

## LIST OF ERRORS

**NOTE:**

the error message displayed, in addition to the indication “Call technical service”, includes an alphanumeric code composed of the letter “E” (error) and the error number.

“ERROR”: Warning regarding a critical problem that shuts down some dental unit functions.

| E... | CAUSE<br>CONDITION                                      | CHECKS  |
|------|---|---|
| 1    | The hydrogroup does not send the status via BUS         | Basic hydrogroup board does not communicate via CAN BUS:<br>- check the basic hydrogroup board input voltage<br>- check the status of the basic hydrogroup board LEDs                         |
| 2    | The assistant's module does not send the status via BUS | Assistant's module board does not communicate via LIN:<br>- check the assistant's module board input voltage<br>- check the status of the assistant's module board LEDs                       |
| 3    | the instrument's table does not send the status via BUS | Basic instrument's table board does not communicate via CAN BUS:<br>- check the basic instrument's table board input voltage<br>- check the status of the basic instrument's table board LEDs |
| 4    | the 5 axes board does not send the status via BUS       | 5 axes board does not communicate via CAN BUS:<br>- check the 5 axes board input voltage<br>- check the status of the 5 axes board LEDs   |
| 6    | The foot control does not send the status via BUS       | Foot control board does not communicate via LIN:<br>- check the foot control board input voltage<br>- check the status of the foot control board LEDs   |
| 7    | The Hygiene board does not send the status via BUS      | Hygiene board does not communicate via CAN BUS:<br>- check the hygiene board input voltage<br>- check the status of the LEDs on the hygiene board   |
| 8    | Autocheck failed upon dental unit start-up              | Error during autocheck:<br>- check the connections between the basic hydrogroup board and doctor's console board  |
| 9    | Autocheck failed upon dental unit start-up              | 5 axes board does not communicate via CAN BUS:<br>- check the 5 axes board input voltage<br>- check the status of the 5 axes board LEDs   |
| 10   | Autocheck failed upon dental unit start-up              | Error during autocheck:<br>- check the connections between the dental chair/connections box board and basic hydrogroup board  |
| 12   | Autocheck failed upon dental unit start-up              | Error during autocheck:<br>- check the connections between the instrument's table board and doctor's console board  |
| 13   | Autocheck failed upon dental unit start-up              | Error during autocheck:<br>- check the connections between the dental chair/connections board and hygiene board   |
| 14   | Autocheck failed upon dental unit start-up              | Error during autocheck:<br>- check the CAN BUS connections between the dental chair/connections box board and foot control board  |
| 15   | Autocheck failed upon dental unit start-up              | Error during autocheck:<br>- check the connections between the dental chair/connections box board and assistant's module board  |



## ALARMS / ERRORS / WARNINGS / TROUBLESHOOTING

| E... | CAUSE<br>CONDITION  | CHECKS   |
|------|---|--|
| 20   | The lamp does not send the status via BUS                     | The lamp control board does not communicate:<br>- check the lamp control board input voltage<br>- check the status of the lamp control board LEDs                            |
| 21   | Autocheck failed upon dental unit start-up                    | Error during autocheck:<br>- check the lamp connections<br>- if OK, replace the lamp control board   |
| 22   | The console does not send the status via BUS                  | Basic hydrogroup board does not communicate via CAN BUS:<br>- check the connections between the instrument's table board and doctor's console board                          |
| 23   | The sliding board does not send the status via BUS            | Sliding board does not communicate via CAN BUS:<br>- check the board input voltage<br>- check the status of the LEDs on the board  |
| 24   | Autocheck failed upon dental unit start-up                    | Error during autocheck:<br>- check the connections between the dental chair/connections box board and sliding board  |
| 25   | Autocheck failed upon dental unit start-up                    | Error during autocheck:<br>- check the connections between the instrument's table board and Side Delivery board  |
| 26   | Side Delivery does not send the status via BUS                | The Side Delivery control board does not communicate:<br>- check the Side Delivery control board input voltage<br>- check the status of the Side Delivery control board LEDs |
| 27   | Autocheck failed upon dental unit start-up                    | Error during autocheck:<br>- check the connections between the instrument's table board and Ortho board  |
| 28   | Slider does not send the status via BUS                       | Sliding board does not communicate via CAN BUS:<br>- check the board input voltage<br>- check the status of the LEDs on the board  |
| 29   | Error during automatic voltage change (relay K2 fault)        | - replace dental chair board   |
| 30   | Max permitted timer number exceeded                           | - update FW  |
| 31   | Transformer problem   | - check transformer wiring   |
| 32   | Transformer problem   | - check transformer wiring   |
| 50   | W.H.E. error on both tanks                                    | The hygiene cycle cannot start:<br>- check water flow to the dental unit<br>- check water flow to the W.H.E. system<br>- check the W.H.E. tank probes                        |
| 52   | No pressure in the circuit                                    | No water/air pressure:<br>- check water/air pressure<br>- if OK, replace the pressure switch<br>- check the hygiene board<br>- check main solenoid valve                     |
| 55   | Inconsistency of probe level in tank S1<br>Max = on Min = off | Inconsistency of probes in W.H.E. tank 1:<br>- check the status of the hygiene board<br>- check the probes<br>- check the status of the LEDs on the hygiene board            |



| E... | CAUSE<br>CONDITION   | CHECKS   |
|------|--|--|
| 57   | Inconsistency of probe level in tank S2<br>Max = on Min = off  | Inconsistency of probes in tank 2 of W.H.E. system<br>- check the status of the hygiene board<br>- check the probes<br>- check the status of the LEDs on the hygiene board |
| 60   | During normal operation of the dental unit, FULL probe reading reached   | Try to perform W.H.E. system emptying procedure<br>Check for any water leaks in the W.H.E. system  |
| 64   | W.H.E. system emptying not correctly completed   | W.H.E. system emptying not correctly completed:<br>- check W.H.E. system solenoid valves<br>- check the water to cup solenoid valve  |
| 67   | Tank 1 maximum probe fault   | Tank 1 eliminated because STOP probe is on:<br>- check water flow to the W.H.E.system<br>- check the W.H.E. tank probes  |
| 68   | Tank 2 maximum probe fault   | Tank 2 eliminated because STOP probe is on:<br>- check water flow to the W.H.E.system<br>- check the W.H.E. tank probes  |
| 70   | H <sub>2</sub> O <sub>2</sub> solenoid valve fault   | - check the hygiene board<br>- check the solenoid valve<br>- check the wiring to the solenoid valve  |
| 71   | Pump solenoid valve fault  | - check the hygiene board<br>- check the solenoid valve<br>- check the wiring to the solenoid valve  |
| 72   | Supply solenoid valve fault  | - check the hygiene board<br>- check the solenoid valve<br>- check the wiring to the solenoid valve  |
| 73   | S1 tank air solenoid valve fault   | - check the hygiene board<br>- check the solenoid valve<br>- check the wiring to the solenoid valve  |
| 74   | S2 tank air solenoid valve fault   | - check the hygiene board<br>- check the solenoid valve<br>- check the wiring to the solenoid valve  |
| 75   | H <sub>2</sub> O solenoid valve fault  | - check the hygiene board<br>- check the solenoid valve<br>- check the wiring to the solenoid valve  |
| 76   | Emptying solenoid valve fault  | - check the hygiene board<br>- check the solenoid valve<br>- check the wiring to the solenoid valve  |
| 77   | H <sub>2</sub> O <sub>2</sub> does not reach the tank during H <sub>2</sub> O <sub>2</sub> supply of W.H.E. system | - check the hygiene board<br>- check the level probe<br>- check the flowmeter<br>- check H <sub>2</sub> O <sub>2</sub> flow  |
| 78   | Hygiene board error  | - replace the hygiene board  |
| 79   | Hygiene cycle request without preparing it   | - try disinfection cycle again   |
| 80   | 24Vdc voltage below the limit  | - check the hygiene board<br>- check input voltage<br>- check the connection   |



| <b>E...</b> | <b>CAUSE<br/>CONDITION</b>                             | <b>CHECKS</b>   |
|-------------|--|---|
| <b>81</b>   | 24Vdc voltage above the limit                          | <ul style="list-style-type: none"> <li>- check the hygiene board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>  |
| <b>82</b>   | 12Vdc voltage below the limit                          | <ul style="list-style-type: none"> <li>- check the hygiene board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>  |
| <b>83</b>   | 12Vdc voltage above the limit                          | <ul style="list-style-type: none"> <li>- check the hygiene board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>  |
| <b>84</b>   | 5Vdc voltage below the limit                           | <ul style="list-style-type: none"> <li>- check the hygiene board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>  |
| <b>85</b>   | 5Vdc voltage above the limit                           | <ul style="list-style-type: none"> <li>- check the hygiene board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>  |
| <b>86</b>   | Board internal reference voltage value below the limit | <ul style="list-style-type: none"> <li>- replace the hygiene board</li> </ul>   |
| <b>87</b>   | Board internal reference voltage value above the limit | <ul style="list-style-type: none"> <li>- check the temperature</li> <li>- replace the hygiene board</li> </ul>  |
| <b>88</b>   | CPU temperature sensor fault                           | <ul style="list-style-type: none"> <li>- replace the hygiene board</li> </ul>   |
| <b>89</b>   | CPU temperature above the limit                        | <ul style="list-style-type: none"> <li>- replace the hygiene board</li> </ul>   |
| <b>103</b>  | Handpiece LED short circuit                            | <ul style="list-style-type: none"> <li>- check the basic instrument's table board</li> <li>- check the handpiece LED</li> <li>- check the tubing</li> </ul>   |
| <b>104</b>  | HW problem on EMS/Satelec scaler control voltage       | <ul style="list-style-type: none"> <li>- check the basic instrument's table board</li> <li>- check EMS/Satelec module</li> <li>- check the connection</li> </ul>  |
| <b>105</b>  | HW problem on Side Delivery movement - Check TBD       | <ul style="list-style-type: none"> <li>- check the board used for movement</li> <li>- check the Side Delivery drive motor</li> </ul>  |
| <b>107</b>  | No hardware key or hygiene signal                      | <ul style="list-style-type: none"> <li>- check the insertion of hardware key</li> <li>- restart</li> <li>- check that Flushing cycle is active in the device configuration</li> <li>- try again to start the Flushing cycle</li> </ul>  |
| <b>111</b>  | Peristaltic pump not working                           | <ul style="list-style-type: none"> <li>- check the peristaltic pump</li> <li>- check the peristaltic pump connections</li> </ul>  |
| <b>112</b>  | The instrument is not configured within a set timeout  | <p>In case of the camera instrument:</p> <ul style="list-style-type: none"> <li>- check C-U2 camera and multimedia connections</li> </ul> <p>in case of another instrument:</p> <p>probable software problem</p> <ul style="list-style-type: none"> <li>- check updates</li> </ul> <p>if the problem persists:</p> <ul style="list-style-type: none"> <li>- possible fault of the basic instrument's table board</li> </ul> |
| <b>114</b>  | Board internal reference voltage value below the limit | <ul style="list-style-type: none"> <li>- replace the basic instrument's table board</li> </ul>  |
| <b>115</b>  | Board internal reference voltage value above the limit | <ul style="list-style-type: none"> <li>- replace the basic instrument's table board</li> </ul>  |

| E... | CAUSE<br>CONDITION                     | CHECKS   |
|------|--|--|
| 116  | 3.3V voltage below the limit           | - check the output connections<br>if the problem persists:<br>- replace the basic instrument's table board |
| 117  | 3.3V internal voltage above the limit  | - check the output connections<br>if the problem persists:<br>- replace the basic instrument's table board |
| 118  | CPU temperature sensor fault           | - replace the basic instrument's table board   |
| 119  | CPU temperature above the limit        | - check the output connections<br>if the problem persists:<br>- replace the basic instrument's table board |
| 120  | 24Vdc voltage below the limit          | - check the basic instrument's table board<br>- check input voltage<br>- check the connection              |
| 121  | 24Vdc voltage above the limit          | - check the basic instrument's table board<br>- check input voltage<br>- check the connection              |
| 122  | 12Vdc voltage below the limit          | - check the output connections<br>if the problem persists:<br>- replace the basic instrument's table board |
| 123  | 12Vdc voltage above the limit          | - check the output connections<br>if the problem persists:<br>- replace the basic instrument's table board |
| 124  | 5Vdc voltage below the limit           | - check the output connections<br>if the problem persists:<br>- replace the basic instrument's table board |
| 125  | 5Vdc voltage above the limit           | - check the output connections<br>if the problem persists:<br>- replace the basic instrument's table board |
| 126  | Instrument short circuit (e.g.: Motor) | - check the instrument<br>- check the tubing<br>- check the basic instrument's table board                 |
| 127  | Spray air solenoid valve problem       | - check the solenoid valve<br>- check the connection<br>- check the basic instrument's table board         |
| 128  | Spray water solenoid valve problem     | - check the solenoid valve<br>- check the connection<br>- check the basic instrument's table board         |
| 129  | Brake solenoid valve problem           | - check the solenoid valve<br>- check the connection<br>- check the basic instrument's table board         |
| 130  | Chip-air solenoid valve problem        | - check the solenoid valve<br>- check the connection<br>- check the basic instrument's table board         |
| 131  | Syringe Solenoid valve problem         | - check the solenoid valve<br>- check the connection<br>- check the basic instrument's table board         |



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| E... | CAUSE<br>CONDITION                            | CHECKS   |
|------|---|--|
| 132  | Cooling / proportional solenoid valve problem | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the connection</li> <li>- check the basic instrument's table board</li> </ul>                 |
| 133  | ADC acquisition error                         | <ul style="list-style-type: none"> <li>- replace instrument's table board</li> </ul>   |
| 134  | FSS error                                     | <ul style="list-style-type: none"> <li>- replace instrument's table board</li> </ul>   |
| 152  | TLED power supply fault                       | <ul style="list-style-type: none"> <li>- check the T-LED lamp connection</li> <li>- check the T-LED lamp</li> <li>- check the assistant's module board</li> </ul>                |
| 153  | TLED power supply fault                       | <ul style="list-style-type: none"> <li>- check the T-LED lamp connection</li> <li>- check the T-LED lamp</li> <li>- check the assistant's module board</li> </ul>                |
| 154  | 24Vdc voltage below the limit                 | <ul style="list-style-type: none"> <li>- check the assistant's module board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                            |
| 155  | 24Vdc voltage above the limit                 | <ul style="list-style-type: none"> <li>- check the assistant's module board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                            |
| 156  | 12Vdc voltage below the limit                 | <ul style="list-style-type: none"> <li>- check the assistant's module board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                            |
| 157  | 12Vdc voltage above the limit                 | <ul style="list-style-type: none"> <li>- check the assistant's module board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                            |
| 201  | Cattani pump problem                          | <ul style="list-style-type: none"> <li>- replace Cattani pump</li> </ul>   |
| 202  | Basin drive HW problem                        | <ul style="list-style-type: none"> <li>- check gearmotor potentiometer</li> <li>- check the basic hydrogroup board</li> <li>- check the relevant electric connections</li> </ul> |
| 203  | Problem with Cattani probes                   | <ul style="list-style-type: none"> <li>- check the connection to the probes</li> </ul>   |
| 208  | Water to cup heater disconnected              | <ul style="list-style-type: none"> <li>- check the heater circuit</li> <li>- check the connection to the basic hydrogroup board</li> </ul>                                       |
| 209  | Cup sensor disconnected                       | <ul style="list-style-type: none"> <li>- check the cup sensor circuit</li> </ul>   |
| 210  | Basin motor disconnected                      | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul>       |
| 211  | Solenoid valve fault<br>centralized suction   | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul>       |
| 212  | Syringe solenoid valve fault                  | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul>       |
| 213  | Basin solenoid valve fault                    | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul>       |



| E... | CAUSE<br>CONDITION  | CHECKS   |
|------|---|--|
| 214  | Cup solenoid valve fault                                  | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul> |
| 215  | Solenoid valve fault<br>suction tube washing              | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul> |
| 216  | Solenoid valve fault<br>suction disinfection              | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul> |
| 217  | Hydraulic suction solenoid valve fault                    | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul> |
| 218  | Bottle solenoid valve fault                               | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul> |
| 219  | Suction tube 1 selector solenoid<br>valve fault           | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul> |
| 220  | Suction tube 2 selector solenoid<br>valve fault           | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul> |
| 221  | Anti-stagnation solenoid valve fault                      | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the wiring to the solenoid valve</li> <li>- check the basic hydrogroup board</li> </ul> |
| 222  | Board internal reference voltage<br>value below the limit | <ul style="list-style-type: none"> <li>- replace the basic hydrogroup board</li> </ul>   |
| 223  | Board internal reference voltage<br>value above the limit | <ul style="list-style-type: none"> <li>- replace the basic hydrogroup board</li> </ul>   |
| 224  | 3.3V voltage below the limit                              | <ul style="list-style-type: none"> <li>- check the output connections</li> <li>- replace the hydrogroup board</li> </ul>   |
| 225  | 3.3V internal voltage above the limit                     | <ul style="list-style-type: none"> <li>- check the output connections</li> <li>- replace the hydrogroup board</li> </ul>   |
| 226  | CPU temperature sensor fault                              | <ul style="list-style-type: none"> <li>- replace the hydrogroup board</li> </ul>   |
| 227  | CPU temperature above the limit                           | <ul style="list-style-type: none"> <li>- check the temperature</li> <li>- replace the hydrogroup board</li> </ul>  |
| 228  | 24Vdc voltage below the limit                             | <ul style="list-style-type: none"> <li>- check the hydrogroup board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                              |
| 229  | 24Vdc voltage above the limit                             | <ul style="list-style-type: none"> <li>- check the hydrogroup board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                              |
| 230  | 12Vdc voltage below the limit                             | <ul style="list-style-type: none"> <li>- check the hydrogroup board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                              |
| 231  | 12Vdc voltage above the limit                             | <ul style="list-style-type: none"> <li>- check the hydrogroup board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                              |





| E... | CAUSE<br>CONDITION   | CHECKS  |
|------|--|---|
| 232  | 5Vdc voltage below the limit                               | <ul style="list-style-type: none"> <li>- check the hydrogroup board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                             |
| 233  | 5Vdc voltage above the limit                               | <ul style="list-style-type: none"> <li>- check the hydrogroup board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                             |
| 251  | Communication error between console back-end and front-end | Switch off and switch on the device   |
| 300  | Sliding motor over-absorption condition detected           | <ul style="list-style-type: none"> <li>- check the sliding mechanically</li> <li>- check the motor</li> <li>- check wirings</li> <li>- check the sliding board</li> </ul> |
| 301  | Incorrect sliding potentiometer value                      | <ul style="list-style-type: none"> <li>- check the potentiometer</li> <li>- repeat dental chair calibration</li> <li>- check the sliding board</li> </ul>                 |
| 302  | Potentiometer value too low                                | <ul style="list-style-type: none"> <li>- check the potentiometer</li> <li>- repeat dental chair calibration</li> <li>- check the sliding board</li> </ul>                 |
| 303  | Potentiometer value too high                               | <ul style="list-style-type: none"> <li>- check the potentiometer</li> <li>- repeat dental chair calibration</li> <li>- check the sliding board</li> </ul>                 |
| 304  | Board internal reference voltage value below the limit     | - replace the hydrogroup board  |
| 305  | Board internal reference voltage value above the limit     | - replace the hydrogroup board  |
| 306  | 3.3V voltage below the limit                               | <ul style="list-style-type: none"> <li>- check the output connections</li> <li>- replace the hydrogroup board</li> </ul>  |
| 307  | 3.3V internal voltage above the limit                      | <ul style="list-style-type: none"> <li>- check the output connections</li> <li>- replace the hydrogroup board</li> </ul>  |
| 308  | CPU temperature sensor fault                               | - replace the hydrogroup board  |
| 309  | CPU temperature above the limit                            | <ul style="list-style-type: none"> <li>- check the temperature</li> <li>- replace the hydrogroup board</li> </ul>   |
| 310  | 24Vdc voltage below the limit                              | <ul style="list-style-type: none"> <li>- check the hydrogroup board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                             |
| 311  | 24Vdc voltage above the limit                              | <ul style="list-style-type: none"> <li>- check the hydrogroup board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                             |
| 312  | 12Vdc voltage below the limit                              | <ul style="list-style-type: none"> <li>- check the hydrogroup board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                             |
| 313  | 12Vdc voltage above the limit                              | <ul style="list-style-type: none"> <li>- check the hydrogroup board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                             |
| 314  | 5Vdc voltage below the limit                               | <ul style="list-style-type: none"> <li>- check the hydrogroup board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>                             |





| E... | CAUSE<br>CONDITION  | CHECKS   |
|------|---|--|
| 315  | 5Vdc voltage above the limit  | <ul style="list-style-type: none"> <li>- check input voltage</li> <li>- check the connection</li> <li>- check the hydrogroup board</li> </ul>  |
| 316  | Board temperature or current over the limit allowed   | <ul style="list-style-type: none"> <li>- check absorption and temperature of the slider's driver</li> </ul>  |
| 358  | Wireless connection not working and missing cable   | <ul style="list-style-type: none"> <li>- check the host board</li> <li>- check the foot control board</li> </ul>   |
| 364  | Foot control battery fault detected   | <ul style="list-style-type: none"> <li>- check battery</li> <li>- check foot control</li> <li>- check operation via cable</li> </ul>   |
| 365  | 12Vdc voltage below the limit   | <ul style="list-style-type: none"> <li>- check the foot control connection cable</li> </ul>  |
| 368  | One or more sensors return to a value out of permitted limits   | <ul style="list-style-type: none"> <li>- check the presence and correct positioning of sensor magnets</li> </ul>   |
| 403  | Dental chair diagnostics: dental chair board HW problem   | <ul style="list-style-type: none"> <li>- replace the battery</li> </ul>  |
| 408  | Dental chair diagnostics: dental chair board HW problem   | <ul style="list-style-type: none"> <li>- check any safety buttons pressed upon start-up</li> <li>- replace the dental chair board</li> </ul>   |
| 410  | Dental chair board FW error   | <ul style="list-style-type: none"> <li>- report the problem to the technical service</li> </ul>  |
| 429  | Inconsistency between seat movement and seat potentiometer  | <ul style="list-style-type: none"> <li>- check the potentiometer</li> <li>- repeat the calibration</li> <li>- check the dental chair board</li> </ul>  |
| 430  | Inconsistency between backrest movement and leg rest encoder  |  |
| 431  | Inconsistency between backrest movement and backrest encoder  | <ul style="list-style-type: none"> <li>- check the potentiometer</li> <li>- repeat the calibration</li> <li>- check the dental chair board</li> </ul>  |
| 432  | Inconsistency between foot rest movement and foot rest encoder  | <ul style="list-style-type: none"> <li>- check foot rest encoder connection wiring</li> <li>- repeat calibration</li> <li>- check encoder board</li> <li>- check dental chair board</li> </ul>                                     |
| 437  | Reading error in dental chair flash memory  | <ul style="list-style-type: none"> <li>- replace the dental chair board</li> </ul>   |
| 438  | Reading error in dental chair flash memory  | <ul style="list-style-type: none"> <li>- replace the dental chair board</li> </ul>   |
| 440  | Potentiometer read value higher than the maximum allowed limit. Automatic programs and manual movements of the seat are inhibited | <ul style="list-style-type: none"> <li>- Check potentiometer/connections seat depending on model</li> </ul>  |
| 442  | Position value out of permitted limit   | <ul style="list-style-type: none"> <li>- check sliding potentiometer</li> <li>- check connections</li> <li>- check sliding board</li> </ul>  |
| 443  | Autocheck failed upon dental unit start-up  | <p>Error during autocheck:</p> <ul style="list-style-type: none"> <li>- check the connections between the dental chair board and inverter board</li> <li>- replace inverter board</li> <li>- replace dental chair board</li> </ul> |



| E... | CAUSE<br>CONDITION  | CHECKS  |
|------|---|---|
| 444  | Autocheck failed upon dental unit start-up  | - replace the dental chair board  |
| 445  |   | - replace the dental chair board  |
| 446  | Main solenoid valve fault   | - check the solenoid valve<br>- check the connections to the solenoid valve<br>- check the dental chair board |
| 447  | Board internal reference voltage value below the limit  | - replace the dental chair board  |
| 448  | Board internal reference voltage value above the limit  | - replace the dental chair board  |
| 449  | 3.3V voltage below the limit  | - check output connections<br>- replace the dental chair board  |
| 450  | 3.3V internal voltage above the limit   | - check output connections<br>- replace the dental chair board  |
| 451  | CPU temperature sensor fault  | - replace the dental chair board  |
| 452  | CPU temperature above the limit   | - check the temperature<br>- replace the dental chair board   |
| 453  | 24Vdc voltage below the limit   | - check the dental chair board<br>- check input voltage<br>- check the connection                             |
| 454  | 24Vdc voltage above the limit   | - check the dental chair board<br>- check input voltage<br>- check the connection                             |
| 455  | 12Vdc voltage below the limit   | - check the dental chair board<br>- check input voltage<br>- check the connection                             |
| 456  | 12Vdc voltage above the limit   | - check the dental chair board<br>- check input voltage<br>- check the connection                             |
| 457  | 5Vdc voltage below the limit  | - check the dental chair board<br>- check input voltage<br>- check the connection                             |
| 458  | 5Vdc voltage above the limit  | - check the dental chair board<br>- check input voltage<br>- check the connection                             |
| 460  | Reading error when turning on the position saved for BACKREST, Side Delivery, LEG REST, FOOT REST         | - update FW   |
| 461  | Error when writing the last position of the dental chair for BACKREST, Side Delivery, LEG REST, FOOT REST | - update FW   |
| 462  | Earth system or motor short circuit   | - check the integrity of motor cables (connections and insulation)<br>- check that the motor is not blocked   |
| 463  | Module HW error   | - check the integrity of motor cables (connections and insulation)<br>- check that the motor is not blocked   |



| E... | CAUSE<br>CONDITION   | CHECKS  |
|------|--|---|
| 464  | Maximum current exceeded   | <ul style="list-style-type: none"> <li>- check the integrity of motor cables (connections and insulation)</li> <li>- check that the motor is not blocked</li> </ul>   |
| 465  | Current reading procedure error  | <ul style="list-style-type: none"> <li>- check the integrity of motor cables (connections and insulation)</li> </ul>  |
| 467  | BUS voltage too high   | <ul style="list-style-type: none"> <li>- check the line voltage</li> </ul>  |
| 468  | BUS voltage too low  | <ul style="list-style-type: none"> <li>- check the line voltage</li> </ul>  |
| 471  | Maximum overload time exceeded   | <ul style="list-style-type: none"> <li>- check that the motor is not blocked</li> <li>- check that the motor load is not excessive</li> </ul>   |
| 472  | Driver external enabling signal missing  | <ul style="list-style-type: none"> <li>- check the connections between the inverter board and dental chair board</li> </ul>   |
| 473  |  | <ul style="list-style-type: none"> <li>- check the connections between the inverter board and dental chair board</li> </ul>   |
| 475  |  | <ul style="list-style-type: none"> <li>- mechanical check of the sliding</li> <li>- check the motor</li> <li>- check wiring</li> <li>- check sliding board</li> </ul>   |
| 476  | During slider movement, the relevant potentiometer does not change or changes too slowly | <ul style="list-style-type: none"> <li>- check sliding potentiometer</li> </ul>   |
| 477  | Error during access / reading of log file  |   |
| 478  | Bypass solenoid valve fault  | <ul style="list-style-type: none"> <li>- check the wiring to the solenoid valve</li> <li>- check the solenoid valve</li> <li>- check the dental chair board</li> </ul>  |
| 479  | Brake solenoid valve fault   | <ul style="list-style-type: none"> <li>- check the wiring to the solenoid valve</li> <li>- check the solenoid valve</li> <li>- check the dental chair board</li> </ul>  |
| 480  | Seat motor stroke beyond the maximum permitted limit                                     | <ul style="list-style-type: none"> <li>- check machine configuration</li> <li>- check the potentiometer</li> </ul>  |
| 481  | Seat motor stroke below the minimum permitted limit                                      | <ul style="list-style-type: none"> <li>- check that mechanical stops are actually reached</li> <li>- check machine configuration</li> <li>- check wiring</li> <li>- check the potentiometer</li> <li>- in case of three-phase motor, check the board and wirings between dental chair and inverter</li> </ul> |
| 482  | Backrest motor stroke beyond the maximum permitted limit                                 | <ul style="list-style-type: none"> <li>- check machine configuration</li> <li>- in case of single-phase motor, check the potentiometer</li> <li>- check the motor</li> </ul>  |
| 483  | Backrest motor stroke below the minimum permitted limit                                  | <ul style="list-style-type: none"> <li>- check that mechanical stops are actually reached</li> <li>- check machine configuration</li> <li>- in case of single-phase motor, check the potentiometer</li> <li>- check wiring</li> <li>- check the motor</li> </ul>  |
| 484  | Activation of basin interference cam beyond the maximum permitted limit                  | <ul style="list-style-type: none"> <li>- check machine configuration</li> <li>- check the potentiometer</li> <li>- check sensor and basin interference cam metal sheet</li> </ul>   |



## ALARMS / ERRORS / WARNINGS / TROUBLESHOOTING

| E... | CAUSE<br>CONDITION   | CHECKS   |
|------|--|--|
| 485  | Activation of basin interference cam below the minimum permitted limit                         | <ul style="list-style-type: none"> <li>- check machine configuration</li> <li>- check the activation of the sensors/switches controlling the cam</li> <li>- check the potentiometer</li> </ul>   |
| 486  | Leg rest motor stroke beyond the maximum permitted limit                                       | <ul style="list-style-type: none"> <li>- check machine configuration</li> <li>- check the motor</li> </ul>   |
| 487  | Leg rest motor stroke below the minimum permitted limit  | <ul style="list-style-type: none"> <li>- check that mechanical stops are actually reached</li> <li>- check machine configuration</li> <li>- check wiring</li> <li>- check the motor</li> </ul>   |
| 488  | Foot rest motor stroke beyond the maximum permitted limit                                      | <ul style="list-style-type: none"> <li>- check machine configuration</li> <li>- check the motor</li> </ul>   |
| 489  | Foot rest motor stroke below the minimum permitted limit                                       | <ul style="list-style-type: none"> <li>- check that mechanical stops are actually reached</li> <li>- check machine configuration</li> <li>- check wiring</li> </ul>  |
| 490  | Rotation motor stroke beyond the maximum permitted limit                                       | <ul style="list-style-type: none"> <li>- check machine configuration</li> <li>- check the potentiometer</li> </ul>   |
| 491  | Rotation motor stroke below the minimum permitted limit  | <ul style="list-style-type: none"> <li>- check that mechanical stops are actually reached</li> <li>- check machine configuration</li> <li>- check wiring</li> <li>- check the potentiometer</li> </ul>   |
| 492  | Slider calibration not correctly performed   | <ul style="list-style-type: none"> <li>- check machine configuration</li> <li>- check wirings for communication with slider board</li> <li>- check that mechanical stops are actually reached</li> <li>- check the potentiometer</li> <li>- check the motor if the movement occurs but slowly</li> </ul>                 |
| 493  | Failure to reach the upper limit switch of the Side Delivery motor                             | <ul style="list-style-type: none"> <li>- check machine configuration</li> <li>- check wirings for communication with instrument's table</li> <li>- check Side Delivery unit movement</li> <li>- check the status of the switches inside the unit</li> <li>- check the motor if the movement occurs but slowly</li> </ul> |
| 494  | Inconsistency between rotation movement and seat potentiometer                                 | <ul style="list-style-type: none"> <li>- check rotation potentiometer</li> <li>- check rotation solenoid valve</li> </ul>  |
| 495  | The number of errors/warnings to be managed upon start-up exceeds the maximum permitted number | <ul style="list-style-type: none"> <li>- update FW</li> </ul>  |
| 496  | Backrest overcurrent   | <ul style="list-style-type: none"> <li>- DO NOT USE THE DENTAL CHAIR</li> <li>- follow reset instructions</li> </ul>   |
| 600  | 24Vdc voltage below the limit  | <ul style="list-style-type: none"> <li>- check the lamp board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>  |
| 601  | 24Vdc voltage above the limit  | <ul style="list-style-type: none"> <li>- replace lamp board</li> </ul>   |
| 602  | 12Vdc voltage below the limit  | <ul style="list-style-type: none"> <li>- check the lamp board</li> <li>- check input voltage</li> <li>- check the connection</li> </ul>  |
| 603  | 12Vdc voltage above the limit  | <ul style="list-style-type: none"> <li>- replace lamp board</li> </ul>   |



| E... | CAUSE<br>CONDITION                                    | CHECKS   |
|------|---|--|
| 604  | Temperature sensor reading error                      | <ul style="list-style-type: none"> <li>- replace optical group</li> <li>- replace lamp board</li> </ul>  |
| 605  | Cold LED current reading error                        | <ul style="list-style-type: none"> <li>- replace optical group</li> <li>- replace lamp board</li> </ul>  |
| 606  | Warm LED current reading error                        | <ul style="list-style-type: none"> <li>- replace optical group</li> <li>- replace lamp board</li> </ul>  |
| 607  | Temperature sensor reading error                      | <ul style="list-style-type: none"> <li>- replace optical group</li> <li>- replace lamp board</li> </ul>  |
| 608  | Potentiometer reading error                           | <ul style="list-style-type: none"> <li>- replace potentiometer</li> <li>- check wiring</li> <li>- replace lamp board</li> </ul>  |
| 703  | Handpiece LED short circuit                           | <ul style="list-style-type: none"> <li>- check handpiece LED</li> <li>- check the tubing</li> <li>- check the basic table board</li> </ul>   |
| 704  | HW problem on EMS/Satelec scaler control voltage      | <ul style="list-style-type: none"> <li>- check EMS/Satelec module</li> <li>- check the connection</li> <li>- check the basic table board</li> </ul>  |
| 707  | No hardware key or Hygiene signal                     | <ul style="list-style-type: none"> <li>- check the insertion of hardware key</li> <li>- restart</li> <li>- check that the Flushing is active in the machine configuration</li> <li>- restart Flushing cycle</li> </ul> |
| 712  | The instrument is not configured within a set timeout | In case of a Camera instrument, check CU2 camera and multimedia connections, in case of other instruments a software problem is likely (check updates) or there is a fault in the basic table board.                   |
| 714  | Internal vref Voltage below the limit                 | <ul style="list-style-type: none"> <li>- replace the basic table board</li> </ul>  |



| <b>E...</b> | <b>CAUSE<br/>CONDITION</b>             | <b>CHECKS</b>   |
|-------------|--|---|
| <b>715</b>  | Internal vref voltage above the limit  | - replace the basic table board   |
| <b>716</b>  | 3.3V voltage below the limit           | - check the output connections<br>- replace the basic table board                     |
| <b>717</b>  | 3.3V internal voltage above the limit  | - check the output connections<br>- replace the basic table board                     |
| <b>718</b>  | CPU temperature sensor fault           | - replace the basic table board   |
| <b>719</b>  | CPU temperature above the limit        | - check the temperature<br>- replace the basic table board                            |
| <b>720</b>  | 24Vdc voltage below the limit          | - check input voltage<br>- check the connection<br>- check the basic table board      |
| <b>721</b>  | 24Vdc voltage above the limit          | - check input voltage<br>- check the connection<br>- check the basic table board      |
| <b>722</b>  | 12Vdc voltage below the limit          | - check the output connections<br>- replace the basic table board                     |
| <b>723</b>  | 12Vdc voltage above the limit          | - check the output connections<br>- replace the basic table board                     |
| <b>724</b>  | 5Vdc voltage below the limit           | - check the output connections<br>- replace the basic table board                     |
| <b>725</b>  | 5Vdc voltage above the limit           | - check the output connections<br>- replace the basic table board                     |
| <b>726</b>  | Instrument short circuit (e.g.: motor) | - check the instrument<br>- check the tubing<br>- check the basic table board         |
| <b>727</b>  | Spray air solenoid valve problem       | - check the solenoid valve<br>- check the connection<br>- check the basic table board |
| <b>728</b>  | Spray water solenoid valve problem     | - check the solenoid valve<br>- check the connection<br>- check the basic table board |
| <b>729</b>  | Brake solenoid valve problem           | - check the solenoid valve<br>- check the connection<br>- check the basic table board |
| <b>730</b>  | Chip-air solenoid valve problem        | - check the solenoid valve<br>- check the connection<br>- check the basic table board |
| <b>731</b>  | Syringe solenoid valve problem         | - check the solenoid valve<br>- check the connection<br>- check the basic table board |

| E... | CAUSE<br>CONDITION                            | CHECKS  |
|------|---|---|
| 732  | Cooling / proportional solenoid valve problem | <ul style="list-style-type: none"> <li>- check the solenoid valve</li> <li>- check the connection</li> <li>- check the basic table board</li> </ul> |
| 733  | ADC acquisition error                         | <ul style="list-style-type: none"> <li>- replace the basic table board</li> </ul>   |
| 734  | FSS error                                     | <ul style="list-style-type: none"> <li>- replace the basic table board</li> </ul>   |

## LIST OF WARNINGS



### NOTE:

the warning message displayed is an alphanumeric code composed of the letter “W” (warning) and the warning number.

**“WARNING”:** Warning of a problem that is not important and does not block the device (e.g. the activation of the BIOSTER cycle when the instruments are not extracted).

| W... | MESSAGE   | CHECKS   |
|------|---|--|
| 1    | Command not possible, end the activities in progress. | <ul style="list-style-type: none"> <li>End the movements</li> <li>Put instruments back in place</li> </ul>   |
| 2    | Cart unrecognized                                     | <ul style="list-style-type: none"> <li>- check if the power supply box is the one related to the cart</li> <li>- check electric connection between cart and power supply box</li> <li>- check cables between chair board and doctor's table</li> </ul>   |
| 50   | Put the instruments back in place                     | All the instruments that can be disinfected have to be in rest position in order to start a disinfecting cycle   |
| 51   | No instrument extracted                               | Select instrument, cup or suction tubes, then activate the disinfecting cycle  |
| 57   | Extract all instruments                               | <p>Instruments extracted were changed during the disinfecting cycle:</p> <ul style="list-style-type: none"> <li>- after the disinfecting cycle has been shut-down it has to be restarted with the same instruments that were extracted for the previous cycle that was interrupted.</li> </ul> |
| 59   | Extract at least one instrument                       | <p>Disinfecting cycle started with cups or instruments not selected:</p> <ul style="list-style-type: none"> <li>- perform a disinfecting cycle with cups and/or instruments selected.</li> </ul>   |
| 60   | No H <sub>2</sub> O <sub>2</sub> fill the tank        | <ul style="list-style-type: none"> <li>- fill H<sub>2</sub>O<sub>2</sub> tank</li> <li>- check the hygiene board</li> <li>- check the level probe</li> <li>- check the flowmeter</li> </ul>  |
| 61   | Disinfection pause cancelled                          | None   |
| 62   | Disinfection completed with insufficient duration     | None   |





## ALARMS / ERRORS / WARNINGS / TROUBLESHOOTING

| W... | MESSAGE   | CHECKS   |
|------|---|--|
| 63   | No H <sub>2</sub> O fill the tank                     | <ul style="list-style-type: none"> <li>- fill H<sub>2</sub>O tank</li> <li>- deselect the bottle</li> <li>- check the level probe</li> <li>- check the hygiene board</li> </ul>                                      |
| 64   | No H <sub>2</sub> O <sub>2</sub> fill the tank        | <ul style="list-style-type: none"> <li>- fill H<sub>2</sub>O<sub>2</sub> tank</li> <li>- check the hygiene board</li> <li>- check the level probe</li> </ul>   |
| 65   | Open spray H <sub>2</sub> O cocks                     | <ul style="list-style-type: none"> <li>- check spray H<sub>2</sub>O cocks</li> <li>- check the volumetric sensor</li> </ul>  |
| 66   | Disable H <sub>2</sub> O bottle                       | Disable H <sub>2</sub> O bottle  |
| 67   | It is not possible to fill tank 1.<br>Open water cock | <ul style="list-style-type: none"> <li>- open water cock</li> <li>- if water cock is already open, a block or fault of the tank 1 maximum probe is likely</li> </ul>   |
| 68   | It is not possible to fill tank 1.<br>Open water cock | <ul style="list-style-type: none"> <li>- open water cock</li> <li>- if water cock is already open, a block or fault of the tank 2 maximum probe is likely</li> </ul>   |
| 100  | Extract instrument with disabled foot control         | <ul style="list-style-type: none"> <li>- release the foot control</li> <li>- activate the instrument</li> <li>- check the foot control</li> </ul>  |
| 101  | Put instruments back in place                         | - put the instruments back in place  |
| 102  | Instrument not connected                              | - check connections  |
| 103  | Extract instruments                                   | - repeat flushing cycle request with instruments extracted   |
| 104  | No H <sub>2</sub> O <sub>2</sub> fill the tank        | <ul style="list-style-type: none"> <li>- add distilled water into the relative tank</li> <li>- repeat flushing request</li> </ul>  |
| 105  | Cycle not correctly completed, repeat flushing        | - repeat flushing cycle  |
| 106  | Disable H <sub>2</sub> O bottle                       | - repeat flushing cycle request with mains water selected  |
| 107  | Enable H <sub>2</sub> O bottle                        | - repeat flushing cycle request with pressurized H <sub>2</sub> O bottle   |
| 150  | Put the suction tubes back in place                   | - put the suction tubes back in place  |
| 151  | Put instruments back in place                         | - put the instruments back in place  |
| 200  | Arm interference                                      | <ul style="list-style-type: none"> <li>- identify the cause for the microswitch pressure to the assistant's module arm</li> <li>- remove the safety condition to make the dental unit ready for use again</li> </ul> |
| 202  | Perform basin calibration                             | - perform the calibration of the basin limit switches  |
| 203  | Basin calibration OK                                  | None   |
| 204  | Basin calibration NOT OK                              | - repeat the calibration of the basin limit switches   |
| 206  | Disable H <sub>2</sub> O bottle                       | - deselect the bottle  |
| 207  | Fill the bottle                                       | - Fill the bottle or deselect the bottle   |
| 208  | Suction tube washing interrupted                      | - repeat suction tube washing  |



| W... | MESSAGE  | CHECKS   |
|------|--|--|
| 209  | Check that suction tubes are open and that the filter is clean | <ul style="list-style-type: none"> <li>- make sure the suction tube terminal is open</li> <li>- check vacuum meters</li> <li>- check Venturi tubes</li> <li>- check suction tube washing system ducts</li> <li>- check suction system</li> </ul> |
| 210  | Suction tube washing completed                                 | None   |
| 211  | Water source change not permitted                              |  |
| 253  | Carry out maintenance  | - the maintenance deadline has expired. Carry out maintenance  |
| 350  | Carry out foot control calibration                             | - carry out foot control calibration   |
| 351  | Foot control calibration OK                                    | None   |
| 352  | Connect foot control cable                                     | - connect foot control cable   |
| 353  | Unconnect foot control cable                                   | - unconnect foot control cable   |
| 355  | Enable foot control  | None   |
| 356  | Foot control calibration not OK                                | - repeat foot control calibration  |
| 357  | Update foot control board FW                                   | - update foot control board FW   |
| 358  | Connect the cable to the wireless foot control                 | - connect the cable to the wireless foot control   |
| 359  | Update host board FW   | - update host board FW   |
| 400  | Dental chair foot board interference                           | <ul style="list-style-type: none"> <li>- identify the cause for the microswitch pressure to the foot board</li> <li>- remove the safety condition to make the dental unit ready for use again</li> </ul>   |
| 401  | Dental chair backrest interference                             | <ul style="list-style-type: none"> <li>- identify the cause for the microswitch pressure to the backrest</li> <li>- remove the safety condition to make the dental unit ready for use again</li> </ul>   |
| 402  | Perform dental chair calibration                               | - perform dental chair calibration   |
| 403  | Active disinfecting cycle, dental chair locked                 | <ul style="list-style-type: none"> <li>- wait for the sanitising cycle to end</li> <li>- put the instruments back in place to make movements available again</li> </ul>  |
| 406  | Move basin   | <ul style="list-style-type: none"> <li>- manually position basin outside the interference area</li> <li>- remove the safety condition to make the dental unit ready for use again</li> </ul>   |
| 407  | Dental chair calibration not OK                                | - repeat the calibration   |
| 408  | Dental chair calibration OK                                    | None   |
| 409  | Dental chair seat interference                                 | <ul style="list-style-type: none"> <li>- identify the cause for the microswitch pressure to the seat cup</li> <li>- remove the safety condition to make the dental unit ready for use again</li> </ul>   |
| 410  | Side Delivery interference activated                           | <ul style="list-style-type: none"> <li>- identify the cause for the microswitch pressure to the side delivery</li> <li>- remove the safety condition to make the dental unit ready for use again</li> </ul>                                      |



## ALARMS / ERRORS / WARNINGS / TROUBLESHOOTING

| W... | MESSAGE  | CHECKS   |
|------|--|--|
| 411  | Dental chair lock put instrument back in place | - put the instrument in the rest position to make automatic movement programs available again  |
| 412  | Dental chair lock put instrument back in place | - to move the dental chair manually, disable the instrument<br>- to activate automatic movements, disable the instrument and put it back in place  |
| 413  | Dental chair lock activated                    | - use the suitable button to remove the dental chair lock  |
| 415  | Backrest cover interference                    | Until the safety system is enabled, only upward movements of backrest, seat and leg rest are permitted.<br>- identify the cause for the microswitch pressure<br>- remove the safety condition to make the dental unit ready for use again  |
| 416  | Foot rest interference                         | Until the safety system is enabled, only upward movements of backrest, seat and leg rest are permitted.<br>- identify the cause for the microswitch pressure<br>- remove the safety condition to make the dental unit ready for use again  |
| 417  | Leg rest interference                          | Until the safety system is enabled, only upward movements of backrest, seat and leg rest are permitted.<br>- identify the cause for the microswitch pressure to the leg rest<br>- remove the safety condition to make the dental unit ready for use again  |
| 418  | Rotation interference                          | Until the safety system is enabled, only upward movements of backrest, seat and leg rest are permitted.<br>- remove the obstacle that interferes with rotation   |
| 424  | Move dental chair down                         | - move dental chair down until it is out of the interference area<br>- request basin movement  |
| 425  | Default data restored                          | None   |
| 427  | Filesystem format                              | - filesystem format completed  |
| 428  | Basin stopped, obstacle detected               | - remove the object that obstructs basin movement  |
| 430  | Seat motor overheated                          | - wait for the motor to cool down<br>- if the error persists when the motor is cold, replace the inverter board<br>- if the error persists change the motor  |
| 431  | System error, restart                          | - restart  |
| 432  | Sliding movement re-activated                  | None   |
| 434  | Instruments table arm safety activated         | - Check the right wiring connection<br>- Check safety wiring continuity with arm holder closed<br>- If the error persists change the chair board   |
| 435  | Program stored in non-interference zone        | The attempt to programme a lower value (that can be reached manually) results in the storage of the maximum permitted value and the activation of Warning W435.<br>The programmes stored before the reduction activation, having a minimum dental chair height below the minimum value, are run in any case, but move the dental chair to the minimum permitted value. |
| 500  | Local disk space is running out                |  |



| W... | MESSAGE  | CHECKS  |
|------|--|---|
| 501  | There is insufficient space on local disk  |   |
| 502  | The local disk is missing or damaged   |   |
| 503  | The local disk format is invalid   |   |
| 504  | There are errors in your local disk: some functions will be disabled                               |   |
| 505  | There are errors in the USB memory: some functions will be disabled. Connect to a PC to fix errors |   |
| 700  | Extract instrument with disabled foot control  | <ul style="list-style-type: none"> <li>- Release the foot control</li> <li>- Activate the instrument</li> <li>- Check the foot control</li> </ul> |
| 701  | Put dentist's instruments back in place  | Put the instruments back in place   |
| 702  | Instrument not connected   | Check connections   |
| 703  | Extract instruments  | Repeat flushing cycle request with instruments extracted  |
| 704  | No H <sub>2</sub> O <sub>2</sub> fill the tank   | <ul style="list-style-type: none"> <li>- Add distilled water into the relative tank</li> <li>- Repeat flushing request</li> </ul>                 |
| 705  | Cycle not correctly completed, repeat flushing   | Repeat flushing cycle   |
| 706  | Disable H <sub>2</sub> O bottle  | Repeat flushing cycle request with mains water selected   |
| 707  | Enable H <sub>2</sub> O bottle   | Repeat flushing cycle request with pressurized H <sub>2</sub> O bottle  |