

Ascential

Technologies | Test & Measurement Systems

Kion M

Automatic evacuation
and refrigerant charging
equipment for flammable gases

Galileo



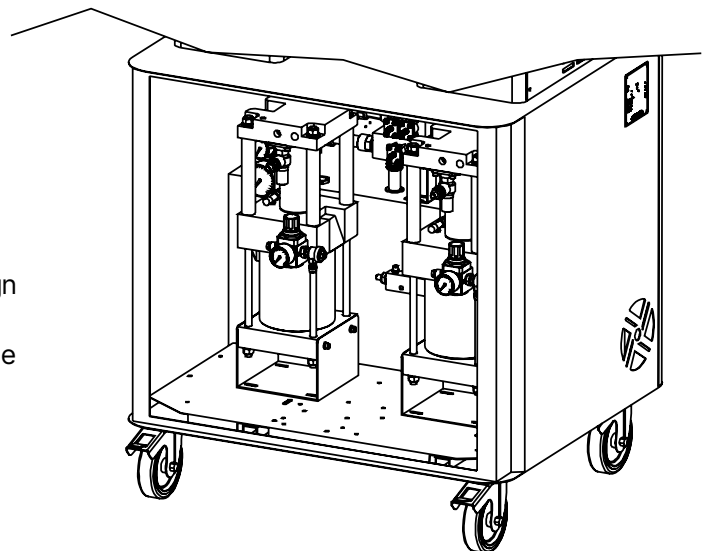
The **Kion M** is the fastest refrigerant charging system for flammable gases in the HVAC market. It is designed for high production rates that require very accurate small and large doses of flammable or non-flammable refrigerant gases.

Kion M features a user friendly interface. The machine automatically performs circuit evacuation, vacuum check, leak test and refrigerant charge using a self-diagnostic system.



The fastest

Thanks to its mass flow meter technology combined with its new refrigerant filler design and the Galileo ATEX controls, the Kion M delivers the fastest charging speed under the safest possible conditions.



The Cobra HS Filler Gun

This advanced filler gun is equipped with two solenoid valves, allowing customers to work at a very high speed under the safest conditions possible. **Zero gases are released upon disconnection**, further increasing safety.

More important features include:

- ▲ Easy to reverse to overhead position
- ▲ Protection shield for valves
- ▲ Very easy disassembling and maintenance
- ▲ LED light indicator to allow easier use

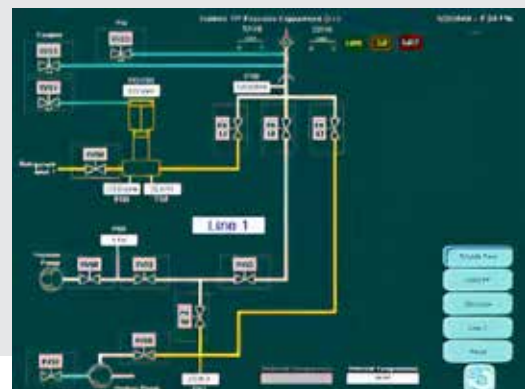
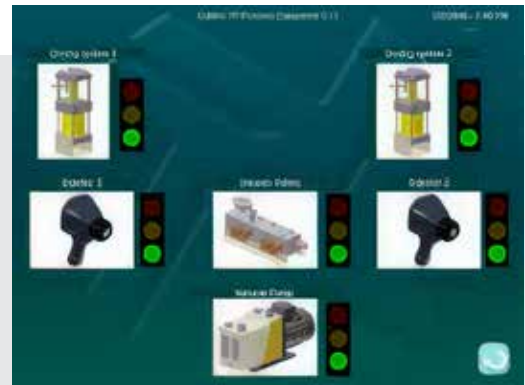


Icon User Interface

This infrared color touch screen features high brightness and is designed for industrial environments with extreme temperatures and high humidity. The screen is durable, dirt-resistant and very responsive and 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.

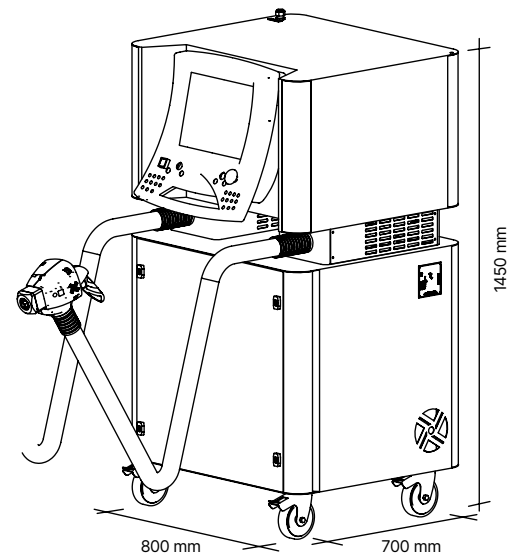
The Kion C can be completely integrated with the **GEDA (Galileo Equipment Data Acquisition)** system for data acquisition and statistics, remote programming as well as external supervision of the line.



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

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	216 kg (model M22)
Work temperature	+0 \div +50 $^{\circ}$ C
Storage temperature	-25 \div +70 $^{\circ}$ C
Electric supply tension	230-400 V 50 Hz 3 ph (other on request)
Power consumption	900 W
Connection type to the group	1/4" Hansen (other on request)
Compressed Air	600 \div 800 kPa (5 \div 7 bar)
Noise Level	< 70 dB (A)
Refrigerants	HC, HCFC, HFC
Refrigerant supply pressure	1000 \div 3500 kPa (according to refrigerant type)
Programmable Charge	10.0 \div 99999 g
Minimum charging increase	0.1 g
Accuracy (HC)	\pm 0.5 g for charges < 100 g \pm 0.5 % for charges > 100 g
Accuracy (HFC)	\pm 1.0 g for charges < 200 g \pm 0.5 % for charges > 200 g
Charge speed (HC) (HFC)	Up to 90 g/s Up to 130 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 fillers	Number of metering devices
Kion M11	1	1
Kion M21	2	1
Kion M22	2	2

Oil dosing cylinders available upon request

Certifications

Kion M complies with European standards and is certified by **TUV**.

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+39 055 722 13 58 | sales@galileotp.com

galileotp.com

Impossible? **Done.**