Description

The 7149 is a vacuum pump for use with CalBenches and pressure calibration instruments. The pump is oil-less and features a shaded-pole, fan-cooled motor with thermal overload protection. The unit has dual pump heads that are connected in series for greater vacuum. It is an efficient and reliable vacuum source for testing applications.

When used with CalBench systems, the 7149-HCO option provides an ergonomic enclosure, and connection from pump to CalBench console. It provides a compact housing for the pump, designed to be situated at the rear lower section of the CalBench system. It decreases the standard noise of the pump to less than 30 dB so the pump is extremely quiet and not noticeable when running in the workshop environment. This is made possible by the sound proof materials used in the housing. Additionally, the unit is mounted on four anti-vibration feet and the vacuum pump is internally fitted with shock absorbing mounts.

For output connection, the 7149-HCO is fitted with a quick release port on the side of the enclosure, with hose supplied for connection to the rear of the CalBench console. For power, a mains cable connects directly from the enclosure to the CalBench console rear input power socket. This is internally wired to the 7082 module, then a switch dedicated to turning the vacuum pump on or off is accessible via the front panel.

Technical Specifications

**7149 Pump**

- Max vacuum: 950 mbar (28 in Hg)
- Free-air capacity: 0.85 cfm (24.0 L/min)
- Port size: 1/4” NPT (F), 3/8” hose barb on gauges
- Motor type: Permanent split capacitor
- Duty cycle: Continuous
- Max temperature: 38 °C (100 °F)
- Wetted parts: Aluminum stainless steel, NORDEL, NOMEX
- Noise level: Approx. 68 dB
- Dimensions: L 305 x W 140 x H 260 mm
- Power / Amps: 220 V AC, 50 Hz / 2 A
- Stages: Dual/Series

**7149-HCO: Housing & Connectivity Option for Vacuum Pump**

- Dimensions: W 400 x H 300 x D 210 mm
- Noise level: Below 30 dB
- Housing material / Colour: Sheet steel / RAL 7035
- Pressure connection: Quick release, hoses supplied
- Power: Configured via CalBench console input socket

Pump Features

- Max vacuum: 950 mbar (28 in Hg)
- Free-air capacity: 0.85 cfm (24.0 L/min)
- Shaded-pole fan-cooled motor
- Thermal overload switch
- Heads connected in series for greater vacuum
- Suitable for vacuum supply to TE CalBench

7149-HCO Housing and Connectivity Option for CalBench

- Fits in the lower rear sections of the CalBench
- Internal sound proofing and anti-vibration mounting feet
- Lockable case with key for access to 7149 pump when required
- RAL 7035 colour, matches CalBench framework
- Quick release port on side of housing, connects to rear of console
- On/off switch on 7082 CalBench mains control module

Ordering information

7149.......................................................... Electrical Vacuum Pump
7149-HCO................................. Housing & connectivity option for 7149 vacuum pump