**In any cases of service or maintenance please note the following instructions:**

- Service must only be carried out by suitably qualified personal.
- When carrying out any work on the chiller, ensure that the power supply is off. Switch the power supply off and ensure that it cannot be switched on accidentally.
- Do not disable the security measures.
- Use only fuses with the same trigger characteristic. Should the fuse trigger again, then it is possible that there is a serious defect within the chiller. In this case, please contact the manufacturer.
- Do not undertake any work on the refrigerant circuit, as poisonous, corrosive gases and liquids may leak out. Should a repair on the refrigerant circuit be necessary, contact a refrigerant engineer or your supplier.

| Display | Fault | Causation | Action |
|---|---|---|---|
| Conductivity LED lights | Conductivity increases | DI-cartridge wore down | Replace DI-cartridge |
| | | Magnetic valve does not switch (only with conductivity control) | Check fuse F4, check up connector and cable X2/3 on correct fit. |
| Flow I LED lights | Flow decreases | Water filter blocked | Replace filter inlet |
| | | Pre-filter blocked | Clean pump pre-filter |
| | No flow available | System bled? | See user manual |
| | | Pump/motor does not run | Check fuse F2, check up connector and cable X2/3 on correct fit. Sight check up of pump and motor on defects. |
| | | CPC water connection is defect, blocks always | Replace CPC-coupler. Check up on correct fit. |
| High Press LED lights | Heat cannot dissipate | Ambient temperature too high, higher as 35°C | Ambient temperature too high, higher as 35°C |
| | | Ventilator turns too slow, ventilator stagnancy | Check fuse F5, check connector and cable X2/3 on correct fit. Check connector on case. Sight check up ventilator on defects. |
| | | Condensor block is polluted intensively. | Clean condensor block, blow out with compressed air. |
| | | Air flow blocked | Ensure free air flow |
| | | Air filter blocked | Replace air filter |

| Display | Fault | Causation | Action |
|---|---|---|---|
| High Temp LED lights | Water temperature increases | Compressor does not run | Check temperature of compressor (temperature protection released?), check cable X2/3, check green LED on controller (on/off?), possible check voltage on strip X2/3 terminal 13/14. Controller has low voltage, thus the internal compressor relay cannot operate. |
| | | Hot gas valve defect | Hot gas valve must be replaced. Sight check up ventilator on defects. |
| | Heat cannot dissipate. | Ambient temperature too high, higher as 35°C | Lower ambient temperature |
| | | Ventilator turns too slow, ventilator stagnancy | Check fuse F5, check connector and cable X2/3 on correct fit. Check connector on case. Sight check up ventilator on defects. |
| | | Cooling medium inlet to the condensor block too hot → insufficient refrigerant inside circuit → Refrigerant circuit leaky | Cooling circuit must be repaired. |
| Low Temp LED lights | Compressor always on | Controller defect | Controller must be replaced. Sight check up ventilator on defects. |
| | Hot gas valve does not switch | Compressor cools too much | Check connector at the valve, check cool. Check fuse F3, check connector and cable X2/3 on correct fit. |

| Display | Fault | Causation | Action |
|---|---|---|---|
| Water Level (red/yellow) LED lights | Water level sensor does not switch | Switch defect | Replace water level sensor. Check connections, check up connector and cable X2/1 on correct fit. |
| | Water loss in circuit | Hose defect, hose clamps not correct fitted. Fitting leaky. Evaporation | Locate leaky pot and re-seal (if possible!), replace defect part. |
| Display has no function | No voltage on chiller | Power cable | Check up on correct fit at chiller and socket. Check up cable on damage and replace if necessary. |
| | | Socket defect | Repair socket |
| „F1“ on display | Sensor fault F1 | Sensor defect or disconnected | Replace sensor, check cable, check up connector X1/3 on correct fit. |
| „F2“ on display | Sensor fault F2 | Sensor defect or disconnected | Replace sensor, check cable, check up connector X1/3 on correct fit. |
| „F3“ on display | Sensor fault F3 | Sensor defect or disconnected | Replace sensor, check cable, check up connector X1/3 on correct fit. |
| „F4“ on display | Sensor fault F4 | Sensor defect or disconnected | Replace sensor, check cable, check up connector X1/3 on correct fit. |
| „F5“ on display | Sensor fault conductivity | Sensor defect or disconnected | Replace sensor, check cable, check up connector X1/3 on correct fit. |
| „F6“ on display | Sensor fault power inlet | Sensor defect or disconnected | Replace sensor, check cable, check up connector X1/3 on correct fit. |

| Display | Fault | Causation | Action |
|---|---|---|---|
| „---„on display | Set value adjustment blocked | | Change P19 |
| Pr | Checkup not passed | | Replace controller |
| Apr | IO processor defect | | Replace controller |
| „---„ at conductivity display | Conductivity over 30µS | DI-cartridge defect | Replace cooling water and DI-cartridge |
| | | Water polluted | |
| | | Magnetic valve does not switch (only with conductivity control) | Check fuse F4, check up connector and cable X2/3 on correct fit. |