

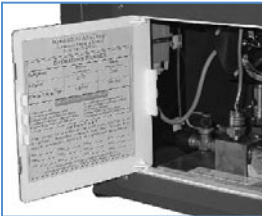


A I R S E R C O

AUTOMATIC PROCESSING EQUIPMENT ACCUCHARGE AC-21 REFRIGERANT SYSTEM



Standard 10 ft. charge hose has quick coupler and lighted valve state indicator



The AC-21 is calibrated for up to (2) refrigerants as shown on the access door



The AccuCharge AC-21 is designed for continuous production line use. Compatible with all refrigerants in use today, the AC-21 combines fast refrigerant charging with high accuracy. Compact, yet rugged, the AC-21 is a dependable and versatile system that is easy to purchase, easy to maintain, and easy to use.

- Affordable
- Automatic
- Simple

SYSTEM OVERVIEW

The AC-21 AccuCharge Refrigerant Charging System is designed especially for production line use. The System's low maintenance design combined with fast and accurate charging make the AC-21 the best value available from a company with more than 70 years of experience in building affordable refrigerant processing equipment. The AC-21 uses the pressure from the refrigerant supply to maintain a consistent flow of liquid through the AC-21. The system precisely measures the volume of liquid refrigerant as it flows through the AC-21. The measurement is converted by the AC-21's computer to dispense refrigerant in the users choice of ounces, pounds, or grams. Refrigerant is processed at a rate of approximately four (4) pounds per minute with repeatability of +/- .10 oz., or 1%. The menu driven control allows the operator to choose the refrigerant, the desired amount of charge size, and any temperature or pressure variables that may be unique to the users work environment. A security lockout switch can restrict access to some of the charging parameters. The AC-21 is generally calibrated and tested for two refrigerants with a third refrigerant that can be added and or modified in the field. An optional liquid level column interfaces within the AC-21 computer to monitor refrigerant conditions and provide visual and audible alarms for out-of-spec conditions.

FEATURES AND BENEFITS

Principle of Operation. The AC-21 uses the pressure from the refrigerant supply to precisely measure the volume of liquid refrigerant processed through the unit. An on-board computer converts the volume measured into the desired unit of weight such as ounces, grams, or pounds.

Easy to Use. The control panel features a menu driven sixteen character keypad to enter all refrigerant charge parameters. The function keys which include a security lockout switch are used to choose refrigerant, unit of measure, and charge size.

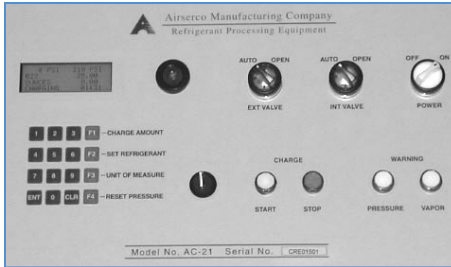
High Accuracy. Precision repeatability with typical charge accuracy of +/- .10 of an ounce, or +/-1% of the charge amount.

Versatile. Compatible with most refrigerants in use today. Refrigerant changeover is as easy as selecting the desired refrigerant from the on-screen menu after purging the system. The AC-21 can measure in grams, ounces, or pounds by selecting from the menu screen. Any charge size from 3 oz. to 30 lbs. or more is entered in the same manner through the keypad.



A I R S E R C O

AUTOMATIC PROCESSING EQUIPMENT ACCUCHARGE AC-21 REFRIGERANT SYSTEM



The AC-21 Operator Control Panel



Optional Liquid
Level Column

Safe. Built in pressure transducer and LCD display keeps the operator informed. Internal pressure relief valve protects operator and system components in case of excessive refrigerant pressures. The optional refrigerant level column provides additional over-pressure protection as well as an interface to the AC-21 computer to monitor refrigerant conditions.

Dependable. State of the art electronics require no maintenance. The AC-21 does not require pumps, hydraulics, or pneumatics. Fewer moving parts means years of trouble free service.

Quality Control. Built in data capture function can be programmed to print in real time or maintain records including ID number of the product processed with all refrigerant and charging data for later download to ensure consistent product performance. System can store up to 200 records for download to PC.

Unique Features. External 115/VAC outlet can be used with the AC-21 pressure control system to manage the operation of Airserco refrigerant cylinder heaters.

SPECIFICATIONS

Dimensions: Cabinet measures 22" W X 16.5" D X 15.5" H. Weight is approximately 70 pounds. Standard charge hose is 10 feet long. Can be "docked" on any Airserco AV Series Evacuation System.

Construction: Heavy sheet metal cabinet with powder coat finish. All internal parts and valves are either stainless steel or solid brass.

Refrigerant charge size: From 3.0 ounces AVDP to virtually unlimited size. Refrigerant can be dispensed in ounces, pounds, or grams.

Refrigerant charging rate: Approximately 1-1.2 ounces per second (4-5 pounds per minute).

Dispensing method: Pressure differential driven by refrigerant supply pressure.

Refrigerant Compatibility. Compatible with most refrigerants in use today. Initially set up, calibrated, and tested for up to two (2) refrigerants. Refrigerants can be added in the field via the keypad function keys.

Operator interface: Sixteen key digital keypad allows entry of charge amount, refrigerant changes and refrigerant settings. Lighted LCD display shows all processing data. Security lockout switch can limit access to refrigerant charge parameters.

Refrigerant supply requirements: Pure liquid refrigerant free from oil and contaminants supplied at constant temperature and pressure. Typical application would use refrigerant temperature of 105° F, + or - three (3) degrees. Optional refrigerant level column interfaces to system CPU to monitor refrigerant characteristics and provide visual and audible alarms to announce out-of-spec conditions.

Electrical requirements: 115/VAC standard 15 amp service. 230/VAC also available.

Safety Features. Enclosed internal valving with built in relief valve. Liquid level column provides additional relief valve as well as pressure warning alarm.

Special features: External 115/VAC outlet managed by the AC-21 adjustable pressure control can be used with Airserco cylinder heater (350W max.). Internal 25 micron refrigerant filter with replaceable cartridge.

Communications/printer: Two DB9 ports to connect serial printer and to download stored records to PC.

Recommended options: Liquid level column, external filter for high volume applications, automatic refrigerant cylinder heaters to fit most supply cylinders. Pedestal base with locking casters is also available. The AC-21 is calibrated for up two (2) refrigerants as shown on the access door. Standard 10 ft. charge hose has quick coupler and lighted valve state indicator.



AUTOMATIC PROCESSING EQUIPMENT ACCUCHARGE AC-21 REFRIGERANT SYSTEM

A I R S E R C O

AC-21 Ordering Information		
Product	Description	Order Code
AccuCharge	Base Unit – For refrigerant pressures below 300 PSI at 105° - includes 10 foot refrigerant charge hose, 115/VAC standard	AC-21 300
AccuCharge	Base Unit – For refrigerant pressures above 300 PSI at 105° - includes 10 foot refrigerant charge hose 115/VAC standard	AC-21 400
Optional Voltage	230/VAC	230VAC
Calibration	(2) Refrigerants calibrated for the AC-21	
Standard Refrigerant Options	R22, NU22,134a, 404C, 407C, 410A Specify (2) refrigerants e.g. R22 & 134a (Please inquire about refrigerants not listed above)	
Additional Refrigerant Calibration	R22, NU22,134A, 404C, 407C, 410A (Specify additional refrigerants to calibrate if necessary)	
Charge Hose	Optional Custom Hose Lengths: 15ft, 20ft, 25ft (Specify other sizes)	AC HOSE ASSE (specify length)
Fittings (Standard)	1/4" Double Shut Off Valves 3/8" Double Shut Off Valves (Additional charge hose fitting options available upon request)	9840 9850
Liquid Level Column	Interfaces within the AC-21 computer to monitor refrigerant conditions and provide visual and audible alarms for out-of-spec conditions	LC
Serialization and Printer Option	Unit is programmed to require the input of a products serial number (up to nine numeric characters) prior to initiating the charge cycle. With a printer connected, preset values and all processing data for the unit being processed will be printed during the charge cycle.	SP
Communications Program	This program allows a PC to collect data from the AC-21 AccuCharge.	COM
Refrigerant Cylinder Heaters	30/50 LB Cylinder 125/150 LB Cylinder 1/2 Ton Cylinder 1 Ton Cylinder (See catalog section – Refrigerant Cylinder Heaters for more details)	3054 4045M 5054 4054TH
External Line Filter	Filters contaminants in refrigerant	FILTER 6ILA