II. Troubleshooting

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
111	HP warning	Group warning	Condensation pressure has exceeded the warning limit	Condensation pressure threatens to run against the design limit of the high pressure stop,	Clean the condenser and filter. Check the function of the fan. Check the cooling water circuit. Install the cover panels.	A compressor is switched off if the number of compressors is > 1. After pressure reduction, the compressor switches on again. All other components continue to run. Warning is saved. Manual reset.
121	LP warning	Group warning	Evaporation pressure has fallen below the warning limit	Evaporating pressure approaches the low pressure stop limit	Check liquid flow. Check the function of the expansion valve. Check the refrigerant level.	A compressor is switched off if the number of compressors is > 1 (delayed from v. 2.60). After pressure increase, the compressor switches on again. All other components continue to run. Warning is not saved, Automatic reset.
123	Compr.Pump Out Warn	Group warning	When the EEV closes, the low pressure does not drop below the set value.	EEV does not close, MV hot gas bypass leaks, refrigerant circuit leaks.	Check EEV, check MV hot gas bypass, check refrigerant circuit for leaks.	Compressor shuts down after the set time. 1x automatic reset. The compressor is blocked after the second attempt (fault stop).
131	Superheating	Group warning from Version 2.71 previously fault message AL171				
151	HP STOP	Group fault alarm	Condensation pressure is outside the allowable range.	Waste heat from the chiller circuit cannot be dissipated.	Clean the condenser and filter. Check the function of the fan. Check the cooling water circuit. Install the cover panels.	All compressors shut down. (time-delayed from V. 2.60) All other components continue to run. Alarm is saved. Manual reset.

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
161	LP STOP	Group fault message	Pressure has fallen below the minimum allowable pressure on the intake side of the compressor (low pressure side).	Liquid flow through the evaporator is too low. Refrigerant loss. Faulty function of the expansion valve. Faulty function of the LP sensor.	Check liquid flow. Check the function of the expansion valve. Check the refrigerant level.	After the compressor is started, the low pressure is bridged. All compressors then switch off. When the pressure increases, the compressors switch on again. During operation, all compressors switch off with a time delay. They switch on again when the pressure increases. The compressors restart up to 3x, after which alarm AL162 is triggered. All other components continue to run. Alarm is saved, Manual reset.
162	LP STOP 3x	Group fault alarm	The minimum permissible pressure on the suction side of the compressor (low pressure side) was 3 times lower.	S.h. LP STOP	S.h. LP STOP	Compressor no longer starts automatically after the 3rd low pressure STOP AL161, All other components continue to run. Alarm is saved. Manual reset.
163	ND STOP 3x	Group fault alarm	After closing the EEV, the low pressure does not drop below the set value.	EEV does not close, MV hot gas bypass leaks, refrigeration circuit leaks.	Check EEV, Check MV hot gas bypass, Check refrigeration circuit for leaks.	Compressor switches off after set time. After the warning, the compressor is blocked. Manual reset.
171	Superheating	Group fault alarm message from Version 2.70 then warning WA131	The superheat limit has been exceeded or undercut. vBoxX Min; cBoxX Min and Max.	Superheat too low or too high	0	only display if alarm occurred 3 times, alarm is saved, 2x automatic reset, then manual reset.
301	Outlettemp. 1 max warning	Group warning	The outlet temperature of the chiller circuit is approaching the upper design limit.	Thermal overload, No refrigeration.	Check refrigerating capacity, check the function of the refrigeration circuit	All components continue to run, Warning is saved, Manual reset.

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
302	Temp. outlet 2 Max Warn	Group warning	Outlet temperature of the refrigerant circuit is approaching the upper limit.	Thermal overload, no cooling, cooling valve does not work; cooling valve configured incorrectly.	Check cooling output, check function of the refrigerant circuit, check cooling valve, check configuration of cooling valve.	All components continue running, warning is saved, manual reset.
304	Temp. cooling water On Max Warn	Group warning	Inlet temperature of the cooling water circuit is approaching the upper limit.	Cooling water circuit does not work; no cooling water is supplied.	Check cooling water generation; check cooling water circuit, pump, check flow	0
312	Min tank level warning	Group warning	Level in the tank is approaching the minimum design limit.	Level in the tank is too low, level sensor in the tank is defective.	Fill tank, Check the function of the tank sensor in the tank	All components continue to run, Alarm is saved, Manual reset.
313	EV refill time limit	Group fault alarm	The solenoid valve of the tank refill does not close within the specified time.	The freshwater supply is interrupted.	Check the function of the solenoid valve tank refill. Open the shut-off devices integrated in the supply line. Check the supply line for leakage.	Solenoid valve for tank refill closes. All other components continue to run, Alarm is saved, Manual reset.
321	Coldwater press warning	Group warning	The refrigerant pressure at the evaporator is approaching the minimum or maximum limit	External slide is closed, filter soiled, air in the system.	Open external slide valve, clean the filter, vent the system.	All components continue to run, alarm is saved, manual reset.
325	Pressure exp. Vess. min. warn.	Group warning	Suction pressure of the pump is below the setpoint value	Water quantity in the closed pipe system too small, pressure in the expansion tank incorrectly set, expansion vessel defective.	Refill water	All components continue to run, alarm is saved, manual reset.
326	Press pump 1 min warning	Group warning	The pump's pressure is approaching the minimum limit	Flow rate too high, chiller resistance too low, Air in the system	Reduce flow rate, increase chiller resistance, vent the system	All components continue to run, Alarm is saved, Manual reset.
327	Press pump 2 min warning	Group warning	The pump's pressure is approaching the minimum limit	Flow rate too high, chiller resistance too low, Air in the system	Reduce flow rate, increase chiller resistance, vent the system	All components continue to run, Alarm is saved, Manual reset.
328	Pressure cooling water On Min Warn	Group warning	The cooling water inlet pressure at the heat exchanger is too low	0	0	0

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
329	Diff. pressure cooling water Min Warn	Group fault alarm	Differential pressure cooling water inlet - cooling water outlet too low	0	0	0
331 334	Conduc. max. STOP Conduc. max. alarm	Group fault alarm	Conductivity exceeds maximum design limit.	Conductivity too high.	Check limit design value: If available: Check DI cartridge, Check flow through DI cartridge.	All components continue to run, Alarm is saved, Manual reset.
332 335	Conductivitymaxwarn.	Group warning	Conductivity is approaching maximum design limit.	Conductivity too high.	Check the limit default. If installed: Check DI cartridge, Check flow through DI cartridge.	All components continue to run, Alarm is saved, Manual reset.
333 336	EV demin. time limit	Group warning	The demineralization solenoid valve does not close within the specified time period.	DI cartridge worn. No flow through DI cartridge. Switch-off point set too high.	Replace DI cartridge. Check flow through the DI cartridge. DI cartridge worn.	Demineralization solenoid valve closes. All other components continue to run, Alarm is saved, Manual reset.
351	Outlettemp. 1 max STOP	Group fault alarm	Maximum outlet temperature cold water circuit 1 exceeded.	No refrigeration, Thermal overload.	Check function of the chiller circuit, Check installed heat load.	Chiller switches off immediately. Alarm is saved. Manual reset.
352	Outlettemp. 1 min STOP	Group fault alarm	Outlet temperature cold water circuit 1 is below the minimum.	Check function of the tank heater, check setpoint setting, ambient temperature too low.	Check tank heater function, check setpoint, increase ambient temperature.	Chiller switches off immediately, (Until V 2.60) (Compressors switch off immediately). Pumps deactivate via follow-up time, this would be correct) Alarm is saved, Manual reset.
353	Temp. outlet2 Max STOP	Group fault alarm	Maximum outlet temperature cold water circuit 2 undercut.	No cooling, valve of circuit 2 does not open thermal overload.	Check cooling circuit function, check water circuit 2 function (cooling valve), Check circuit 2 configuration, check installed thermal load.	0
354	Temp. outlet 2 Min STOP	Group fault alarm	Minimum outlet temperature cold water circuit 2 undercut.	Check tank heating function, check setpoint, ambient temperature too low.	Check tank heating function, check setpoint, increase ambient temperature.	

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
356	Temp. cooling water On Max STOP	Group fault alarm	Maximum inlet temperature Cooling water circuit exceeded	Cooling water circuit does not work, no cooling water is provided.	Check cooling water production; check cooling water circuit, check pump, flow.	System switches off immediately
357	Temp. cooling water On Min STOP	Group fault alarm	Minimum inlet temperature Cooling water circuit undercut	Cooling water circuit does not work, the water provided is too cold, ambient temperature too low.	Check cooling water production; check cooling water circuit, check pump, flow.	System switches off immediately
361	Min tank level STOP	Group fault alarm	Level in tank is below the minimum.	Level in the tank is too low, Level sensor soiled or defective	Fill tank, Check the function of the tank sensor.	Chiller switches off immediately. Alarm is saved. Manual reset.
371	Coldwater press STOP	Group fault alarm	Cold water pressure at the evaporator is too low.	External slide is closed, Filter soiled, Air in the system.	Open external slide, Clean filter, Vent the system.	Compressors switch off immediately. Pump 1 & 2 consumer pump Pumps continue to run. Pump 1 = Consumer pump Pump 2 = Evaporator pump Pump 1 continues to run. Pump 2 switches off. Pump 1 = Consumer pump Pump 2= Redundant The required pump continues to run. Alarm is saved, manual reset.
379	Pr.exp.vess.min Stop	Group fault alarm	Pump intake pressure is below the set setpoint	Diaphragm expansion vessel defective Quantity of water in the closed pipe system is too low.	Top-up water	Chiller switches off immediately. Alarm is saved. Manual reset.
381	Press pump 1 max STOP	Group fault alarm	Pressure of the liquid outlet pressure too high	External slide is closed, Filter soiled,	Open external gate valve, clean filter, check overflow valve setting	Pump switches off immediately. Alarm is saved. Manual reset.
382	Press pump 1 min STOP	Group fault alarm	Pressure of the liquid outlet pressure too low	Flow rate too high, chiller resistance too low, Air in the system	Reduce flow rate, increase chiller resistance, vent the system	Pump switches off immediately. Alarm is saved. Manual reset.
385	Pump pressure 2 Max STOP	Group fault alarm	Refrigerant outlet pressure is too high.	External slide valve closed; filter soiled.	Open external slide valve, clean filter, check the overflow valve setting	Pump shuts down immediately. Alarm is saved, manual reset.
386	Pump pressure 2 Min STOP	Group fault alarm	Refrigerant outlet pressure is too low.	Flow rate too high, chiller resistance too low, air in the system.	Reduce the flow rate, increase the chiller resistance, vent system	Pump shuts down immediately. Alarm is saved, manual reset.

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
389	Pressure cooling water On Max STOP	Group fault alarm	Pressure cooling water inlet at the heat exchanger is too high	0	0	0
390	Pressure cooling water On Min STOP	Group fault alarm	Pressure cooling water inlet at the heat exchanger is too low	0	0	0
501	AI temp. inlet (VP)	Group warning from Version 2.60	Sensor defective, sensor break or sensor short-circuit	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	Alarm is saved, (From V.2.60) Manual reset.
502	AI temp outlet	Group fault alarm from Version 2.60	Sensor defective, sensor break or sensor short-circuit	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	All components continue to run. If the temp. inlet sensor is functional, it is switched to this sensor and the setpoint is increased by 6K. Alarm is saved, (From V.2.60) Manual reset.
503	AI temp outlet 2	Group fault alarm from Version 2.60	Sensor defective, sensor break or sensor short-circuit	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	Pump 1 and compressor continue to run, Cold water circuit 2 is blocked, Alarm is saved, (From V.2.60) Manual Reset.
504	AI temp. system return	Group fault alarm from Version 2.60	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short circuit	Check the electrical connections of the sensor, check sensor using the characteristic curve	Free cooling is blocked. All other components continue to run, alarm is saved, (from V.2.60) manual reset.
505	AI ambient temp.	Group fault alarm from Version 2.60	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short circuit	Check the electrical connections of the sensor, check sensor using the characteristic curve	Free cooling is blocked. All other components continue to run, alarm is saved, (from V.2.60) manual reset.

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
506	AI Freecooler inlet	Group fault alarm from Version 2.60	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short circuit	Check the electrical connections of the sensor, check sensor using the characteristic curve	Free cooling is blocked. All other components continue to run, alarm is saved, (from V.2.60) manual reset.
511	AI cold water press	Group fault alarm from Version 2.60	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	Alarm is saved, (From V.2.60) Manual reset.
512	AI press. exp. vess.	Group fault alarm from Version 2.60	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	Alarm is saved, (From V.2.60) Manual reset.
513	AI pump pressure 1	Group fault alarm from Version 2.60	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	Pump 1 & 2 = Consumer pump - Pump 1 switches off, - Pump 2 and compressor continue to run. Pump 1 = Consumer pump Pump 2 = Evaporator pump Chiller switches off. Pump 1 = Consumer pump Pump 2 = Redundant - Pump 1 switches off, - Pump 2 switches on. Alarm is saved, (From V.2.60) Manual reset.

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
514	AI pump pressure 2	Group fault alarm from Version 2.60	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	Pump 1 & 2 = Consumer pump - Pump 2 switches off, - Pump 1 and compressor continue to run. Pump 1 = Consumer pump Pump 2 = Evaporator pump Chiller switches off. Alarm is not recognised, No reaction up to V 2.58 - Pump 2 and compressor switch off - Pump 1 run until outlet temp. max. stop continues. From V 2.60 Pump 2 = Consumer pump Pump 1 = Redundant - Pump 2 switches off, - Pump 1 switches on. Alarm is saved, (from V.2.60) Manual reset.
515	AI tank pressure	Group fault alarm from Version 2.60	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	Chiller switches off immediately, Alarm is saved, (From V.2.60) Manual reset.
521	AI high pressure	Group fault alarm from Version 2.60	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	Pumps continue to run, Alarm is saved, (From V.260) Manual reset.
522	AI low pressure	Group fault alarm from Version 2.60	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	Pumps continue to run, Compressor (KK) stops immediately Alarm is saved, (From V.260) Manual reset.
523	AI suction gas temp	Group fault alarm from Version 2.60	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	Pumps continue to run, Compressor (KK) stops immediately Alarm is saved, (From V.260) Manual reset.
526	AI cool. water temp.	Group fault alarm from Version 2.60 Should be set to Warning, since only display	Measured value of the analogue input outside the valid measuring range	Sensor defective, sensor break or sensor short-circuit	Check electrical connections of the sensor, check sensor using the characteristic curve	Cooling water circuit is blocked. Refrigeration circuit goes to high pressure fault. Alarm is saved, (From V.2.60) Manual reset.

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
527	AI Temp. cooling water off	Group warning	Measured value of the analogue input outside the valid measuring range	Sensor defective, Sensor break or sensor short circuit	Check the electrical connections of the sensor, Testing the sensor on the basis of the sensor characteristic curve	
528	AI Pressure cooling water on	Group warning	Measured value of the analogue input is outside the valid measuring range	Sensor defective, sensor break or sensor short circuit	Check the electrical connections of the sensor, check the sensor using the sensor characteristic curve	
529	AI Pressure cooling water off	Group warning	Measured value of the analogue input is outside the valid measuring range	Sensor defective, sensor break or sensor short circuit	Check the electrical connections of the sensor, check the sensor using the sensor characteristic curve	
531	AI conductivity	Group fault alarm from Version 2.60	Measured value of the analogue input is outside the valid measuring range	Sensor defective, sensor break or sensor short circuit	Check the electrical connections of the sensor, check the sensor using the sensor characteristic curve	all components continue to run EV demineralization closes. Alarm is saved, (From V.2.60) Manual reset.
591	AI coding resistor	not in group fault alarm, omitted from Version 2.60	Coding resistor is missing	Coding resistor is missing	Check coding resistor	Chiller only continues to run with one compressor. Manual rest. (Up to V. 2.59)
592	Coding changed	Group fault alarm, omitted from Version 2.60	Coding error	The coding resistor measures a different encoding since the last switch-on (number of compressors)	Coding resistor defective, not connected, check the contact	Chiller only continues to run with one compressor. Alarm is saved. Manual reset. (Up to V. 259)
602	DI phase monitoring	Group fault alarm from Version 2.60	Phase monitoring has tripped	Error in relation to phase sequence, phase failure, undervoltage and asymmetry	Check feed	Chiller switches off immediately. Alarm is saved, (From V.2.60) Manual reset.

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
611	DI mpcb Pump 1	Group fault alarm	Motor protection switch has tripped	Motor current above the permissible range, Motor runs only on two phases, direction of rotation, poor contact at clip points, Winding fault, earth fault, rotor blocked.	Check the motor power consumption, check the operating point, check the electrical connection of the components	Pump 1 & 2 = Consumer pump - Pump 1 switches off, - Pump 2 and compressor continue to run. Pump 1 = Consumer pump Pump 2 = Evaporator pump Chiller switches off. Pump 1 = Consumer pump Pump 2 = Redundant - Pump 1 switches off, - Pump 2 switches on. Alarm is saved. Manual reset,
613	Flow, start pump 1	Group fault alarm	Flow switch did not switch through after the pump start-up phase	Flow too low	Check flow, check shut-off valves, check pump, check the setting of the reed contact at the flow monitor	Pump 1 & 2 = Consumer pump - Pump 1 switches off, - Pump 2 and compressor continue to run. Pump 1 = Consumer pump Pump 2 = Evaporator pump Chiller switches off. Pump 1 = Consumer pump Pump 2 = Redundant - Pump 1 switches off, - Pump 2 switches on. Alarm is saved. Manual reset,
614	Flow, pump 1 oper.	Group fault alarm	Flow switch did not switch through during the pump operating phase	Flow too low	Check flow, check shut-off valves, check the setting of the reed contact at the flow monitor	Pump 1 & 2 = Consumer pump - Pump 1 switches off, - Pump 2 and compressor continue to run. Pump 1 = Consumer pump Pump 2 = Evaporator pump Chiller switches off. Pump 1 = Consumer pump Pump 2 = Redundant - Pump 1 switches off, - Pump 2 switches on. Alarm is saved. Manual reset,

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
615	DI mpcb Pump 2	Group fault alarm	Motor protection switch has tripped	Motor current above the permissible range, Motor runs only on two phases, direction of rotation, poor contact at clip points, Winding fault, earth fault, rotor blocked.	Check the motor power consumption, check the operating point, check the electrical connection of the components	Pump 1 & 2 = Consumer pump - Pump 2 switches off, - Pump 1 and compressor continue to run. Pump 1 = Consumer pump Pump 2 = Evaporator pump - Pump 2 and compressor switch off, - Pump 1 runs up to outlet temperature Max Stop continues. Pump 2 = Consumer pump Pump 1 = Redundant - Pump 2 switches off, - Pump 1 switches on. Alarm is saved. Manual reset,
617	Flow, start pump 2	Group fault alarm	Flow switch did not switch through after the pump start-up phase	Flow too low	Check flow, check shut-off valves, check pump, check the setting of the reed contact at the flow monitor	Pump 1 & 2 = Consumer pump - Pump 2 switches off, - Pump 1 and compressor continue to run. Pump 1 = Consumer pump Pump 2 = Evaporator pump - Pump 2 and compressor switch off, - Pump 1 runs up to outlet temperature Max Stop continues. Pump 2 = Consumer pump Pump 1 = Redundant - Pump 2 switches off, - Pump 1 switches on. Manual reset, Alarm is saved.

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
618	Flow, pump 2 oper.	Group fault alarm	Flow switch did not switch through during the pump operating phase	Flow too low	Check flow, check shut-off valves, check the setting of the reed contact at the flow monitor	Pump 1 & 2 = Consumer pump - Pump 2 switches off, - Pump 1 and compressor continue to run. Pump 1 = Consumer pump Pump 2 = Evaporator pump - Pump 2 and compressor switch off, - Pump 1 runs up to outlet temperature Max Stop continues. Pump 2 = Consumer pump Pump 1 = Redundant - Pump 2 switches off, - Pump 1 switches on. Alarm is saved. Manual reset,
619	DI mpcb pump freec.	Group fault alarm	Motor protection switch has tripped	Motor current above the permissible range, Motor runs only on two phases, direction of rotation, poor contact at clip points, Winding fault, earth fault, rotor blocked.	Check the motor power consumption, check the operating point, check the electrical connection of the components	all components continue to run Free cooling is stopped Fault is stored and must be reset manually
621	DI compressor 1 mpcb	Group fault alarm	Motor protection switch has tripped	Motor current above the permissible range, Motor runs only on two phases, direction of rotation, poor contact at clip points, Winding fault, earth fault, rotor blocked.	Check the motor power consumption, check the operating point, check the electrical connection of the components	Pumps continue to run the faulty compressor (KK) stops immediately the other compressors continue to run Fault is stored and must be reset manually
622	DI compressor 2 mpcb	Group fault alarm	S.h. MSS Compressor 1	S.h. MSS Compressor 1	S.h. MSS Compressor 1	S.h. MSS Compressor 1
623	DI compressor 3 mpcb	Group fault alarm	S.h. MSS Compressor 1	S.h. MSS Compressor 1	S.h. MSS Compressor 1	S.h. MSS Compressor 1
624	DI compressor 4 mpcb	Group fault alarm	S.h. MSS Compressor 1	S.h. MSS Compressor 1	S.h. MSS Compressor 1	S.h. MSS Compressor 1

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
627	DI high-pr. limiter	Group fault alarm	High-pressure limiter has tripped.	Unable to remove the waste heat of the refrigeration circuit. Cladding panels not completely fitted	Clean condenser and filter, test function of the fan, check cooling water circuit, Switch off the main switch, Press the Reset button Fit the metal cladding, switch on main switch and acknowledge at the display.	Pumps continue to run, Compressor (KK) stops immediately Fault is stored and must be reset manually
631	DI mpcb fan 1	Group fault alarm	Motor protection switch has tripped	Motor current above the permissible range, motor runs only on two phases, direction of rotation, poor contact at terminals, short circuit of windings, earth fault, rotor blocked.	Check the motor current consumption, check the operating point, check the electrical connection of the components	Pump and compressor continue running Compressor switches off via HD. Alarm is saved. Manual reset.
632	DI fault fan 1	Group fault alarm	Internal monitoring of the fan has tripped.	Motor runs only on two phases, direction of rotation, poor contact at terminals, short circuit of windings, earth fault, rotor blocked.	Check the motor current consumption, check the electrical connection of the components, check for mechanical blocking.	Pump and compressor continue running Compressor switches off via HD. Alarm is saved. Manual reset.
633	DI fan 1 fault	Group fault alarm	Internal monitoring of the fan has tripped.	Motor runs only on two phases, direction of rotation, poor contact at terminals, Short circuit of windings, earth fault, rotor blocked.	Check the motor current consumption, check the electrical connection of the components, check for mechanical blocking.	Pump and compressor continue running Compressor switches off via HD. Alarm is saved. Manual reset.
633	DI MSS fan 2	Group fault alarm	S.h. fan 1	S.h. fan 1	S.h. fan 1	S.h. fan 1
634	DI fault fan 2	Group fault alarm	S.h. fan 1	S.h. fan 1	S.h. fan 1	S.h. fan 1
635	DI MSS fan ESS	Group fault alarm	Motor protection switch has tripped	Motor current above the permissible range, motor runs only on two phases, direction of rotation, poor contact at terminals, short circuit of windings, earth fault, rotor blocked.	Check the motor current consumption, check the operating point, check the electrical connection of the components	All components continue running Freecooling is stopped. warning is saved. manual reset,
636	DI fault fan ESS	Group fault alarm	Internal monitoring of the fan triggered.	Motor runs only on two phases, direction of rotation, poor contact at terminals, short circuit of windings, earth fault, rotor blocked.	Check the motor current consumption, check the electrical connection of the components, check for mechanical blocking.	All components continue running Freecooling is stopped alarm is saved. manual reset,

Error code	Display view	Type of message	Message description	Cause of the message	Troubleshooting	Reaction of the chiller
641	DI mpcb tank heating	Group fault alarm	Circuit breaker has tripped.	Current above the permissible range, poor contact at clip points due to soiling or corrosion, Short-circuit between the heating rods, earth fault.	Check the electrical connection to the components, test for short to earth	all components continue to run Tank heater is deactivated Fault is stored and must be reset manually
642 644	DI STP tank heating	Group fault alarm	Safety temperature limiter of the tank heating has tripped	Tank temperature is too high, no water in tank, Trigger point of STP incorrectly set.	Check the tank temperature, check the level, check the tripping point of the STP	all components continue to run Tank heater is deactivated Fault is stored and must be reset manually

Attention: Make sure that the cause of the fault has been eliminated before resetting fault messages.
Frequent resetting of fault signals without remedying the cause can cause permanent damage to the system!