

eCo ESPRIT Mk3

Refrigerant Filling Machine



JAVAC's eCo ESPRIT Mk3 is the latest release refrigerant charging unit designed for charging refrigeration equipment in production line situations, from a refrigerant cylinder at pressures ranging from 7 to 30 bar. The latest design offers various improvements based on industry feedback and requirements.

Features and Improvements

Designed on a new open frame platform, the latest JAVAC Esprit Mk3 not only has a modern look, but has functionality and serviceability in mind. All components are readily accessible, easy to service and above all, supported in Australia by JAVAC. The Esprit Mk3 has been designed to exceed customer needs and can be customised to the specific needs of each customer.

The new JAVAC LCD Microprocessor features a menu driven touch screen interface which includes instructions, indicators and various options which are available at each phase of the charging process. User selected input can be via barcode (option), job number entry (up to 500), manual or auto repeat. Each charge has variable evacuation time, final pressure point, leak back set point, charge and charge accuracy plus a host of user selectable fine tuning options.

A high accuracy digital scale and platform suitable for a maximum of 150 Kg monitors the charge at every stage. Refrigerant is stored in a standard cylinder which is band heated to maintain dispatch pressure. This cylinder can either be replaced, or if necessary, filled from a bulk supply when using the bulk filling option.

Evacuation is performed by a JAVAC high vacuum pump with anti suck back/mist filter and solenoid operated high vacuum isolation valve. An integrated active high vacuum gauge with 100% switching over the entire range monitors evacuation to within 1%.

Leak testing occurs over the entire range, plus to the chosen end point. In addition, a pressure rise test at the end of the evacuation is performed automatically.

As standard, the Esprit Mk3 is supplied with twin approx 2.5m stainless steel hose connections; both perform evacuation, whereas only one performs the refrigerant charge. The user simply connects the charge hose to the desired HP or LP port. The connection at the end of each hose is manual via either a Hansen, compression or schraeder type quick release coupling one set is included as standard. (Many options are available and we are pleased to modify the connection points to suit your needs).

Optionally; and for increased accuracy ~ 5gram, the Esprit Mk3 can be fitted with single point evacuation & filling pistol/s. In this case, the control valves for vacuum and refrigeration are integrated into the pistol/s. The Aluminium pistol is fitted with electronic remote control and connected via a 40mm tube which houses stainless steel braided high-pressure hoses for vacuum and refrigerant supply. The pistol is fitted with a manual Hansen, compression or schraeder type coupling for single point connection.

As a further option dual pistols can be installed with pneumatically operated compression couplings.

The Esprit is supplied with service hoses and fittings for pre-conditioning or refrigerant conversion.

Modern Design



Front Panel Detail



Designed and Manufactured
in Australia.



Vacuum and Refrigeration Process Technology
1300 786 771 – www.javac.com.au