

LIST OF STEPS TO FOLLOW BEFORE STARTING KAISAI HEAT PUMP to be performed by the installer

The list is verified during commissioning by the Authorized Partner

	MODEL	SERIAL NUMBER
ODU-EXTERNAL UNIT		
IDU-INTERNAL UNIT		

	INDEX	KIND OF ACTIVITY	STATUS	NOTES
EQUIPMENT FOUNDATION				
ODU-JEDN. EXTERNAL	100	Remove the exchanger cover	OBLIGATORY	
	101	Remove the compressor transport lock (selected models)	OBLIGATORY	
	102	Place on foundation / support structure	OBLIGATORY	
	103	Have vibration isolators been used?	YES <input type="checkbox"/> NO <input type="checkbox"/>	
	104	Locate the device min. 40 cm above ground level	OBLIGATORY	
	105	Position the device in relation to the walls/panels according to the DTR	OBLIGATORY	
	106	Have you drained the condensate from the device?	YES <input type="checkbox"/> NO <input type="checkbox"/>	
	107	Was an additional heating cable used?	YES <input type="checkbox"/> NO <input type="checkbox"/>	
	108	Has drainage been performed under the device?	YES <input type="checkbox"/> NO <input type="checkbox"/>	
	109	Level the device	OBLIGATORY	
IDU-JEDN. INTERNAL (if applicable)	200	Position in relation to walls, floor, ceiling and obstacles according to DTR	OBLIGATORY	
	201	Has a condensate drainage system been installed?	YES <input type="checkbox"/> NO <input type="checkbox"/>	
PLUMBING				
PLUMBING	300	Use conduit and fitting materials approved for CO installation.	OBLIGATORY	
	301	Make supports for installations and fittings	OBLIGATORY	
	302	Perform thermal insulation of the installation and fittings	OBLIGATORY	
	303	Specify the material, inside diameter of the pipes and distance between the pump and the DHW tank	OBLIGATORY	
	304	Specify the material, inside diameter of the lines and distance between the pump and the coupling	OBLIGATORY	
	305	Install a mesh filter on the return to the hydraulic module (installation in the correct position)	OBLIGATORY	
	306	Has a magnetic filter been installed on the return to the hydraulic module?	YES <input type="checkbox"/> NO <input type="checkbox"/>	
	307	Has an air separator been installed?	YES <input type="checkbox"/> NO <input type="checkbox"/>	
	308	Is a buffer installed and connected on the return?	YES <input type="checkbox"/> NO <input type="checkbox"/>	capacity <input type="text"/>
	309	Has a hydraulic coupling been installed and connected?	YES <input type="checkbox"/> NO <input type="checkbox"/>	capacity <input type="text"/>
	310	Install the shut-off valves and screw fittings before the hydraulic module (Split/Monoblock)	OBLIGATORY	
	311	Install isolation valves upstream and downstream of components requiring service (e.g., filter)	OBLIGATORY	
	312	Check the pre-pressure in the expansion vessels	OBLIGATORY	
	313	Perform flushing of the plumbing system	OBLIGATORY	
	314	Perform a leakage test of the plumbing system 2.5 bar / 24h	OBLIGATORY	
	315	Fill the plumbing system - type of medium: treated water/glycol and total loading amount	OBLIGATORY	
	316	Vent the hydraulic system	OBLIGATORY	
	317	Specify the static pressure in the hydraulic system	OBLIGATORY	
	318	Has a DHW safety group been installed?	YES <input type="checkbox"/> NO <input type="checkbox"/>	

NOTES:	<ul style="list-style-type: none"> - The fields marked OBLIGATORY must be IMMEDIATELY performed under the condition of refusal of the PS to come to launch and then check the box on the left. - In the check boxes, circle the box to the left next to the correct answer.
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	INDEX	KIND OF ACTIVITY	STATUS	NOTES		
ELECTRICAL AND CONTROL INSTALLATION						
ELECTRICAL AND CONTROL INSTALLATION	400	Specify the cross-section and length of the power cable of the outdoor unit	OBLIGATORY	mm2	m	
	401	Specify power circuit protection for the outdoor unit	OBLIGATORY	type:		
	402	Specify the cross-sectional area of the power cable of the indoor unit	OBLIGATORY	mm2		
	403	Specify power circuit protection for the indoor unit	OBLIGATORY	type:		
	404	Use differential current protection	OBLIGATORY			
	405	Use a shielded cable to connect the inner and outer junctions with a conductor diameter of more than 0.5 mm2	OBLIGATORY			
	406	Connect control valve actuators SV1, SV2, SV3	OBLIGATORY			
	407	Use contactors and overcurrent protection in power circuits for pumps and electric heaters	OBLIGATORY			
	408	Connect the control of contactors of circulating pumps and electric heaters to the hydraulic module	OBLIGATORY			
	409	Perform insulation resistance measurements of the supply system	OBLIGATORY			
	410	Perform short circuit loop measurement of the supply system	OBLIGATORY			
	411	Perform differential current protection measurements	OBLIGATORY			
	412	Have the optional temperature sensors been installed and connected?	YES	<input type="checkbox"/>	NO	
	413	Have room thermostats been installed and connected?	YES	<input type="checkbox"/>	NO	
	414	Connect the wired controller (applies to monoblock)	YES	<input type="checkbox"/>	NO	
415	Whether the ZNS (Remote Service Supervision) Module is connected	YES	<input type="checkbox"/>	NO		
REFRIGERATION SYSTEM						
REFRIGERATION SYSTEM (if applicable)	500	Specify the f-gas certificate number of the refrigeration contractor	OBLIGATORY	No.		
	501	Use piping and fitting materials approved for refrigeration systems	OBLIGATORY			
	502	Perform insulation of the installation and refrigeration fittings	OBLIGATORY			
	503	Make supports for the installation and refrigeration fittings	OBLIGATORY			
	504	Perform a dry nitrogen pressure leakage test	OBLIGATORY	pressure	Mpa	
	505	Perform vacuuming and drying of the refrigeration system	OBLIGATORY			
	506	Fill the refrigeration system with refrigerant	OBLIGATORY			
	507	Has an additional factor - quantity - been charged?	YES	<input type="checkbox"/>	NO	quantity
	508	Perform a leakage check of the installation	OBLIGATORY			
	509	Specify the length of the installation and the overruns	OBLIGATORY	m	m	
NOTES:	- The fields marked OBLIGATORY must be COMPLETELY COMPLETED under the condition of refusal of the PS to come to commissioning and then check the box on the left - in the check boxes, circle the box to the left next to the correct YES / NO answer					
NOTES						

CITY	DATE
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INSTALLER	SIGNATURE
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