

Evolution Elite – Software Version Sonic 2.09 – Technical Quick Reference

Filter Menu (press and hold either button to enter menu)

1. Express Filter
2. Daily Filter
3. Dispose
4. Drain to Pan
5. Fill From Pan
6. Fill From JIB
7. Clean -Out
8. Exit

Info Mode (press and release both buttons at same time to enter mode).

1. E-Log
2. Last Load
3. Daily Stats
4. Oil Stats (check filter history)
5. Review Usage
6. Inputs
7. Outputs
8. Oil Temperature (for both vats)
9. CPU Temperature
10. Comm (LONWORK)
11. Analog:
 - ½ Sacle
 - RGHT-FPS
 - LEFT FPS
 - RT LVL-2
 - RT LVL-1
 - RGHT-TMP
 - LF LVL-2
 - LF LVL-1
 - LEFT TMP
12. Activity Log
13. Oil Levels
14. Pump Valves
15. AIF Info
16. USB Support

Info (press and release to toggle between options.)

- ☐ View actual temperature
- ☐ View setpoint temperature
- ☐ View last recovery time to heat from 121°C – 149°C(250°F to 300°F)

Level 1 Programming (press and hold for about 2 seconds – Code 123 -- Add or modify a product – use and to step through parameters and and to change settings

- ☐ Select Product
- ☐ Name
- ☐ Assign Button (Remember to do this otherwise you won't be able to use your program)
- ☐ Cooktime
- ☐ Temp
- ☐ Cook ID
- ☐ Alarm1

- ☐ Alarm 2
- ☐ Quality Timer
- ☐ Include in Filter Count
- ☐ Load Comp
- ☐ Load Comp Ref
- ☐ Full heat
- ☐ PC Factor

Level 2 Programming (press and hold for about 6 seconds -- use or to select from the different level 2 menus then enter the appropriate code – see lists below)

- ☐ **SPCL PROG**-Code 123- Program filter control parameters and other items
- ☐ **DO NOT DISTURB**-Code 123- Program filter control parameters and other items
- ☐ **CLOCK SET**- Code 123 - Set the time-of-day clock / calendar
- ☐ **DATA COM**-Code 123 - Data Communications, MMC, etc.
- ☐ **HT CTRL**-Code 123 - Program heat algorithm control parameters
- ☐ **TECH MODE**- Code 11221122 -Control of outputs, display & button tests, etc.
- ☐ **STATS MODE**- Code 11221122 Review, reset operating stats, diagnostic logs, etc
- ☐ **FILTER CONTROL** Code 11221122
- ☐ **FLASH SW**-Code 123- Program filter control parameters and other items

Special Programming (Code123 use and to navigate, and to change settings)

SP-1 • Temp: Degrees Fahrenheit or Celsius

SP-2 • Language: English, Russian, Swedish (SVENSKT), German (DEUTSCHE), Portuguese, Spanish (ESPAÑOL) And French (FRANÇAIS)

SP-3 • System Initialization (Factory Presets)

SP-4 • Audio Volume

SP-5 • Audio Tone

SP-6 • Melt Cycle Select - 1.LIQUID; 2.SOLID

SP-7 • Idle Mode Enabled - YES or NO

SP-7A • Use —'0' for IDLE

SP-7B • Auto Idle Minutes

SP-7C • Idle Set-point Temperature

SP-8 • Filter Tracking Mode - 1.MIXED or 2.GLOBAL

SP-8A • Suggest Filter At... - 75% to 100% (**MIXED**)

SP-8B • Filter Lockout Enabled? - YES or NO (**MIXED**)

SP-8A • Left Vat Filter Cycles - 0 to 99 (**GLOBAL**)

SP-8B • Right Vat Filter Cycles - 0 to 99 (**GLOBAL**)

SP-8C • Filter Lockout Enabled? - YES or NO (**GLOBAL**)

SP-9 • Polish Time - X:XX M:SS

SP-10 • Change Pad Reminder Time - XX HRS

SP-11 Clean Out Time (60 min)

SP-12 Clean Out Temp (195 F)

SP-13 • Cooking User IO - After Cook Cycle, display shows previous menu item or -----||

SP-14 Number of Baskets

SP-15 • Show Cooking Indicator Yes / No

SP-16 2nd Language: English, Russian, Swedish (SVENSKT), German (DEUTSCHE), Portuguese, Spanish (ESPAÑOL) And French (FRANÇAIS)

SP-17 2nd Volume

SP-18 Energy Save Enabled? (Yes)

SP-19 • Fryer Type - GAS or ELECTRIC

SP-20 • Vat Type - SPLIT or FULL

SP-21 Autolift Enabled?

SP-22 • Bulk Oil Supply? - YES or NO

SP-23 • Bulk Oil Dispose? - YES or NO

SP-24 • Serial No. of Fryer

SP-25 • Change Mgr. Code- 1 = YES

SP-26 • Change Usage Code - 1 = YESC.

SP-27 Dispose Requires Code? Yes / No

SP-28 Longer Filltime Enabled? Yes/ No

SP-29 Let User Exit Fill? Yes / No

SP-30 Skip Skim Prompt? Yes / No

SP-31 Skip Exp Filter? Yes / No

SP-32 2-Stage Wash Enabled? Yes / No

SP-33 Daily Filter Lockout Enabled? Yes / No

SP-34 Daily Filter Period Start Time? (HH:MM time)

SP-35 Daily Filter Reminder Time? (HH:MM time)

SP-36 Quick Config (Menu Selections)

Do Not Disturb (Code123 use and to navigate, and to change settings)

- **Do Not Disturb Enabled?** (yes/no)
- **M-F; Sat; Sun Options**

Clock Set (Code123 use and to navigate, and to change settings)

CS-1 ENTER DATE MM-DD-YY

CS-2 ENTER TIME

CS-3 TIME FORMAT (12 or 24 hour)

CS-4 DAYLIGHT SAVING TIME

1. OFF
2. US
3. EURO
4. FSA

CS-5 BEGIN NEW DAY (HH:MM time)

Data Comm Code123 use and to navigate, and to change settings

DC – 1 Control Position

DC – 2 Alt Device Address

DC – 3 Datalog Enabled (yes/no)

DC – 4 Datalog Output (1. USB, 2. RS232)

DC – 5 Datalog Content (1. Activity, 2. LAB)

DC – 6 Monday Report (yes/no)

DC – 7 Timed Log (seconds)

DC – 8 Comm Stats

DC – 9 Reports All (print)

DC – 10 Remove USB

DC – 11 Modbus Enabled? (yes/no)

Heat Control Code123 use and to navigate, and to change settings

HC – 1 PC Factor Not Cooking

HC – 2 Heat Duty at Setpoint

HC – 3 Rate of Rise Adjust

HC – 4 Idle Heat Cycle

HC – 5 Cooking Heat Cycle

Tech Mode Code11221122 use and to navigate, and to change settings

T-1 • Software

T-2 • Fryer Type

T-3 • Push Button Test

T-4 • All On Display Test

T-5 • Display Segment Test

T-6 • Display Digits Test

T-7 • Display Decimal Point Test

T-8 • LED's Test

T-9 • Left Temp. Probe Calibration & Offset

T-10 • Left Level 1 Probe Calibration & Offset

T-11 • Left Level 2 Probe Calibration & Offset

T-12 • Right Temp. Probe Calibration & Offset

T-13 • Right Level 1 Probe Calibration & Offset

T-14 • Right Level 2 Probe Calibration & Offset

T-15 • CPU Control Temp.Calibration/Offset/Highest

T-16 • View A - D Channel
T-17 • Inputs
T-18 • Outputs Test
T-19 Basket Lifts?
T-20 AIF Info
T-21 • Pumps & Valves Test
T-22 Recovery Test Limit
T-23 Heat Err Enabled? Yes / No
T-24 Change Tech Code?
T-25 Do Total Initialization

Stats Mode Code11221122 use and to navigate, and to change settings

ST-1 • Stats Last Reset Date
ST-2 • Fryer Total Running Hours
ST-3 • Left Vat Melt Cycle Hours
ST-4 • Left Vat Cook Cycle Hours
ST-5 • Left Vat Idle Hours
ST-6 • Right Vat Melt Cycle Hours
ST-7 • Right Vat Cook Cycle Hours
ST-8 • Right Vat Idle Hours
ST-9 • Power-Ups Count
ST-10 • Error Counts
ST-11 • Left Vat Heat On Hours
ST-12 • Right Vat Heat On Hours
ST-13 • Highest Left Vat Oil Temperature
ST-14 • Highest Right Vat Oil Temperature
ST-15 • Highest CPU Temperature
ST-16 • System RAM Fade Count
ST-17 • Cook RAM Fade Count
ST-18 • Product RAM Fade Count
ST-19 • Stat RAM Fade Count
ST-20 • RAM Data Error Count
ST-21 • Data Total Loss Count
ST-22 • User Initialization Count
ST-23 • Automatic Initialization Count
ST-24 • Cooks Count per Product
ST-25 • Cook Cycle Stop Counts
- —Al = number of stops in the first 30 seconds
- —Bl = 0
- —Cl = 0
- —Dl = complete cook cycles counted
ST-26 Basket lift Moves Count Left
ST-27 Basket lift Moves Count Right
ST-28 Reset All Stats

Filter Control Code11221122 use and to navigate, and to change settings. (defaults shown in parenthesis)

FC-1 – Pan Out Changed Pad (15 sec)
FC-2 – Auto Fill Enabled (Yes)
FC-3 – Auto Fill Cycle Time (30 sec)
FC-4 – Auto Fill Check JIB (8 count)
FC-5 – Oil Full if Delta Above (-10F)
FC-6 – Oil Low if delta below (-15F)
FC-7 – Heat allowed during fill (no heat)
FC-8 – Drain Time (20 sec)
FC-9 – Oil Wash Time (20 sec)
FC-10 – Oil Rinse Time (40 sec)
FC-11 – Oil Typical Fill Time (45 sec)
FC-12 – Repeat Fill Time (30 sec)
FC-13 – RTD Air Cooling (-0.40 degrees/sec)
FC-14 – RTD Cold Oil Surround (-9.99 degrees/sec)
FC-15 – RTD Hot Oil Surround (+9.99 degrees/sec)
FC-16 – Tmp Probe —X Above Min (+ 3 degree F)
FC-17 – X Above Min Hit Limit (4 Count)

FC-18 – Level RTD Air Cooling(-0.8 degrees / sec)
FC-19 – SKIP
FC-20 – New Pad –Max Fill Time (70 sec)
FC-21 – Old Pad – Max Fill Time (70 sec)
FC-22 – Fill to Top Time (45 sec)
FC-23 – Reach Top Plus X Sec (20 sec)
FC-24 – Fill Until Pan Empty (70 sec)
FC-25 – Valve Auto- Cycle Period (0:00 H:MM)
FC-26 – Refill Detect By (Level Probes/Pressure)
FC-27 – Min Wash PSI (4.75 PSI)
FC-28 – Max Bubble PSI (3.75 PSI)
FC-29 – New Pad Max Wash Time (90 sec)
FC-30 – Old Pad Max Wash Time (60 sec)
FC-31 – Min Fill Time (10 sec)
FC-32 – New Pad Max Fill Time (240 sec)
FC-33 – Old Pad Max Fill Time (240 sec)
FC-34 – Required Bubble PSI Hits (8 count)
FC-35 – Pressure Trip Limit (30 PSI)
FC-36 – Pilot During Filter (Pilot OK/No Pilot)
FC-37 – Filling - Low Heat On (3 sec)
FC-38 – Filling – Low Heat Off (10 sec)
FC-39 – JIB or BIB?
FC-40 – Enable R&D Displays? (no)

Flash SW (Code11221122 use and to navigate, and to change settings)

- Insert USB
 - o Flash (displays software revision number on USB): ‘✓’ to flash & ‘x’ to cancel and go to ‘Main’ Menu
 - o Main
 - Flash (displays software revision number on USB): ‘✓’ to flash & ‘x’ to cancel
 - Export (‘✓’ to download current software to USB)
 - Restore (‘✓’ to view list of all software revisions on the control; ▲ and ▼ buttons to scroll; then ‘✓’ to flash & ‘x’ to cancel)

Filter Stats (Press and Release button to enter)

- ☐ View Cooks remaining
- ☐ Last filter
- ☐ Filter Pad Hours