DataFill EcoCharge
Hydrocarbon Charging Systems

The use of R-290, R-600A, HFO-1234YF, R-32, and other Hydrocarbon refrigerants has steadily expanded as manufacturers move to meet the demands of international markets and changing environmental regulations. Serv-I-Quip's ETL Certified, Class 1, Division 2, Group D Charging System offers the most complete solution to customers charging these flammable refrigerants. Unlike other systems, our system meets all the requirements for use in an explosion proof area, providing the simplest and most flexible solution to a hydrocarbon refrigerant filling process.

Dependable, extremely accurate, and equipped with our DataServ process control and quality monitoring software, this system has all the capabilities of our standard systems. Serv-I-Quip's ETL Certification also extends to multiple refrigerant fill applications, providing a turnkey solution for manufacturers intending to implement mixed product assembly lines. Capable of charging Fluorocarbon or Hydrocarbon refrigerants, this system can serve as a bridge in the changeover process to Hydrocarbon refrigerants.

The new DataServ 3.0 Data Acquisition and Automated Process Control Software serves as a full featured HMI and provides web based remote access to system configuration, bar code and model configuration, production data, calibration, password management, PC and PLC programming updates, and troubleshooting. A new Dashboard can display multiple DataServ systems and key production values. Production analysis reports and an email notification system that delivers process alerts, notifications, or system events are newly available features.

Product Detail

STANDARD FEATURES:

- ETL Certified and stamped for Class 1, Division 2, Group D hazardous locations.
- Meets the following Standards:
  - UL 508A • UL 698A • UL 913 • UL 1203
  - ISA 12.12.01
- Accommodates R-290, R-600A, HFO-1234YF, and other Hydrocarbon based refrigerants
- Separate Electrical Control Module and Fluid Control Module
- Fluid Control Module includes integrated supply system with pump, filter, and accumulator
- Dual supply cylinder capacity
- Explosion proof flow meter, transducers, solenoid valves, vacuum transmitter, vacuum pump, bar code scanner, charging gun, and pumping system
- 100% U.L. Certified components
- Standard evacuation, vacuum check and charge cycle
- 1 oz. / sec. charging rate at ±1 gram accuracy
- ETL Certified for multi refrigerant systems
- Electrical Control Module with DataServ web based data acquisition and process control software

- 20" LCD PC Monitor
- Allen Bradley PLC machine control with Allen Bradley Panelview Touchscreen
- Certified to meet all U.S. hazardous location requirements.

PRODUCT OPTIONS:

- Single or multiple refrigerant charging
- Oil and refrigerant charging
- Process cycle options include:
  - Refrigerant charge
  - Vacuum check and charge
  - Evacuate, vacuum check and charge

DIMENSIONS:
Electrical Control Module
80″H x 42″W x 34″D

Fluid Control Module
60″H x 32″W x 29″D

WEIGHT:
700 lbs.

UTILITY REQUIREMENTS:
120V, 20A electric / 80 psi air

TYPICAL DATA RECORDED:

- Product Model Number
- Product Serial Number
- Product Description
- Process Start Date
- Process Start Time
- Process End Date
- Process End Time
- Process Completed (True or False)
- Process Rejected (True or False)
- Operator Number
- Refrigerant Unit of Measure
- Refrigerant Quantity Charged
- Refrigerant Type Charged
- Final Evac. Time
- Final Evac. Level
- Vacuum Level at Start of Vacuum Check
- Product Vacuum Level at End of Vacuum Check
- Vacuum Check Time
- Total Cycle Time
- Completion or Error Code
- Reject Data
- Total Units Processed to Date
- Total Completed Units
- Total Refrigerant Quantity Charged.