

Ascential

Technologies | Test & Measurement Systems

Ikanos M

Automatic evacuation
and refrigerant
charging equipment

Galileo



The fastest refrigerant charging system for non-flammable gases in the HVACR market.

Particularly indicated for high production rates that require a very fast cycle time with big refrigerant doses.

Ikanos can offer a wide range of important and very flexible features.

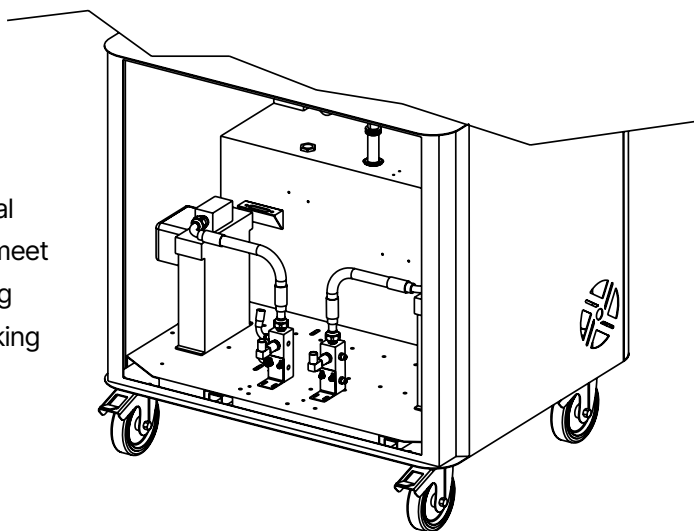
The machine automatically performs circuit evacuation, vacuum check, leak test and refrigerant charge using a self diagnostic system.

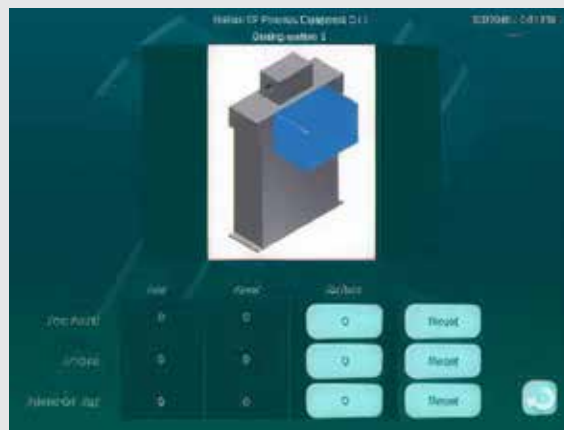
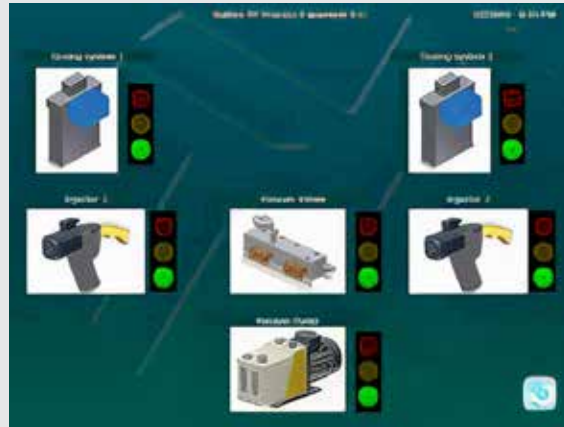


Hard-working machine

The Kion C uses the GDC technology the uncontested Galileo Dosing Cylinder metering device granting the customer:

- ▲ The simplified working phases and the manual filler gun guarantee a very fast cycle time to meet the needs of manufacturers of air conditioning systems filled with non-flammable gases looking for a massive production rate.
- ▲ Easy and low cost maintenance of filler gun
- ▲ Robust mass-flow metering device





Icon User Interface

Infrared color touch screen high brightness designed for industrial environments with extreme temperatures and high humidity. Durable, dirt-resistant and very responsive. The infrared touch screen can be operated with wet fingers or dirty gloves.

The machine also features a new Galileo PC board with an updated interface IUI 2015, a very user friendly icons menu and Ethernet port.

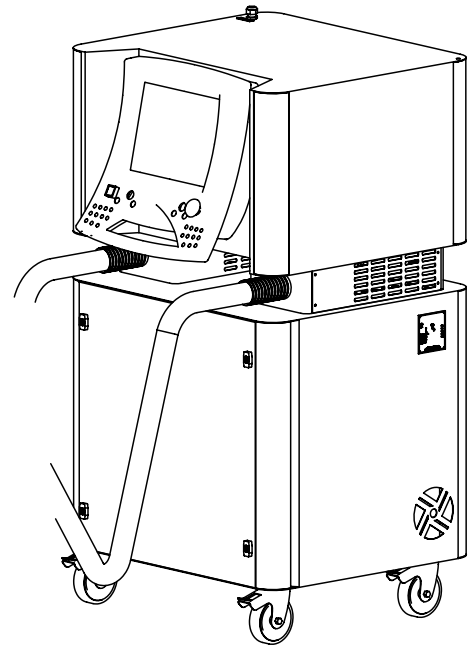
The Ikanos comes with a complete integration with the GEDA (Galileo Equipment Data Acquisition) system for data acquisition and statistics, remote programming as well as external supervision of the line.



Number of charging fillers	Up to 2
Metering device	Mass-flow meter
Length of the fillers	3.5 meters <i>(others on request)</i>
Programmable cycles number	200 <i>(more on request)</i>
Programmable barcodes number	1000 <i>(more on request)</i>

MEASUREMENT UNITS

Weight	g , oz
Vacuum	Pa , μ Hg, mbar
Pressure	kPa , psi, bar
Temperature	$^{\circ}$ C , $^{\circ}$ F
Time	s
Vacuum pump	Double stage, 28 m ³ /h
Pump final vacuum	$<1 \times 10^{-2}$ Pa (1×10^{-4} mbar)
Dimensions (H x W x P)	1450 x 800 x 700 mm
Weight	260 kg <i>(model M22)</i>
Work temperature	+0 \div +50 $^{\circ}$ C
Storage temperature	-25 \div +70 $^{\circ}$ C
Electric supply tension	230-400 V 50 Hz 3 ph <i>(other on request)</i>
Power consumption	900 W
Connection type to the group	1/4" Hansen <i>(other on request)</i>
Compressed Air	600 \div 800 kPa (6 \div 8 bar)
Noise Level	< 70 dB (A)
Refrigerants	HC, HCFC, HFC
Refrigerant supply pressure	1000 \div 3500 kPa <i>(according to refrigerant type)</i>
Programmable Charge	10 \div 99999 g
Minimum charging increase	0.1 g
Accuracy (HC)	\pm 0.5 g for charges < 200 g \pm 0.5 % for charges >200 g
Charge speed (HC)	Up to 230 g/s
Data visualization	Infrared touch screen display 15"
Interfaces	RS-232 for bar code reader RS-232 for printer/PC RS-485 Ethernet communication for download data



AVAILABLE MODELS

Model	Number of filler	Number of metering device
Ikanos M11	1	1
Ikanos M21	2	1
Ikanos M22	2	2

Certifications

Ikanos M complies with European standards.



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Impossible? Done.