Commissioning record

For EcoHeater

Unit and property

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

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 - log in with the order number.

Note! The Installation Instructions, Control Diagram and Configuration Record are also physically included with the unit. On the inside of the control cabinet door there is a quick guide to the Climatix hand-held terminal.

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.

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 (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. Refer to the separate Installation Instructions and decals on the unit.		
4.	That any packaging material is removed from the unit.		
5.	That the flexible hoses är mounted and the liquidflow of the heatpump is adjusted. Refer to the separate Installation Instructions.		
6.	That ducts and sleeves have been connected. Refer to the separate Installation Instructions.		
7.	That drain connections/water traps (condensate water drain) are connected to the drain and that the drainage pipe does not have a negative slope. Refer to the separate Installation Instructions.		
8.	That incoming control cables are connected. Refer to separate control diagram.		
9.	That all quick connectors between the parts of the device are connected/interconnected. Refer to the separate Installation Instructions.		
10.	That separately delivered/additional components (e.g. sensors, detectors) are fitted and connected to the correct terminals. Refer to separate control diagram.		
11.	When mounting in suction chamber, check that the hose for the reference point pressure sensor duct (GP4) is connected outside the suction chamber.		
12.	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/waterflow 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	
Set value in the Climatix hand-held terminal	*Unit > Settings air flows*	Control	*Control mode*
			Exh fan step 1 stpt
			Exh fan step 2 stpt
			Exh fan step 3 stpt
	Unit > Time scheduler	Weekly Schedule	

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.

!	**NB!** **Risk of compressor damage.** **The oil in the speed-controlled compressor must be warm before commissioning.** **The Heat Pump must be energised for at least 8 hours before the commissioning is carried out.**

Temperature control is controlled either by the accumulation tank temperature, internal radiator curve or external control signal (0-10V). During inspection, the heat pump must be run according to the control diagram's functional description.

If the unit needs to be run manually, this is done by setting the value for:
Unit > Heatpump > *Actual heating demand*

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

Inspect compressor part

Product code

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
		Air flow		EF		m³/s
		Water temp: In (HP Return) and Out (HP Outgoing)		In: °C	Out:	°C
		Waterflow				l/s
	Unit > Heatpump	Superheat *a*				K
		Expansion valve opening *b*				%
		Evaporating temperature				°C
		Discharge temperature				°C
		Condensing temperature				°C
		Actual heating demand				%
		Inverter signal output				%
Inspection		Documentation available *c*				
		Reporting, leak detection and government reporting *d*				
		Noise and vibrations considered normal				

a) *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.*

b) *If the opening of the expansion valve is 100%, contact IV Product Control Support.*

c) *For documentation, refer to docs.ivprodukt.com - log in with the order number. The Installation Instructions, Control Diagram and Configuration Record are also physically included with the unit. On the inside of the control cabinet door there is a quick guide to the Climatix hand-held terminal.*

d) *Regarding requirements for IV Produkt's integrated Cooling Units, Heat Pumps and Reversible Heat Pumps, refer to the document Leak Detection at ivprodukt.docfactory.com or see the documentation specific to the order at docs.ivprodukt.com - log in with the order number.*

Acknowledgement

Date commissioned	Signature
Commissioned by company/region	Name in block letters

Other notes and comments

IV PRODUKT

Air handling with focus on LCC

You are welcome to contact us

Switchboard:	+46 (0)47 075 88 00	
Control support:	+46 (0)47 075 89 00	styr@ivprodukt.se
Service:	+46 (0)47 075 89 99	service@ivprodukt.se
Spare parts:	+46 (0)47 075 88 00	spareparts@ivprodukt.com

Visit us at: www.ivprodukt.com
Documentation for your unit: docs.ivprodukt.com
Technical documentation: docs@ivprodukt.se