

## 3 masses option

### Purpose

Leak detection is used to detect micro-openings, porosities, etc. in test parts. The detection of these passages involves the use of a light gas, which is capable of infiltrating the smallest passages quickly. The standard gas used is the Helium 3 but the operator has the possibility with the 3 masses option to use another gases: Hydrogen or Helium 4.



**Background is much higher in H<sub>2</sub>.**

The unit equipped with the 3 masses option does not have any external differences in relation to the standard unit. The modifications are inside the unit (analysis cell magnet and electronic supervisor board).

Background indicatives values, in cycle, detector on itself:

- At start  $\approx$  low range  $10^{-5}$  mbar.l/s.
- After 2 or 3 hours  $\approx$  low range  $10^{-6}$  mbar.l/s.

The functions are the same as the standard detector.

### Gas selection

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

**C 30**

### Procedure

**Reminder** **Operating principle of the control panel**

**C 20**



Press the key

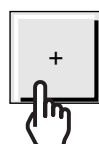


activated

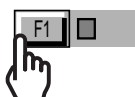
SPECTRO



F1	SELECTED GAS: He	F2
F3	F2=>CALIBRATED LEAK	F4
INT.Θ (°C/°F): 27/81		



or



F1	SELECTED GAS: Hy	F2
F3	F2=>CALIBRATED LEAK	F4
INT.Θ (°C/°F): 27/81		



## 3 masses option

### Auto-calibration in Hydrogen or Helium 3

The leak detector can be auto-calibrated in Hydrogen or Helium 3 with an external calibrated leak connected to the leak detector inlet.

#### Procedure

Connect an Hydrogen or Helium 3 calibrated leak at the inlet of the leak detector.

The operator should adjust the parameters of the calibrated leak used.

 **Calibrated leak values programming**  **C 75**

 **External calibration**  **C 73**