

Vacuum and charging unit

iFuji

All-In-One Evacuating Pressurization and Refrigerant Charging Unit

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

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



* For this kind of products FT can deliver an ATEX Execution of the machine to be integrated with the related monitoring system and gas detection sensors. The most commonly used fluids to create refrigerant mixtures are Ethane and Ethylene.

iFuji



Touch screen machine Controller



Injectors PLUVIO V3



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

iFuji	iFuji - Uno	iFuji- DUE
Injectors/Type	1/PLUVIO V3	2/PLUVIO V3
Injector length	3,5 m, Different length is available on request	
Refrigerant metering systems	1	2
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 stadiums	
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 ³ /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 ³ /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 ³ /h Vacuum Pump with Oil Mist filter EMF20
PLUVIO Injector length on request
Automatic working cycle selection performed by bar code reader
Vacuum head Injector 1/4" Hansen
Inficon Family Leak detector function integrated
Available third and fourth processing line

* FT software department develops customized software on request