

Why and how to maintain its refrigeration equipment?



The maintenance of the refrigeration equipment is essential to ensure their proper functioning. **The risks of not maintaining the equipment are:**

- **premature aging of the machine**
- **over-consumption of energy** (see energy savings)
- **decrease in refrigerating power**
- **failure to comply with safety standards and environmental protection**

You can find below a few rules for the care and maintenance of your deep-freezing, fast cooling, storage and retarder proving Hengel equipment.

- Deep-freezers, storage systems, freezer/cold rooms (p2)
- Blast chillers and freezers (p3)
- Retarder proving cabinets (p4)
- Retarder proving chambers and tunnels (p5)

The list of cleaning and maintenance operations described is not exhaustive and will be completed if necessary by the local standard requirements related to environmental, health and safety.

WARNING:

The cleaning or maintenance operations must be performed by QUALIFIED STAFF ONLY and APPLIANCES MUST BE TURNED OFF by switching off the power supply during cleaning and maintenance.

We recommend that end users subscribe to an annual maintenance contract with a refrigeration company with a valid capacity certificate.

DEEP-FREEZERS, STORAGE SYSTEMS, FREEZER/COLD ROOMS

Operation	Observations	Minimum frequency
Cleaning the air condenser	Use a brush with non-metallic bristles, remove all dust	Every 4 months
Check the compressor oil level	If necessary, supplement with suitable oil	Every 4 months
Charging and sealing control (leaks detection) of the refrigerant fluid	<p>If necessary, complete the charge.</p> <p>If sealing problems persist, problem must be fixed by a qualified technician.</p> <p>This operation must be done each year by staff with a valid certificate of capacity. Request a conform certificate to seal at the end of the intervention.</p>	<p>Every year</p> <p>French decree N° 2007-737, decision of 07/05/2007</p>
Control of the evaporator	Visual inspection of the good state of elements of the evaporator and the lack of ice	Every 4 months
Clean the door gaskets	Use a soft sponge with water containing a slightly non-detergent product	Every 4 months
Check the tightness of the door seals	In case of wear, replace the door gaskets	Every 4 months
Interior cleaning	It can be done with a soft sponge and clear water with added detergents products compatible with stainless steel and aluminum. The surfaces are then rinsed with clean water. Trays, racks, slides can be washed with water. If it is necessary to enter the unit, have protection placed on the floor panels. After cleaning, the device must be ventilated by leaving the door opens so that humidity can escape	Every 4 months
Exterior cleaning	Clean coating with non-detergent products and a soft sponge	Every 4/6 months

BLAST CHILLERS AND FREEZERS

Operation	Observations	Minimum frequency
Clean the evaporator and the air condenser	Use a brush with non-metallic bristles, remove all dust	Every 6 months
Clean the door gaskets	Use a soft sponge with water containing a slightly non-detergent product	Every 4 months
Check the tightness of the door seals	In case of wear, replace the door gaskets	Every 6 months
Clean the condensate tank, piping and siphon	Wash with clean water	Every 6 months
Interior cleaning	It can be done with a soft sponge and clear water with added detergents products compatible with stainless steel and aluminum. The surfaces are then rinsed with clean water. Trays, racks, slides can be washed with water. If it is necessary to enter in the unit, have protection on the floor panels. After cleaning, the device must be ventilated by leaving the door opens so that moisture can escape.	Every 4 months
Exterior cleaning	Clean coating with a non-detergent product and a soft sponge	Every 4/6 months

RETARDER PROVING CABINET

Operation	Observations	Minimum frequency
Cleaning the air condenser	Use a brush with non-metallic bristles to remove all dust. Check and ensure no foreign objects interfere with the operation of the fan	Every 6 months
Charging and sealing control (leaks detection) of the refrigerant fluid	<p>If necessary, complete the charge.</p> <p>If sealing problems persist, problem must be fixed by a qualified technician.</p> <p>This operation must be done each year by the staff with a valid certificate of capacity. Request a conform certificate to seal at the end of the intervention.</p>	<p>Every year</p> <p>French decree N° 2007-737, decision of 07/05/2007</p>
Control of the evaporator (if accessible)	Visual inspection of the good state of the evaporator components. Clean with clean water if necessary.	Every 6 months
Clean the door gaskets	Use a soft sponge with water containing a slightly non-detergent product	Every 4 months
Check the tightness of the door seals	In case of wear, replace the door gaskets	Every 6 months
Interior cleaning	It can be done with a soft sponge and clear water with added detergent products compatible with stainless steel and aluminum. The surfaces are then rinsed with clean water. Trays, racks and slides can be washed with water. If it is necessary to enter in to the unit, have protection on the floor panels. After cleaning, the device must be ventilated by leaving the door opens so that moisture can escape.	Every 1 month
Exterior cleaning	Clean coating with a non-detergent product and a soft sponge	Every 1 month
Floor cleaning	Use a soft sponge with clean water mixed with a slightly non-detergent product	After each use
Cleaning the humidity system	Clean the condensate tank, piping and siphon overflow with clear water	Every 6 months or more frequently depending on the quality of the water
Cleaning the water distribution system	Clean the water diffusion nozzle and the water filter. Verify that non presence of lime-scale and de-scaling if it is necessary	Every 6 months
Electrical connections	<p>Check the status of the electrical cables.</p> <p>Check the tightness of the electrical connections screws, control of the masses</p>	Every year

RETARDER PROVING CHAMBERS AND TUNNELS

Operation	Observations	Minimum frequency
Cleaning the air condenser	Use a brush with non-metallic bristles, remove all dust Check that no foreign objects interfere with the operation of the fan	Every 6 months
Charging and sealing control (leaks detection) of the refrigerant fluid	If necessary, complete the charge. If sealing problems persist, problem must be fixed by a qualified technician.	Every year
Verifying the absence of humidity in the refrigeration circuit.	This operation must be done each year by the staff with a valid certificate of capacity. Request a conform certificate to seal at the end of the intervention.	French decree N° 2007-737, decision of 07/05/2007
Control of the evaporator (if accessible)	Visual inspection of the good state of the evaporator components. Clean with clean water if necessary.	Every 6 months
Clean the door gaskets	Use a soft sponge with water containing a slightly non-detergent product	Every 4 months
Check the tightness of the door seals	In case of wear, replace the door gaskets	Every 6 months
Interior cleaning	It can be done with a soft sponge and clear water with added detergents products compatible with stainless steel and aluminum. The surfaces are then rinsed with clean water. Trays, racks, slides can be washed with water. After cleaning, the device must be ventilated by leaving the door open so that moisture can escape.	Every 1 month
Exterior cleaning	Clean coating with a non-detergent product and a soft sponge	Every 1 month
Floor cleaning	Use a soft sponge/floor-cloth with clean water mixed with a slightly non-detergent product	After each use
Cleaning the humidity system	Clean the condensation tank, piping and siphon overflow with clear water	Every 6 months or more frequently depending on the quality of the water
Cleaning the water distribution system	Clean the water diffusion nozzle and the water filter. Verify that non presence of lime-scale and de-scaling if it is necessary	Every 6 months
Electrical connections	Check the status of the electrical cables. Check the tightness of the electrical connections screws, control of the masses	Every year