12 18 24
	Validate
	Validate and copy

HP configuration HP

Heating/cooling configuration

- "Summer/winter switchover outd.T°" Zone 1: 8°C... 30°C.
   "Mini. cooling switchover outd. T°": 8°C... 35°C.
   "Mini. time prior to heat./cool.switchover ": 8h... 100h
- **2** "Circuit 2 heating": 0°C... 20°C.
  - "Circuit 2 cooling": 0°C... 20°C.



# ➡ Spare parts

When ordering spare parts, specify the appliance type and serial number, the name of the part and the part number.

Nr	Code	DesignationQty
1	140638	Insulation
2	104944	Left collector tray01
3	104945	Central deflector01
4	104946	Right collector tray01
5	149093	Funnel
6	132283	Hose



#### fig. 2 - Spare parts Cooling kit

Complies with: - Low voltage directive 2014/35/UE, under standard EN 60335-1. - Electromagnetic compatibility Diretive 2014/30/UE.

Date of installation :