



HIGH VACUUM CHAMBER GROUP

HIGH PERFORMANCE CHAMBERS FOR DEMANDING APPLICATIONS.



Because an effective high vacuum chamber is the essential building block of any vacuum system, we offer an unparalleled range of high vacuum chambers featuring vacuum levels down to 10^{-9} torr. With both standard models and custom systems available, our applications engineers will ensure that your chamber, its options, and accessories work together for optimal performance in your application.



TO ORDER:
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APPLICATIONS

PLASMA PROCESSING
AND RESEARCH

THIN FILM COATING

ATMOSPHERIC AND
SPACE SIMULATION

GAS AND MATERIALS
ANALYSIS

MATERIALS RESEARCH
AND PROCESSING

VACUUM METALLURGY
AND JOINING
TECHNIQUES

PRODUCT AND
ENVIRONMENTAL
TESTING

LAB APPLICATIONS

SERIES VHE/HHE

Our VHE and HHE Series offer an economical choice with a vacuum rating down to 10^{-6} torr. Available in both vertical and horizontal cylindrical models, these stainless steel chambers include three standard ports and L gasket seals. Standard sizes: HHE: 12" to 30" OD; VHE: 8" to 24" OD.



SERIES HHS

Our competitively priced, high-performance Series HHS horizontal cylindrical vacuum chambers feature all-stainless steel construction and hinged door. Rated to 10^{-8} torr. Standard diameters from 12" to 24" OD.



SERIES HU

When extreme cleanliness and ultimate vacuum performance are required, our Series HU vacuum chambers feature all-stainless steel construction and metal gasket flanges and options for either o-ring or metal gasket door seals. Rated to 10^{-9} torr. Standard sizes range from 12" to 26" OD.



SERIES CHS

Ideal for applications requiring high-volume and internal shelving, our Series CHS cube chambers feature all-stainless steel construction and o-ring seals. Rated to 10^{-7} torr. Standard sizes: 20" x 20", 30" x 30", and 40" x 40". from 12" to 24" OD.



CONTACT OUR APPLICATION ENGINEERS TO DISCUSS WHICH CHAMBER IS RIGHT FOR YOUR APPLICATION.

HIGH VACUUM CHAMBER GROUP

HIGH VACUUM CHAMBER STANDARD FEATURES

SERIES	PART NUMBER	VACUUM LEVEL	SIZE	MATERIAL	SEAL	CONFIGURATION	PORTS
SERIES VHE	LVC0810NW25-VHE	10 ⁻⁶ torr	8" OD x 10" H	stainless steel	Buna L gasket	vertical cylindrical	evacuate, vent & gauge
	LVC1212NW25-VHE	10 ⁻⁶ torr	12" OD x 12" H	stainless steel	Buna L gasket	vertical cylindrical	evacuate, vent & gauge
	LVC1218NW25-VHE	10 ⁻⁶ torr	12" OD x 18" H	stainless steel	Buna L gasket	vertical cylindrical	evacuate, vent & gauge
	LVC1812NW25-VHE	10 ⁻⁶ torr	18" OD x 12" H	stainless steel	Buna L gasket	vertical cylindrical	evacuate, vent & gauge
	LVC1820NW25-VHE	10 ⁻⁶ torr	18" OD x 20" H	stainless steel	Buna L gasket	vertical cylindrical	evacuate, vent & gauge
	LVC2416NW25-VHE	10 ⁻⁶ torr	24" OD x 16" H	stainless steel	Buna L gasket	vertical cylindrical	evacuate, vent & gauge
	LVC2424NW40-VHE	10 ⁻⁶ torr	24" OD x 24" H	stainless steel	Buna L gasket	vertical cylindrical	evacuate, vent & gauge
SERIES HHE	LVC1218NW25-HHE	10 ⁻⁶ torr	12" OD x 18" L	stainless steel	Buna L gasket	horizontal cylindrical	evacuate, vent & gauge
	LVC1820NW25-HHE	10 ⁻⁶ torr	18" OD x 20" L	stainless steel	Buna L gasket	horizontal cylindrical	evacuate, vent & gauge
	LVC2430NW25-HHE	10 ⁻⁶ torr	24" OD x 30" L	stainless steel	Buna L gasket	horizontal cylindrical	evacuate, vent & gauge
	LVC3036NW25-HHE	10 ⁻⁶ torr	30" OD x 36" L	stainless steel	Buna L gasket	horizontal cylindrical	evacuate, vent & gauge
SERIES HHS	LVC1220-HHS	10 ⁻⁸ torr	12" OD x 20" L	stainless steel	o-ring seal	horizontal cylindrical	customer specified
	LVC1620-HHS	10 ⁻⁸ torr	16" OD x 20" L	stainless steel	o-ring	horizontal cylindrical	customer specified
	LVC2024-HHS	10 ⁻⁸ torr	20" OD x 24" L	stainless steel	o-ring	horizontal cylindrical	customer specified
	LVC2432-HHS	10 ⁻⁸ torr	24" OD x 32" L	stainless steel	o-ring	horizontal cylindrical	customer specified
SERIES CHS	LVC2020-CHS	10 ⁻⁷ torr	20" W x 20" H	stainless steel	o-ring	cube	customer specified
	LVC3030-CHS	10 ⁻⁷ torr	30" W x 30" H	stainless steel	o-ring	cube	customer specified
	LVC4040-CHS	10 ⁻⁷ torr	40" W x 40" H	stainless steel	o-ring	cube	customer specified
SERIES HU	LVC1220-HU	10 ⁻⁹ torr	12" OD x 20" L	stainless steel	metal gasket	horizontal cylindrical	customer specified
	LVC1620-HU	10 ⁻⁹ torr	16" OD x 20" L	stainless steel	metal gasket	horizontal cylindrical	customer specified
	LVC2024-HU	10 ⁻⁹ torr	20" OD x 24" L	stainless steel	metal gasket	horizontal cylindrical	customer specified
	LVC2624-HU	10 ⁻⁹ torr	26" OD x 24" L	stainless steel	metal gasket	horizontal cylindrical	customer specified

HIGH VACUUM CHAMBER OPTIONS

SIZE	LIDS & DOORS	PORTS	LID/DOOR TYPE	VIEWPORTS	SHELVES	SEAL GASKETS
Customize your chamber dimensions to accommodate your application	Select glass (for better optical properties and high temperatures) or stainless steel (for better chemical and temperature resistance)	Add extra ports for feedthroughs and other accessories	Choose a hinged lid option for more convenient operation	Add a viewport for easier viewing	Select from standard shelf brackets and shelves for more convenience holding small parts	Contact us for seal gasket options

HIGH VACUUM CHAMBER ACCESSORIES

CONTROLLERS	VACUUM PUMPS	VACUUM GAUGES	VALVES	FEEDTHROUGHS	CARTS	LIGHTING & HEAT	TRAPS
Manually control your vacuum level or select a fully automated Vacuum Process Sequence Controller	Select from a wide range of dry and oil-free vacuum pumps	Select from a range of digital vacuum gauges with and without process control outputs	Select from a range of specialty valves for your vacuum system	Vacuum feedthroughs for mechanical, fluid, temperature, instrumentation, and electrical power applications	Complete your system with a choice of vacuum chamber carts	Custom internal lighting or heaters for your vacuum chamber	Our wide range of vacuum traps provide protection to your pumps for a variety of applications.

HIGH VACUUM CHAMBER APPLICATIONS

PLASMA PROCESSING AND RESEARCH	THIN FILM COATING	ATMOSPHERIC AND SPACE SIMULATION	GAS AND MATERIALS ANALYSIS	MATERIALS RESEARCH AND PROCESSING	VACUUM METALLURGY & JOINING	PRODUCT AND ENVIRONMENTAL TESTING	LAB APPLICATIONS
Plasma applications for both production and R&D	PVD, CVD, etc.	Weather, aircraft, military, space, or product testing applications	Gas and materials analysis such as Mass Spectroscopy.	Magnetic Materials, Ferroelectrics/ Advanced Ceramics, Thin Films: Metals, Electronic Materials, Diamond-Like Carbon, Bioceramics Surface Morphology, and others	Vacuum metallurgy and joining, such as brazing and welding	Thermal, Electrical, Controlled Atmosphere	Laboratory or scientific research and experiments