

# Check list for outdoor units commissioning



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Customer:	Location:
	Location.
	Date:
Equipment Unit	Serial numbers
description: Feet Kit:	
Control cabinet:	
Expansion tank:	
Other options:	
Reference	e information
Customer representative:	
Name:	(Print)(Signature)
Position:	(Print)
LU-VE Service engineer	
Name:	(Print)(Signature)
	(Print)
Date:	
Dato.	

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Commissioning completed:	
Name (Customer)	(Print)
(Sign	ature)
Position:	(Print
Name (LU-VE)	(Print)
(Sign	ature)
Position:	(Print)
Document Revision no.	

SECTION A – VISUAL CHECK					
	Check Mark				
	Yes/No	At witnessed Inspection	Remark		
Absence of visible damages due to the unit handling					
All needed parts arrived on Site					
Instruction manual is on Site					
Coil surface is clean and without visible damages					
Presence of antivibration dampers (recommended)					
Presence of expansion joints piping (recommended)					

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#### SECTION B - MECHANICAL CHECKS Check Mark At witnessed Inspection Yes/No Remark Fans protection grids are fixed Finned coil protection grids are fixed (\*) Installation layout according to the "Installation manual" Pipeline Flange connections well supported and aligned with the radiator flanges Direction of fluid flow according to the labels/stickers In-Out Presence of venting and draining valves or automatic valves Check positioning of Vent Valve Check positioning Drain Valve Installation on steel structure (\*)

(\*) if within scope of supply



### SECTION C - ELECTRICAL CHECKS **BEFORE STARTING MACHINE Check Mark** At witnessed Yes/No Remark Inspection Electrical wiring is according to the supplied scheme In case of power supply from Frequency Converter EMC Compliance (\*\*) Sinusoidal filters are strongly recommended Check correct setpoint of the motor protections/circuit breakers Power supply voltage according to the unit datasheet/motor label In case of EC fans driven by customer check the correct input signal range

(\*\*) EMC=Electromagnetic compatibility. Equipment items or systems dot not interfere with or prevent each other's correct operation through spurious emission and absorption of electromagnetic interference.



SECTION D – STARTING Hydraulic circuit				
	Check Mark			
	Yes/No	At witnessed Inspection	Remark	
Fill the liquid circuit slowly to avoid "hummer effect"				
Vent air Liquid Cooler				
Run the pump(s) and re-check the venting				
Look for visible leakages				
Venting again after some hours (engine off)				

SECTION E – STARTING Fans				
	Check Mark			
	Yes/No	At witnessed Inspection	Remark	
Fan Impellers can rotate freely				
Put in operation at 100% one by one the fan motors and check if (***):				
- There are visible vibrations				
- Obstacles				
- Abnormal noise				
- Correct rotation direction				

(\*\*\*) Check max number starts per hour <5, depending on the motor class (see fan technical datasheet)

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## **SECTION F - OPTIONAL SUPPORT** STRUCTURE Check Mark At witnessed Yes/No Remark Inspection Compare visual assembling with the drawing All parts are correctly Installed Indicate if: Profiles are installed correctly Vertical profiles are fixed on the concrete plat There are Visible defects Customer checked that bolts are well tight Ladder is fixed Handrails are fixed

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#### Sketch of the Installation/Plant and Support structure

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Additional I	Notes:			

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