



LILLNORD

next generation cooling technologies

Trouble Shooting & Alarm Index for Modulux ML/SL

Trouble Shooting / Alarm Index

Red Faults =	Faults are acute and require immediate redress / action and experience.
---------------------	--

Blue Faults =	Faults are acute, but because of their nature do not require the assistance of a technician (e.g. open door)
----------------------	---

Yellow Faults =	Faults are not acute by nature. The redress can wait for up to 64 hours following the alarm. Faults will be gathered at Lillnord and within 64 hours the relevant service partner will be contacted. Together with Lillnord the fault will be diagnosed and then the service partner is able to contact the customer in order to arranging a time for on the spot service.
------------------------	---

Alarm	Description	Cause	Redress
-------	-------------	-------	---------

Alarm - Power Consumption

01 Yellow	The computer has no voltage.	<ul style="list-style-type: none"> Fuse blown. Power cut. 	<ul style="list-style-type: none"> Change fuse.
02 Yellow	The computer has no voltage and the battery has been flat so that values set have been lost.	<ul style="list-style-type: none"> Power has been disconnected for more than 1 month. Battery defective (Not TOUCH) 	<ul style="list-style-type: none"> Reset all values. Replace battery
03 Yellow	Breaking af phase. Wrong phase sequence.	<ul style="list-style-type: none"> Fuse blown. Phase wrongly connected.. 	<ul style="list-style-type: none"> Change fuse. Exchange 2 phases.
04 Red	No internet connection facility No power to the unit No light in the computer	<ul style="list-style-type: none"> Router off or faulty cable Fuse has blown Control fuse in unit blown 	<ul style="list-style-type: none"> Turn on the router or replace cable. Reconnect or change fuse. Reconnect or change fuse.
06 Red	Computer is running on emergency power supply	<ul style="list-style-type: none"> Power cut 	<ul style="list-style-type: none"> Change fuse
07 Yellow	Emergency power supply battery is defective.	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Change battery

Alarm - Moisture

10 Yellow	Excessive power consumption on the steam container.	<ul style="list-style-type: none"> Intervals between automatic drainages too long. Solenoid valves does not close tightly. Electrode distance too small. 	<ul style="list-style-type: none"> Increase number of automatic drainages. Clean or replace solenoid valve. Replace electrodes to electrodes with larger distance.
12	Excessive no. of water fillings.	<ul style="list-style-type: none"> Drain valve does not close tightly. 	<ul style="list-style-type: none"> Clean / replace drain valve.
13 Yellow	Excessive no. of water fillings.	<ul style="list-style-type: none"> No water fed to the unit. Solenoid valve and filter clogged. Solenoid valve defective. Drain valve does not close tightly. Worn electrodes or to large distance between electrodes.. 	<ul style="list-style-type: none"> Check water inlet. Clean solenoid valve and filter. Replace solenoid valve. Clean or replace drain valve. Replace electrodes.
14 Yellow	Steam unit does not emit sufficient steam.	<ul style="list-style-type: none"> Power consumption of steam unit too low. Duration of water filling time too short. PID is set too low. (TOUCH) 	<ul style="list-style-type: none"> Increase power consumption. Raise duration of water filling time. Increase PID.
16 Yellow	Drain valve leaks.	<ul style="list-style-type: none"> Lime in valve. Valve sealing defective. 	<ul style="list-style-type: none"> Clean valve. Replace valve housing.
17 Yellow	Solenoid valve does not close tight.	<ul style="list-style-type: none"> Lime in valve. Valve sealing defective. 	<ul style="list-style-type: none"> Clean valve. Replace valve housing.

Alarm	Description	Cause	Redress
-------	-------------	-------	---------

Alarm - Moisture - cont.

18 Yellow	Steam unit does not drain the water off	<ul style="list-style-type: none"> • Drain valve does not open. 	<ul style="list-style-type: none"> • Replace motor valve.
19 Yellow	Relay for steam unit does not draw.	<ul style="list-style-type: none"> • Relay defective. 	<ul style="list-style-type: none"> • Replace relay.

Alarm - Freezers

20 Red	Compressor unit does not cool or does not cool sufficiently.	<ul style="list-style-type: none"> • Compressor is not running. • Lack of coolant. • Blown fuse. • Superheater disconnected. • Oil lacking on compressor. 	<ul style="list-style-type: none"> • Check superheater and fuse • Refill coolant. • Change fuse. • Reconnect superheater. • Refill oil.
21 Yellow	Compressor runs with excessive pressure.	<ul style="list-style-type: none"> • Condenser clogged. • Insufficient air circulation around the compressor. 	<ul style="list-style-type: none"> • Clean condenser. • Provide more air around the compressor (e.g. open a window).
22 Yellow	Compressor does not start up.	<ul style="list-style-type: none"> • Stopped at high pressure. • Superheater disconnected. • Lack of coolant. 	<ul style="list-style-type: none"> • Provide fresh air to the compressor. • Check fuses and wait. • Refill coolant.
23 Red	Compressor does not start up even though the solenoid valve is open.	<ul style="list-style-type: none"> • Signal exit to the reel is defective. • No voltage on the solenoid valve reel. • The compressor has lost the coolant. 	<ul style="list-style-type: none"> • Check cable to the reel. • Change computer. • Find leak, repair and refill coolant.
24 Yellow	Compressor does not stop on pump-down.	<ul style="list-style-type: none"> • Dirt in the solenoid valve. • Solenoid valve is defective. 	<ul style="list-style-type: none"> • Change solenoid valve • Change solenoid valve
25 Yellow	Compressor has stopped on high pressure.	<ul style="list-style-type: none"> • The condensing unit is clogged up. • The fans are not running. • Insufficient air circulation around the compressor. 	<ul style="list-style-type: none"> • Clean the condensing unit. • Check voltage on the fans. • Provide more air to the compressor (open up windows).
26 Red	No power supply to the compressor.	<ul style="list-style-type: none"> • Cut by motor protection • Cut by the oil pressure switch • Power supply cut 	<ul style="list-style-type: none"> • Wait until compressor has cooled down and measure the 3 phases • Refill coolant and reconnect the oil pressure switch • Re-establish power supply.
27 Red	Compressor disconnected on superheater, motor protection or oil pressure pressostat.	<ul style="list-style-type: none"> • Blown fuse. • Compressor overloaded. • Compressor too warm. • Lacks oil. 	<ul style="list-style-type: none"> • Change fuse. • Reconnect superheater. • Improve suction gas cooling. • Refill oil.

Alarm	Description	Cause	Redress
-------	-------------	-------	---------

Alarm - Throttle

29 Yellow	Throttle is stuck in open position, figure should be above 700 in operational status on computer.	<ul style="list-style-type: none"> Throttle is stuck due to icebuilding. The throttle runs in the wrong direction. Throttle is not 100% adjusted. 	<ul style="list-style-type: none"> Clean the throttle for ice. Change the direction of throttle. Adjust throttle.
--------------	---	--	--

Alarm - Heat

30 Yellow	Heating system does not heat or heats insufficiently.	<ul style="list-style-type: none"> Defective heating element. Defective heating contactor. 	<ul style="list-style-type: none"> Replace heating element. Replace heating contactor.
31 Yellow	Relay for heating does not draw	<ul style="list-style-type: none"> Defective relay Fan not running Disconnected on super heater relay 	<ul style="list-style-type: none"> Replace relay Check fan Replace relay
33 Blue	Heat disconnected on superheater fuse.	<ul style="list-style-type: none"> Defective fan. Defective speed regulation fan. Defective computer. 	<ul style="list-style-type: none"> Exchange fan. Exchange fan regulation. Exchange computer.

Alarm - Sensors

40/41	Incorrect room temperature	<ul style="list-style-type: none"> Defective temperature sensor. 	<ul style="list-style-type: none"> Replace temperature sensor.
42/43 Yellow	Incorrect temperature showing evaporator 1.	<ul style="list-style-type: none"> Defective temperature sensor evaporator 1. 	<ul style="list-style-type: none"> Replace temperature sensor evaporator 1.
44/45 Yellow	Incorrect temperature showing evaporator 2.	<ul style="list-style-type: none"> Defective temperature sensor evaporator 2. 	<ul style="list-style-type: none"> Replace temperature sensor evaporator 2.

Alarm - Evaporator

46 Yellow	The throttle is not working correctly	<ul style="list-style-type: none"> Throttle is stuck due to icebuilding. The throttle runs in the wrong direction. Throttle is not 100% adjusted. 	<ul style="list-style-type: none"> Clean the throttle for ice. Change the direction of throttle. Adjust throttle.
49 Red	Error on 18V DC.	<ul style="list-style-type: none"> Too much load on 18V DC. 18V DC short-circuited. Defective computer. 	<ul style="list-style-type: none"> Remove load on 18V DC. Remove short-circuit on 18V DC. Exchange computer.

Alarm	Description	Cause	Redress
-------	-------------	-------	---------

Alarm - Defrosting

50/51 Yellow	The defrosting programme has not finished within max. time—too much ice on the evaporator	<ul style="list-style-type: none"> Numbers of defrosting periods too low. Time between defrosting periods too long. Defrosting effect too low. The evaporator is iced up. The compressor lacks coolant. (Hotgas) 	<ul style="list-style-type: none"> Carry out manual defrosting or increase number of automatic defrosting periods. Increase number of defrosting periods Increase effect. Run an extra manual defrosting or set 1 extra defrosting period. Refill coolant. (Hotgas)
52 Yellow	Defrosting heat does not start up.	<ul style="list-style-type: none"> Chamber is not cold. Defrosting thermostat is wrongly set. Defective defrosting thermostat. 	<ul style="list-style-type: none"> Cool down chamber. Set thermostat at approx. +5°C. Replace thermostat.
53 Yellow	The evaporator becomes too warm	<ul style="list-style-type: none"> Too high an end temperature in the defrosting programme. The unit is not cold. 	<ul style="list-style-type: none"> Adjust end temperature in the defrosting programme. Cool the unit down.
54 Yellow	Computer setting wrong.	<ul style="list-style-type: none"> Wrong computer setting of defrosting type. 	<ul style="list-style-type: none"> Correct setting.
55 Yellow	Computer setting wrong.	<ul style="list-style-type: none"> Wrong computer setting of numbers of evaporators. 	<ul style="list-style-type: none"> Correct setting.
57 Blue	There is fault on the electronic thermo valve.	<ul style="list-style-type: none"> Fault settings on the electronic thermo valve. Fault on sensor for thermo valve. Fault on the electronic thermo valve. 	<ul style="list-style-type: none"> Check setting of the electronic thermo valve on the display of regulator for the electronic thermo valve. Check for error on the sensor to the electronic thermo valve on the display of regulator for the electronic thermo valve. Check cables and connectors or replace faulty sensor. Check for errors on the electronic thermo valve on the display of regulator for the electronic thermo valve. Check cables and connectors or replace faulty sensor.

Alarm	Description	Cause	Redress
-------	-------------	-------	---------

Alarm - General

60 Blue	Door is open.	<ul style="list-style-type: none"> Door has been left open for more 	<ul style="list-style-type: none"> Close door and press CLEAR.
62 Blue	Stop proving.	<ul style="list-style-type: none"> The door has not been opened 	<ul style="list-style-type: none"> Press CLEAR to cancel fault.
68 Yellow	Battery failure modem.	<ul style="list-style-type: none"> Backup battery in modem discharged. Back-up battery in modem is 	<ul style="list-style-type: none"> Reset modem and recharged battery. Replace battery.
69	Battery failure.	<ul style="list-style-type: none"> Battery supply too low. 	<ul style="list-style-type: none"> Replace battery.

Alarm - Rack transport system

70 Yellow	Rack transport system 1. The rack is ready for storage.	<ul style="list-style-type: none"> The rack has not been removed automatically. The rack does not have the correct size. 	<ul style="list-style-type: none"> Remove rack. Check rack size.
71 Yellow	Rack transport system 2. The rack is ready for storage.	<ul style="list-style-type: none"> The rack has not been removed automatically. The rack does not have the correct size. 	<ul style="list-style-type: none"> Remove rack. Check rack size.
72 Yellow	Spindle 1 is not running.	<ul style="list-style-type: none"> The rack may be stuck. Motor protection disconnected. Spindle sensor out of order. 	<ul style="list-style-type: none"> Remove rack. Reconnect the protection. Replace sensor.
73 Yellow	Spindle 2 is not running.	<ul style="list-style-type: none"> The rack may be stuck. Motor protection disconnected. Spindle sensor out of order. 	<ul style="list-style-type: none"> Remove rack. Reconnect the protection. Replace sensor.
75 Yellow	Spindle 1 or 2 have been disconnected due to overload.	<ul style="list-style-type: none"> Rack jammed. Spindle is stuck. 	<ul style="list-style-type: none"> Remove rack. Loosen spindle.

Alarm - Supervision

80	Fault ID-list.	<ul style="list-style-type: none"> No units registered on ID-list. 	<ul style="list-style-type: none"> Enter new ID-list.
81	Fault alarm filter.	<ul style="list-style-type: none"> All filters are on OFF. 	<ul style="list-style-type: none"> As a minimum 1 filter must be ON.
83	Fault answer.	<ul style="list-style-type: none"> Unit not in operation. 	<ul style="list-style-type: none"> Start up unit or enter new ID-list.
84 Yellow	Fault timer control.	<ul style="list-style-type: none"> As a minimum 1 hour must be entered. 	<ul style="list-style-type: none"> Enter number of hours. Set Mastercomputer for "Manuel" and not "Auto".

Alarm	Description	Cause	Redress
-------	-------------	-------	---------

Alarm - Modem

90 Yellow	Fault modem.	<ul style="list-style-type: none"> Modem not switched on. Modem error. 	<ul style="list-style-type: none"> Switch on modem. Close down computer and start it up again.
91 Yellow	Fault dial-up.	<ul style="list-style-type: none"> Telephone call not answered. Wrong telephone number in computer. Telephone line out of order. 	<ul style="list-style-type: none"> Check receiver's telephone number. Check number. Contact telephone company.
93 Red	Fault emergency power modem.	<ul style="list-style-type: none"> Emergency power modem is not receiving commands. 	<ul style="list-style-type: none"> Manuel reset of the modem on the button by modem.
98+99	Fault TEST	<ul style="list-style-type: none"> Test 	<ul style="list-style-type: none"> Test, press CLEAR

Alarm - Communications

101 Yellow	Wrong databus Flex IO 3000.	<ul style="list-style-type: none"> ID no, incorrect. Bus cable not mounted. Error on bus cable. Blown 24V AC fuse. 	<ul style="list-style-type: none"> Write correct ID No. Mount bus cable. Exchange bus cable. Exchange 24V AC fuse.
102 Yellow	Incorrect version no. on Flex IO.		<ul style="list-style-type: none"> Update Flex IO card.