

LACO TECHNOLOGIES

HELIUM CHARGE SYSTEM

HCS

Automate your helium filling and leak test process with LACO Technologies' Helium Charge System (HCS). The Helium Charge System is a flexible controller that allows for charging, evacuation, proof testing, and decay testing of products for tracer gas leak testing. The standard controller can be configured for automated hard vacuum, HATS™, sniffing, and accumulation helium leak testing methods.



FEATURES

- Includes basic helium charging with part evacuation, air fill, and helium recovery options
- Comprehensive flow and pressure ranges available
- Fully automated testing with four helium leak testing methods: hard vacuum, HATS™, sniffing, and accumulation
- Complete part testing capabilities including system calibration with a calibrated leak standard
- Automated part clamping / sealing
- Up to 100 customized test recipes
- 5.7" color touchscreen
- Tooling, chambers, or software customization

SPECIFICATIONS

COMPONENT	DESCRIPTION
CONTROL SYSTEM	Micro controller with 5.7" color touchscreen and illuminated start/stop buttons
COMMUNICATION	Ethernet, RS232 remote control, optional bar code serial port
INTEGRATION METHODS	Fill only, hard vacuum, HATS™, sniffing, and accumulation
TEST PRESSURE	< atmosphere up to 3000 psig
PNEUMATICS	Compressed air required (70-120 psig)
DIMENSIONS	11" H x 16" W x 16" D with sloped front
MOUNTING	Table top box or system frame mount
ELECTRICAL	90-250 VAC, 50/60 Hz, 500 Watts, IEC C13 connection
CONTROL OPTIONS	Controller includes spare I/O (digital and analog) to provide customized solution

OPTIONS & ACCESSORIES

- Customizable to meet customer requirements
- Electronic regulators
- Flow / occlusion test
- Control power to evacuate pump
- Bar code reader and ticket printer

COMMUNICATION & DATA LOGGING

- Ethernet interface and remote control (RS232)
- Enter test ID data manually or via bar code
- Test summary log or live data stream to .csv file
- 8 GB of test data storage
- Retrieve data by SD card or Ethernet connection

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Helium Fill

- A = 0-15 PSIA Medium Flow
- B = 1-25 PSIG Medium Flow
- C = 2-125 PSIG Medium Flow
- D = 5-450 PSIG Medium Flow
- E = 5-1000 PSIG Medium Flow
- F = 25-3000 PSIG Medium Flow
- H = 0-15 PSIA High Flow
- J = 1-25 PSIG High Flow
- K = 2-125 PSIG High Flow
- L = 5-500 PSIG High Flow

PART NUMBER MATRIX

Prefix/
Controller

HCS-1AXXR

Manifold
1 = Single

Air Fill
X = None
A = 0-15 PSIA Med Flow
B = 1-25 PSIG Med Flow
C = 2-125 PSIG Med Flow
D = 5-450 PSIG Med Flow
E = 5-1000 PSIG Med Flow
F = 25-3000 PSIG Med Flow
H = 0-15 PSIA High Flow
J = 1-25 PSIG High Flow
K = 2-125 PSIG High Flow
L = 5-500 PSIG High Flow

Part Evacuation

- X = None
- V = ~75 Torr, Venturi
- P = <1 Torr, 2-Stage Pump

Options

- R = Helium Recovery Port
- C = Calibrated Leak Evacuation
- P = Control Power to Evacuate Pump
- F = Flow Test
- V = Deep Vacuum Testing/Gauge (Pirani)
- T = TCM (see below for details)
- H = HATS™ Controls
- L = Hard Vacuum Control
- P = 2 Part/Tooling Pneumatic Outputs

HATS™ is a patented (U.S. Pat. No. 7,905,132) helium leak test method for production leak testing which uses a permeable membrane to direct the leak to the mass spec while protecting it from contaminants. Contact us for more information.



TCM OPTION INCLUDES:

- Full integration with TitanTest™ helium leak detector
- Bar code reader and ticket printer
- Powerful and configurable data logging capabilities
- Ability to remotely monitor the TitanTest™ leak detector

HCS ACCESSORIES

DESCRIPTION	PART NUMBER
Barcode Reader for HCS	TCM-BC
Pressure Relief Valve to Customer Specified Pressure	Upon Request