Correction factor

Definition

The correction factor is used to display the helium signal with a ratio regardless of the pumping speed.

The correction factors applied to the digital display with respect to the external calibration are:

- VAC COR in hard vacuum test mode,
- SNIF COR in sniffing test mode.

The VAC/SNIF COR values are automatically adjusted according to helium signal fluctuations.
These correction factors are memorized until another external calibration is validated.

They can be activated, deactivated or modified.

The correction factors are automatically calculated by the external calibration but it is also possible to enter them manually.

Access authorization

Do you have access to this operation/function? **C 30**

Activate the correction factor

There are 2 possible procedures depending on which authorized level: level 3 and 4.

See below pararaphs.

Deactivate the correction factor

The procedure is the same as for Activate the correction factor but instead of pressing , press .

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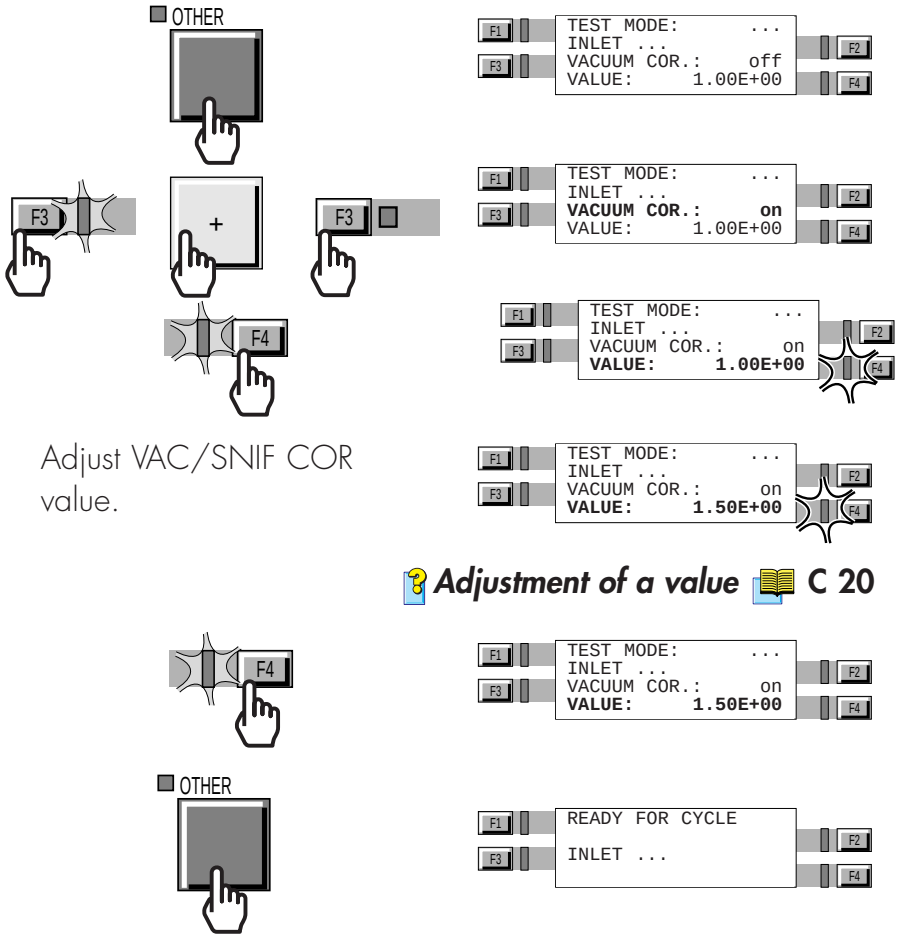
Correction factor

Procedure with user *level* 3

■ The procedure is the same as for VAC COR and SNIF COR.
■ Make sure the unit is in sniffing test mode when you want to adjust SNIF COR.

Sniffing test mode C 60

Note: Following screens correspond to hard vacuum test mode. In sniffing test mode, line 1 is different and VACUUM COR is replaced by SNIFFING COR.



Adjust VAC/SNIF COR value.

Adjustment of a value C 20

Value Modification

In order to modify the calibration factor, process as above without modifying line 3.

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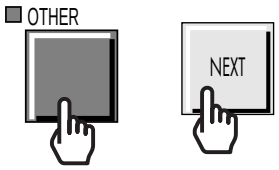
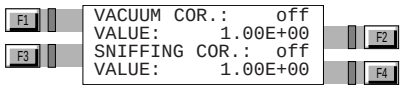
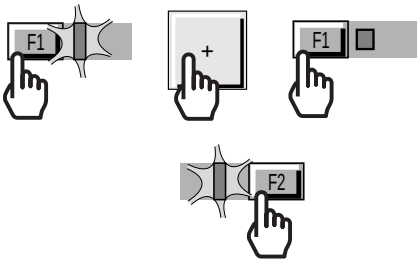
Correction factor

Procedure with user *level* 4

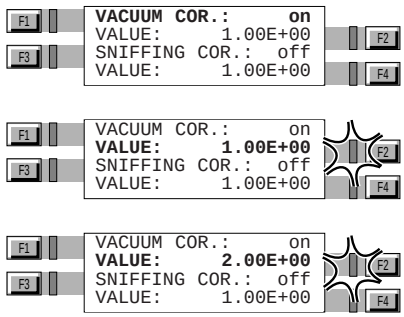




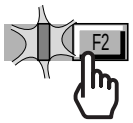
VAC COR value adjustment

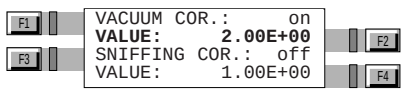


Adjust VAC COR value.



Adjustment of a value C 20





SNIF COR value adjustment

Same procedure as for VAC COR but instead of pressing F2 press F4.

Value Modification

In order to modify the calibration factor process as above without modifying lines 1 and 3.

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Correction factor

General notes (in hard vacuum or sniffing test mode)

■ During the external calibration process:

basic digital display x VAC/SNIF COR = target value

Basic digital display is the helium signal basic display without correction ratio (as if COR indicator is OFF or VAC/SNIF COR equal to 1.00E-00).

■ Once the external calibration correction is validated, the digital display is modified:

corrected digital display =
basic digital display x VAC/SNIF COR

The analog display (standard scale) always displays the basic value of the helium signal which is not modified by VAC/SNIF COR.

■ During the last step of the external calibration, the VAC/SNIF COR is displayed and automatically calculated with respect to the fixed target value and the present basic signal value.
The VAC/SNIF COR ratio is fixed and memorized when the AUTOCAL key is pressed to confirm the CORRECTION and stop the external calibration process.

■ The COR indicator is ON as soon as the VAC/SNIF COR is ON and different from 1.00E-00.
If the target value is the same value as the standard signal on the digital display, in other word if VAC/SNIF COR is equal to 1.00E+00, the COR indicator is automatically OFF: the external calibration is OFF.

■ If RESET is pressed during or at the last step of the external calibration process, the leak detector comes back to the previous digital display status which was effective before the external calibration request. VAC COR is unchanged.

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