

## 11 TEST RUN AND FINAL CHECKS

The installer is obliged to verify correct operation of unit after installation.

### 11.1 Final checks

Before switching on the unit, read following recommendations:

- When the complete installation and all necessary settings have been carried out, close all front panels of the unit and refit the unit cover.
- The service panel of the switch box may only be opened by a licensed electrician for maintenance purposes.

#### NOTE

That during the first running period of the unit, required power input may be higher than stated on the nameplate of the unit. This phenomenon originates from the compressor that needs elapse of a 50 hours run in period before reaching smooth operation and stable power consumption.

### 11.2 Test run operation (manually)

If required, the installer can perform a manual test run operation at any time to check correct operation of air purge, heating, cooling and domestic water heating, refer to 10.5.11 "Test run".

## 12 MAINTENANCE AND SERVICE

In order to ensure optimal availability of the unit, a number of checks and inspections on the unit and the field wiring have to be carried out at regular intervals.

This maintenance needs to be carried out by your local technician.

#### DANGER

##### ELECTRIC SHOCK

- Before carrying out any maintenance or repairing activity, must switch off the power supply on the supply panel.
- Do not touch any live part for 10 minutes after the power supply is turned off.
- The crank heater of compressor may operate even in standby.
- Please note that some sections of the electric component box are hot.
- Forbid touch any conductive parts.
- Forbid rinse the unit. It may cause electric shock or fire.

Forbid leave the unit unattended when service panel is removed.

The following checks must be performed at least once a year by qualified person.

- **Water pressure**  
Check the water pressure, if it is below 1 bar, fill water to the system.
- **Water filter**  
Clean the water filter.
- **Water pressure relief valve**  
Check for correct operation of the pressure relief valve by turning the black knob on the valve counter-clockwise:  
  
-If you do not hear a clacking sound, contact your local dealer.  
  
-In case the water keeps running out of the unit, close both the water inlet and outlet shut-off valves first and then contact your local dealer.
- **Pressure relief valve hose**  
Check that the pressure relief valve hose is positioned appropriately to drain the water.
- **Backup heater vessel insulation cover**  
Check that the backup heater insulation cover is fastened tightly around the backup heater vessel.
- **Domestic hot water tank pressure relief valve (field supply)** Applies only to installations with a domestic hot water tank. Check for correct operation of the pressure relief valve on the domestic hot water tank.
- **Domestic hot water tank booster heater**  
Applies only to installations with a domestic hot water tank. It is advisable to remove lime buildup on the booster heater to extend its life span, especially in regions with hard water. To do so, drain the domestic hot water tank, remove the booster heater from the domestic hot water tank and immerse in a bucket (or similar) with lime-removing product for 24 hours.
- **Unit switch box**  
  
-Carry out a thorough visual inspection of the switch box and look for obvious defects such as loose connections or defective wiring.  
  
-Check for correct operation of contactors with an ohm meter. All contacts of these contactors must be in open position.
- **Use of glycol (Refer to 9.4.4 "Water circuit anti-freeze protection")** Document the glycol concentration and the pH-value in the system at least once a year.  
  
-A PH-value below 8.0 indicates that a significant portion of the inhibitor has been depleted and that more inhibitor needs to be added.
- **-When the PH-value is below 7.0 then oxidation of the glycol occurred, the system should be drained and flushed thoroughly before severe damage occurs.**

Make sure that the disposal of the glycol solution is done in accordance with relevant local laws and regulations.