

Technical Bulletin VAC Standard Accessories Nexus II Standard Glove Box System

Analyzer Assy, Oxygen: with sample pump, calibration and electrolytic fuel cell. Control System monitors and displays the glovebox levels from 1 PPM to 25% oxygen.

P/N VAC 105627

Analyzer Assy, Moisture: Aluminum oxide probe and NIST traceable calibration. Control System monitors and displays the glovebox levels to 1-PPM moisture (-80°C dew point).

P/N VAC 105628

Antechamber Control Assy, Auto, Pirani: Integrated into Nexus II Control System. Provides multiple pump down and refill capability with user selectable minimum vacuum setpoint

P/N VAC 105417

Antechamber Control, Purge: Integrated into Nexus II Control System. Provides ability to purge antechamber with inert gas if needed. For items that cannot withstand vacuum.

P/N VAC 105418

Antechamber Control Assy, Manual: with ball valves. Operator may control evacuation and refill rate for minimum process disturbance.

P/N VAC 100168

Cold Storage Assy: Refrigerator. Storage capabilities to -35°C. Mounted to glovebox on customer interface panel and provides immediate access from the inside of the glovebox. Separate condensing unit installed in the stand. Includes extension module to mount refrigerator outside of glove box for increased space savings. See System Configuration drawing for standard location. Other locations available call factory.

P/N VAC 100595 (110 VAC, 60 Hz)

P/N VAC 100583 (220 VAC, 50 Hz)

Cold Well: Stainless steel well, 6 ½" I.D. by 7 ½" deep. DEWAR is filled with LN₂ coolant for low temperature work in glovebox. See System Configuration drawing for standard location.

P/N VAC 019333

Cooler Assy, Inert Gas: Provides for cooling of the inert gas. 1500 BTU/Hr cooling capacity for Argon. 3000 BTU/Hr cooling capacity for N₂/HE/AIR. Evaporator and fan mount inside of the glovebox (internal model) on the glovebox ceiling. Includes skylight modification of glovebox. Available in left or right hand flows. Also available as external model for installation into external piping system. See System Configuration drawing for standard location. Higher capacity units available, call factory

P/N VAC 100169 (right hand flow -int.)

P/N VAC 019197 (external)

P/N VAC 100170 (left hand flow - int.)

Glove Port Cover: External glove port cover installs over each glove to secure glovebox during tests. Internal glove port cover is used to seal glove port while changing a glove.

P/N VAC 019281 (Ext. LEXAN)

P/N VAC 019282 (Internal)

P/N VAC 019281-G (Ext. Safety Glass)

Interface Assy, NPT: Welded feed thru penetrations into a glovebox. Available in 1/4", 3/8, 1/2", 3/4", 1" and 1-1/2" NPT. Also Vacuum feedthru with 1/4" valves on interior and exterior of glove box. See System Configuration drawing for standard locations.

Size	Part Number	Size	Part Number
1/4	VAC 100171	3/4	VAC 100174
3/8	VAC 100172	1	VAC 100175
1/2	VAC 100173	1½	VAC 100176
1/4 with valves on exterior and interior		VAC 100594	

Interface Assy, BNC: Feed thru electrically connects instruments into a glovebox with BNC connector. See System Configuration drawing for standard locations.

P/N VAC 100627

Interface Assy, 8-Pin Octal: Feed thru electrically connects instruments into a glovebox. See System Configuration drawing for standard locations.

P/N VAC 014114

Interface Assy, 28-Pin or 57-Pin Electrical: Feed thru electrically connects instruments into a glovebox. See System Configuration drawing for standard locations.

P/N VAC 100177, 28 Pin

P/N VAC 101716, 57 Pin

Interface Assy, RJ-45 or 25-Pin D, Data: Electrically connects instruments into a glovebox. See System Configuration drawing for standard locations.

P/N VAC 100592, RJ-45

P/N VAC 100593, 25 Pin, D

Interface Assy, 20 amp: 5-way Binding Posts feedthru for electrical signals. Use for electrochemistry. See System Configuration drawing for standard locations.

P/N VAC 100626 (pair)

Interface Assy, 500 amp: Feed thru for continuous high current and allows electrical connections into glove box See System Configuration drawing for standard locations.

P/N VAC 019331

Interface Assy, LN2: Conducts liquid nitrogen into the glovebox. Hex shaped, 300 series stainless steel feed thru. See System Configuration drawing for standard locations.

P/N VAC 100621

Interface Assy, TIG Welding: Feed thru set includes separate water inlet and outlet, high current feedthru and ground lug.

P/N VAC 100629

Interlock Assy, Nexus: Door lock control for antechamber controls with door status sensor/ switch and lock.

P/N VAC 100620

Light Assy, Top: Skylight type fluorescent light mounted on top of glovebox. Includes top skylight LEXAN panel installed into glovebox
P/N VAC 100624

Pressure Relief Bubbler: Controls over and/or under pressure in glovebox. Adjustable setpoints. See System Configuration drawing for standard location.
P/N VAC 016974 (single-negative relief)
P/N VAC 016974-1 (single-positive relief) **P/N VAC 102084 (dual)**

Quick Release Front Panel Fasteners: Allows fast removal of Lexan front panel to insert/remove materials or tools that will not fit through antechambers.
P/N VAC 900029

Regulator Kit, Bottle Gas: Recommended for all systems using bottle source gas. Kit consists of two dual stage regulators, fittings and tubing.
P/N VAC 014599

Shelves, Lazy Susan: Single pole stand with three stainless steel shelves. Each shelf rotates separately, free standing and shipped loose
P/N VAC 103344

Shelves, Telescopic: One set of three (3) shelves on slides. Shelves are 11" deep and 24" wide and extend 10". In place of standard adjustable shelves
P/N VAC 023030-01

Static Eliminator: Factory mounted in the glovebox above LEXAN window for the best possible protection when working with powders. Includes a high voltage power supply mounted externally. Available in 36" for single length, 60" for extra length and 84" for double length.

P/N VAC 100630 (40"- 110 VAC, 60 Hz) **P/N VAC 100746 (40"- 220 VAC, 50 Hz)**

P/N VAC 100631 (60"- 110 VAC, 60 Hz) **P/N VAC 100747 (60"- 220 VAC, 50 Hz)**

P/N VAC 100632 (80"- 110 VAC, 60 Hz) **P/N VAC 100748 (80"- 220 VAC, 50 Hz)**

Trap Assy, Internal, Solvent: for solvent removal from atmosphere. Factory installed in place of glovebox inlet filter. Call factory for available chemicals (4-lbs. capacity.) See System Configuration drawing for standard locations.
P/N VAC 100625

Trap Assy, External, Solvent: for solvent removal from atmosphere, includes isolation and bypass valves. Factory installed in-line with purifier. Call factory for available chemicals (30-lbs. capacity.) See System Configuration drawing for standard locations.
P/N VAC 023915

Vacuum Oven Assy, 200°C: Single wall stainless steel cylinder, 15" dia X 24" long. Unit is complete with internally mounted INCONEL sheathed radiant heaters; 10" wide X 9" high X 23" long, three-shelf black anodized muffle; 1" evacuation valve; 1/4" refill valve; compound Bordon Tube gage; and insulation blanket. Temperature range to 200°C. Vertical acting doors, two "J" thermocouples provided. See System Configuration drawing for standard location. Includes oven controller; see below for description. 6.9-CFM pump included with each oven, see options for other choices.

P/N VAC 100596

Vacuum Oven Assy, 600°C: Water-jacketed stainless steel cylinder, 15" dia X 24" long. Unit is complete with internally mounted INCONEL sheathed radiant heaters and stainless steel reflectors; 8-3/4" wide X 24" long fixed stainless steel shelf; 1" evacuation and 1/4" refill valve; compound Bordon Tube gauge. Temperature range to 600°C. Vertical acting doors, two "J" thermocouples provided. See System Configuration drawing for standard location. Includes oven controller; see below for description. 6.9-CFM pump included with each oven, see options for other choices.

P/N VAC 100597

Vacuum Oven Controller includes thermocouple vacuum gauge; digital timer; visual/audio alarms, automatic shutdown and separate over temperature controller. The unit is mounted in a 19" relay rack above either the 200°C or 600°C oven assy with appropriate temperature control range.

Vacuum Pump Options

Type	Part Number	Note
Vacuum Pump Assy, 6.9 CFM	VAC 100618	Included in STD System Price
Vacuum Pump Assy, 10 CFM	VAC 100619	See quote for price
Dry Scroll Vacuum Pump, 8.8 CFM	VAC 400006	See quote for price
Edwards pumps include EMF10 outlet mist filter and gravity oil return kit		

Video Microscope System Assy: capable of 100X to 300X power magnifications. Includes: High resolution color video camera, High resolution 14" color monitor, 0.7X to 4.3X Macro zoom lens with 12mm fine focus, Bifurcated light pipe with 150w Variable control fiber optic light source and including light pipe extension, Microscope stand with black and white reversible stage plate, 2X Short adapter, C-Mount coupler, Converter plate for B&L focusing arm, BNC Video connecting cable, feedthru, coupling and adapted to glovebox with viewing window and shelf. See System Configuration drawing for standard locations.

P/N VAC 100612 (100/300X)

P/N VAC 101445 (50/150X)

Workstation Ionizer, No Fan: Excellent static control for working with an analytical balance or powders. Free standing and shipped loose

P/N VAC 101373, 110 Volt, 60 Hz

P/N VAC 101467, 220 Volt, 50 Hz

Workstation Ionizer, with Fan: for coverage of greater work area. Free standing and shipped loose

P/N VAC 400259, 110 Volt, 50 Hz

P/N VAC 400260, 220 Volt, 50 Hz

Window Assy, Glass, 1/2": 1/2" Safety Glass, Original purchase add-in option. Per Panel

P/N VAC 100623