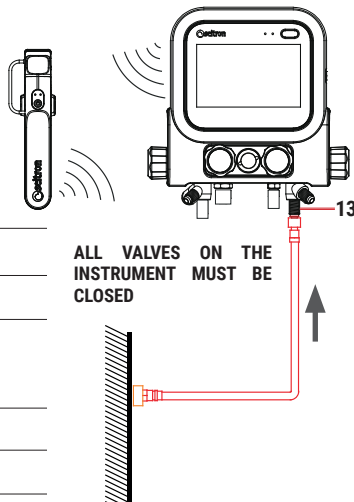


TIGHTNESS TEST



To perform a proper **tightness test**, it is necessary to enable the temperature compensation in the Settings menu, and then **connect the Be Cool Evo T1S temperature probe to the instrument**.

To ensure accurate measurement, it is essential that the probe remains suspended in the air and is not placed on any surface.



Measurement Screen – Gauge Display.

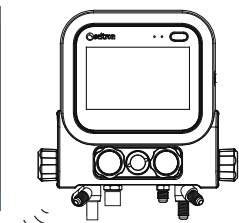
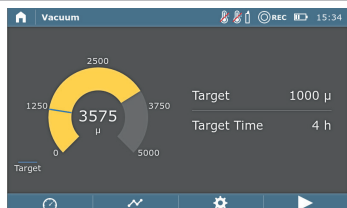
Measurement graph.

Parameter settings: Acceptable leak adjustable from 0% to 100%
Test duration adjustable from 5 min to 48 h
Temperature Compensation enable/disable

Start the system tightness test.

Stop the system tightness test.

EVACUATION AND VACUUM DECAY TEST



Measurement screen - Gauge display.

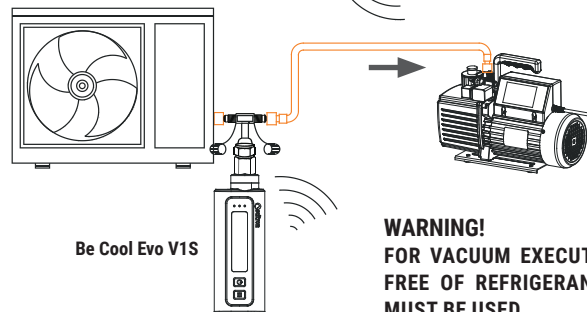
Measurement chart.

Parameter settings:
Target value adjustable from 50 mTorr to 1000 mTorr
Target time adjustable from 1 minute to unlimited
Tightness Alarm* adj. from 100 mTorr to 2000 mTorr
Tightness Time* adjustable from 30 s to 24 h

Start vacuum execution and/or vacuum holding.

Stop vacuum execution and/or vacuum holding.

* These two parameters are specific to the execution of the vacuum test.



- 1 Verify that the vacuum gauge is connected to the manifold.
- 2 From the main instrument page, access the Vacuum menu.
- 3 Press the key and set the parameters for vacuum execution and holding.
- 4 Turn on the vacuum pump and press the key to start the vacuum measurement.
- 5 When vacuum execution is completed, the display shows one of the following messages:
Target reached: Press Play to continue or **Target not reached**.
- 6 If the target is reached, isolate the vacuum pump from the system.
- 7 Press the key to start the vacuum holding test.
- 8 When the vacuum holding test is completed, the display shows one of the following messages:
"Vacuum holding test successfully completed" / **"Vacuum holding test failed"**.



Quick guide Be Cool Evo Smart Kit



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TECHNICAL FEATURES

Connectivity	Bluetooth®	Bluetooth® comm. range	80 m (262 ft) (max) open field
Operating temperature	-10 °C - +50 °C (+14 °F - +122 °F)	Operating humidity	+20% - +80% RH non-condensing
Storage temperature	-20 °C - +60 °C (-4 °F - +140 °F)	Storage humidity	+10% - +90% RH non-condensing

Be Cool Evo M4S – 4-Way Digital Manifold Gauge

Power supply	Rechargeable Li-Ion battery 3.7 Vdc 5200 mAh	Resolution	0,01 bar (0.1 psi)
Charging parameters	5 V 2 A	Accuracy	0,5% Full Scale
Measuring range	-1,00 - +55,00 bar (-14.5 - +800.0 psi)	Protection rating	IP54

Be Cool Evo V1S – Digital Vacuum Gauge

Power supply	2 x 1,5 V AA batteries	Measuring range	+1 - +20000 micron
Accuracy	+1 - +10000 micron ±10% rdg ±10 micron +10001 - 20000 micron: ±20% rdg	Resolution	1 micron [0 - +9999 micron] 10 micron [+10000 - +20000 micron]
Protection rating	IP54		

Be Cool Evo T1S – Smart Temperature Probe

Power supply	2 x 1,5 V AAA batteries	Resolution	0,1 °C (0.2 °F)
Sensor type	NTC 10 k ±1% B25/85=3977K ±1%	Accuracy	±1 °C (±2 °F)
Measuring range	-50 °C - 150 °C (-58 °F - +302 °F)	Protection rating	IP54

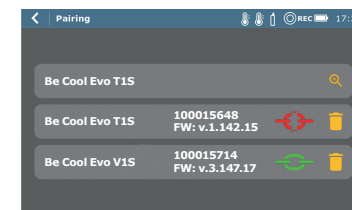
PAIRING – CONNECTING THE TEMP. PROBE AND/OR VACUUM GAUGE TO THE INSTRUMENT

1. Turn on the devices to be paired: press and hold the key until all LEDs briefly light up, then release the key.
2. Access the Pairing menu on the Be Cool Evo M4S: Settings => Pairing.
3. Click on the icon corresponding to the device you want to pair to start scanning (Be Cool Evo T1S, Be Cool Evo V1S, Be Cool Evo V1S).
4. Wait 10 seconds and select the row corresponding to the serial number of the Bluetooth® device to pair; the serial number can be found on the device's nameplate, preceded by "S/N:".
5. The instrument will automatically pair with the selected Bluetooth® device. The icon for the paired device will appear in the top bar: .

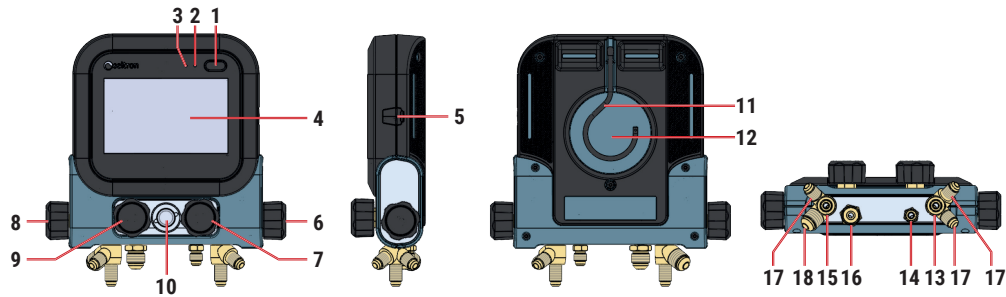
Once paired, the devices will automatically connect when powered on.

LEGEND

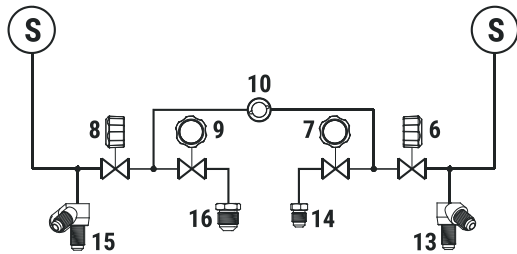
- Search for devices (no devices paired): Starts scanning to pair a new device.
- Unpair device: Removes the device from the list of saved devices.
- Connected device: Paired and connected.
The icons for paired devices appear in the top bar.
- Device not connected: Paired but not connected.
The icons for paired but not connected devices appear in the top bar.



MECHANICAL DESCRIPTION



SIMPLIFIED DIAGRAM OF THE MANIFOLD



User Interface Description

1	Multifunction button: Press and hold for 3 seconds to power the instrument on/off Press and hold for more than 10 seconds to perform a device Reset
2	Flashing Red LED: Low battery Solid Red LED: Charging in progress Solid Green LED: Battery fully charged (visible only if charging while the instrument is off)
3	White LED: 2 flashes every 5 s: Bluetooth waiting for connection (searching) 2 flashes + 3 rapid flashes every 5 s: Bluetooth waiting for connection (searching) and logging 1 flash every 5 s: Bluetooth connected 1 flash + 3 rapid flashes every 5 s: Bluetooth connected and logging
4	TFT color touch screen display
5	USB Type-C interface (with protective cover)

Manifold Description

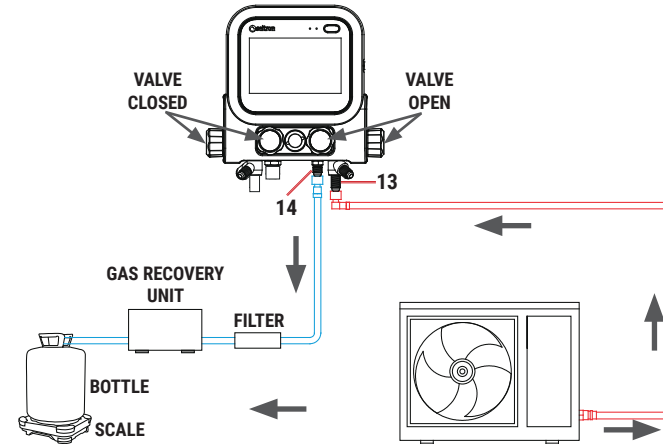
6	Right branch High/Low pressure valve control knob
7	Right branch refrigerant charging connection valve control knob
8	Left branch High/Low pressure valve control knob
9	Left branch valve control knob (3/8 SAE connection fitting)
10	Refrigerant flow sight glass
13	1/4 SAE port for right branch High/Low pressure refrigerant hose
14	1/4 SAE port for refrigerant charging hose
15	1/4 SAE port for left branch High/Low pressure refrigerant hose
16	3/8 SAE port for vacuum pump connection
17	1/4 SAE dummy port for hose support
18	3/8 SAE dummy port for hose support
S	Pressure sensor

Other

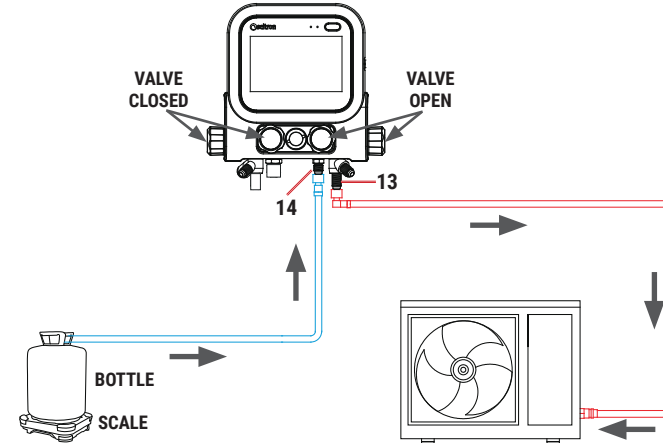
11	Instrument hanging hook
12	Magnetic section for hook attachment

THE HOSE CONNECTIONS ARE KNURLED AND MUST BE TIGHTENED BY HAND ONLY, WITHOUT THE USE OF TOOLS.

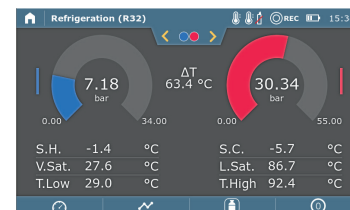
SYSTEM REFRIGERANT EVACUATION



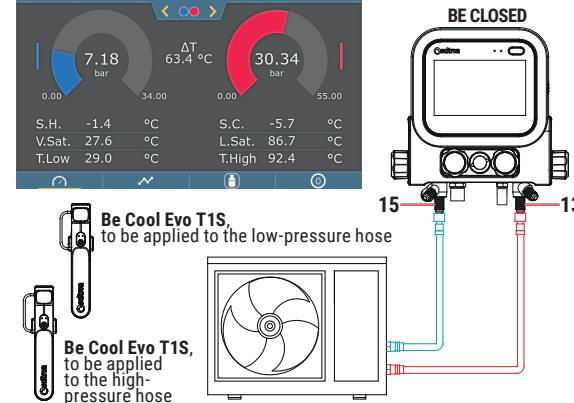
SYSTEM REFRIGERANT CHARGING



SYSTEM PRESSURE MEASUREMENT



ALL INSTRUMENT VALVES MUST BE CLOSED



Gauges View

Use the arrows to configure the display:

Manual Configuration
The colors on the screen must "follow" the physical position of the hoses connected to the instrument:
Light Blue = low pressure / **Red** = high pressure
Temperature values follow the color of the gauge (**Light Blue** = low temp. / **Red** = high temp.).

Automatic Configuration

Automatically detects the high and low pressure branches and arranges the readings (pressure and temperature) on the screen correctly, respecting the physical connections made to the system.

Measurement graph.

Set the type of refrigerant in use.

Pressure zeroing.

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