
Commissioning

**WARNING**

Only qualified persons should conduct commissioning.

**CAUTION**

Preliminary electrical system checks such as earth continuity, polarity, resistance to earth and short circuit must be carried out by using a suitable test meter by a competent person.

**NOTICE**

Installation manual / Installer reference guide. This general commissioning checklist can be used as a guideline and reporting template during the commissioning and hand-over to the user.

For more detailed commissioning instructions, see the installation manual or the installer reference guide.

Installation by	
Company	
Contact person	
Telephone N°	
Email address	
Date	

Commissioning by	
Company	
Name	
Telephone N°	
Email address	
Date	

End customer	
Name	
Street – N°	
Zip code – City	
Country	
Telephone N°	
Email address	

Installation

Outdoor unit:	Refrigerant type	<input type="text"/>	
Model name		Standard weight	<input type="text"/> kg
Serial N°		Additional weight	<input type="text"/> kg
Manufacturing date		Total weight	<input type="text"/> kg
Software version		The total piping length	<input type="text"/> m
		The refrigerant piping difference outdoor-indoor	<input type="text"/> m
Indoor unit:	Reference installation	<input type="text"/>	
Model name	Location of logbook	<input type="text"/>	
Serial N°	Other options	<input type="text"/>	
Manufacturing date		<input type="text"/>	
Options (controllers, ...)		<input type="text"/>	
Software version		<input type="text"/>	

Changed setting (field setting)

Note: Add all changed settings and their current values.

Changed on unit:	Changed setting:

Safety / last minute risk analysis

Note: Before continuing, make sure all required safety measures are taken. If not, do NOT start commissioning. Perform a last minute risk analysis on the following items. For more details, see the installer reference guide of the unit.

- | | |
|--|--|
| <input type="checkbox"/> Safe access to the installation | <input type="checkbox"/> General check on possible safety hazards |
| <input type="checkbox"/> Enclosed workplace | <input type="checkbox"/> Emergency exits |
| <input type="checkbox"/> Precaution taken for working at heights | <input type="checkbox"/> Presence of necessary personal protection equipment |
| <input type="checkbox"/> Precaution taken for electrical hazards | <input type="checkbox"/> No refrigerant leakage |

Electrical system

Main voltage (power supply) V

Cable section (type and size):

Outdoor unit mm²

Indoor unit mm²

Operation check done on:

- | | |
|---|------------------------------|
| <input type="checkbox"/> All electrical connections make good contact | |
| <input type="checkbox"/> Residual current device | type: <input type="text"/> |
| <input type="checkbox"/> Fuse | rating: <input type="text"/> |
| <input type="checkbox"/> Circuit breaker | type: <input type="text"/> |

Compressor components check:

- | |
|--|
| <input type="checkbox"/> Electrical insulation |
| <input type="checkbox"/> Winding resistance |

Pre-Commissioning

Note: Full installation has to be done in line with the installer reference guide. If NOT, do NOT commission and solve all open issues first.

- | | | | |
|--|------------------------------|-----------------------------|---|
| Outdoor unit and indoor unit are properly mounted? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Outdoor unit is protected against snowfall and freezing conditions (in cold climates, if applicable)? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not applicable |
| Outdoor unit is protected against strong winds (if applicable)? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not applicable |
| Outdoor unit is protected against from direct sea winds (if applicable)? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not applicable |
| Sufficient space around the outdoor/indoor unit for servicing and air circulation? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| No corrosion/oxidation present? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| All labels are present and matching with the unit? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| | | | |
| No damaged components or squeezed pipes on the inside of indoor and outdoor unit? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Indoor and outdoor unit fan can rotate freely? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Air inlet or air outlet is NOT blocked? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Drainage of the outdoor unit and indoor units flows smoothly? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| | | | |
| Both stop valves are open before operation? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Piping is correctly insulated? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Refrigerant piping is installed according to the installation manual? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Fluorinated greenhouse gases label is filled correctly? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| | | | |
| Electrical system installed according to the installation manual? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| System is properly earthed? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Power supply wiring is according to the specifications? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| The fuses, circuit breakers are installed according the installation manual? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| All control wiring connections between indoor and outdoor are finished? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| All electronic components are OK? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Position of sensors and thermistors is correct? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| The suspend connector on the outdoor unit PCB removed for connection with Sky Air indoor unit? (if applicable) | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Not applicable |

Test run

Note: Perform the Test run according to the instructions in the installation manuals of the connected units and then check below items

	Indoor unit		
Indoor unit fan rotates freely	<input type="checkbox"/> OK	<input type="checkbox"/> Not OK	
Airflow direction louvers and flaps operate normally (if applicable)	<input type="checkbox"/> OK	<input type="checkbox"/> Not OK	
WLAN adaptor connection (if applicable)	<input type="checkbox"/> OK	<input type="checkbox"/> Not OK	
	Outdoor unit		
Outdoor unit fan rotates freely	<input type="checkbox"/> OK	<input type="checkbox"/> Not OK	
	System		
Abnormal noise	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Are there any error codes?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If yes, write down the error codes <input style="width: 100px;" type="text"/>

Operation check

Note: Optional (only for certified service engineers)

Outdoor air temperature °C

	Indoor unit			
Operation mode	<input style="width: 100%; height: 15px;" type="text"/>			
Set temperature	°C	<input style="width: 100%; height: 15px;" type="text"/>		
Inlet air temperature	°C	<input style="width: 100%; height: 15px;" type="text"/>		
Outlet air temperature	°C	<input style="width: 100%; height: 15px;" type="text"/>		
Room thermistor	°C	<input style="width: 100%; height: 15px;" type="text"/>		
Indoor heat exchanger thermistor	°C	<input style="width: 100%; height: 15px;" type="text"/>		
	Outdoor unit			
Inlet air temperature	°C	Outdoor heat exchanger thermistor	°C	<input style="width: 100%; height: 15px;" type="text"/>
Outlet air temperature	°C	Discharge pipe thermistor	°C	<input style="width: 100%; height: 15px;" type="text"/>
Gas pipe pressure	bar	<input style="width: 100%; height: 15px;" type="text"/>		
		L1 (A)	L2 (A)	L3 (A)
Compressor data		<input style="width: 50px; height: 15px;" type="text"/>	<input style="width: 50px; height: 15px;" type="text"/>	<input style="width: 50px; height: 15px;" type="text"/>

Is the unit ready for operation?

- Yes
- No (specify below why not)

Shortcomings that were not fixed during the commissioning:

Measures to be taken in order to resolve the remaining shortcomings:

Name and signature client

Name and signature of person who performed commissioning





