Alarm overzicht S-serie’s

Number	Alarm	Cause:	Heat pump operation:	Action:	Type
101	Sensor fault BT1	Sensor not connected/defective	Calculated flow temperature is set to min calculated flow temperature	Proposal: Check the sensor and its connections. See also the electrical wiring diagram.	
102	Sensor fault BT2	Sensor not connected/defective (heating medium return)	**BT2:** Addition blocked. GM is calculated with "condensor out" sensor. Even if "condensor out" sensor is missing, heating is blocked. **EP21_BT2 - EP47_BT2:** Control on return sensor of the climate system. Automatic reset.	Proposal: Check the sensor and its connections. See also the electrical wiring diagram.	
103	Sensor fault BT3	Sensor not connected/defective (heating medium return)	Compressor is blocked when hot water loading. VVM 500: Let the heating medium pump go according to the speed that is chosen in the menu 5.1.19= constantly	Proposal: Check the sensor and its connections. See also the electrical wiring diagram.	

104	Sensor fault BT6	Sensor not connected/defective (hot water, controlling) VVM 500: Using BT54	Automatic reset	Proposal: Check the sensor and its connections. See also the electrical wiring diagram.	
107	Sensor fault BT11	Sensor not connected/defective (condensor out)	Compressor blocked	Proposal: Check the sensor and its connections. See also the electrical wiring diagram.	
108	Sensor fault BT12	Sensor not connected/defective (condensor return)	Supply sensor (BT2) is used for controlling max condensor out temperature for the compressor. If supply sensor is also missing; blocked heating mode and blocked compressor in HW mode.	Proposal: Check the sensor and its connections. See also the electrical wiring diagram.	
109	Sensor fault: BT14 hot gas sensor	Sensor not connected/defect (hot gas sensor)	Compressor blocked	Proposal: -Check the sensor and its conncetions. Also see the electrical wiring diagram	
113	**Ground source:** Sensor fault AZ1-BT20 **Exhaust air:** Sensor fault BT20	Sensor not connected/defective (exhaust air)	**Ground source:** Pump (AZ1-GP2) in FLM is blocked. **Exhaust air:** Automatic reset	Proposal: Check the sensor and its connections. See also the electrical wiring diagram.	
114	**Ground source:** Sensor fault AZ1-BT21 **Exhaust air:** Sensor fault BT21	Sensor not connected/defective (extract air)	**Grounde source:** Pump (AZ1-GP2) in FLM is blocked. **Exhaust air:** Automatic reset	Proposal: Check the sensor and its connections. See also the electrical wiring diagram.	
115	Sensor fault AZ30-BT22 supply air sensor	Heatpump has no connection with the supply air sensor in ERS (AZ30)	Compressor blocked	Proposal: -Check the sensor and its conncetions. Also see the electrical wiring diagram	

116	Sensor fault BT25	Sensor not connected/defective (heat medium return external)	External additive blocked	Proposal: Check the sensor and its connections. See also the fault-tracing schedule for the current product.	
117	Sensor fault AZ1-BT26	Sensor not connected/defective (brine, collector in)	Pump (AZ1-GP2) in FLM is blocked.	Proposal: Check the sensor and its connections. See also the fault-tracing schedule for the current product.	
122	Sensor fault BT63	Sensor not connected/defective (heating medium supply after immersion heater) VVM 500: Blocking internal electric addition	Automatic reset	Proposal: Check the sensor and its connections. See also the electrical wiring diagram.	
124	Sensor fault EP30-BT53	Sensor not connected/defective (solar collectors)	Solar additive blocked.	Proposal: Check the senors and its connections. See also the electrical wiring diagram.	
125	Sensor fault EP30-BT54	Sensor not connected/defective (solar panel)	Solar additive blocked	Proposal: Check the sensor and its connections. See also the electrical wiring diagram.	
126	Sensor fault EM1-BT52	Sensor not connected/defective (boiler temperature)	Shunt closes. Burner shuts down.	Proposal: Check the sensor and its connections. See also the electrical wiring diagram.	
127	Sensor fault EQ1-BT64	Sensor not connected/defective (brine, supply)	Brine blocked, brine shunt closes.	Proposal: Check the sensor and its connections. See also the electric wiring diagram.	

144	Sensor fault QZ1-BT70	Sensor not connected/defective (hot water flow)	Mixing valve closes	Proposal: Check sensor and its connections	
145	Sensor fault EQ1-BT57	Sensor not connected/defective (Cooling brine)		Proposal: Check sensor and its connections	
146	Sensor fault EQ1-BT75	Sensor not connected/defective (cooling flow heat pump)		Proposal: Check sensor and its connections	
147	This alarm was generated by the heat pump	Sensor fault MHI exchanger	Compressor blocked	Proposal: - Sensor fault heat exchanger F2040, THO-R1(BT16)/THO-R2 EB101 - Defect control card EB101	
148	This alarm was generated by the heat pump	Sensor fault MHI ambient air	Compressor blocked	Proposal: - Sensor fault outdoor temperature sensor Tho-A(BT28) EB101 - Defect control card EB101	
149	This alarm was generated by the heat pump	Sensor fault MHI discharge	Compressor blocked	Proposal: - Sensor fault hotgas BT14 (Tho-D) EB101 - Defect control card EB101	
150	This alarm was generated by the heat pump	Sensor fault MHI suction	Compressor blocked	Proposal: - Sensor fault suction gas BT17 (Tho-S) EB101 - Defect control card EB101	
151	This alarm was generated by the heat pump	Sensor fault MHI LP	Compressor blocked	Proposal: - Sensor fault low pressure sensor BP2(LTP) EB101 - Defect control card EB101 - Error in refrigerant circuit EB101	
158	Compressor phase1 missing	Compressor phase is	Compressor	Proposal: Check the	

		missing or has been below 160V in more than 30 min.	blocked	phase. Reset the phase.	
159	Compressor phase 2 missing	Compressor phase is missing or has been below 160V in more than 30 min.	Compressor blocked	Proposal: Check the phase. Reset the phase.	
160	Compressor phase 3 missing	Compressor phase is missing or has been below 160V in more than 30 min.	Compressor blocked	Proposal: Check the phase. Reset the phase.	
161	Faulty phase sequence	Phases ar connected in wrong sequence	Compressor blocked	Proposal: Reconnect the phase sequence on incoming electricity.	
162	Overheated softstart	Fuses for the soft start card are defective	Compressor blocked.	- Defective fuse - Defective soft start card Also read: TDI Alarm 44 F1345 2013-12-18	
163		Motor protection on single phase (Norway) has probably been triggered.			
164	High pressure alarm	The high pressure switch has triggered repeatedly	Compressor blocked. Manual reset.	Bad circulation in the heating medium circuit. Proposal: - Bleed heat pump and climate system - Check the heating medium pump - Open any radiator thermostats - Check that the particle filter is not blocked - Check that the pressure switch is correctly connected Fault in cooling circuit: - Call a qualified refrigeration technician	
165	Low pressure alarm	F1145: Low pressure sensor has been below its cut-off value. Others: The	Compressor blocked. Manual reset.	Proposal: Groundsource: Check the brine flow and brine frost protection	

		low pressure switch has triggered.		point. See also the electric wiring diagram. Exhaust air: - Check ventilation flow and exhaust air temperature. - Check that the pressure switch is correctly connected - Check the defrost function and the sensors that control it.	
167	Temperature limiter	Temperature limiter has tripped	Immersion heater blocked. Manual reset.	Proposal: - Check if air in system. - Check if heating medium flow is correct. - Manual reset of the temerature limiter. See also the electric wiring diagram.	
168	Level switch	Level switch brine /pressure switch has triggered	The compressor and brine pump are blocked.	Proposal: Check and seal any leaks in the collector circuit.	
169		The motor protection breaker has triggered.		Proposal: Check the cabling connections of the compressor. Manual reset.	
170	Hot gas alarm	Comperssor has been stopped because the hot gas temperature exceeded its limits.	Compressor blocked. Manual reset.	Proposal: **Ground source:** Call a qualified refrigeration technician. **Exhaust air:** See alarm number 50, High pressure alarm.	
171	Incorrect serial number	Serial number does not exist	Compressor stopped and relay deactivated	Proposal: Check the serial number	
172	Incorrect firmware	Serial number and firmware do not match.	Compressor blocked and relay deactivates.	Proposal: Make sure that the firmware is designed for the product and serial number.	
173	Pressure switch	High- or low pressure switch have triggered.	Compressor blocked.	Bad circulation in heating medium or collector circuit. Proposal:	

				- Bleed heat pump, climate system and collector circuit - Check the brine freezing point - Check the heating medium and brine pump - Open any radiator thermostats - Check that the particle filter is not blocked - Check that the pressure switch is correctly connected Fault in cooling circuit: - Call a qualified refrigeration technician	
175	Low HTF out	The temperature of the outgoing brine goes below the set min- temperature and the alarm is selected.	Compressor blocked.	Proposal: Bad circulation in the brine circuit - Check the brine pump - Check that the brine is bled. Minimum limit is usually changed only at groundwater installations and open systems.	
182	Perm. com. error softstart card	No communication with the softstart card.	Compressor blocked.	Proposal: Check the communication circuits connections on softstart card and base card.	
183	Perm. com. error heating system 2	No communication with the accessory card.	Accessory blocked.	Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	

184	Perm. com. error heating system 3	No communiation with the accessory card.	Accessory blocked.	Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	
185	Perm. com. error heating system 4	No communication with the accessory card.	Accessory blocked.	Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	
186	Perm. com. error additive with shunt	No communication with the accessory card.	Accessory blocked.	Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	
187	Perm. com. error pool	No communication with the accessory card.	Accessory blocked.	Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	
188	Perm. com. error FLM	Permanent communication fault with the accessory card for FLM. Communication cables to the card are incorrect or incorrectly installed. Fault in the communication circuits in the	Accessory blocked.	Check the cables and cards.	

		accessory-, input- or display card. Incorrect address on the dipswitch.			
192	Perm. com. error step controlled additive	Permanent communication fault with the accessory card with step controlled additive.	Accessory blocked.	Proposal: Check the cables and cards.	
194	Perm. com. error HPAC	Permanent communication fault with the accessory card for HPAC. Communication cables to the card are incorrect or incorrectly installed. Fault in the communication circuits in the accessory-, input- or display card. Incorrect address on the dipswitch.	Accessory blocked.	Proposal: Check the cables and cards.	
195	Perm. com. fault groundwater pump	Permanent communication fault with the accessory card for groundwater pump. Communication cables to the card are incorrect or incorrectly installed. Fault in the communication circuits in the accessory-, input- or display card. Incorrect address on the dipswitch.	Accessory blocked.	Proposal: Check the cables and cards.	
196	Perm. com. error HWC	Permanent communication fault with the accessory card for hot water circulation. Communication cables to the card are incorrect or incorrectly installed. Fault in the communication circuits in the	Accessory blocked.	Proposal: Check the cables and cards.	

		accessory-, input- or display card. Incorrect address on the dipswitch.			
198	Perm. com. error 2-pipes cooling	Permanent communication fault with the accessory card for 2-pipes cooling. Communication cables to the card are incorrect or incorrectly installed. Fault in the communication circuits in the accessory-, input- or display card. Incorrect address on the dipswitch.	Accessory blocked.	Proposal: Check the cables and cards.	
199	Perm. com. error PCD4	Permanent communication fault with the accessory card for 4-pipes passive cooling. Communication cables to the card are incorrect or incorrectly installed. Fault in the communication circuits in the accessory-, input- or display card. Incorrect address on the dipswitch.	Accessory blocked.	Proposal: Check the cables and cards.	
205	Perm. Com. error inverter	Permanent communication fault with the inverter	Compressor blocked	Propposal: - Check the power supply leading to inverter and communication cables.	
206	Com.flt PCA Accessory climate system 5	Communication toward accessory card is missing. May due to a temporary external disturbance, eg. thunder	Accessory is blocked. Manual reset.	Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of	

				the dipswitch.	
207	Com.flt PCA Accessory climate system 6	Communication toward accessory card is missing. May due to a temporary external disturbance, eg. thunder	Accessory is blocked. Manual reset.	Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	
208	Com.flt PCA Accessory climate system 7	Communication toward accessory card is missing. May due to a temporary external disturbance, eg. thunder	Accessory is blocked. Manual reset.	Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	
209	Com.flt PCA Accessory climate system 8	Communication toward accessory card is missing. May due to a temporary external disturbance, eg. thunder	Accessory is blocked. Manual reset.	Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	
212	Low LP cool				
224	Perm. com. error HW-comfort	No communication with accessory card for 15 sec		Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	

229	High pressure alarm	Heat pump (selected outdoor unit) sending fault message to the controller	Compressor blocked	See troubleshooting for selected outdoor unit.	
230	Low pressure alarm	Heat pump (selected outdoor unit) sending fault message to the controller	Comperssor blocked.	See troubleshooting for selected outdoor unit.	
231	Motor protection alarm	Heat pump (selected outdoor unit) sending fault message to the controller	Compressor blocked	See troubleshooting for selected outdoor unit.	
232	Communication alarm	Heat pump (selected outdoor unit) sending fault message to the controller	Compressor blocked	See troubleshooting for the selected outdoor unit. Read more in: TDI 20141023	
233	Fan error	Heat pump (selected outdoor unit) sending a fault message to the controller	Compressor blocked	See troubleshooting for the selected outdoor unit.	
234	Flow/ return	Heat pump (selected outdoor unit) sending fault message to the controller	Compressor blocked	See troubleshooting for the selected outdoor unit.	
235	Sensor fault	Heat pump (selected outdoor unit) sending fault message to the controller	Compressor blocked	See troubleshooting for the selected outdoor unit.	
236	Defrost fault	Heat pump (selected outdoor unit) sending fault message to the controller	Compressor blocked	See troubleshooting for the selected outdoor unit.	
237	Short operation times for	Compressor has	Compressor	- Open thermostatic	

	compressor	stopped three times in a row, short time after start	blocked	valves to ensure circulation in the heating system - Bleed the climate system and heat pump - Check the filter in the climate system and possible ventilation - Check the start- and stop temperature for hot water charging - Check the heating medium pump - Check the cooling circuit	
238	Hot gas alarm	Heat pump (selected outdoor unit) sending fault message to the controller	Compressor blocked	See troubleshooting for the selected outdoor unit.	
239	Phase sequence error	Heat pump (selected outdoor unit) sending fault message to the controller	Compressor blocked	See troubleshooting for the selected outdoor unit.	
240	Low evaporation	Heat pump (selected outdoor unit) sending fault message to the controller	Compressor blocked	See troubleshooting for the selected outdoor unit.	
242	Com. error FLM	No communication temporarily with the accessory FLM	Accessory blocked	Proposal: - Check fuses, power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	
244	Com.error ACC-SMS 40	No communication temporarily with accessory card	Accessory blocked	See troubleshooting IHB SMS 40	
249	Com. error ACS45	No communication temporarily with accessory card	Accessory blocked	Proposal: - Check fuses, power supply leading to the accessory card.	

				- Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	
251	This alarm was generated by the heat pump	Temperature deviation on the heat exchanger sensor (Tho-R1/R2) five times within 60 minutes or continuously in 60 minutes	Compressor blocked	Proposal: - Defect sensor - Insufficient air circulation - The heat exchanger is clogged - Defect control card EB101 - Too large amount of refrigerant	
252	This alarm was generated by the heat pump	Overheat power transistor	Compressor blocked	15V power to the inverters PCB is unstable.	
253	This alarm was generated by the heat pump	Incorrect voltage out from the inverter	Compressor blocked	Proposal: - Disruption on incoming power - Service valve closed - Not enough refrigerant amount - Compressor fault - Defect circuit board for the inverter in EB101	
254	This alarm was generated by the heat pump	Communication between circuit board for the inverter and control card is interupted	Compressor blocked	Proposal: - Disruption on the connection between cards - Defect circuit board for the inverter in EB101 - Defect control card EB101	
255	This alarm was generated by the heat pump	Continuous error on power transistor during 15 minutes	Compressor blocked	Proposal: - Defect fan motor - Defect circuit board for the inverter in EB101	
256	This alarm was generated by the heat pump	Low refrigerant amount	Compressor blocked	Proposal: - Service valve closed - Loose contact on sensor (BT15, BT3)	

				- Defect sensors (BT15, BT3) - Too low refrigerant amount	
257	This alarm was generated by the heat pump	Inverter fault, boot failure	Compressor blocked	Proposal: - Defect circuit board for the inverter in EB101 - Defect control card EB101 - Compressor fault	
258	This alarm was generated by the heat pump	Overcurrent, inverter A/F module	Compressor blocked	- Sudden power failure	
266	Comm. Error Acc.-EQ1	Permanent communication error ACS310	Accessory blocked	Proposal: - Check communication cables - Check dipswitch settings	
268	Low extract air temp	Extract air temperatur (BT21) in ERS (AZ30) has been lower than 0gr in 10 minutes	Supply and exhaust air fan is stopped	Proposal: Check flow and heating setting	
269	Not compatible heatpump	The alarm occurs if the outdoor unit toward VVMS320 is not a F2030-7, F2030-9, F2040-8, F2040-12. Faulty settings of the dip switches on the circuit board.	HW blocked. Unit cannot be restarted after power supply was off.	Check the connections of the outdoor unit and dip switch settings. Read more in: TDI 20141023 , TDI 20140813	
270	Com. fault with PCA Accessory FTX	Communication toward accessory card is missing. May be due to a temporary external disturbance, eg. thunder	Accessory is blocked. Manual reset	Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	

271	Com. error slave 1	No communication temporarily with slave heat pump (EB101)	Slave compressor blocked	Proposal: Check slave settings in menu 5.2.2, communication cables and its connections. Read more in: TDI 20141023	
272	Com. error slave 2	No communication temporarily with slave heat pump (EB102)	Slave compressor blocked	Proposal: Check slave settings in menu 5.2.2, communication cables and its connections	
273	Com. error slave 3	No communication temporarily with slave heat pump (EB103)	Slave compressor blocked	Proposal: Check slave settings in menu 5.2.2, communication cables and its connections	
274	Com. error slave 4	No communication temporarily with slave heat pump (EB104)	Slave compressor blocked	Proposal: Check slave settings in menu 5.2.2, communication cables and its connections	
275	Com. error slave 5	No communication temporarily with slave heat pump (EB105)	Slave compressor blocked	Proposal: Check slave settings in menu 5.2.2, communication cables and its connections	
276	Com.error slave 6	No communication temporarily with slave heat pump (EB106)	Slave compressor blocked	Proposal: Check slave settings in menu 5.2.2, communication cables and its connections	
277	Com. error slave 7	No communication temporarily with slave heat pump (EB107)	Slave compressor blocked	Proposal: Check slave settings in menu 5.2.2, communication cables and its connections	
278	Com. error slave 8	No communication temporarily with slave heat pump (EB108)	Slave compressor blocked	Proposal: Check slave settings in menu 5.2.2, communication cables and its connections	
283	Com. fault PCA Acc. HTS 1	Communication toward accessory card is missing. May due to a temporary external disturbance, eg. thunder	Manual reset. Calculated cooling supply is set to 18degrees if HTS is selected to control in cooling	Proposal: -Check the sensor and its conncetions. Also see the electrical wiring diagram	

288	Maximum flow temperature from the heat pump is exceeded	Temperature out from heatpump has been over max allowed on supply sensor BT2 alt. BT63. The cause may be: - wrongly connected addition - wrongly adjusted flow - under dimensioned heat system - wronlgy adjusted heating curve	Heating blocked. Automatically reset when the tempareture is lower than 70 degrees	Proposal: Check the flow and heating settings, addition function	
291	Recuring safety defrost				
294	Anti-freeze supply air	Supply air temperature (BT22) is below 11°C.	HW load blocked. Returns automatically when the supply air temperature exceeds 16°C.	- Bleed the supply air battery. - Check the water temperature and the flow to the heating battery. - If repeated alarms; verify that circulated water volume is sufficient.	
295	Recuring high pressure				
302	Com.flt PCA Accessory OPT	May be due to a temporary external disturbance, eg. thunder. Try to reset the alarm, if the alarm recurs, select aid mode and contact your installer.	No action. Manual reset.	Proposal: Check the communication cables and the connections	
303	Internal OPT error	GBM alarm. This alarm is caused by the gas boiler. Try to reset the alarm, if the alarm reoccurs see manual for GBM.	No action. Manual reset.	Proposal: See the gas boiler manual for trouble shooting	

304	Internal OPT error	GBM alarm. This alarm is caused by the gas boiler and automatically resets when the fault is solved. If the alarm reoccurs , contact a service	No action. Automatically reset.	Proposal: See the gas boiler manual for trouble shooting	
305	Perm. com. error pool 2	No communication with the accessory card.	Accessory blocked.	Proposal: - Check the power supply leading to the accessory card. - Check the communication cables leading to the accessory card. - Check the setting of the dipswitch.	
308	Low power supply circ.pump	Low power supply to the circulation pump	Compressor and circulation pump blocked. Manual reset.	Proposal: Check the power supply to the circulation pump	
313	Dry run of circ.pump GP1 or GP2	Bad or no flow	Compressor and circulation pump blocked. Manuel reset	Check the circulationen for the active circuit. Proposal: GP1 (heating medium) - Bleed the heatpump and climate system - Check the filter so it is not clogged - Open floor/radiator thermostats. GP2 (brine) - Check the filter so it is not clogged - Bleed the brine circuit	
314	Unspecified fault				
315	Sensor fault on EB101	Sensor fault detected on EB101 of the COM-interface MHI-EMMY	- Compressor blocked - If GP12 or GP1 is regulated by sensor EB101-BT3, they will swich to the manually set speed.	Proposal: - Check the temperature sensor and its connections. See also the wiring diagram.	

316	Sensor fault on EB101	Sensor fault detected on EB101 of the COM-interface MHI-EMMY	- Compressor blocked	Proposal: - Check the temperature sensors and its connections. See also the wiring diagram.	
317	Sensor fault on EB101-BT12	Sensor fault detected on EB101 of the COM-interface MHI-EMMY	- Compressor blocked - If GP12 or GP1 is regulated by sensor EB101-BT3, they will swich to the manually set speed.	Proposal: - Check the temperature sensor and its connections. See also the wiring diagram.	
318	Sensor fault on EB101-BT15	Sensor fault detected on EB101 of the COM-interface MHI-EMMY	Compressor blocked	Proposal: - Check the temperature sensor and its connections. See also the wiring diagram.	
319	Inverter alarm type II	A temporary communication alarm has occured 3 times within 2 hours or has been continuously for 1 h.	Compressor blocked. Manual reset in menu.	Proposal: - Check the main fuse and the group fuses and their connections. - Check the communication cable to the inverter and its connections - Do a restart of the heat pump by turning it off through the operating switch - If the alarm occurs again; contact a service technician.	
320	Inverter alarm type II	A temporary alarm on the external input of the inverter has occurred 3 times within 2 hours or the input has been continuously broken for 1 hour.	Compressor blocked. Manual reset in menu.	Proposal: - Check the communication cable on the external input of the inverter - Check the main fuse and the group fuses - Restart the heat pump by turning it off through the operation switch - If the fault occurs again; contact a service technician	

323	Inverter alarm	A temporary internal fault in the inverter has occured 3 times within 2 hours or lasting for 1h.			
324	Inverter alarm type II	A temporary internal fault in the inverter has occurred 3 times within 2 hours or continuously in 1 hour.	Compressor blocked. Reset manually in menu.	Proposal: - Check the main fuse and the group fuses and their connections. - Restart the heat pump through the power switch to break the power. - If the alarm occurs again; contact a service technician. 1 phase inverter: Check the condensator	
325	Inverter alarm type I	Phase voltage to the inverter has temporarily been too high more than 1 hour.	Reset manually in menu. Compressor blocked.	Proposal: - Check the main fuse and the group fuses and their connections. - If the alarm occurs again; contact a service technician.	
326	Inverter alarm type I	Phase voltage to the inverter has been too low, below 180V in more than 1 hour.	Compressor blocked. Reset manually in menu.	Proposal: - Check the main fuse and the group fuses and their connections. - If the alarm occurs again; contact a service technician.	
327	Inverter alarm type I	A compressor phase continuously missing to the inverter for an hour.	Compressor blocked. Reset manually in menu.	Proposal: - Check the main fuse and the group fuses and their connections. - If the alarm occurs again; contact a service technician.	
328	Inverter alarm type II	A temporary inverter fault in the inverter has occurred 3 times within 2 hours or continuously in 1 hour.	Compressor blocked. Manual reset in menu.	Proposal: - Check the main fuse and the group fuses and their connections. - Restart the heat pump through the power switch to break the power. - If the alarm occurs	

				again; contact a service technician.	
329	Inverter alarm type II	The inverter has temporary reached maximum operating temperature because of poor cooling 3 times within 2 hours or been missing continuously in 1 hour.	Compressor blocked. Reset manually in menu.	Poor circulation in HM circuit. Proposal: - Bleed the heat pump and the climate system. - Check the particle filter, so it is not clogged. - Open radiators/under floor heating thermostats. - If the alarm occurs again; contact a service technician.	
330	Inverter alarm type II	Max "power in" has temporary been too high 3 times within 2 hours or been missing continuously for an hour.	Compressor blocked. Reset manually in menu.	Proposal: - Check the main fuse and the group fuses and their connections. - If the alarm occurs again; contact a service technician.	
331	Inverter alarm type II	Inverter has temporary reached max operating temperature because of poor cooling 3 times within 2 hours or been missing continuously in an hour.	Compressor blocked. Manual reset in menu.	Poor circulation in HM circuit. Proposal: - Bleed the heat pump and the climate system. - Check the particle filter, so it is not clogged. - Open radiators/under floor heating thermostats. - If the alarm occurs again; contact a service technician.	
332	Inverter alarm type II	A temporary inverter fault has occurred 3 times within 2 hours or continuously in 1 hour.	Compressor blocked. Manual reset in menu.	Proposal: - Check the main fuse and the group fuses and their connections. - Restart the heat pump through the power switch to break the power. - If the alarm occurs again; contact a service technician.	
333	Inverter alarm type II	A phase has temporarily been missing 3 times within 2 hours or been missing	Compressor blocked. Manual reset in menu.	- Check the main fuse and the group fuses and their connections. - If the fault occurs again; contact a service	

		continuously for 1 hour.		technician.	
334	Inverter alarm type II	The compressor has temporarily been operating with lower speed than allowed minimum speed, 3 times within 2 hours or been missing continuously for 1 hour.	Compressor blocked. Manual reset is possible when the alarm has disappeared.	- Check the main fuse and the group fuses and their connections. - If the fault occurs again; contact a service technician.	
335	Inverter alarm type III	*Not used function (false alarm)*		- Check the main fuse and the group fuses and their connections. - Restart the heat pump through the power switch to break the power. - If the alarm occurs again; contact a service technician.	
336	Inverter alarm type II	Power out from inverter to compressor has temporarily been too high 3 times within 2 hours or been missing continuously in 1 hour.	Compressor blocked. Manual reset in menu.	- Check the main fuse and the group fuses and their connections. - If the fault occurs again; contact a service technician.	
337	Inverter alarm type II	Temporary too high output from the inverter has occurred.	Compressor stopped. Automatic reset 60 sec. after the inverter has occurred.	- Check the main fuse and the group fuses and their connections. - If the fault occurs again; contact a service technician.	
338	Inverter alarm type II	*(Only 1-phase)* Too high "power in" to inverter has temporarily occurred 3 times within 2 hours or been missing continuously in 1 hour. Can depend on low incomming power (>198 VAC)	Compressor blocked. Manual reset in menu.	- Check the main fuse and the group fuses and their connections. - If the fault occurs again; contact a service technician.	

340	Inverter alarm type III	*Not used function (false alarm)*	Proposal: - Check the main fuse and the group fuses and their connections. - Restart the heat pump through the power switch to break the power. - If the alarm occurs again; contact a service technician.	
341	Inverter alarm type III	*Not used function (false alarm)*	Proposal: - Check the main fuse and the group fuses and their connections. - Restart the heat pump through the power switch to break the power. - If the alarm occurs again; contact a service technician.	
342	Inverter alarm type III	*Not used function (false alarm)*	Proposal: - Check the main fuse and the group fuses and their connections. - Restart the heat pump through the power switch to break the power. - If the alarm occurs again; contact a service technician.	
343	Inverter alarm type III	*Not used function (false alarm)*	Proposal: - Check the main fuse and the group fuses and their connections. - Restart the heat pump through the power switch to break the power. - If the alarm occurs again; contact a service technician.	
344	Inverter alarm type III	*Not used function (false alarm)*	Proposal: - Check the main fuse and the group fuses and their connections. - Restart the heat pump through the power switch to break the	

				power. - If the alarm occurs again; contact a service technician.	
345	Inverter alarm type III	*Not used function (false alarm)*		Proposal: - Check the main fuse and the group fuses and their connections. - Restart the heat pump through the power switch to break the power. - If the alarm occurs again; contact a service technician.	
346	Inverter alarm type III	*Not used function (false alarm)*		Proposal: - Check the main fuse and the group fuses and their connections. - Restart the heat pump through the power switch to break the power. - If the alarm occurs again; contact a service technician.	
354	Compressor speed too low				
368	Com.error MCB card	Communication toward MCB card is missing (Base card AA2)	Compressor blocked. Manual reset.	Proposal: Check the communication connections on MCB card (Base card AA2)	
369	Com.error ASB1 card	Communication toward ASB 1 card is missing (AA3)	Compressor blocked. Manual reset.	Proposal: Check the communication connections and power supply to the ASB1 card (AA3)	
370	Com.error ASB2 card	Communication toward ASB 2 card is missing (AA23)	Compressor blocked. Manual reset.	Proposal: Check the communication connections and power supply to the ASB 2 card (AA23)	

371	Perm. com. error Solar	Permanent communication fault with the accessory card for Solar. Communication cables to the card are incorrect or incorrectly installed. Fault in the communication circuits in the accessory-, input- or display card. Incorrect address on the dipswitch.	Accessory blocked.	Proposal: Check the cables and cards.	
372	The inverter has a message	Accessory SOLAR; inverter has a message. Fault error code can be read in service info 3.1	No action. Automatic reset		
373	Inverter has ground fault	Accessory SOLAR; Inverter has ground fault	No action. Automatic reset	Proposal: Check connection of PV-panels/inverter	
378	Inverter has high DC voltage	Inverter has high DC voltage	Automatic reset		
379	No comm. with inverter for five days	There has been no communication with the inverter for five days. Check the installation.	Automatic reset or manual reset available in menu	Proposal: - Check the inverter - Check the communication cable and its connections toward the inverter	
382	Inverter is limited for a long time	The inverter has been limited by temperature protection for more than 70% of the past 48 hours	Compressor allowed to run with limitation. Manual reset.	Poorcirculation in heating medium circuit. Proposal: - Purge the heat pump and climate system - Check the filter so its not clogged - Open radiator- and floor thermostats. Bad contact heat transfer of the inverter: - Check screws and	

				paste	
383	Inverter alarm type II	Incorrect inverter	Manual reset in menu. Compressor blocked.	Suggestion: - Upgrade firmware to at least version: F1155, F1255 v7740R4 F2120 v431 F750 v7679R4 F730 v7696R6 - Replace the inverter	
384	Com. flt PCA Acc. HTS 2	Communication toward accessory card is missing. May be due to a temporary external disturbance, eg. thunder	Manual reset. Calculated cooling supply is set to 18 degrees if HTS is set to control cooling	Proposal: Check sensor and its connections. See also the electrical wiring diagram	
385	Com. flt PCA Acc. HTS 3	Communication toward accessory card is missing. May due to a temporary external disturbance, eg. thunder	Manual reset. Calculated cooling supply is set to 18 degrees if HTS is set to control cooling	Proposal: Check sensor and its connections. See also the electrical wiring diagram	
386	Com. flt PCA Acc. HTS 4	Communication toward accessory card is missing. May due to a temporary external disturbance, eg. thunder	Manual reset. Calculated cooling supply is set to 18 degrees if HTS is set to control cooling	Proposal: Check sensor and its connections. See also the electrical wiring diagram	