

## HELIUM LEAKAGE TEST SYSTEM

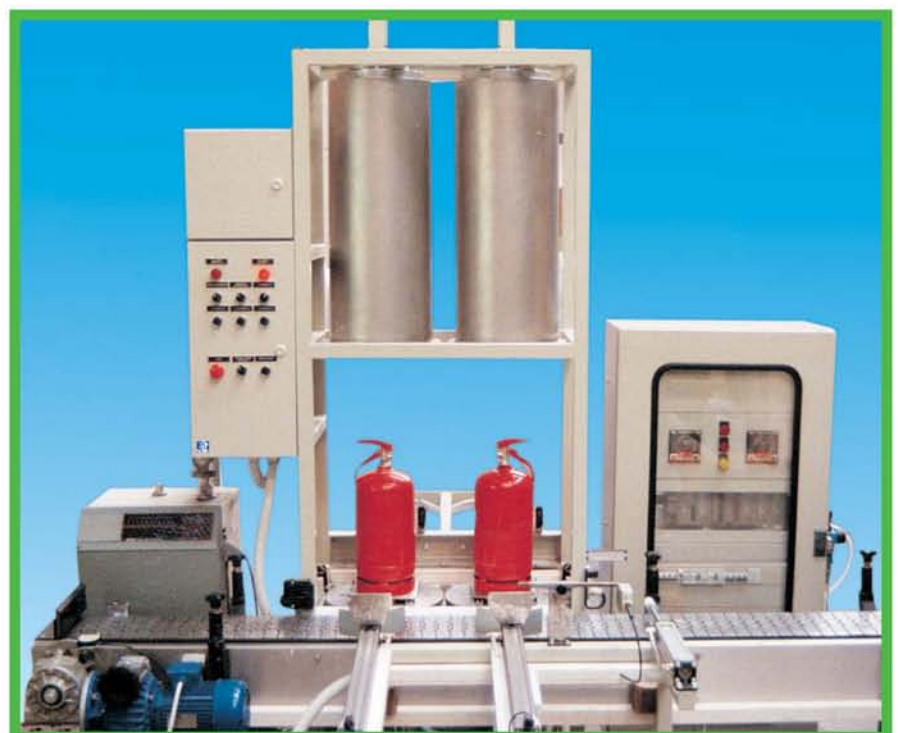


Leak detection unit, equipped with a Helium gas analyzer with a molecular drag pump and a high speed vacuum pump-group. Extinguishers are manually inserted into the test chamber (robotized handling system on requirement). This system can be supplied with a variable test chamber amount (from 1 up to 4 ones). The test system, mass-spectrometer equipped, is basically made of following parts:

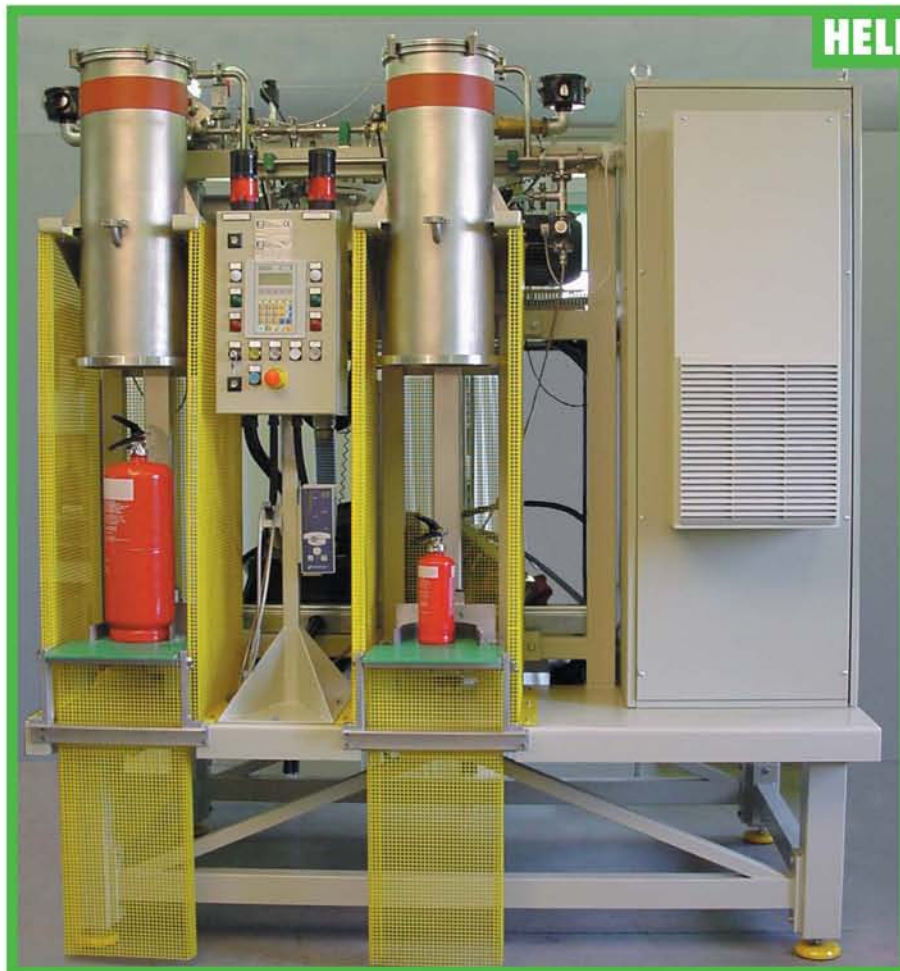
- Test chamber
- Frame
- Pre-vacuum group for test chamber
- Analysis system (mass-spectrometer group)
- Electronic display
- Electric and electronic box
- Pneumatic devices
- Mechanic devices (handling)

### ADMITTABLE MAX. LEAKAGE

EXTINGUISHER SIZE (KG)	LEAKAGE 100% HE (cc / 24 h)	% HE BLEND	LEAKAGE (cc / 24 h)	MBAR L/SEC
1	1	10	0.1	1 X 10 E -6
2	2	10	0.2	2 X 10 E -6
4	4	5	0.2	2 X 10 E -6
6	6	5	0.3	3 X 10 E -6
9	9	3	0.27	2.7X 10 E -6
12	12	3	0.36	3.6X 10 E -6



## HELIUM LEAKAGE TEST SYSTEM



### TECHNICAL CHARACTERISTICS – 1 chamber system

- Testing item: Extinguishers from 1 up to 12 Kg
- Leakage value (threshold of rejection): 1 cc N<sub>2</sub> / 24 hours (for every extinguisher Kg)
- Test tracer: Helium 4 – industrial type
- Tracer blend: 3% - 10% He + 97% - 90% N<sub>2</sub>
- Test chamber shape: Cylindrical
- Test chamber size: Dia. 250 mm x ht. 600 mm Volume 30 litres abt.
- Test chamber amount: 1
- Testing extinguisher per chamber: 1
- Chamber handling: Manual
- Test cycle: Automatic - adjustable
- Pre-vacuum pump group: ROOTS high vacuum + rotary single-stage
- High-vacuum pump group: high vacuum – double stage
- Analysis system: UL 200
- Accuracy: 2x10E-10 mbar l/sec (He)
- Productivity: 90 pieces/hour – 6 kg. extinguisher
- Pneumatic feeding: 5 bar (filtered & dehumidified air)
- Electric feeding: 400V three-phase 50 Hz

### TECHNICAL CHARACTERISTICS – 2 chamber system

- Testing item: Extinguishers from 1 up to 12 Kg
- Leakage value (threshold of rejection): 1 cc N<sub>2</sub> / 24 hours (for every extinguisher Kg)
- Test tracer: Helium 4 – industrial type
- Tracer blend: 3% - 10% He + 97% - 90% N<sub>2</sub>
- Test chamber shape: Cylindrical
- Test chamber size: Dia. 250 mm x ht. 600 mm Volume 30 litres abt.
- Test chamber amount: 2
- Testing extinguisher per chamber: 1
- Chamber handling: Manual
- Test cycle: Automatic - adjustable
- Pre-vacuum pump group: ROOTS high vacuum + rotary single-stage
- High-vacuum pump group: High vacuum – double stage
- Analysis system: UL 200
- Accuracy: 2x10E-10 mbar l/sec (He)
- Productivity: 120 pieces/hour - 6 kg. extinguisher - one pump  
160 pieces/hour - 6 kg. extinguisher – two pumps
- Pneumatic feeding: 5 bar (filtered & dehumidified air)
- Electric feeding: 400V three-phase 50 Hz