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	

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

Installation

Outdoor unit:

Model name	
Serial N°	
Manufacturing date	
Software version	

(if it differs from the factory setting)

Refrigerant type

Standard weight		kg
Additional weight		kg
Total weight		kg
Total piping length		m
Refrigerant piping highest difference outdoor-indoor		m

	Indoor unit 1	Indoor unit 2	Indoor unit 3	DHW tank
Model name				
Serial N°				
Manufacturing date				
Options (controllers, …)				
Software version				

(if it differs from the factory setting)

Reference installation	
Location of logbook	

Other options:

Changed setting (field setting)

Note: Add all changed settings.

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.

- ☐ Safe access to the installation
- ☐ Enclosed workplace
- ☐ Precaution taken for working at heights
- ☐ Precaution taken for electrical hazards
- ☐ General check on possible safety hazards
- ☐ Emergency exits
- ☐ Presence of necessary personal protection equipment
- ☐ No refrigerant leakage

Electrical system

Main voltage (power supply) _____ V

Cable section (type and size):

Outdoor unit _____ mm^2

Indoor unit _____ mm^2

Operation check done on:

- ☐ All electrical connections make good contact

Outdoor unit			DHW tank		
☐ Residual current device	type:		☐ Residual current device	type:	
☐ Fuse	rating:		☐ Fuse	rating:	
☐ Circuit breaker	type:		☐ Circuit breaker	type:	

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?	☐ Yes	☐ No	
Outdoor unit is protected against snowfall and freezing conditions (in cold climates, if applicable)?	☐ Yes	☐ No	☐ Not applicable
Outdoor unit is protected against strong winds (if applicable)?	☐ Yes	☐ No	☐ Not applicable
Outdoor unit is protected against from direct sea winds (if applicable)?	☐ Yes	☐ No	☐ Not applicable
Sufficient space around the outdoor/indoor unit for servicing and air circulation?	☐ Yes	☐ No	
No corrosion/oxidation present?	☐ Yes	☐ No	
All labels are present and matching with the unit?	☐ Yes	☐ No	
No damaged components or squeezed pipes on the inside of indoor and outdoor unit?	☐ Yes	☐ No	
Indoor and outdoor unit fan can rotate freely?	☐ Yes	☐ No	
Air inlet or air outlet is NOT blocked?	☐ Yes	☐ No	
Drainage of the outdoor unit and indoor units flows smoothly?	☐ Yes	☐ No	
All stop valves are open before operation?	☐ Yes	☐ No	
Piping is correctly insulated?	☐ Yes	☐ No	
Refrigerant piping is installed according to the installation manuals?	☐ Yes	☐ No	
Fluorinated greenhouse gases label is filled correctly?	☐ Yes	☐ No	
Electrical system installed according to the installation manuals?	☐ Yes	☐ No	
System is properly earthed?	☐ Yes	☐ No	
Power supply wiring is according to the specifications?	☐ Yes	☐ No	
The fuses, circuit breakers are installed according the installation manuals?	☐ Yes	☐ No	
All control wiring connections between indoor and outdoor are finished?	☐ Yes	☐ No	
All electronic components are OK?	☐ Yes	☐ No	
Position of sensors and thermistors is correct?	☐ Yes	☐ No	
The suspend connector on the outdoor unit PCB removed for connection with Sky Air indoor unit? (if applicable)	☐ Yes	☐ No	☐ 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 1		Indoor unit 2		Indoor unit 3		DHW tank	
Indoor unit fan rotates freely	☐ OK	☐ Not OK	☐ OK	☐ Not OK	☐ OK	☐ Not OK		
Airflow direction louvers and flaps operate normally (if applicable)	☐ OK	☐ Not OK	☐ OK	☐ Not OK	☐ OK	☐ Not OK		
WLAN adaptor connection (if applicable)	☐ OK	☐ Not OK	☐ OK	☐ Not OK	☐ OK	☐ Not OK	☐ OK	☐ Not OK

	Outdoor unit	
Outdoor unit fan rotates freely	☐ OK	☐ Not OK

	System			
Abnormal noise	☐ Yes	☐ No		
Are there any error codes?	☐ Yes	☐ No	If yes, write down the error codes	

Operation check

Note: Optional (only for certified service engineers)

Outdoor air temperature °C

		Indoor unit 1	Indoor unit 2	Indoor unit 3
Operation mode				
Set temperature	°C			
Inlet air temperature	°C			
Outlet air temperature	°C			
Room thermistor	°C			
Indoor heat exchanger thermistor	°C			
Gas pipe thermistor	°C			
Liquid pipe thermistor	°C			

		DHW tank
DHW temperature **before** tank test run	°C	
DHW temperature **after** tank test run	°C	
Refrigerant temperature	°C	

		Outdoor unit		
Inlet air temperature	°C		Outdoor heat exchanger thermistor	°C
Outlet air temperature	°C		Discharge pipe thermistor	°C
Gas pipe pressure	bar		Liquid pipe pressure	bar

	L1 (A)	L2 (A)	L3 (A)
Compressor data			

Overall result

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

Copyright 2022 Daikin

4P682906-1 2022.01