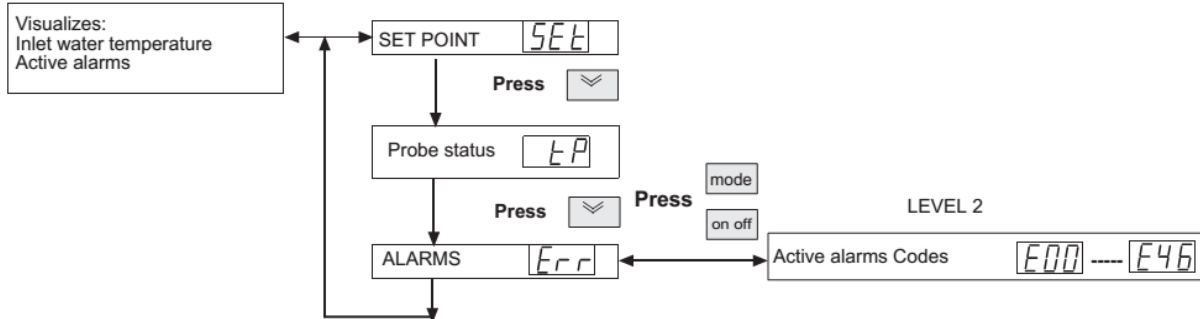


ALARM CODES

MENU STRUCTURE

MAIN DISPLAY



The unit self-protects through safety devices; when any of these safety devices detect an anomaly, this is shown in the display in order to advise the installer.

The activation of an alarm brings about:

- The display of the alarm code beginning with the letter E and follows a number; if more than one alarm will be activated, the alarm visualized would be the one with the lowest numerical value.
- The blocking of some or all the outputs, depending on the type of alarm.

E00: This indication is not an alarm; it indicates that unit is turn off from ON /OFF remote.

VIS (Visualization): It Indicates the type of alarm shown on the display.

RE (Reset): Type of reset:

AUT: AUTOMATIC RESET: Some alarms are automatically reset. When the cause is no longer present, they disappear from the display.

MAN: MANUAL RESET: Press ON/OFF button and **release within 2 seconds**. If the alarm conditions have been removed, the instrument returns to the normal operation and the alarm relay is de-energized. If on the other hand, the alarm conditions persist, then call for technical service.

VIS.	DESCRIPTION	EFFECT	RE	ACTION
E01	High pressure switch alarm. This alarm may indicate the following problems: - High pressure switch protection. - Fuses of the fan burnt out.	Circuit 1 compressors stop	MAN	Press the ON/OFF button, until the alarm disappears; if the alarm shows up again, check: • Coil clean and no blocked. • Water flow on the heating cycle. • Check fuses of the fan. • Outside temperatures very high. • Check refrigerant charge.
E02	Low pressure switch alarm. This alarm may indicate the following problems: - Low amount of refrigerant. - Low water flow in cooling cycle. - Blocked coil in heating cycle. - Fuses of the fan burnt out. After two automatic resets in one hour, it comes to be a manual reset.	Circuit 1 compressors stop	MAN	When this alarm shows up repeatedly, and the alarm keeps on, make an electrical reset and check: • Coil clean and no blocked. • Water flow on the cooling cycle. • Check fuses of the fan. • Outside temperatures very low. • Check refrigerant charge.
E03	Compressor thermal protection alarm: - Compressor thermal protection open. - Faulty power supply.	Compressor 1 circuit 1 stops	MAN	Press the ON/OFF button until the alarm disappears; if alarm shows up again, check continuity and change the faulty component. • Check refrigerant charge. • Check the refrigerant circuit is not blocked. • Check connections and fuses. • Check power supply.
E04	Fan thermal protection alarm.	Circuit 1 Fan and circuit 1 compressors stop	MAN	Press the ON/OFF button until the alarm disappears; if alarm shows up again, check continuity and change the faulty component.

ALARM CODES

VIS.	DESCRIPTION	EFFECT	RE	ACTION
E05	Anti-freeze alarm. It indicates the outlet water temperature is lower than +3°C. After 1 automatic reset, it comes to be a manual reset.	Unit stops (*)	MAN	Press the ON/OFF button until the alarm disappears; if alarm shows up again, <ul style="list-style-type: none"> • Check the water filter. • Check water flow. • Check that the water pump is connected to power supply of the unit.
E06	Outlet water temperature probe alarm (St2). Outlet water temperature probe open or without connecting.	Unit stops	AUTO	These protections are automatic reset; if alarm shows up again, check: <ul style="list-style-type: none"> • Connection of outlet water temperature probe (St2) (see electrical diagram), check continuity and change the faulty component.
E07	Refrigerant piping temperature probe (St3) alarm. Refrigerant piping temperature probe open or without connecting.	Unit stops	AUTO	These protections are automatic reset; if alarm shows up again, check: <ul style="list-style-type: none"> • Connection of refrigerant piping temperature probe (St3) (see electrical diagram), check continuity and change the faulty component.
E11	High pressure / high temperature alarm. It is activated when refrigerant piping temperature probe (St3) detects a temperature higher than 70°C and the high pressure switch has not been activated.	Circuit 1 compressors stop	AUTO	Press the ON/OFF button until the alarm disappears; if alarm shows up again, check: <ul style="list-style-type: none"> • Working of high pressure switch. • Coil clean and no blocked. • Water flow on the heating cycle. • Check fuses of the fan. • Outside temperatures very high. • Check refrigerant charge.
E12	Low pressure / low temperature alarm. It is activated when refrigerant piping probe (St3) detects a temperature lower than -30°C and the low pressure switch has not been activated.	Circuit 1 compressors stop	AUTO	<ul style="list-style-type: none"> • Check low pressure switch working. • Coil clean and no blocked. • Check water flow on the cooling cycle. • Check fuses of the fan. • Outside temperatures very low. • Check refrigerant charge.
E13	Compressor 2 thermal protection alarm: - Compressor thermal protection open. - Faulty power supply.	Compressor 2 circuit 1 stops	MAN	Press the ON/OFF button until the alarm disappears; if alarm shows up again, check continuity and change the faulty component. <ul style="list-style-type: none"> • Check refrigerant charge. • Check the refrigerant circuit is not blocked. • Check connections and fuses. • Check power supply.
E21	High pressure switch alarm, circuit 2. This alarm may indicate the following problems: - High pressure switch protection. - Fuses of the fan burnt out.	Circuit 2 compressors stop	MAN	Press the ON/OFF button until the alarm disappears; if the alarm shows up again, check: <ul style="list-style-type: none"> • Coil clean and no blocked. • Water flow on the heating cycle. • Check fuses of the fan. • Outside temperatures very high. • Check refrigerant charge.
E22	Low pressure switch alarm, circuit 2. This alarm may indicate the following problems: - Low amount of refrigerant. - Low water flow in cooling cycle. - Blocked coil in heating cycle. - Fuses of the fan burnt out. After two automatic resets in one hour, it comes to be a manual reset.	Circuit 2 compressors stop	MAN	When this alarm shows up repeatedly, and the alarm keeps on, make an electrical reset and check: <ul style="list-style-type: none"> • Coil clean and no blocked. • Water flow on the cooling cycle. • Check fuses of the fan. • Outside temperatures very low. • Check refrigerant charge.

(*) Unit **stops** except water pump.

ALARM CODES

VIS.	DESCRIPTION	EFFECT	RE	ACTION
E23	Compressor thermal protection alarm compressor 1 circuit 2: - Compressor thermal protection open. - Faulty power supply.	Compressor 1 circuit 2 stops	MAN	Press the ON/OFF button until the alarm disappears; if alarm shows up again, check continuity and change the faulty component. • Check refrigerant charge. • Check the refrigerant circuit is not blocked. • Check connections and fuses. • Check power supply.
E24	Fan thermal protection alarm.	Circuit 2 fan and circuit 2 compressors stop	MAN	Press the ON/OFF button until the alarm disappears; if alarm shows up again, check continuity and change the faulty component.
E27	Refrigerant piping temperature probe alarm (St6) circuit 2. It may indicate: - Refrigerant piping temperature probe open or without connecting.	Unit stops	AUTO	These protections are automatic reset; if alarm shows up again, check: • Connection of refrigerant piping temperature probe (St6) (see electrical diagram), check continuity and change the faulty component.
E31	High pressure / high temperature alarm. It is activated when refrigerant piping temperature probe (St6) detects a temperature higher than 70°C and the high pressure switch has not been activated.	Circuit 2 compressors stop	AUTO	Press the ON/OFF button, until the alarm disappears; if alarm shows up again, check: • Working of high pressure switch. • Coil clean and no blocked. • Water flow on the cooling cycle. • Check fuses of the fan. • Outside temperatures very high. • Check refrigerant charge.
E32	Low pressure / low temperature alarm. It is activated when refrigerant piping temperature probe (St6) detects a temperature lower than -30°C and the low pressure switch has not been activated.	Circuit 2 compressors stop	AUTO	• Check low pressure switch working. • Coil clean and no blocked. • Check water flow on the cooling cycle. • Check fuses of the fan. • Outside temperatures very low. • Check refrigerant charge.
E33	Compressor 4 thermal protection alarm. - Compressor thermal protection open. - Faulty power supply.	Compressor 2 circuit 2 stops	MAN	Press the ON/OFF button until the alarm disappears; if alarm shows up again, check continuity and change the faulty component. • Check refrigerant charge. • Check the refrigerant circuit is not blocked. • Check connections and fuses. • Check power supply.
E40	Inlet water temperature probe alarm (St1). It may indicate: - Inlet water temperature probe open or without connecting.	Unit stops	AUTO	Check connection of inlet water temperature probe (St1) (see electrical diagram), check continuity and change the faulty component.
E41	Water flow switch alarm. It indicates low water flow in the unit.	Unit stops (*)	AUTO	• Check water circuit is not blocked. • Check water filter. • Check water pump operation.
E42	St4 probe error.	Unit stops	AUTO	Check the St4 probe connection or cancel Dynamic set point if the unit does not incorporate St4 probe.
E45	Alarm of configuration error. It may indicate that the terminal is broken.	Unit stops	AUTO	These protections are automatic reset; if the alarm shows up again, check the continuity and change the faulty component.
E46	High inlet water temperature. It indicates: Inlet water temperature probe detects temperatures higher than 90°C during more than one minute.	Unit stops	AUTO	These protections are automatic reset; if the alarm shows up again, check connection of inlet water temperature probe (St1) (see electrical diagram), check the continuity and change the faulty component

(*) Unit **stops** except water pump.