

# Commissioning record

For the Envistar series, EcoCooler and ThermoCooler HP

## Unit and property

<i>Order number</i>	<i>Unit designation</i>
<i>Customer name</i>	<i>Model and size</i>
<i>Customer reference</i>	<i>The customer's phone number</i>
<i>Object/Project name</i>	
<i>Installation address</i>	

## Commissioning instructions

Commissioning of the unit must be carried out by competent personnel using the checklists in this document and the attached documentation.

The unit must not be put into operation until all the items in the check list below have been checked off.

The product warranty is only valid if the unit has been properly commissioned.

The commissioning record applies to units delivered with Siemens Climatix (code MX) integrated control equipment.

## Attached documentation

For Installation Instructions, Technical Data, Control Diagram, Configuration Record and documentation for the Climatix hand-held terminal, refer to the documentation unique to the order at [docs.ivprodukt.com](https://docs.ivprodukt.com) - log in with the order number.

Note! The Installation Instructions, Control Diagram and Configuration Record are also physically included with the unit. There is usually a quick guide for the Climatix hand-held terminal on one of the unit's doors.

## IV Produkt Cloud

If IV Produkt Cloud Service+ is not already enabled for the unit when starting up, this is a service we recommend. It gives you full access to control and monitor the unit remotely. Read more at [www.ivprodukt.com/cloud](https://www.ivprodukt.com/cloud).

When you register IV Product Cloud for a new unit yourself, Service+ is included free of charge for one month. After that, it switches to the free service, IV Product Cloud Free, for continued connectivity with limited functionality. Contact IV Produkt to extend Service+.

Activate your unit on [cloud.ivprodukt.com](https://cloud.ivprodukt.com) (select Register).

## Control setup and installation

Check the following:	OK	Note
1. Visually inspect the unit for damage after transport and assembly. Refer to the separate Installation Instructions.		
2. That the unit is correctly set up and that there is sufficient free space for servicing. Refer to the separate Installation Instructions.		
3. Where appropriate – that any transport protection is removed from: – fans with steel spring suspension – the compressor assembly Top ThermoCooler HP size 06-10 – the thermal wheel and in front of the electric plate on the EcoCooler/ThermoCooler HP with sectioned configuration, Easy Access. Refer to the separate Installation Instructions and decals on the unit.		
4. That any packaging material is removed from the unit.		
5. Check the vertical position of the thermal wheel to ensure that no abnormal movement or misalignment has occurred during transport and installation.		
6. If applicable – that the reheating coil (electricity) is properly connected – that the pipe connection is correct and that the water coil is adjusted. Refer to the separate Installation Instructions.		
7. That ducts have been connected. Check air directions (supply air, outdoor air, and extract air). Refer to the separate Installation Instructions.		
8. Where appropriate – that drain connections/water traps (condensate water drain) are connected to the drain and that the drainage pipe does not have a negative slope. Note! ThermoCooler HP has two water traps. Refer to the separate Installation Instructions.		
9. That incoming control cables are connected. Refer to separate control diagram.		
10. Where appropriate – that all quick connectors between the parts of the device are connected/interconnected. Refer to the separate Installation Instructions.		
11. That separately delivered/additional components (e.g. sensors, detectors, timers, frost protection sensors) are fitted and connected to the correct terminals. Refer to separate Installation Instructions and control diagram.		
12. When adjusting the pressure – that the hoses are connected in the duct, and in the correct duct (supply air/extract air). Refer to the separate Installation Instructions.		
13. IMPORTANT! That the incoming supply voltage, zero and earth are connected.		

## Control via Climatix hand-held terminal

Check the following:	OK	Note
1. Make sure no error messages are displayed. Fix any errors. Refer to the separate documentation for the Climatix hand-held terminal.		
2. Start the unit by selecting the Auto mode. Refer to the separate documentation for the Climatix hand-held terminal.		
3. Check that the minimum airflow is achieved, refer to the values in the separate Technical Data and documentation for the Climatix hand-held terminal.		
4. Run through all control functions according to the unit's functional description, refer to the separate Control Diagram and documentation for the Climatix hand-held terminal.		
5. If the unit is equipped with a fire function, check that the fire function is tested according to the functional description of the unit, refer to the separate Control Diagram and documentation for the Climatix hand-held terminal.		
6. Schedule the unit's operating times. Refer to the separate documentation for the Climatix hand-held terminal.		
7. If necessary, adjust values. For original values/parameters, refer to the separate Configuration Record and documentation for the Climatix hand-held terminal.		
8. Save commissioning settings to the Climatix controller and SD card: Refer to the separate documentation for the Climatix hand-held terminal. Tip! Transfer and save the settings from the memory card to a computer for future use.		


## Setpoints and settings

For a complete list of functions and values/parameters, refer to the separate Configuration Record.

Action	Function	Value /Note			
Set value in the Climatix hand-held terminal	Unit > Settings temperature	Temperature control	Control mode		
			Setpoint tmp.	°C	
		Supply air compensation (only when changing the control type summer/winter control)	Supply air comp		°C
		Dead zone temperature (only if cooling is installed)	Deadzone tmp.		°C
		Min. and max. supply air setpoints (only with exhaust air/room cascade control)	Supply tmp min stpt		°C
	Supply tmp max stpt		°C		
	Unit > Settings air flows	Control - pressure/flow	Control mode		
			Sply fan st1 stpt	Exh fan step 1 stpt	
			Sply fan st2 stpt	Exh fan step 2 stpt	
			Sply fan st3 stpt	Exh fan step 3 stpt	
	Unit > Weekly Schedule	Weekly Schedule	Monday		
			Tuesday		
			Wednesday		
			Thursday		
			Friday		
			Saturday		
			Sunday		

## Inspect compressor part

The unit must be running during the inspection and be in operation for at least 20 minutes before the values are stable.

	<p><b>NB!</b> <b>Risk of compressor damage.</b> <b>The oil in the speed-controlled compressor must be warm before commissioning.</b> <b>The Cooling Unit/Reversible Heat Pump must be energised for at least 8 hours before the commissioning is carried out.</b></p>
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### ThermoCooler HP

The reversible heat pump is reversible and should be run in either cooling mode or heating mode during inspection. By default, cooling/heating is selected automatically depending on the outdoor air temperature.

With configuration in sections, Easy Access, the reversible heat pump must be run in cooling mode for at least 5 minutes when first commissioned.

- Outside temp below 16 °C = heating mode
- Outside temp above 16 °C = cooling mode

If the reversible heat pump needs to be run manually, this is done by setting the value for:

**Unit > Cooling > Cooling output signal / Heating output signal**

For instructions, refer to the separate documentation for the Climatix hand-held terminal.

### EcoCooler

By default, cooling is selected automatically depending on the outdoor air temperature.

Outdoor temp above 16 °C = cooling mode

If the cooling unit needs to be run manually, this is done by setting the value for:

**Unit > Cooling > Cooling output signal**

For instructions, refer to the separate documentation for the Climatix hand-held terminal.

# Inspect compressor part



<b>Product code</b>	<b>Number of circuits <sup>a</sup></b>
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Action		Component/Function	OK	Note/Value			
Set value in the Climatix hand-held terminal	Main overview	Outside air temperature		°C			
		Return air temperature		°C			
		Exhaust air temperature		°C			
		Supply air temperature		°C			
		Air flow		SF	m <sup>3</sup> /s	EF	m <sup>3</sup> /s
	Unit > Cooling <sup>b</sup>				Circuit 1	Krets 2	Circuit 3
		Superheat <sup>c</sup>			K	K	K
		Expansion valve opening <sup>d</sup>			%	%	%
		Evaporating temperature			°C	°C	°C
		Discharge temperature			°C	°C	°C
		Condensing temperature			°C	°C	°C
		Output signal <sup>e</sup>			%		
		Inverter signal output			%		
Inspection	Documentation available <sup>f</sup>						
	Reporting, leak detection and government reporting <sup>g</sup>						
	Noise and vibrations considered normal						

- a) With more circuits - note the value of each circuit in the table.
- b) Only for ThermoCooler HP or EcoCooler.
- c) The superheat status is read in order to determine the function of the cooling circuit. If the superheat value is approx. 7-12 K, this means that the amount of refrigerant and the expansion valve control are OK.
- d) If the opening of the expansion valve is 100%, contact IV Product [Control Support](#).
- e) ThermoCooler HP - Cooling/Heating, EcoCooler - Cooling
- f) For documentation, refer to [docs.ivprodukt.com](https://docs.ivprodukt.com) - log in with the order number. The Installation Instructions, Control Diagram and Configuration Record are also physically included with the unit. There is usually a quick guide for the Climatix hand-held terminal on one of the unit's doors.
- g) For further information, refer to national regulations for refrigerant handling.



## Acknowledgement

<i>Date commissioned</i>	<i>Signature (operator)</i>
<i>Commissioned by company/region</i>	<i>Name in block letters</i>

## Other notes and comments

## You are welcome to contact us

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