



iRockall HC

Vacuum and Flammable Refrigerant Charging Unit

iROCKALL HC is an evacuation and charging station for A2L, A2 A3 Class refrigerants and not flammable classes. It is an easy and effective to handle machine with a top charging accuracy.

iROCKALL HC is for medium and high throughput production lines of domestic and commercial refrigerators / freezers and other fields of application and it well designed and tested for making use of isobutane (R600a) and propane (R290). Assembly lines making use of most recent refrigerants as R1234yf and R1234ze are also the natural workplace for **iROCKALL HC**

- Microprocessor or smart OS (optional) controlled
- Charging speed: up to 25 g/s for HC/HFO refrigerants and up to 40 g/s for HCFC/HFC refrigerants
- Charging capacity: according to local limitations
- High charging accuracy
- Built-in vacuum pump (20,5 m³/h)
- **Available with integrated Refrigerant transfer Pump equipped with volumetric metering system (/B option)**
- Interactive Color Touchscreen
- Data Collection Application over TCP/IP protocol
- Up to 1000 programmable work cycles
- Microprocessor controlled
- Built in according to the European Machinery Directive, Safety standards for Potential Dangerous Areas



Main using applications

- Domestic refrigerators and deep freezers
- Professional Refrigeration
- Refrigerated show cases and cooling cabinets
- Deep Cooling for Medical Products
- Automatic food and beverage dispenser machines
- Ice-cream machines
- Dehumidifiers
- Domestic air conditioners

The equipments for vacuum and HC-R600a and R290 charge are designed and assembled for the construction of areas of assembly of refrigeration units to be charged with flammable gases according to the indications of the ATEX Directive 99/92 / EC. As the working areas are classified as hazardous, these equipments must be installed within an enclosure and ventilated able to withstand any refrigerant leaks. The electric and hydraulic components of the vacuum and charging station have been chosen by FT to comply with ATEX for the classification of areas at high risk of explosion and thus make the whole system suitable for working with flammable liquids.





Technical Characteristics

	iROCKALL HC UNO	iROCKALL HC DUE
Injectors/Type	1/PLUVIO HC	2/PLUVIO HC
Injectors Length	3,5 m, different on demand	
Refrigerant metering system	1	2
Charging capacity*	max 10 kg for HFC	
Charging speed	up to 25 g/s (HC refrigerants) up to 40 g/s (HFC refrigerants)	
Charging accuracy	±0,5 g (<100 g HC), ±0,5 % (>100 g HC) ±1,0 g (<200 g HFC), ±0,5 % (>200 g HFC)	
Injector connection	¼" Hansen F (ISO 7241B)	
Connection to the refrigerant supply line	¼" Hansen M (ISO 7241B)	
Vacuum pump capacity	20,5 m ³ /h	
Number of programmable working cycles	1000	
Control Unit	TS690	
Working temperature	5 ÷ 45 °C	
Compressed air supply	6 ÷ 7 bar not lubricated	
Requested Refrigerant supply	Pressurized, in liquid phase	
Power Supply	400 V @ 50 Hz – 3ph+GND	
Power consumption	0,6 kW, with 20,5 m ³ /h vacuum pump	
Dimensions (LxWxH)	600x 850 x 1430 mm	
Weight	170 kg	

* the maximum quantity is settled according to the local limitations

Optional features and devices

Light and Acoustic Alarm
Injector MFILL for High production lines
Refrigerant dosing system with Massic Coriolis flowmeter
30,2 m ³ /h Vacuum pump
Automatic working cycle selection performed by Bar code reader
Remote printer

