



HEAT PUMP MAINTENANCE

CHECKLIST

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MAINTENANCE CHECKLIST – COMMERCIAL HEAT PUMP

No	Measure	Complete	Comment
1	- Prohibit access to the heat pump. - Check for flammable materials and ignition sources in the immediate area around the heat pump: remove all flammable materials and ignition sources.		
2	To detect a flammable atmosphere in good time: check for refrigerant leaks in the environment before, during and after the work using an explosion-proof refrigerant detector suitable for R290.		
3	Sources of ignition. When working on a refrigeration circuit containing or having contained flammable refrigerant, it is forbidden to use ignition sources that could cause the refrigerant to ignite. Remove all sources of ignition from the environment where the installation, repair, disassembly, or disposal work is being performed, where the risk of refrigerant leaks cannot be excluded.		
4	- Checking the refrigeration installation Replacement electrical components must be suitable for the application and meet the manufacturer's specifications. Only replace defective components with original parts. - Replace the components according to the instructions in the manual. Carry out the following checks: - The refrigerant load must not exceed that allowed for the installation room. - The ventilation openings must not be obstructed or blocked. - Check there is refrigerant present in the secondary circuit if a hydraulic decoupling system is used. - The inscriptions and symbols must always be clearly visible and legible. Replace illegible information. - Refrigerant lines or components must be installed in such a way as to avoid contact with substances that may cause corrosion. Exception: refrigerant lines must be made of		

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	corrosion-resistant materials or be sufficiently protected against corrosion.		
	• Checking the electrical components. • The following safety checks must be carried out during maintenance and repair work on the electrical components: see below. • In the event of a safety-related fault, the system must not be connected until the fault has been rectified. If immediate rectification of the fault is not possible, a suitable temporary solution must be found to allow the system to operate. Inform the user. Carry out the following safety checks: • When filling or sucking out refrigerant and when flushing the refrigeration circuit, do not place electrical components or live cables in the immediate vicinity of the appliance. • Check the earth connection.		
	• Care must be taken to ensure that, when working on electrical components, the units are not modified to such an extent that the protection they offer is affected. Such modifications include damage to cables, too many connections on a single terminal block, connections that do not comply with the manufacturer's specifications, damage to seals and incorrect installation of cable glands. • Ensure that the device is installed correctly. • Check that the seals are fully inserted. This ensures that the seals provide reliable protection against the penetration of a flammable atmosphere. Change if defective. Warning The use of silicone as a sealant may affect the operation of the leak detectors. Do not use silicone as a sealant. • Replacement parts must meet the manufacturer's specifications. • Work on components suitable for flammable atmospheres: these components do not have to be powered down.		

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	• Check if the wiring is subject to wear, corrosion, traction, vibrations, sharp edges, or other unfavourable surrounding influences. • When checking, also consider the effects of ageing or constant vibrations at the compressor and fans.		
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