

iAmiata

Vacuum, tracer gas (H₂ or He) mixtures Pressurization unit

iAMIATA is a bench station for mixing Helium + Nitrogen gases and realize tests leaks with rising vacuum, pressure decay and point to point micro leaks detections.

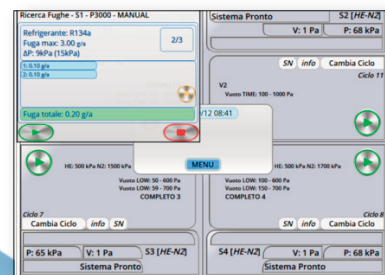
iAMIATA has been designed in particular for making pressure tests and leak test of refrigerating units with the use of inert gas or tracer gases such as helium or nitrogen/hydrogen, according to the ISO 10156 Standard; before the charge of the test gas it is possible to perform a vacuum cycle so to get a first cleaning of the unit and to make a preliminary tightness test.

iAMIATA is ideal for the tracing of components and refrigerating units, on production lines for any kind of appliance, wherever a pressure test or/and a trace gas leak test is required.

iAMIATA can be easily interfaced with the Inficon and Pfeiffer Leak detector professional device, with complete control of the main functionalities, configuration and report of the leak test over the relevant copper circuits.

Functional Characteristics

- High versatility and portability thanks to compact design
- Maximum test pressure 55 bar
- Digital gauges for pressure and vacuum measurement
- Integrated pneumatic vacuum pump (5,2 m³/h capacity)
- Setting of working cycle parameters, filing/monitoring and printing test reports by connection to external PC
- Bar code reader -as optional
- Microprocessor controlled
- 1000 programmable working cycles
- Reporting of the subcycle in progress
- Built in agreement to the European Machinery Directive, Safety standards CE marked



Technical Characteristics

	iAMIATA	iAMIATA DUE
Tracer gas/mixtures	1	2
Injectors	2	2 + 2
Pressurizzazione System	1 Aluminium block	2 Aluminium block
Injector Length	3,5 m, other at request	
Maximum Test pressure	55 bar	
Pressure Sensor resolution	1 kPa	
Connection to the unit to be tested	¼" Hansen F (ISO 7241B), ¼" SAE at request	
Vacuum pump capacity	Integrated pneumatic depressor 5,2 m ³ /h; DN16KF flange for connection to ext. vacuum pump	
Programmable cycles	1000	
Safety valve security setting	63 bar, configurable at request	
Control Unit	microprocessor	
PC connection	LAN	
Power supply	400 V @ 50 Hz – 3ph+GND	
Power consumption	0,7 kW	
Compressed air supply	6÷7 bar, not lubricated	
Dimensions (LxWxH)	560x800x1400 mm	
Weight	~150 kg	
Working temperature	from 5 °C to 45° C	

The provided unit could not exactly match with the one described

Optional features and devices

DCA (Data Collector Application over TCP/IP protocol)
Available up to 4 Mixture pressurization Systems and 2 Vacuum Pumps
Automatic working cycle selection performed by bar code reader
On-Board printer
Obstructed vacuum group test and/or capillary test (only in AMIATA 2)
iAmiata UNO - Special configuration without Vacuum Pump

