

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 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

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 2
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 ³ /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 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

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 2
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 ³ /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

* 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-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 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

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 ³ /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	

* 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

真空和冷媒充注装置

iRockall

充注

真空

用于中等生产力的真空和制冷剂充注装置

iRockall是用于HFC和HCFC制冷剂的模块化排空和充注站装置。

iRockall非常适合需要充注大量制冷剂的家用和商用冰箱/冰柜、空调、热泵、液体冷却器的中/高通量生产线。该装置最多可提供四种不同的制冷剂。

特性

- 小巧轻便
- 充注容量：最多10公斤
- 充注速度：使用加热皮带时最高可达10 g/s
- 高充注精度：充注量的0.5%
- 数字制冷剂计量系统

- 提供配备容积计量系统的集成式制冷剂输送泵（/B选项）
- 内置真空泵（50 Hz下为17 m³/h，可应要求而有所不同）
- 交互式彩色触摸屏
- 基于TCP/IP协议的数据收集应用程序
- 高达1000个可设置工作循环
- 受控微处理器
- 构造符合欧洲机械指令，安全标准CE标志

iRockall



触摸屏机控制器



PLUVIO V2/V3/V4和MFIL注射器



真空和冷媒充注装置 iRockall

- 专业制冷
- 冷藏展示柜和冷藏柜
- 自动食品和饮料销售机
- 运输用制冷装置
- 冰淇淋机
- 除湿机
- 中央空调站和冰箱
- 电气柜冷却器
- 家用空调
- 船舶或大篷车的冰箱和空调
- IT冷却器
- 压缩空气干燥机
- 冷凝装置

iRockall技术特征	
注射器/类型	PLUVIO
注射器长度	3.5米
制冷剂计量系统	1 2
充注容量	高达100 kg
充注速度	高达35 g/s
充注精度	< 200 g: ±1 g > 200 g: ±0.5%
注射器连接	1/4" Hansen F (ISO 7241B)
制冷剂供应连接	1/4" Hansen M (ISO 7241B)
制冷剂	HFC、HCFC
工作压缩空气	6 - 7 bar未润滑
机载报警	柱子上有3个灯光报警 (绿色/白色/红色)
可设置工作循环数	高达1000个
额定真空泵速率	17 m ³ /h
控制装置	TS690
工作温度	5 °C..45 °C
电源	50 Hz时400 V - 3ph + GND
尺寸 (长x宽x高)	850 x 600 x 1400 mm
重量	~130 kg

可选功能和设备	
HS版本, 额外充注速度高达90 g/s	
多达四种不同的制冷剂加药系统 (UNO/DUE/TRE/QUATTRO)	
加热皮带	
仅1/4 " Hansen或1/4" SAE Schrader连接的真空头	
机载RTP套件包括吸入管路、保护过滤器、3 L蓄能器	
附加的纯真空注射头	
注射器延伸长度	
带1/4 " SAE自动连接器的注射器	
带1/4 " Schrader连接器的注射器	
带3/8 " Hansen连接器的注射器	
由条形码读取器执行的自动工作循环选择	
远程¥打印机	

* FT软件部门根据要求开发定制软件

公司简介
真空和冷媒充注装置
R134a制冷剂处理系统
特殊装置
真空和冷媒注射器
制冷剂输送泵
压力测试单元检测
初步排空
电气功能测试
超声波封口机
TPS和PSS Pallets

真空和冷媒充注装置

iRockall-B

充注

真空

用于中等生产力的真空和制冷剂充注装置

iRockall-B是用于HFC和HCFC制冷剂的模块化排空和充注站单元。

iRockall-B非常适合需要充入少量制冷剂的家 用和商用冰箱/冰柜、空调、热泵、液体冷却器的中等通量生产线。该装置最多可提供四种不同的制冷剂。

特性

- 小巧轻便
- 充注容量：最多10公斤
- 充注速度：高达10 g/s，含机载RTP
- 高充注精度：充注量的0.5%

- 数字制冷剂计量系统
- 配备容积计量系统的集成式制冷剂输送泵
- 内置真空泵（50 Hz下为17 m³/h，可应要求而有所不同）
- 交互式彩色触摸屏
- 基于TCP/IP协议的数据收集应用程序
- 高达1000个可设置工作循环
- 受控微处理器
- 构造符合欧洲机械指令，安全标准CE标志

iRockall -B



触摸屏机控制器



PLUVIO V2/V3/V4和MFIL注射器



真空和冷媒充注装置 iRockall

- 专业制冷
- 冷藏展示柜和冷藏柜
- 自动食品和饮料销售机
- 运输用制冷装置
- 冰淇淋机
- 除湿机
- 中央空调站和冰箱
- 电气柜冷却器
- 家用空调
- 船舶或大篷车的冰箱和空调
- IT冷却器
- 压缩空气干燥机
- 冷凝装置

iRockall技术特征	
注射器/类型	PLUVIO
注射器长度	3.5米
制冷剂计量系统	1 2
充注容量	高达100 kg
充注速度	高达15 g/s
充注精度	< 200 g: ±1 g > 200 g: ±1 g
注射器连接	1/4" Hansen F (ISO 7241B)
制冷剂供应连接	1/4" Hansen M (ISO 7241B)
制冷剂	HFC、HCFC
工作压缩空气	6 - 7 bar未润滑
机载报警	柱子上有3个灯光报警 (绿色/白色/红色)
可设置工作循环数	高达1000个
额定真空泵速率	17 m ³ /h
控制装置	TS690
工作温度	5 °C..45 °C
电源	50 Hz时400 V - 3ph + GND
尺寸 (长x宽x高)	850 x 600 x 1400 mm
重量	~130 kg

可选功能和设备
多达四种不同的制冷剂加药系统 (UNO-B/DUE-B/TRE-B/QUATTRO-B)
加热皮带
附加的纯真空注射头
注射器延伸长度
带1/4 " SAE自动连接器的注射器
带1/4 " Schrader连接器的注射器
带3/8 " Hansen连接器的注射器
由条形码读取器执行的自动工作循环选择
打印机

* FT软件部门根据要求开发定制软件

公司简介

真空和冷媒充注装置

制冷剂处理系统

特殊装置

真空和充注注射器

制冷剂输送泵

压力测试单元检漏仪

初步排空

电气功能测试

超声波密封机

TPSS和IPSS PDUIS

真空和冷媒充注装置

iRockall — 充注 真空 M

带质量流量计的真空和制冷剂充注装置

iRockall-M是用于HFC和HCFC制冷剂的模块化排空和充注站单元。

iRockall-M非常适合需要充注大量制冷剂的家用和商用冰箱/冰柜、空调、热泵、液体冷却器的中/高通量生产线。该装置最多可提供四种不同的制冷剂。

特性

- 小巧轻便
- 充注容量：高达100 kg
- 充注速度：高达50 g/s
- 高充注精度：充注量的0.5%
- 数字制冷剂质量计量系统
- 提供集成式制冷剂输送泵

- 内置真空泵（50 Hz下为17 m³/h，可应要求而有所不同）
- 交互式彩色触摸屏
- 基于TCP/IP协议的数据收集应用程序
- 高达1000个可设置工作循环
- 受控微处理器
- 构造符合欧洲机械指令，安全标准CE标志
- 标有CE的标准

iRockall - M



触摸屏机控制器



PLUVIO V4注射器



真空和冷媒充注装置 iRockall-M

- 家用冰箱和深冷柜
- 专业制冷
- 冷藏展示柜和冷藏柜
- 自动食品和饮料销售机
- 运输用制冷装置
- 冰淇淋机
- 除湿机
- 大型冷水机组和中央空调站
- 工业制冷
- 电气柜冷却器
- 家用空调
- 汽车、巴士、卡车、拖拉机空调
- 船舶或大篷车的冰箱和空调
- IT冷却器

iRockall-M技术特性	
注射器/类型	PLUVIO
注射器长度	3.5米
制冷剂计量系统	1
充注容量	高达100公斤
充注速度	高达130 g/s (HS版本为260 g/s)
充注精度	< 200 g: ±1 g > 200 g: ±0.5%
注射器连接	1/4" Hansen F (ISO 7241B)
制冷剂供应连接	1/4" Hansen M (ISO 7241B)
工作压缩空气	6-7Bar - 过滤 - 未润滑
机载报警	柱子上有3个灯光报警 (绿色/白色/红色)
可设置工作循环数	高达1000个
额定真空泵速率	17 m³/h
控制装置	TS690
工作温度	5 °C..45 °C
电源	50 Hz时400 V - 3ph + GND
尺寸 (长x宽x高)	850 x 600 x 1400 mm
重量	~150 kg

可选功能和设备	
HS版本, 额外充注速度高达150 g/s	
多达四种不同的制冷剂加药系统 (UNO-M/DUE-M/TRE-M/QUATTRO-M)	
附加的灯光和声音警报	
带3/8" Hansen连接器的注射器	
注射器长度延长	
带1/4" SAE自动连接器的注射器	
带1/4" Schrader连接器的注射器	
附加的纯真空注射头	
由条形码读取器执行的自动工作循环选择	
打印机	

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公司简介
真空和冷媒充注装置
制冷剂处理系统
特殊装置
真空和充注注射器
制冷剂输送泵
压力测试单元检漏仪
初步排空
电气和功能测试
超声波管封口机
TPSS和IPSS PDUIS