



Dual Refrigerant Supply and Charging Machine with High Pressure Burst And Pressure Decay Leak Test

VTech's Dual Refrigerant Supply and Charging Machine, combined with a High Pressure Burst and Pressure Decay Leak Test option, is an ideal choice for air conditioning and refrigeration manufacturing companies who are expanding, and require multiple refrigerants for their products. This portable machine supplies refrigerant from 100 pound cylinders for two charging systems. In addition, the same machine performs an automatic high pressure burst and pressure decay test on the unit, before the automatic evacuation, pressure rise test and refrigerant charging operations.



FEATURES

- * Provides an automatic burst and pressure decay leak test on refrigeration products prior to the refrigerant charging operations.
 - * Two refrigerant types are available at all times for the charging cycle.
 - * Mounted on casters for transportation to various production lines
 - * Two 100 pound cylinders of refrigerant and a large cylinder of nitrogen mounted on the rear of the machine, provide the gases required.
 - * Reliable charging with VTech's unique refrigerant flow transducer, designed without bearings and using optic sensing, is unaffected by electromagnetic noise (electrical interference) and mechanical bearing failure.
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- * Consistent charging, with "real time" temperature compensation.
 - * Simple Automatic operation, not operator dependent, with touch screen menu selection for the various products. All parameters are stored in the PLC's program automatically from the menu screen to eliminate operator error.

Technical Specifications

Leak test:

The machine has a separate high pressure system to perform the UL burst and pressure decay leak test. Pressures are monitored to ± 0.01 psig. 40 Micron filters are used for improved reliability.

Evacuation:

Evacuation is performed on both the high and low sides of the refrigeration circuit. Reinforced $\frac{1}{2}$ " ID vacuum hoses are connected to the unit and to the machine's vacuum manifold. Precision pressure and vacuum transducers, and electrically operated valves control the evacuation and pressure rise tests. The pressure rise tests are performed in the 50 - 100 Micron range. The machine is equipped with a heavy duty, dual stage, 7 cfm vacuum pump. (optional 11.0 cfm)

Charging:

The refrigerant charging pressure is produced by heating the supply tanks. The charge heads and flow transducers have a charge rate of 1.8 oz. Per second. (6.75 pounds per minute) The charging range is 2.0 oz. To 100 pounds. With temperature compensation the charging accuracy is

VTech provides complete turn-key Leak Test and Refrigerant Charging Systems for your production line requirements. In addition, we can provide conveyors, fixtures, leak test fittings and other products to support your process.

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$\pm 0.5\%$. The compact Refrigerant/Vacuum Heads weight less than two pounds. The parameters for the various refrigerants are stored in the PLC memory.

Controls:

The operator controls consist of a color touch screen for messaging and data entry. Manual operators are used for repetitive operations. A Programmable Logic Controller (PLC), controls the operations of the machine.

Options Bar code scanning.
Ethernet data exchange.
Modem Communications.

Construction:

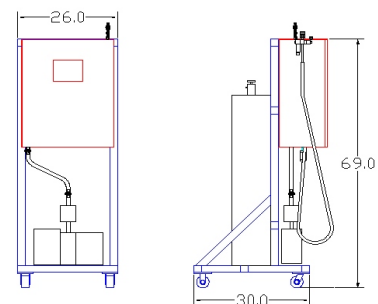
Square tubular steel frame with vacuum pump mounted on the frame base. NEMA 12 enclosure.

Dimensions: 26" x 68" x 30".

Weight: 200 Lbs

Power requirement:

220 v, 10A / 115v, 20A Single Phase



DR<2-0402

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