

# Vacuum and charging unit

**iRockall**

Charge

Vacuum

*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.

## Characteristics

- Compact and light-weight
- Charging capacity: up to 10 kg
- 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 m<sup>3</sup>/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

iRockall



Touch screen machine Controller



Injectors PLUVIO V2/  
V3/V4 e MFIL



## 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

iRockall Technical Characteristics	
Injectors/Type	PLUVIO
Injector length	3,5 m
Refrigerant metering systems	1 <span style="float: right;">2</span>
Charging capacity	up to 100 kg
Charging speed	up to 35 g/s
Charging accuracy	< 200 g: ±1 g > 200 g: ±0,5%
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 m <sup>3</sup> /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
Weight	~130 kg

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

Company Profile

Vacuum and Charging units

HC Refrigerants handling systems

Special Units

Vacuum and Charging Injectors

Refrigerant transfer pump

Pressure test units leak detectors

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 medium throughput production lines of domestic and commercial refrigerators/freezers, air conditioners, heat pumps, liquid coolers where small amount 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 m<sup>3</sup>/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

iRockall -B



Touch screen machine Controller



Injectors PLUVIO V2/ V3/V4 e MFIL



## 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

iRockall-B Technical Characteristics	
Injectors/Type	PLUVIO
Injector length	3,5 m
Refrigerant metering systems	1 <span style="float: right;">2</span>
Charging capacity	up to 100 kg
Charging speed	up to 15 g/s
Charging accuracy	< 200 g: ±1 g > 200 g: ±1 g
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 m <sup>3</sup> /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
Weight	~130 kg

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

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Company Profile

Vacuum and Charging units

HC Refrigerants handling systems

Special Units

Vacuum and Charging Injectors

Refrigerant transfer pump

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Ultrasonic tube sealers

IPCS & IPCS PLUS

# Vacuum and charging unit

## iRockall - M

Charge

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.

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 m<sup>3</sup>/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

iRockall - M



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

iRockall-M Technical Characteristics	
Injectors/Type	PLUVIO
Injector length	3,5 m
Refrigerant metering systems	1
Charging capacity	Up to 100 kg
Charging speed	Up to 130 g/s (260 g/s on HS Version)
Charging accuracy	< 200 g: ±1 g > 200 g: ±0,5%
Injector connection	¼" Hansen F (ISO 7241B)
Refrigerant supply connection	¼" Hansen M (ISO 7241B)
Working compressed air	6 ÷ 7 bar - filtered - not lubricated
On-board alarms	3 light alarms (green/white/red) on column
Programmable work cycles	Up to 1000
Nominal Vacuum pump rate	17 m <sup>3</sup> /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
Weight	~150 kg

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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Company Profile

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HC Refrigerants handling systems

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