

## Heat pump configuration, control and error reporting via service panel display unit



Display with setting keys



**Menu Key**

Press to scroll through menu items



**+ Key**

Press to increase values



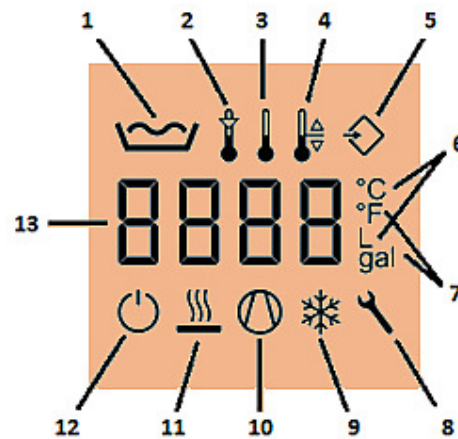
**- Key**

Press to decrease values



**Rapid heating key | unlock key**

Activate booster & unlock unit after critical faults



LC display

No.	Description of LCD symbols
1	Continuously on – default display, mixed water volume
2	Continuously on – temporary set value reduction
3	Continuously on – temperature indication icon
4	Continuously on – setpoint 1 temperature adjustment
5	Continuously on – setpoint 2 enabled
6	Temperature/Volume SI units
7	Temperature/Volume Imperial units
8	Continuously on – fault, heating operation is still possible Flashing – fault, no heating operation is possible
9	Continuously on – defrosting active
10	Continuously on – compressor operation Flashing – compressor blocking time active
11	Continuously on – electric heating element operation
12	Continuously on – frost protection active Flashing – power supply to PCB and anode only
13	4-digit backlit Liquid Crystal Display (LCD)

## List of settings and faults as seen on the service panel

Changes are made using the **plus** and **minus** keys and are effective immediately (no confirmation required). The **red** button key used for 'rapid heating' function is also used for unlocking the unit in case of critical faults.

**Please check with Stiebel Service department before making changes to confirm they are suitable for the situation.**

Parameter (default values)	Description	Comments
1 --- L	Mixed hot water volume	Available hot water at 40°C (cold mix at 15°C). Shows '---' if parameter 2 <40°C.
2 -- °C	Actual water temp. value	Dome temperature sensor reading, right at the top.
3 61 °C	Setpoint 1 temperature	Set to 60°C if high pressure event detected, in consultation with Stiebel Service.
4 65 °C	Setpoint 2 temperature	Set to 60°C if high pressure event detected.
5 F 40	Fan speed	Irrelevant value as fixed single speed fan.
6 R --	Ambient air temperature	Will only measure temperature when unit is operating.
7 tHE0	Automatic element operation & control	0 – Default. Element works if dome temperature drops below 48°C. 1 – In addition to the default mode, element also works after tEXX hours (below) if setpoint is not reached.
8 tE 10		This is the element waiting time in hours if tHE 1, as described above.
9 SI 1	Units (°C/L; °F/gal)	International System (SI) or Imperial units. Do not change.
<b>Any faults will appear from here onward</b>		
10 LOG4 (or) LOS6	Loading level % Hot water volume left <i>before</i> reheating starts	64 – default for 300 L unit. This corresponds to a dead band of 16.5°. 56 – default for 220 L unit. This corresponds to a dead band of 20°. Never decrease. Increase to start recovery faster. Check with Stiebel Service.
11 10-X (or) 10 X	Integral sensor offset in °C, in reference to dome sensor	Positive or negative. Different for every unit. Needs to be checked before a PCB swap and re-set with new PCB. Check with Stiebel Service if unable to retrieve.
12 300 L (or) 200 L	Tank size	Factory set as per tank size. This is used in the calculation of parameter 1 – Mixed hot water volume.
13 E -- °C	Evaporator temperature	Evaporator temperature sensor reading.
14 HG00	Hot gas limit counter	Number of times the gas temperature exceeds value of parameter 18 .
15 dF00	Defrost event counter	Number of defrosting events.
16 LP00	Low pressure counter	Number of low pressure events. Recorded as a fault.
17 HP00	High pressure counter	Number of high pressure events. Recorded as a fault.
If LCD shows <b>Hd 1</b> or <b>Ld 1</b> (multiple HP or LP faults), compressor is locked. Unlock by pressing the red button key.		
18 h 108	Hot gas temperature limit	Old default was 105, in which case increase this to 108 at first visit.
19 u 30	Compressor delay in secs	After fan starts, compressor time delay before it switches on.
20 tE 0	Integral temp. sensor mode	If sensor fails, set to 1 and use replacement legacy sensor.
21 Lt 0	Setpoints 1 & 2 range mode	0 – default. Allowed range is 10° - 65° ← Leave as default 1 – limited. Allowed range is 61° - 65°

### Fault/Error codes

Code	Description
2	Dome temperature sensor no contact/faulty.
4	Integral temperature sensor no contact/ faulty.
6	Dome + integral sensor no contact/faulty.
8	Heating fault. Virtually no temperature rise in 13 h. Compressor switched off. Power-cycle to reset, then check: <b>a)</b> PTRV for leaks, <b>b)</b> hot water being recirculated, <b>c)</b> ambient and evaporator temps while machine running. Must report to Stiebel Service department while on site.
16	Short-circuit impressed current anode.
32	Tank not full or anode circuit issue. Check fully loaded tank. Check anode wire connection and circuit. If anode wire connected, check charging module. Call Stiebel Service.
64	Defrost error. Check evaporator temperature sensor.
128	No communication between controller and panel. Check PCB, the controller panel and the wiring.
256	Emergency heating mode with element heating only (for element models).
512	Fault in refrigeration circuit. Suspected leak or hot gas issue. Investigate and contact Stiebel Service.
E 1	Air inlet temperature sensor no contact/faulty.
E2	Evaporator temperature sensor no contact/faulty.
E4	Hot gas temperature sensor no contact/faulty.
E8	Electric element temperature sensor no contact/faulty.
E 16	High pressure event. Compressor temporarily locked until pressure normalises.
E32	Low pressure event.
E64	Evaporator temperature is lower than -20°C. Airflow too low. Check evaporator & fan motor.
E 128	HP lockout ( <b>Hd 1</b> ). Note HP count, reset via red button. Ensure Setpoint 1 is 61°C or less. Call Stiebel Service.