

Vacuum and charging unit

Vacuum

iRockall

Characteristics

Compact and light-weight

Charging capacity: up to 10 kg

Charge

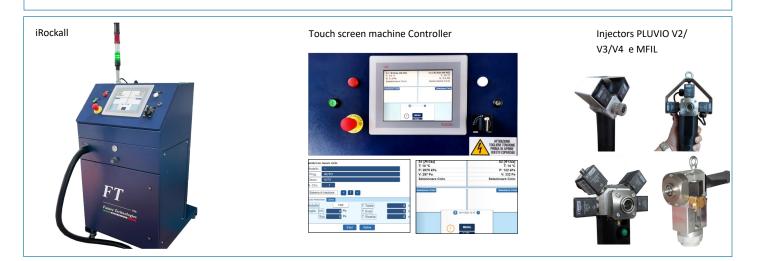
Vacuum and Refrigerant Charging Unit for medium productivity

iRockall is a modular evacuation and charging station Unit for HFC and HCFC refrigerants.

iRockall is ideal for medium/high throughput production lines of domestic and commercial refrigerators/freezers, air conditioners, heat pumps, liquid coolers where high amounts of refrigerant need to be charged. The unit can be supplied up to four different refrigerant.

Charging speed: up to 10 g/s with heating belt

- High charging accuracy: 0,5% of the charged amount
- Digital refrigerant metering system
- Available with integrated Refrigerant transfer Pump equipped with volumetric metering system (/B option)
- Built-in vacuum pump (17 m³/h @ 50 Hz, different on request)
- Interactive Colour 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 CE marked



Vacuum and Charging Unit iRockall

- Professional Refrigeration
- Refrigerated show cases and cooling cabinets
- Automatic food and beverage dispenser machines
- Refrigerating units for transportation
- Ice-cream machines
- Dehumidifiers
- Centralized Conditioning stations and refrigerators

- Electrical cabinet coolers
- Domestic air conditioners
- Refrigerators and air conditioners for boats or caravans
- IT coolers
- Compressed air driers
- Condensing units

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iRockall Technical Characteristics		Company Profile
Injectors/Type	PLUVIO	
Injector length	3,5 m	
Refrigerant metering systems	1 2	ing units
Charging capacity	up to 100 kg	
Charging speed	up to 35 g/s	
Charging accuracy	< 200 g: ±1 g	
	> 200 g: ±0,5%	HC Refrigerants handling systems
Injector connection	¼" Hansen F (ISO 7241B)	
Refrigerant supply connection	¼" Hansen M (ISO 7241B)	
Refrigerants	HFC, HCFC	
Working compressed air	6÷7 bar not lubricated	
On-board alarms	3 light alarms (green/white/red) on column	
Programmable work cycles	Up to 1000	
Nominal Vacuum pump rate	17 m³/h	
Control unit	TS690	
Working temperature	5 °C 45 °C	
Power Supply	400 V @ 50 Hz – 3ph + GND	
Dimensions (L x W x H)	850 x 600 x 1400 mm	Pre
Weight	~130 kg	
Ontional fact	tures and devices	Pressure test units leak detectors

Optional features and devices

HS version with extra charging speed up to 90 g/s

Up to four different refrigerant dosing system (UNO/DUE/TRE/QUATTRO)

Heating Belt

Only Vacuum Heads with 1/4" Hansen or 1/4" SAE Schrader connections

On Board RTP kit including suction line, protection filter, 3 l accumulator

Additional vacuum-only Injector Head

Injector extension Length

Injector with 1/4" SAE Auto connector

Injector with 1/4" Schrader connector

Injector with 3/8" Hansen connector

Automatic working cycle selection performed by bar code reader

Remote \Printer

* FT software department develops customized software on request

Preliminary evacuation

Electrical and functional test

Ultrasonic tube sealers

IPCS & IPCS PLUS



Vacuum and charging unit

iRockall-B

Charge Vacuum

Vacuum and Refrigerant Charging Unit for medium productivity

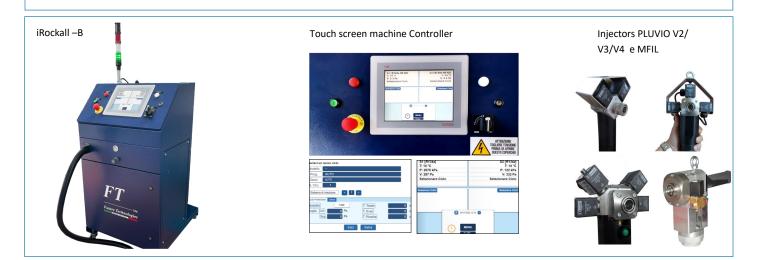
iRockall-B is a modular evacuation and charging station Unit for HFC and HCFC refrigerants.

iRockall-B is ideal for <u>medium throughput pro-</u><u>duction lines</u> of domestic and commercial refrigerators/freezers, air conditioners, heat pumps, liquid coolers where <u>small amount</u> of refrigerant need to be charged. The unit can be supplied up to four different refrigerant.

Characteristics

- Compact and light-weight
- Charging capacity: up to 10 kg
- Charging speed: up to 10 g/s with RTP on board

- High charging accuracy: 0,5% of the charged amount
- Digital refrigerant metering system
- Integrated Refrigerant transfer Pump equipped with volumetric metering system
- Built-in vacuum pump (17 m³/h @ 50 Hz, different on request)
- Interactive Colour 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 CE marked



Vacuum and Charging Unit iRockall-B

- Professional Refrigeration
- Refrigerated show cases and cooling cabinets
- Automatic food and beverage dispenser machines
- Refrigerating units for transportation
- Ice-cream machines
- Dehumidifiers
- Centralized Conditioning stations and refrigerators

- Electrical cabinet coolers
- Domestic air conditioners
- Refrigerators and air conditioners for boats or caravans
- IT coolers
- Compressed air driers
- Condensing units

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Future	Technologies

iRockall-B Technical Characteristics			Company Profile
Injectors/Type	PLUVIO		Vacua
Injector length	3,5 m		ing units
Refrigerant metering systems	1	2	
Charging capacity	up to 100 kg		
Charging speed	up to 15 g/s		HC Refri
Charging accuracy	< 200 g: ±1 g		HC Refrigerants handling systems
	> 200 g: ±1 g		.
Injector connection	¼" Hansen F (ISO 7241B)		Spee
Refrigerant supply connection	¼" Hansen M (ISO 7241B)		Special Units
Refrigerants	HFC, HCFC		i vi
Working compressed air	6÷7 bar not lubricated		Vacu
On-board alarms	3 light alarms (green/white/red) on column		Vacuum and Charg- ing Injectors
Programmable work cycles	Up to 1000		d Charg
Nominal Vacuum pump rate	17 m ³ /h		
Control unit	TS690		Refrigerant transfer pump
Working temperature	5 °C 45 °C		erant trar pump
Power Supply	400 V @ 50 Hz – 3ph + GND		ısfer
Dimensions (L x W x H)	850 x 600 x 1400 mm		Pre
Weight	~130 kg		Pressure test units leak detectors

Optional features and devices

Up to four different refrigerant dosing system (UNO-B/DUE-B/TRE-B/QUATTRO-B)

Heating Belt

Additional vacuum-only Injector Head

Injector extension Length

Injector with 1/4" SAE Auto connector

Injector with 1/4" Schrader connector

Injector with 3/8" Hansen connector

Automatic working cycle selection performed by bar code reader

Printer

* FT software department develops customized software on request

Preliminary evacuation

Electrical and functional test



Vacuum and charging unit

iRockall - M

Vacuum

Vacuum and Refrigerant Charging Unit with mass flow meter

iRockall -M is a modular evacuation and charging station Unit for HFC and HCFC refrigerants.

Charge

iRockall-M is ideal for medium/high throughput production lines of domestic and commercial refrigerators/freezers, air conditioners, heat pumps, liquid coolers where high amounts of refrigerant need to be charged. The unit can be supplied up to four different refrigerant.

Characteristics

- Compact and light-weight
- Charging capacity: up to 100 kg
- Charging speed: up to 50 g/s
- High charging accuracy: 0,5% of the charged amount

- Digital refrigerant mass metering system
- Available with integrated Refrigerant transfer Pump
- Built-in vacuum pump (17 m³/h @ 50 Hz, different on request)
- Interactive Colour 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 CE marked
- standards CE marked



Touch screen machine Controller



Injectors PLUVIO V4



Vacuum and Charging Unit *iRockall-M*

- Domestic refrigerators and deep freezers
- Professional Refrigeration
- Refrigerated show cases and cooling cabinets
- Automatic food and beverage dispenser machines
- Refrigerating units for transportation
- Ice-cream machines
- Dehumidifiers
- Big Chillers and centralized air conditioning stations

- Industrial refrigeration
- Electrical cabinet coolers
- Domestic air conditioners
- Car, bus, truck, tractors air conditioners
- Refrigerators and air conditioners for boats or caravans
- IT cooler
- Compressed air driers
- Condensing units

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Future	Technologies

iRockall-M Technical Characteristics			Company Profile
Injectors/Type	PLUVIO		Vacu
Injector length	3,5 m		vacuum and charg- ing units
Refrigerant metering systems	1		s
Charging capacity	Up to 100 kg		
Charging speed	Up to 130 g/s (260 g/s on HS Version)	HC Refrigerants handling systems	
Charging accuracy	< 200 g: ±1 g		igerants ; system
	> 200 g: ±0,5%		<u>,</u> ,
Injector connection	¼" Hansen F (ISO 7241B)		Spe
Refrigerant supply connection	¼" Hansen M (ISO 7241B)		Special Units
Working compressed air	6 ÷ 7 bar - filtered - not lubricated		5
On-board alarms	3 light alarms (green/white/red) on column		Vac
Programmable work cycles	Up to 1000		Vacuum and Charg- ing Injectors
Nominal Vacuum pump rate	17 m ³ /h		d Charg ctors
Control unit	TS690		
Working temperature	5 °C 45 °C		Refrigerant transfer pump
Power Supply	400 V @ 50 Hz – 3ph + GND		erant trai pump
Dimensions (L x W x H)	850 x 600 x 1400 mm	ansfer	
Weight	~150 kg		Pre
			Pressure test units leak detectors

Optional	features and	devices

HS version with extra charging speed up to 150 g/s $\,$

Up to four different refrigerant dosing system (UNO-M/DUE-M/TRE-M/QUATTRO-M)

Additional light and acoustic alarm

Injector with 3/8" Hansen connector

Injector Length extension

Injector with 1/4" SAE Auto connector

Injector with 1/4" Schrader connector

Additional vacuum-only Injector Head

Automatic working cycle selection performed by bar code reader

Printer

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Preliminary evacuation

Electrical and functional test

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