



Combo Cooling 10000/1000




Quick setup guide

Rev. 1.0

Dantherm[®]
CONTROL YOUR CLIMATE

Warnings

This installation manual and the product use various displays and labels to ensure safe use. Ignoring these displays and labels and incorrectly using the product could have results as classified below. Please read the following warning symbol information before reading the rest of this section, and be sure to strictly observe all instructions.

	Warning	Not following these instructions could result in death or serious injury
	Caution	Not following these instructions could result in injury or property damage.
		The symbol means something that should NOT be done

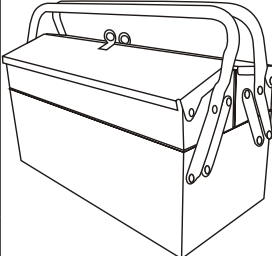
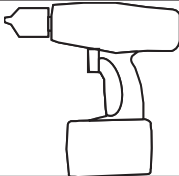
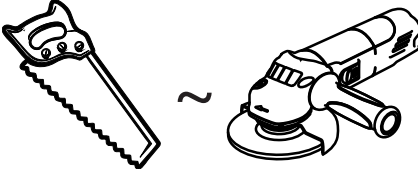
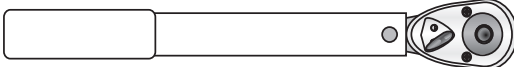


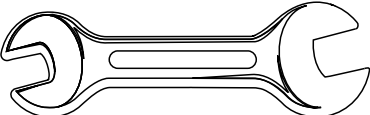
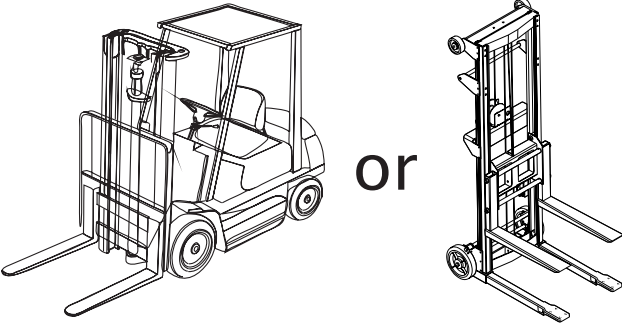
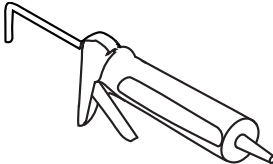

Project safety is your responsibility!

Follow the instructions in this manual regarding the installation method and installation orientation. Not following these instructions could result in injury, death, or damage to equipment. All work should be performed by qualified personal using safe work practices. All proper personal protective equipment should be used. PPE required for this installation includes but is not limited to:

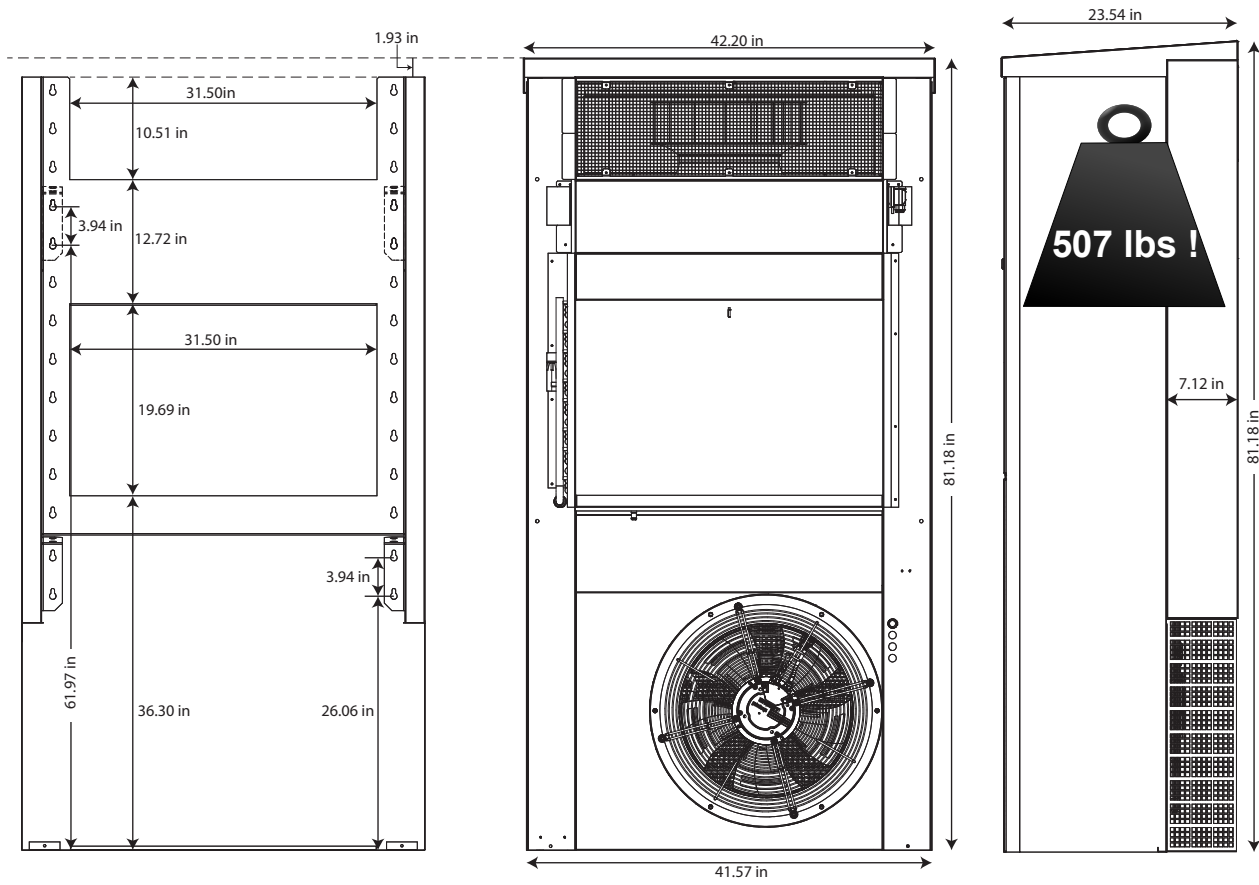
- Safety glasses
- Hard hat
- Safety shoes
- Hearing protection
- Cut resistant gloves
- Face shield
- Proper work attire (long sleeve shirt and long pants)

Please strictly observe the following: Special Skill is required to install the Dantherm Combo Cooling units. Non-qualified personnel should not attempt any of the actions shown in this installation guide. Dantherm shall not be responsible for improper installation or any accidents, damage, or injury resulting from improper installation.

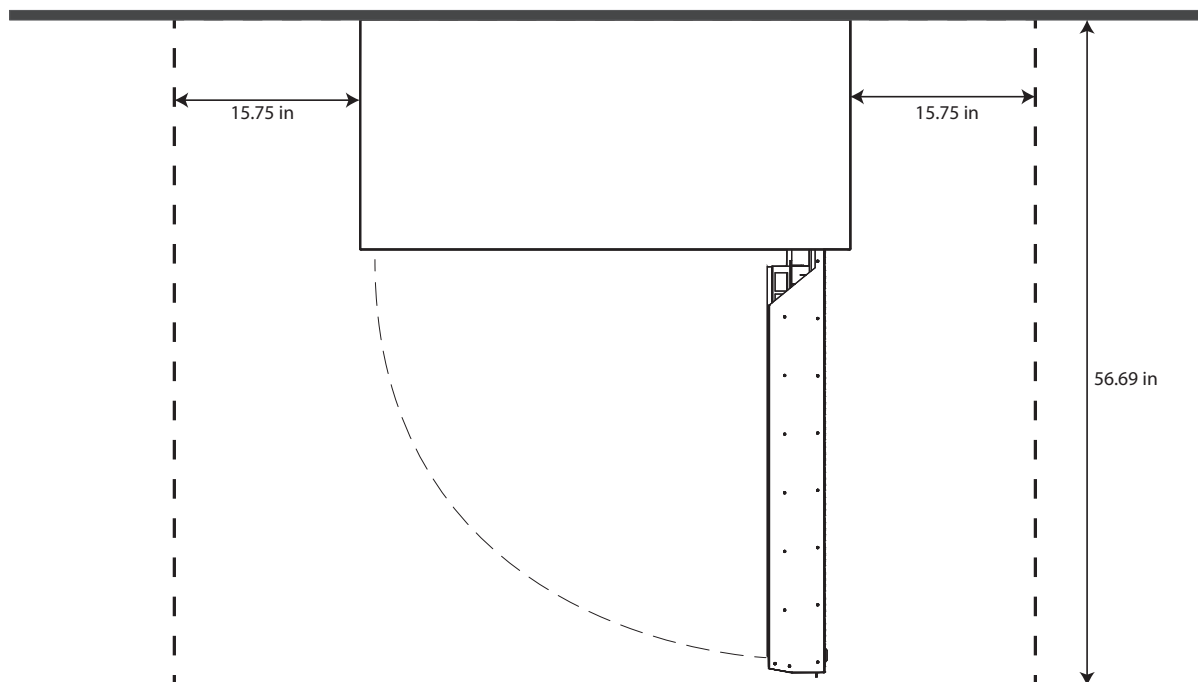
Tools needed

	1x	
	1x	
	1x	 DIN 10 mm
	1x	
	8-28x	
	1x	
	1x	 or
	1x	
2x		

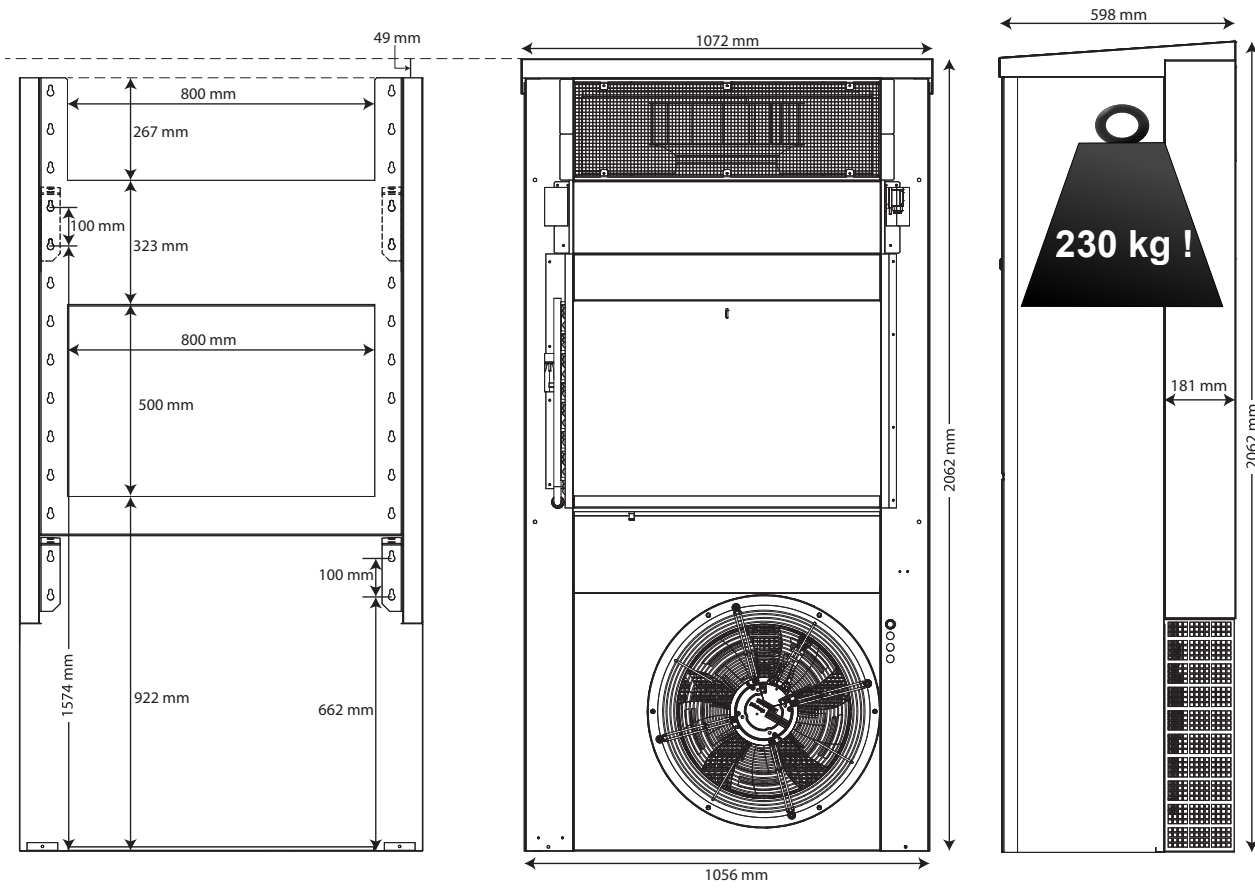
Product dimension
Imperial



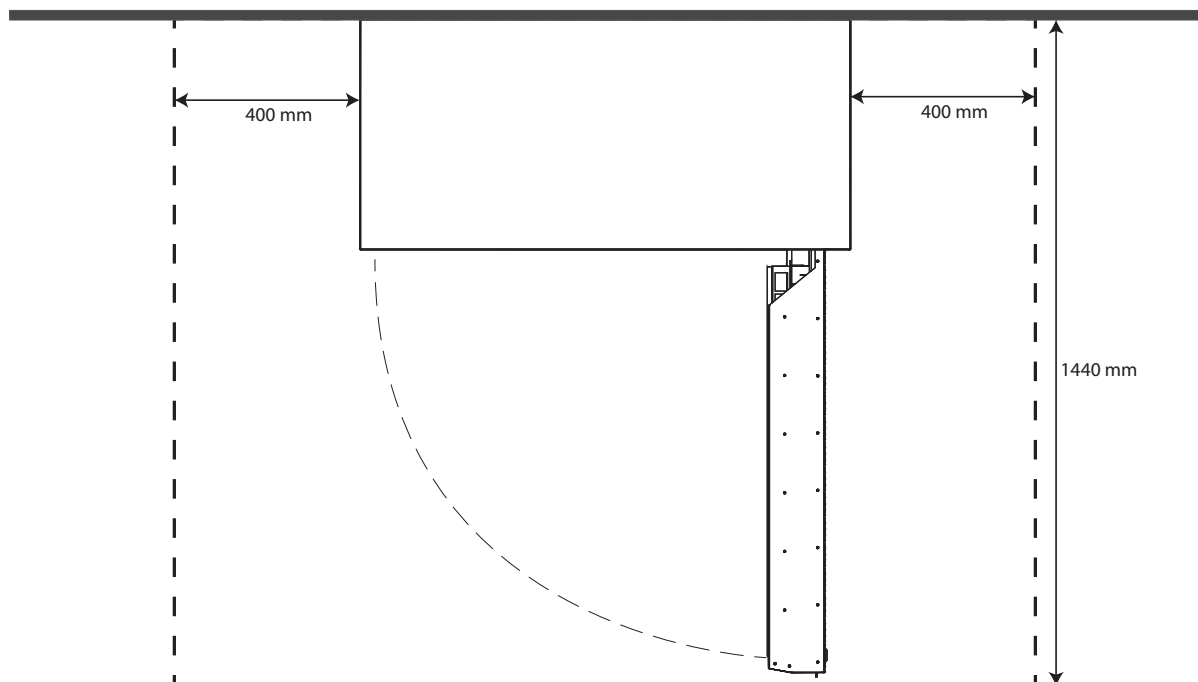
Top view - exempted space



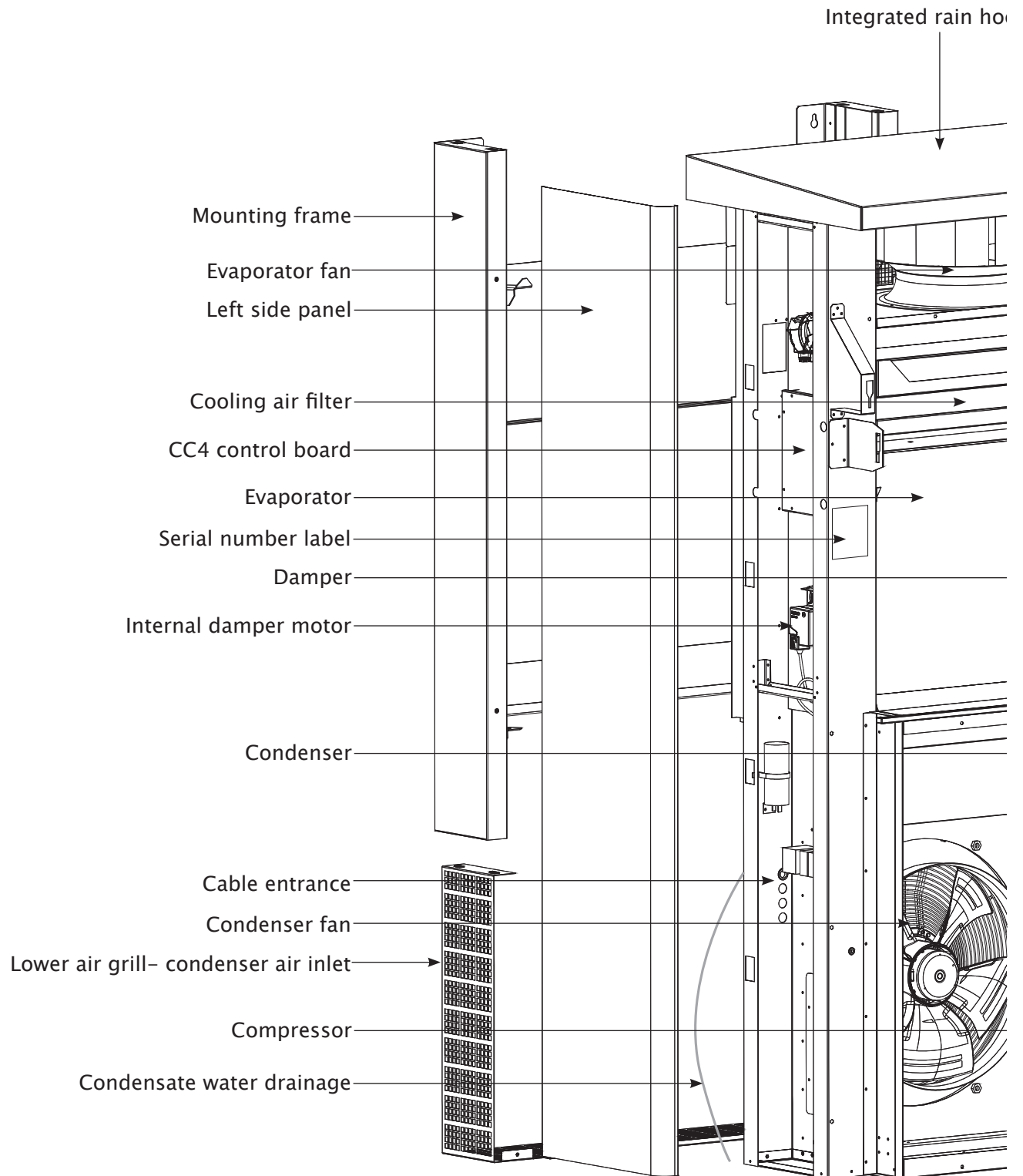
Product dimension
Metric

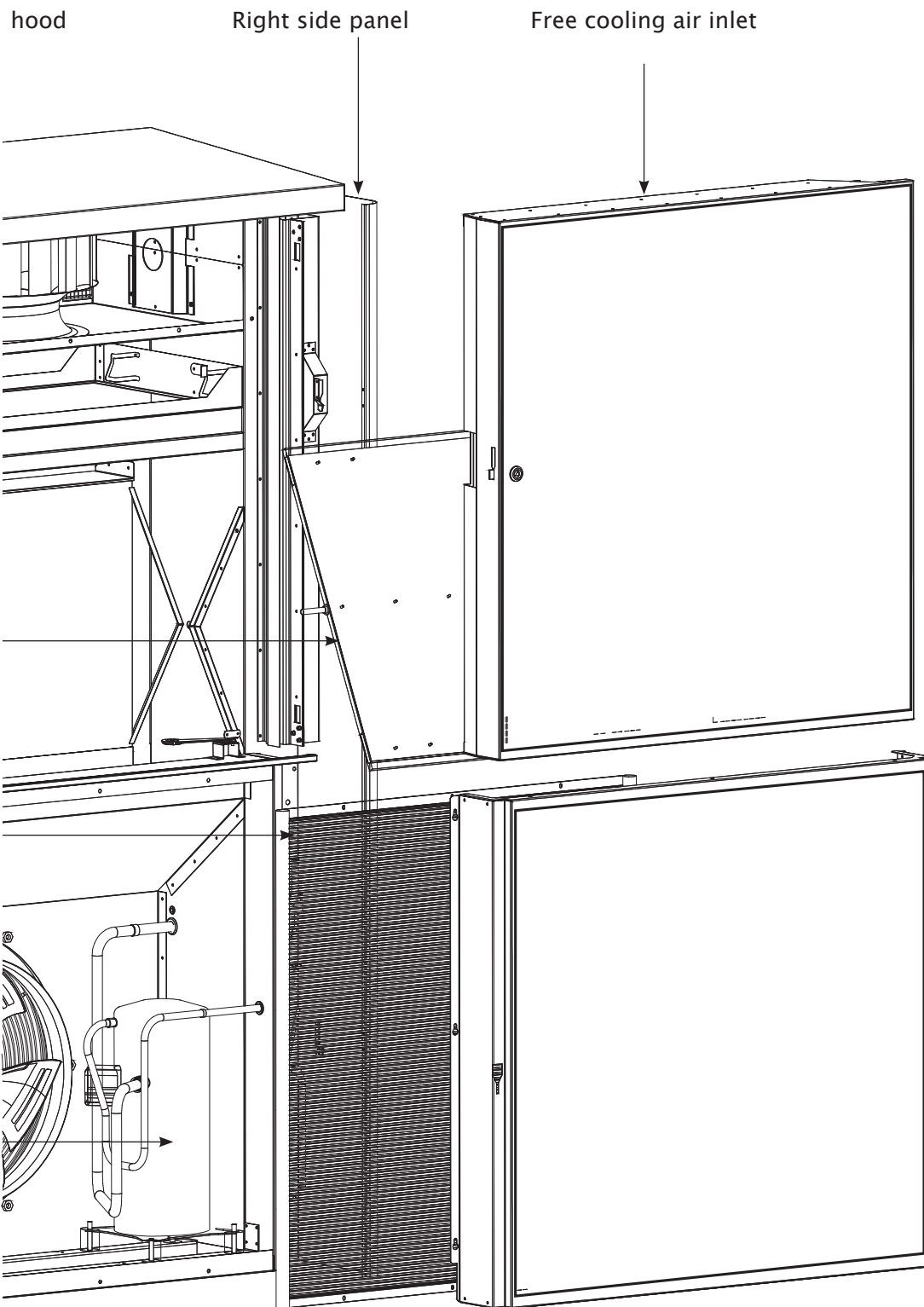


Top view - exempted space

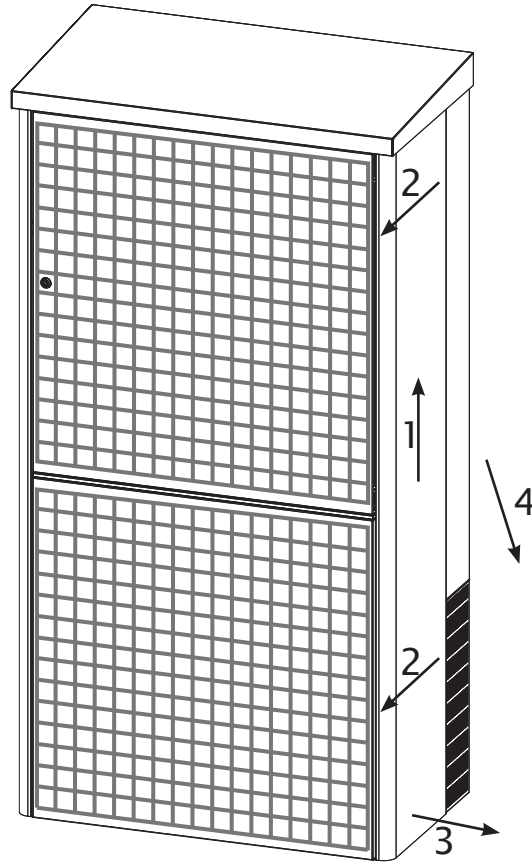
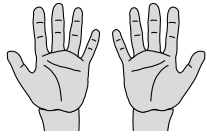


Product overview

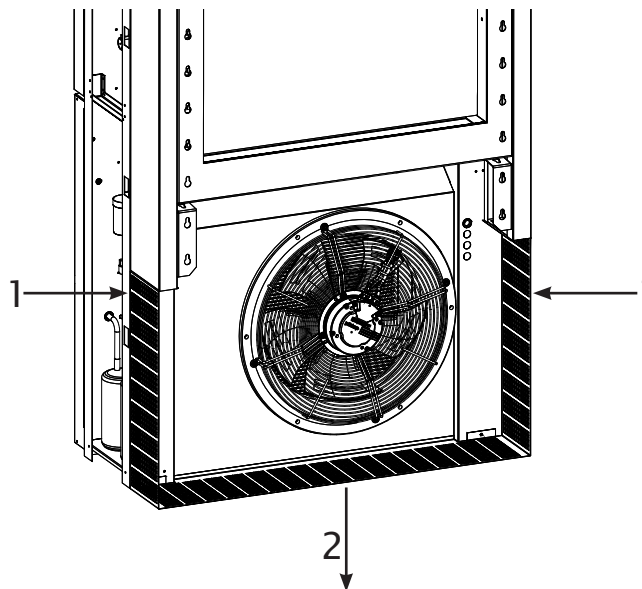
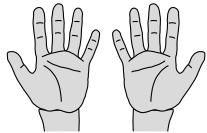




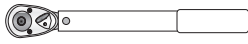
Remove covers



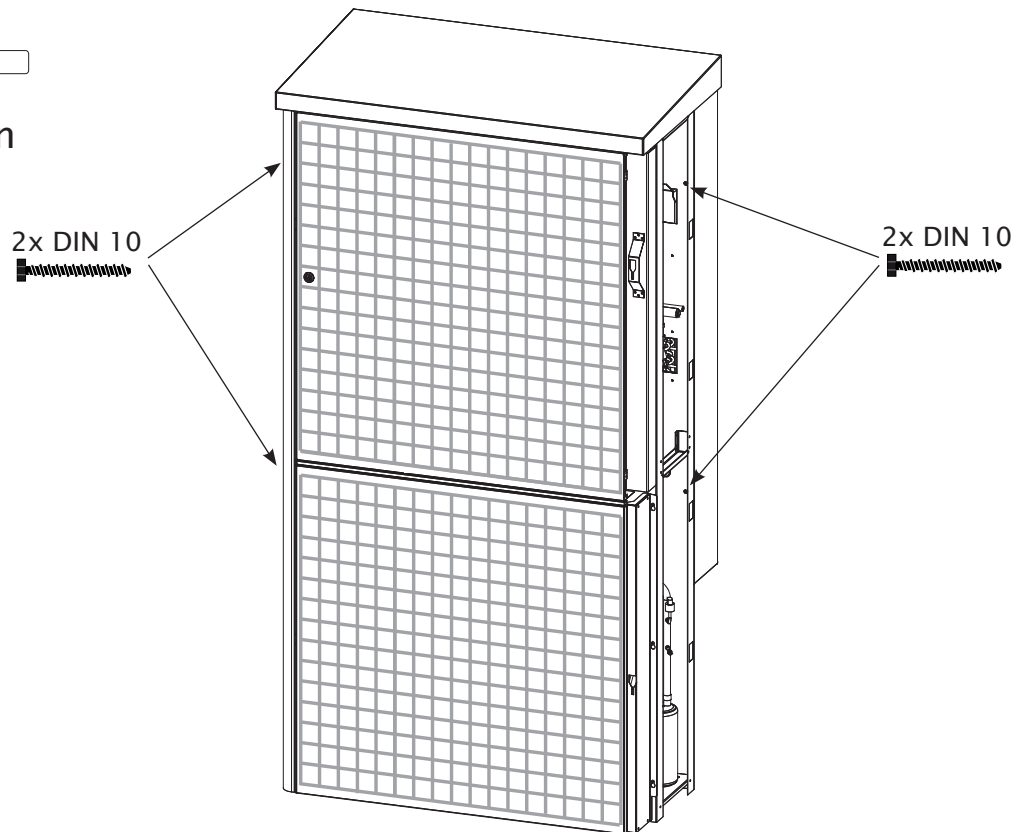
Release lower
air grill



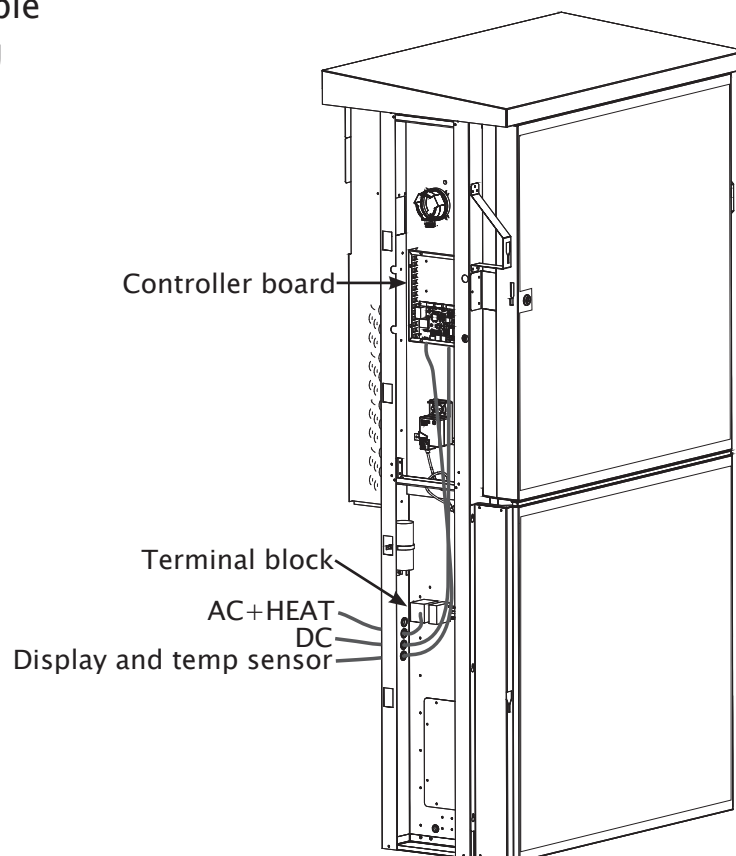
Release mounting frame



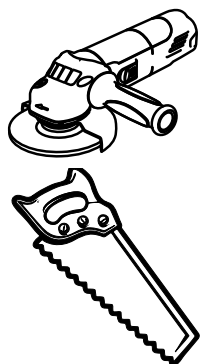
 Caution



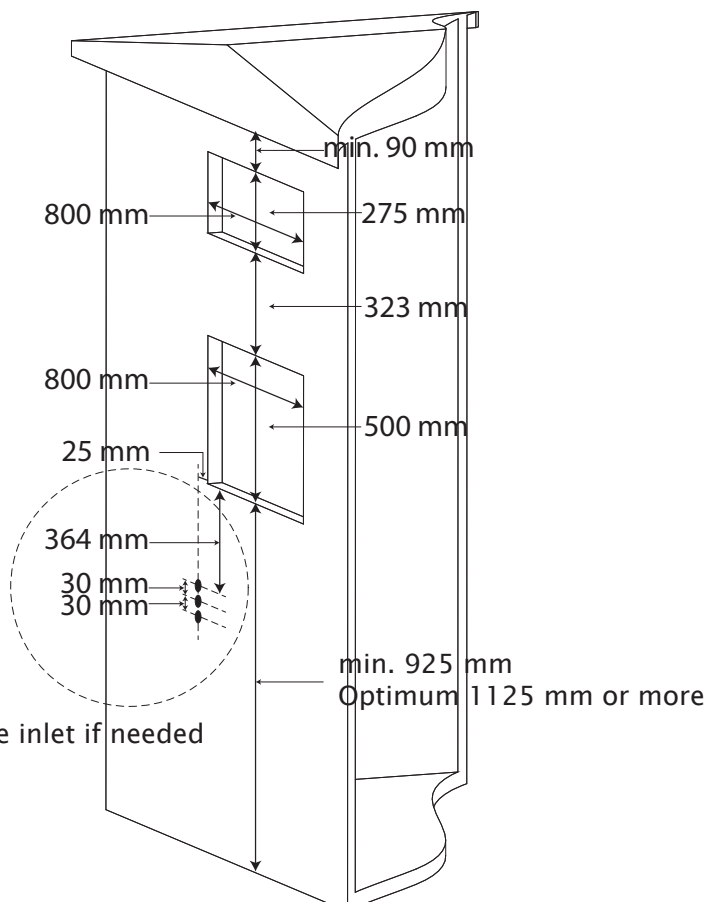
Locate possible cable routing



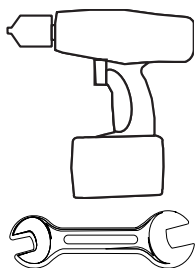
Cut out



 **Caution**



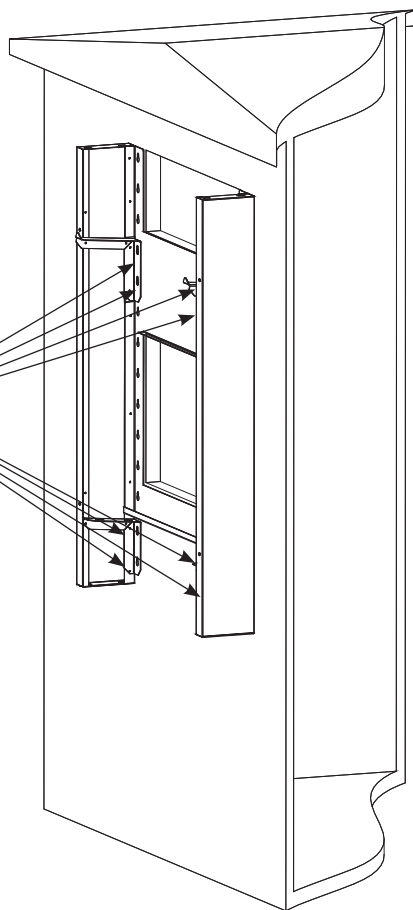
Mounting of frame



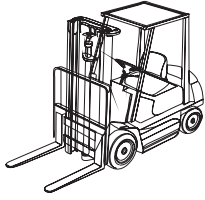
 **Caution**

Use appropriate screw amount and type according to wall structure

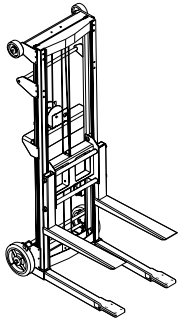
min 8x 



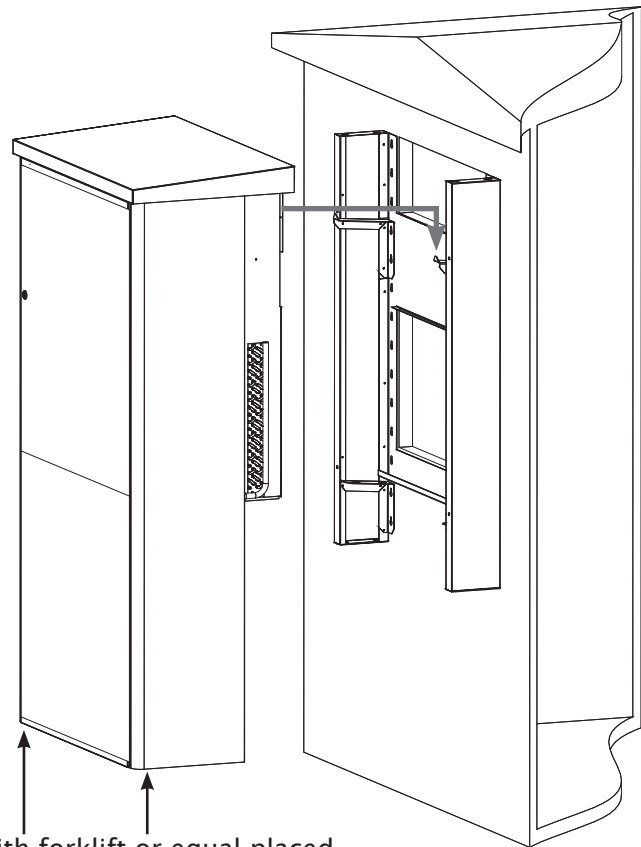
Lifting unit
onto bracket



or

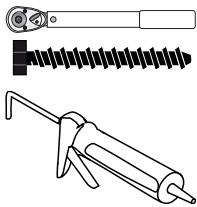


 Warning

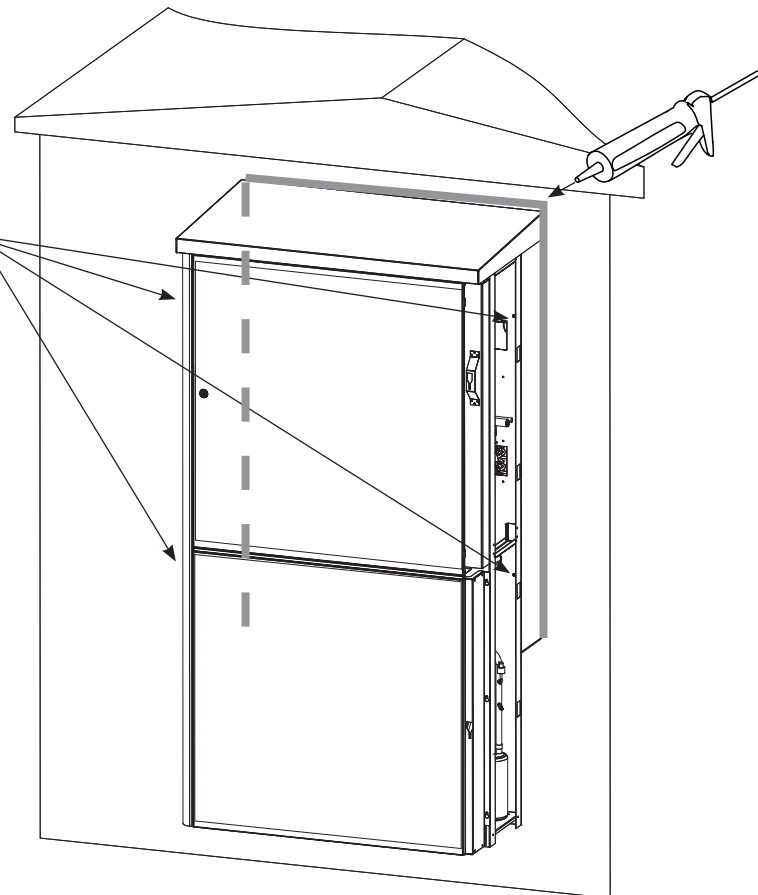


Hoist unit with forklift or equal placed
under bottom main cabinet

Securing and
sealing



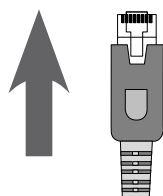
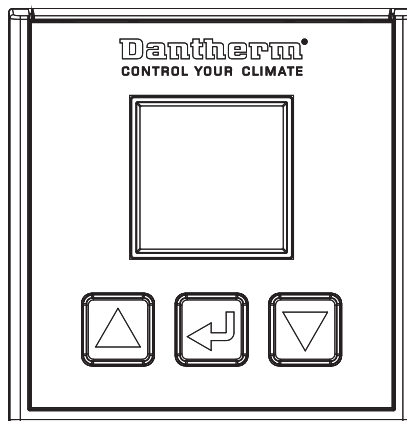
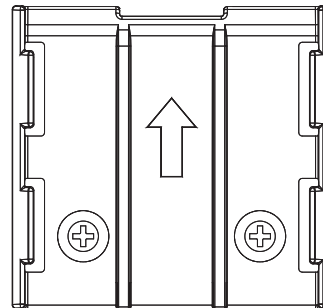
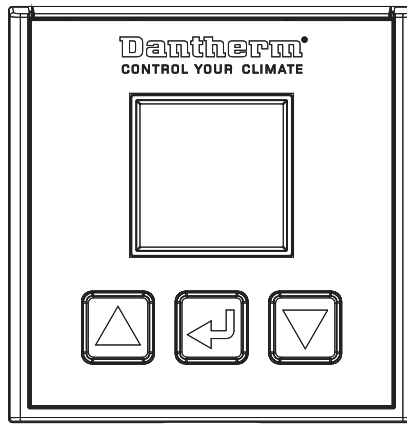
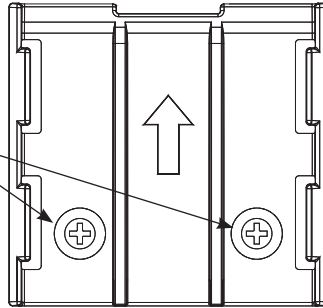
4x DIN 10



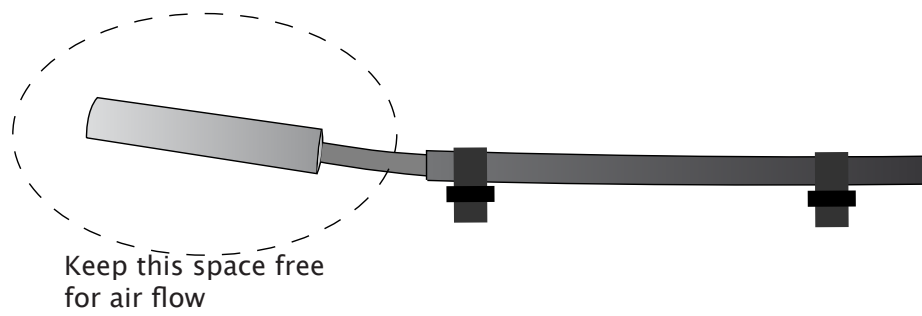
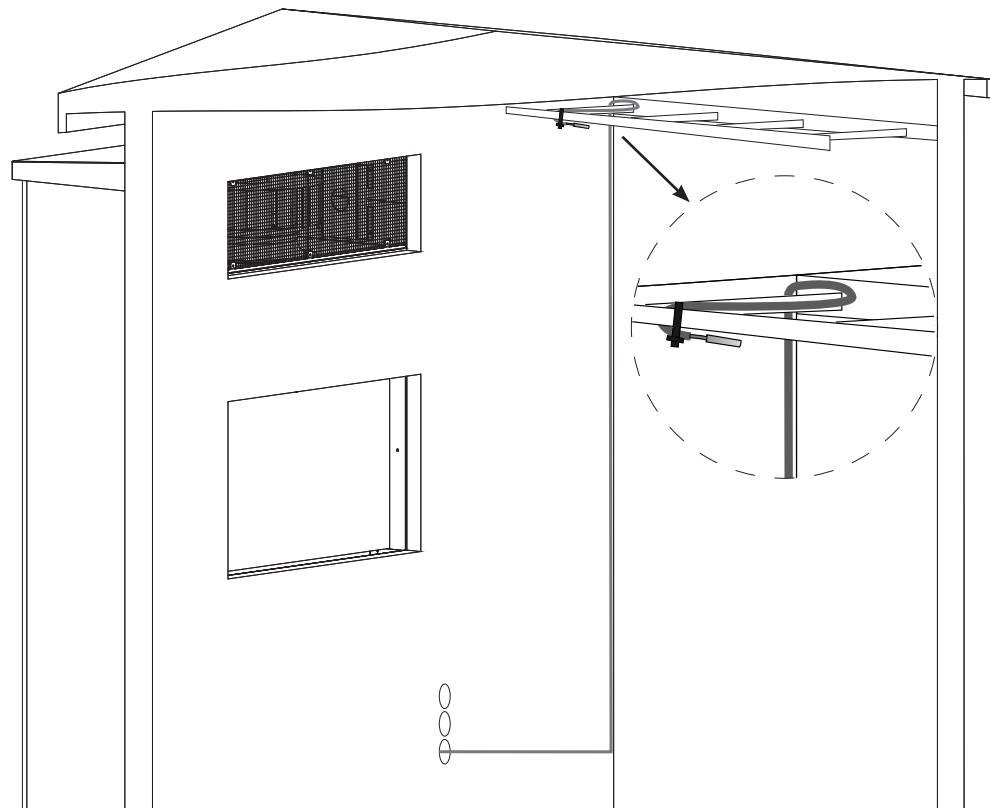
Mounting display



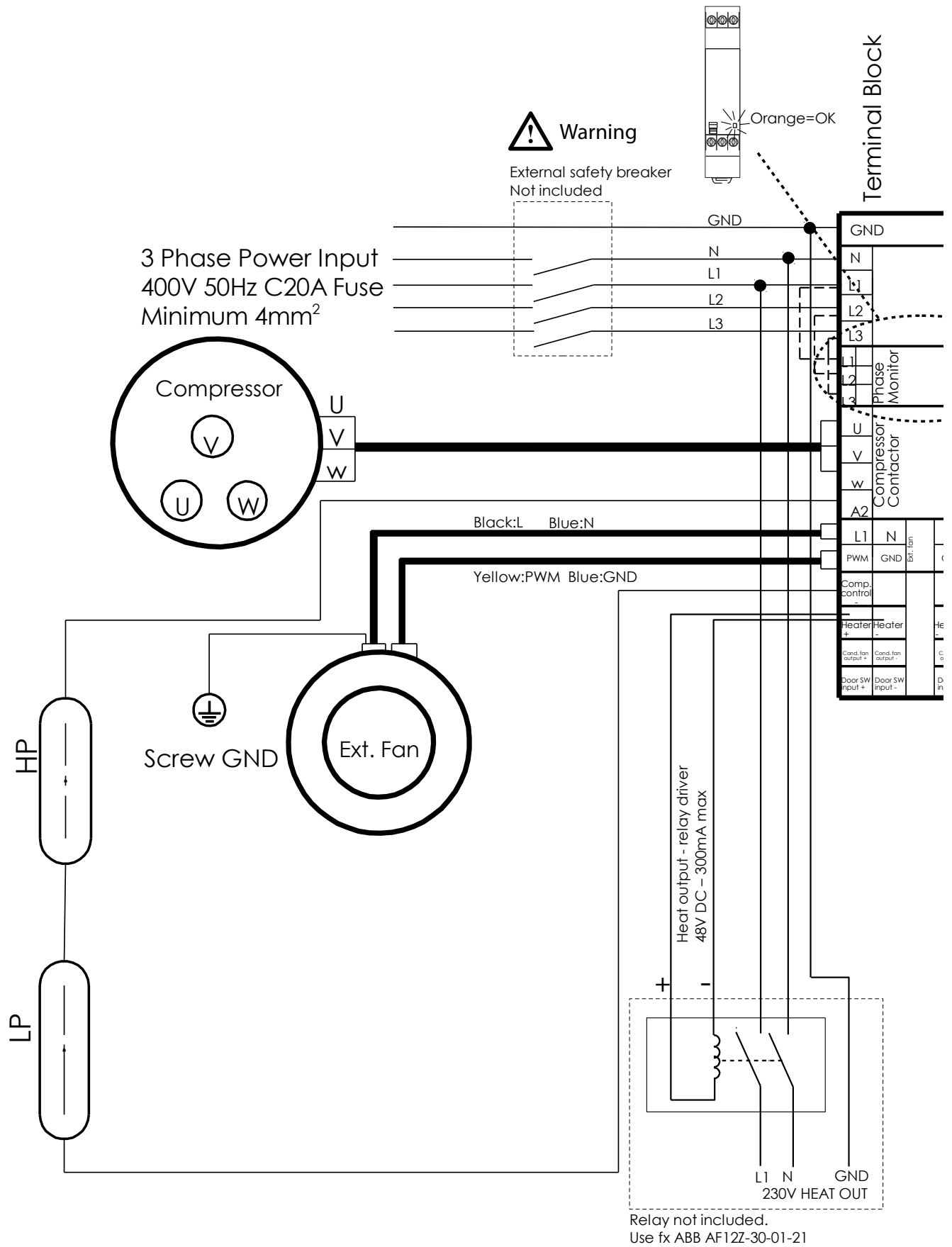
2x 

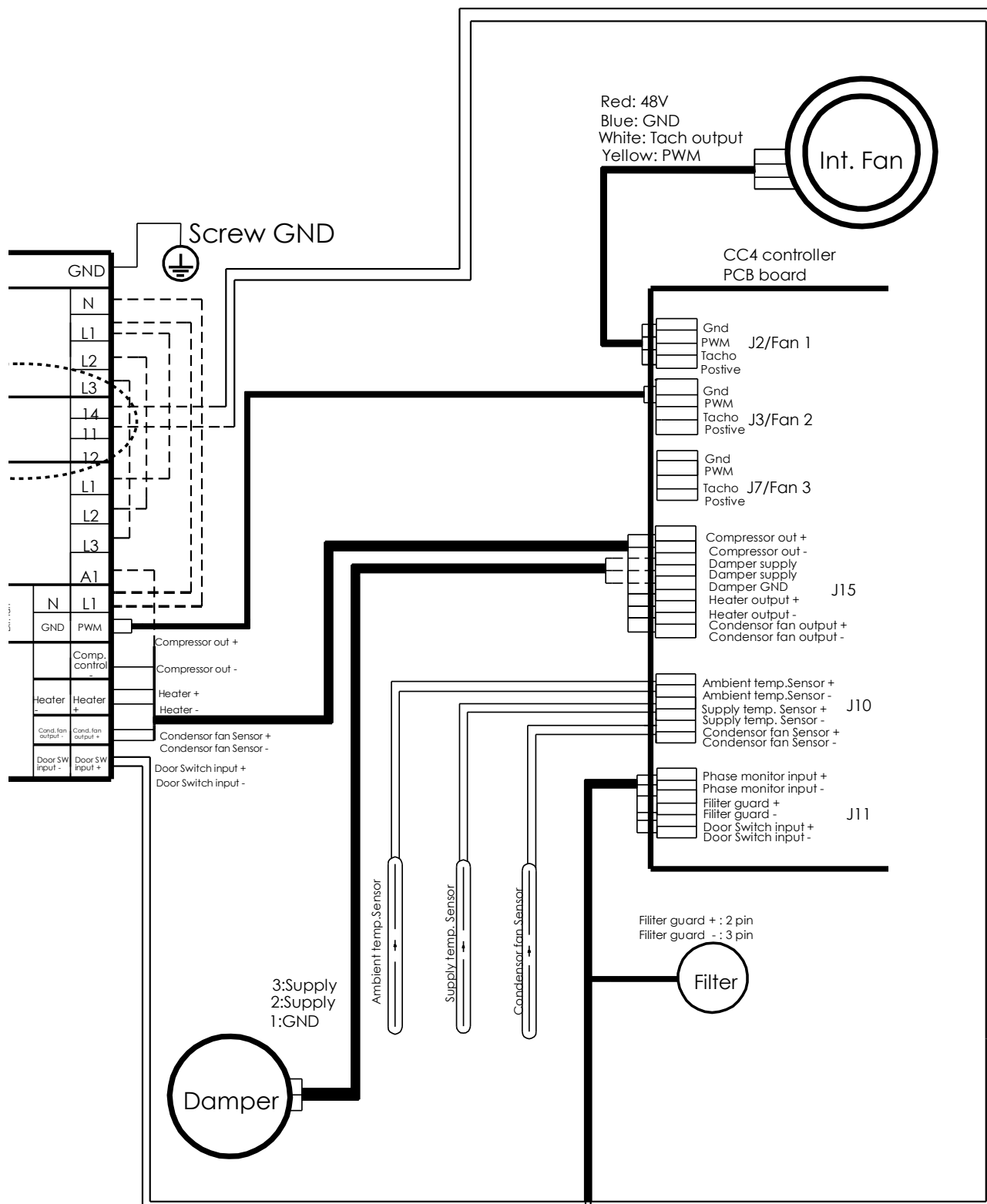


Mounting in-
door sensor

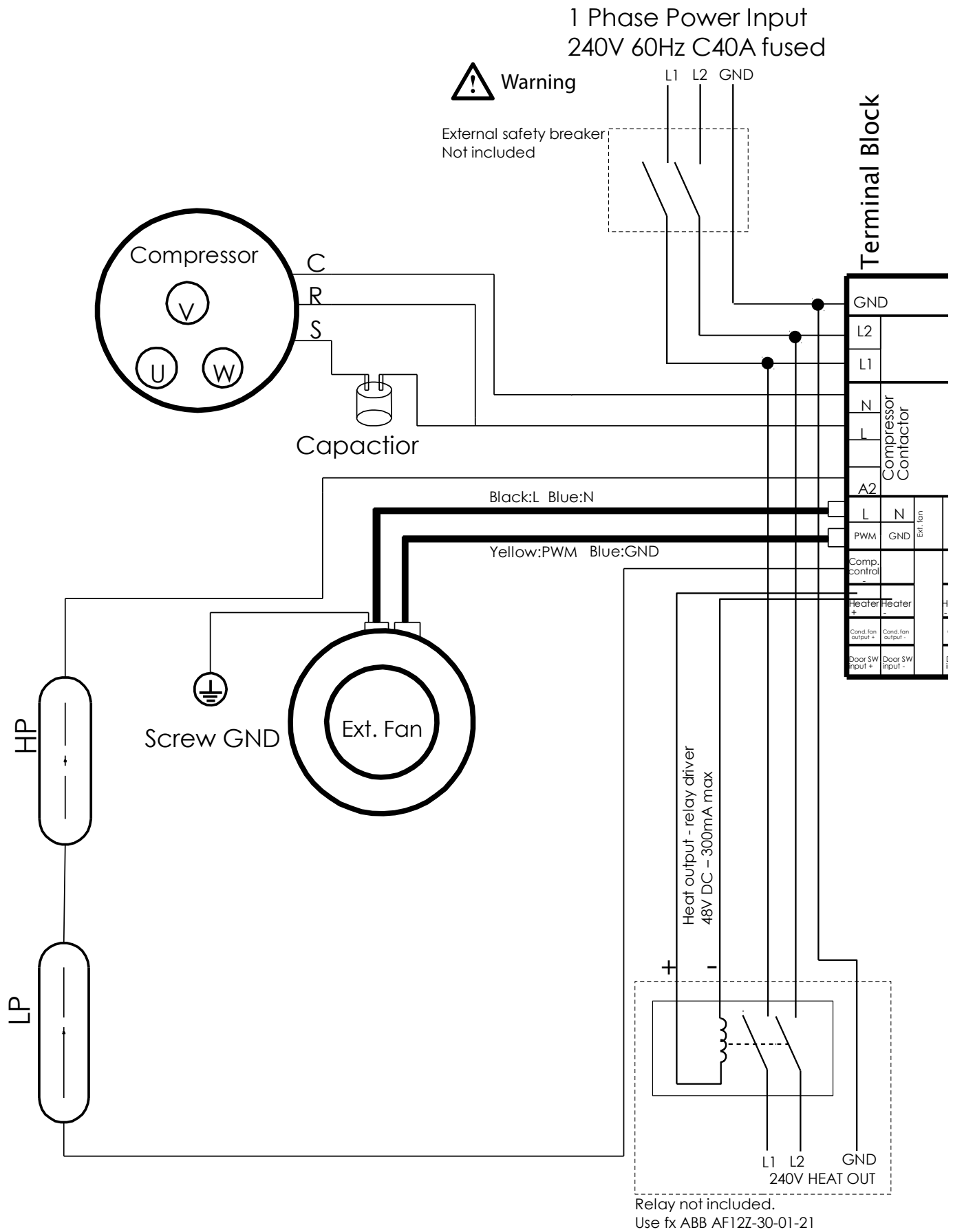


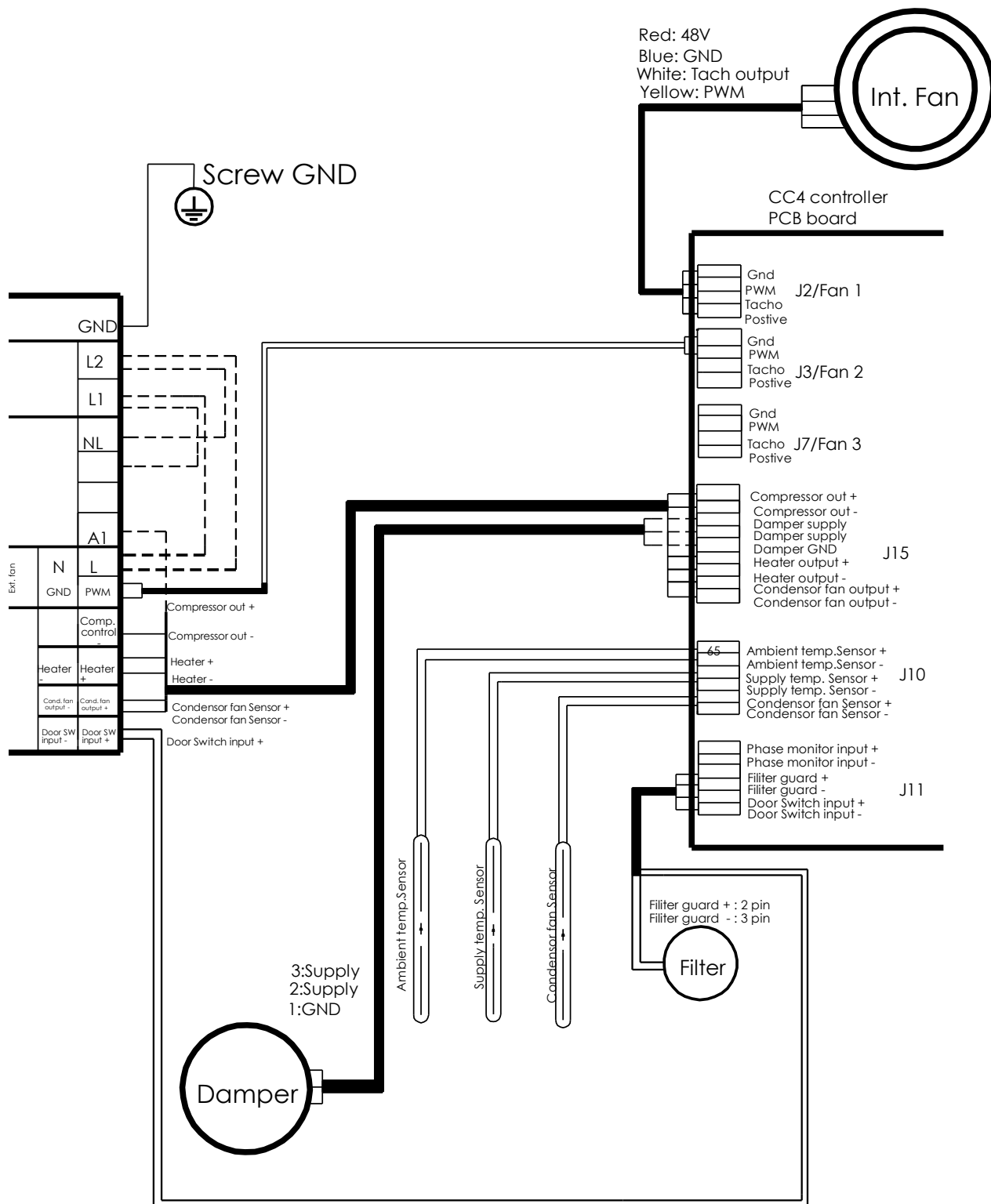
Unit schematics – 400V/50Hz – 3 phase



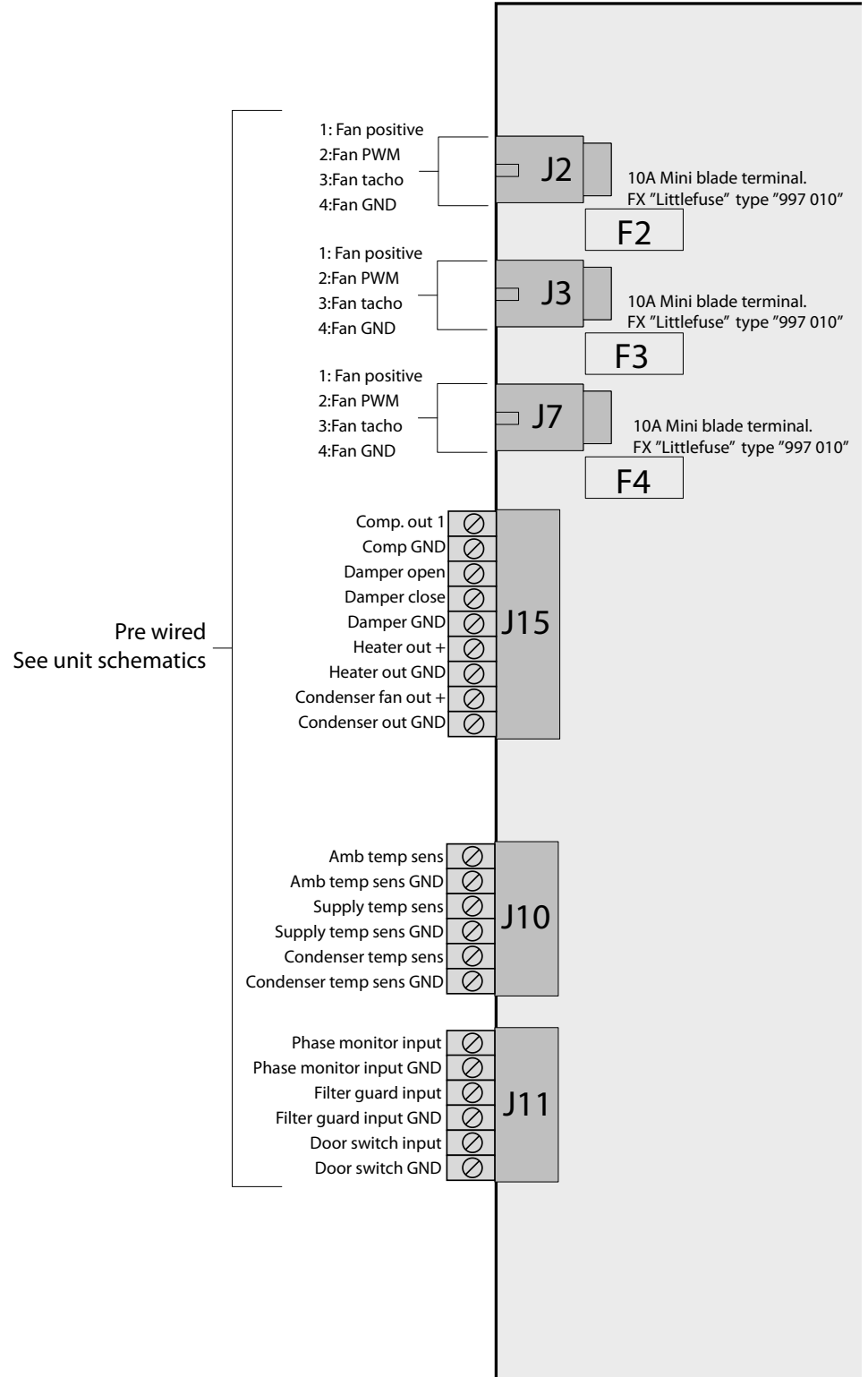


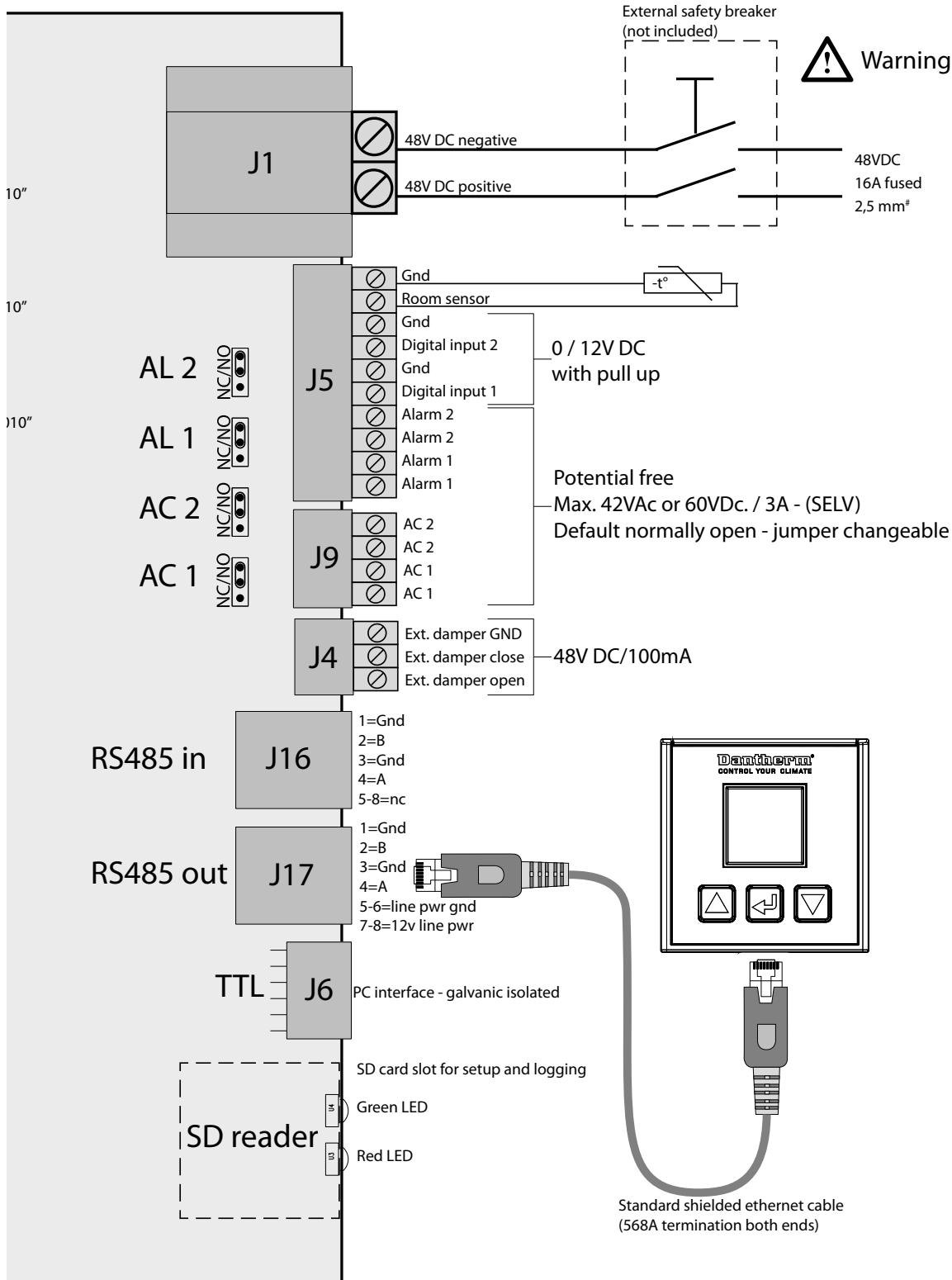
Unit schematics – 240V/60Hz – 1 phase



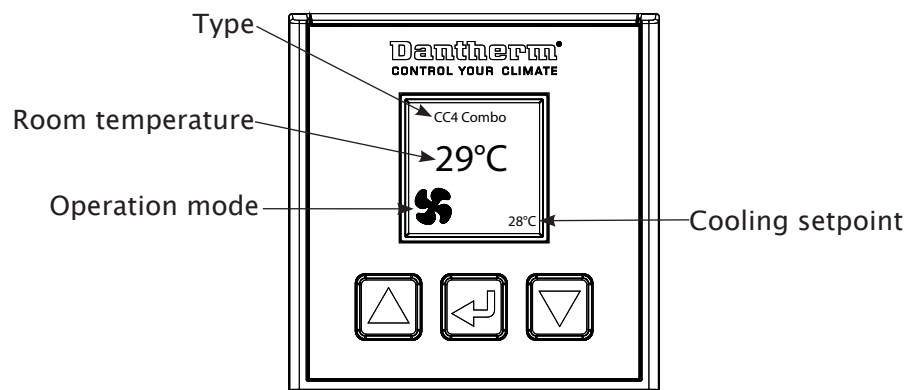







Controller connections



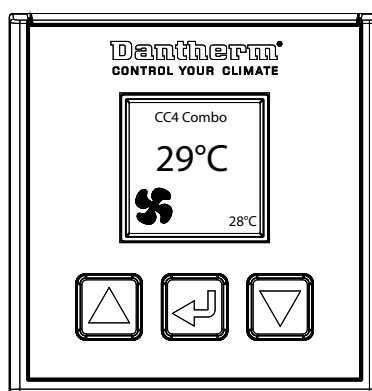





Display



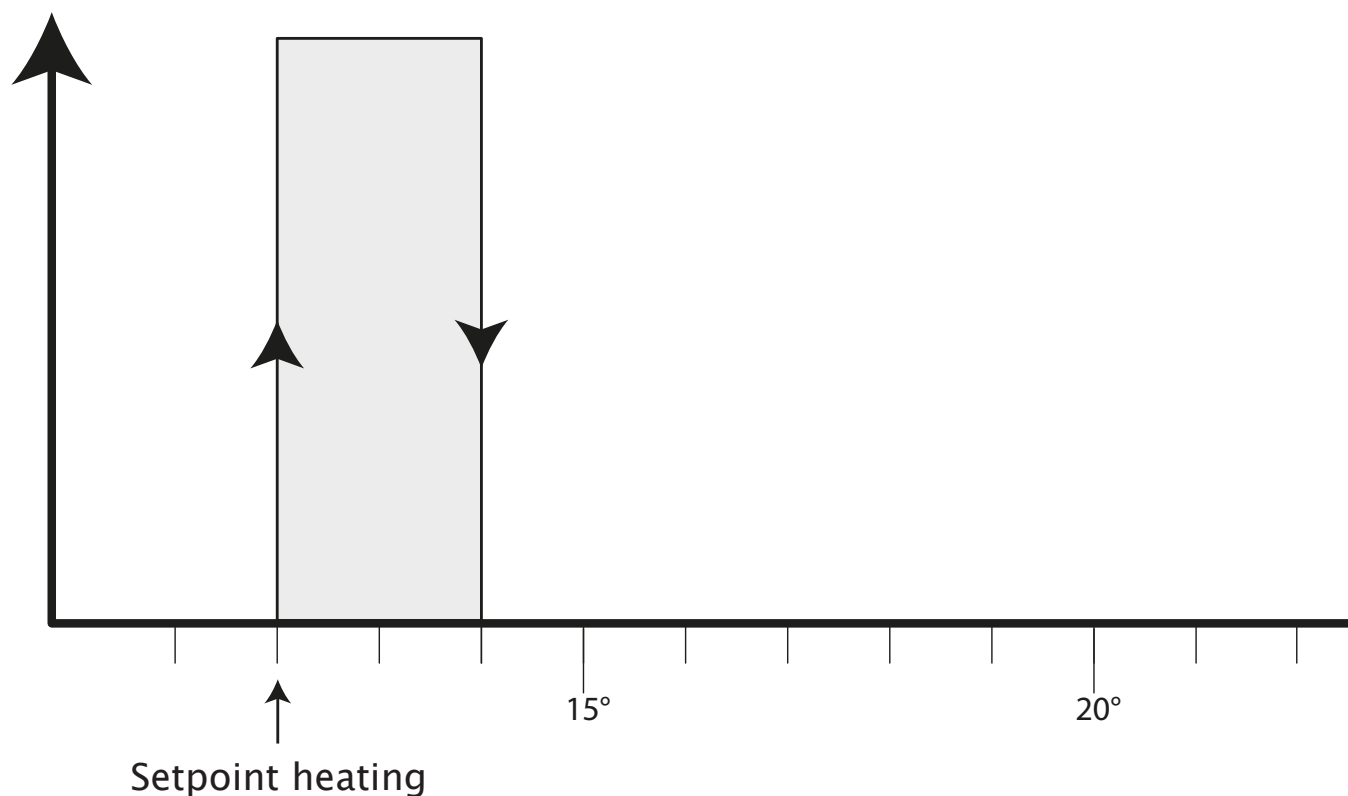
Mode	Description
	Free cooling
	Active cooling
	Heat and cirkulation
	Cirkulation
	Alarm

Changing parameters



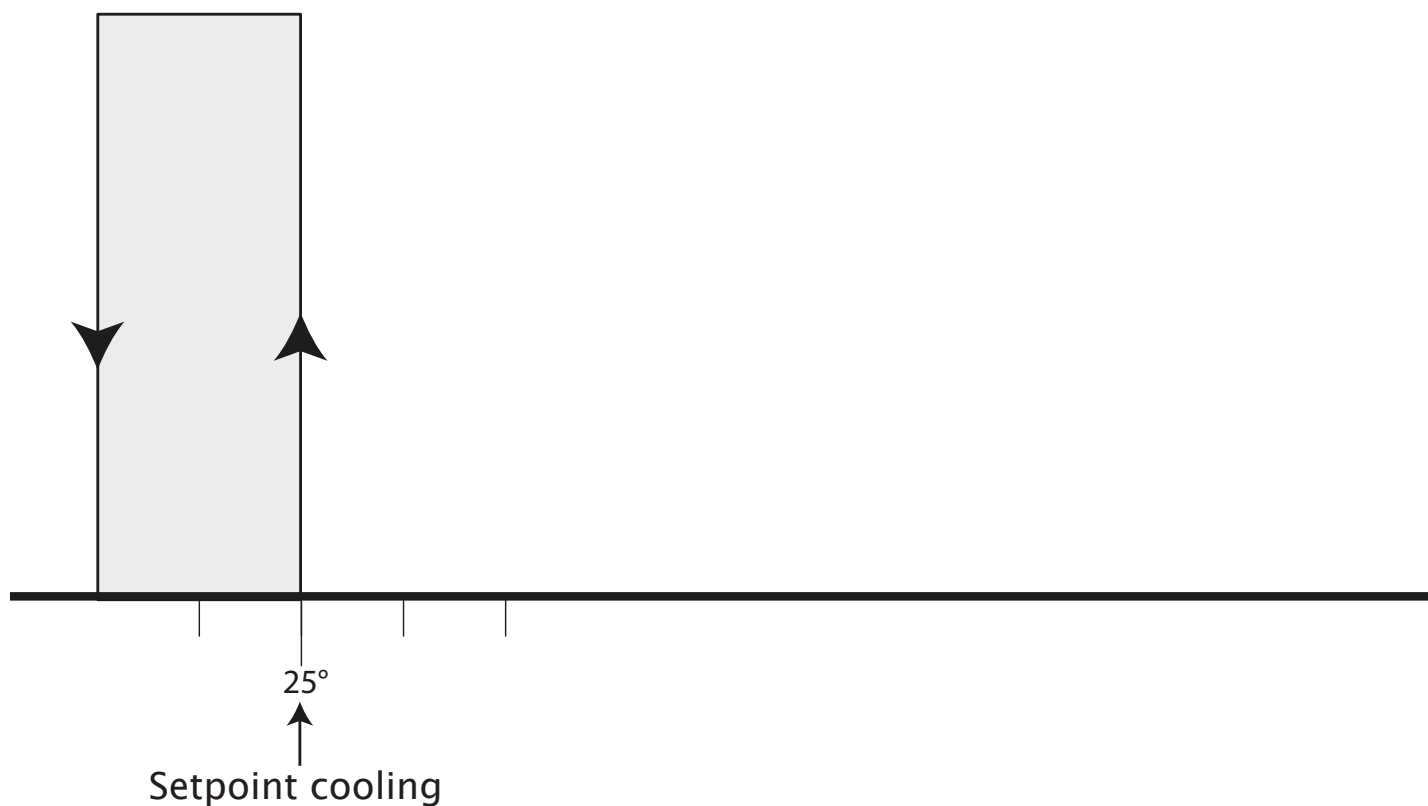
Mode			
Idle	Menu item up	Select item	Menu item down
menu item	Step value up	Store and return	Step value down

Control strategy



Parameters

Parameter	
Heater setpoint	The minimum acceptable shelter temperature, if lower than the setpoint
Cooling setpoint	The maximum shelter temperature, where the unit will start cooling if higher outside temperature
Lead/Lag AC1 & AC2	Automatic swapping between the AC1/AC2, choose OFF if not needed
Modbus slave address	Setting the appropriate MODBUS address to avoid RS485 address conflicts



Description	Default
For the external heat will be active.	12
Will shift from air circulation to cooling, freecooling if lower outside temperature, active cooling	25
FF if only one is connected	ON
Address conflicts	23

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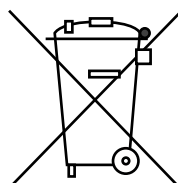
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