

# vacuum/pressurization/charge for A2L/A3 refrigerants

**iFuji-HC**

Charge

Vacuum

Pressurization

Step  
Pressurization

Charging  
Oil

Leak test

Barcode

*All-In-One Evacuating Pressurization and Refrigerant Charging Unit*

**iFuji-HC** is designed to fulfil the highest standards required in the processes of vacuum pressurizing and refrigerant charge.

**iFuji-HC** is equipped with an electronic control of the latest generation, high computing capacity and memory, and is managed by a smart operating system and offers easy interaction for the user.

**iFuji-HC** communicates with the User facility network and is an integral part of the production process. It has its own standard communications interfaces and software suitable to be connected to company networks to control and export the reports of the performed works directly to an external device. This also allows to integrate other digital devices ( such as a Leak detector ) directly to the machine thus speeding up and integrating Vacuum

formation, Leak detection and Charging process in a single cycle executed in complete safety.

Thanks to its smart connectivity, **iFuji-HC** is ready for tele-assistance from the mother company, FT srl, enabling significant cost and time savings in critical post-sale situations.

iFuji HC



Touch screen machine Controller



Injectors PLUVIO V3



## iFuji HC Characteristics

- The smart electronic control of iFuji allows to integrate multiple processes in a single cycle program:
- Vacuum and relevant Test with vacuum decay
- Tracer Gas or Helium + Nitrogen automatic mixture pressurizing with Pressure Decay and Leak Detection point-to-point leak search ( data displayed on the unit controller )
- Refrigerant charging
- General report release IT coolers



<b>iFuji-HC</b>	
Injectors/Type	PLUVIO V3 ¼" PLUVIO V1 ¼" ( only Pressurization and Vacuum)
Injector length	3,5 m, Different length is available on request
Refrigerant metering systems	1
Charging capacity	310 g for HC* / 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)
Mixture capacity	Helium and Nitrogen, with two independent pressurizing channels
Injector connection	¼" Hansen F (ISO 7241B)
Refrigerant supply connection	¼" Hansen M (ISO 7241B)
Programmable work cycles	Up to 1000
Nominal Vacuum pump rate	20,5 m <sup>3</sup> /h
Control unit	TS690
Working temperature	5 °C .. 45 °C
Compressed air supply	6 ÷ 7 bar not lubricated
Refrigerant delivery	Pressurized in liquid phase
Power Supply	400 V @ 50 Hz – 3ph + GND
Power Consumption	0,7 kW with 20,5 m <sup>3</sup> /h vacuum pump
Dimensions (L x W x H)	850 x 600 x 1400mm
Weight	~160 kg

\* The maximum quantity is settled according to the local limitations

### Optional features and devices

Light and Acoustic Alarm
30,3 m <sup>3</sup> /h Vacuum Pump with Oil Mist filter
PLUVIO Injector length on request
Automatic working cycle selection performed by bar code reader
Only vacuum head Injector 1/4" Hansen female or 1/4" Schrader female
Inficon Family Leak detector function integrated
Available Glycol/Oil dosing system

\* 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/pressurization/charge for A1 refrigerant

iFuji HC-B	
Injectors/Type	PLUVIO V3 ¼" PLUVIO V1 ¼" ( only Pressurization and Vacuum)
Injector length	3,5 m, Different length is available on request
Refrigerant metering systems	1
Charging capacity	310 g for HC* / 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)
Mixture capacity	Helium and Nitrogen, with two independent pressurizing channels
Injector connection	¼" Hansen F (ISO 7241B)
Refrigerant supply connection	¼" Hansen M (ISO 7241B)
Programmable work cycles	Up to 1000
Nominal Vacuum pump rate	20,5 m <sup>3</sup> /h
Control unit	TS690
Working temperature	5 °C .. 45 °C
Compressed air supply	6 ÷ 7 bar not lubricated
Refrigerant delivery	Pressurized in liquid phase
Power Supply	400 V @ 50 Hz – 3ph + GND
Power Consumption	0,7 kW with 20,5 m <sup>3</sup> /h vacuum pump
Dimensions (L x W x H)	850 x 600 x 1400mm
Weight	~160 kg

## Optional features and devices

Up to four different refrigerant dosing system (HC1-B/HC2-B/HC3-B/HC4-B)

Light and Acoustic Alarm

30,3 m<sup>3</sup>/h Vacuum Pump with Oil Mist filter

PLUVIO Injector length on request

Automatic working cycle selection performed by bar code reader

Only vacuum head Injector 1/4" Hansen female or 1/4" Schrader female

Inficon Family Leak detector functions integrated

Available Glycol/Oil dosing system



<b>iFuji HC-M</b>	
Injectors/Type	PLUVIO V3 ¼" PLUVIO V1 ¼" ( only Pressurization and Vacuum)
Injector length	3,5 m, Different length is available on request
Refrigerant metering systems	1
Charging capacity	310 g for HC* / 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)
Mixture capacity	Helium and Nitrogen, with two independent pressurizing channels
Injector connection	¼" Hansen F (ISO 7241B)
Refrigerant supply connection	¼" Hansen M (ISO 7241B)
Programmable work cycles	Up to 1000
Nominal Vacuum pump rate	20,5 m <sup>3</sup> /h
Control unit	TS690
Working temperature	5 °C .. 45 °C
Compressed air supply	6 ÷ 7 bar not lubricated
Refrigerant delivery	Pressurized in liquid phase
Power Supply	400 V @ 50 Hz – 3ph + GND
Power Consumption	0,7 kW with 20,5 m <sup>3</sup> /h vacuum pump
Dimensions (L x W x H)	850 x 600 x 1400mm
Weight	~160 kg

Optional features and devices	
Up to four different refrigerant dosing system (HC1-M/HC2-M/HC3-M/HC4-M)	
Light and Acoustic Alarm	
30,3 m <sup>3</sup> /h Vacuum Pump with Oil Mist filter	
PLUVIO Injector length on request	
Automatic working cycle selection performed by bar code reader	
Only vacuum head Injector 1/4" Hansen female or 1/4" Schrader female	
Inficon Family Leak detector functions integrated	
Available Glycol/Oil dosing system	

- Company Profile
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- HC Refrigerants handling systems
- Special Units
- Vacuum and Charging Injectors
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- Pressure test units leak detectors
- Preliminary evacuation
- Electrical and functional test
- Ultrasonic tube sealers
- IPCS & IPCS PLUS