

Малые ионные насосы, большие ионные насосы Gamma Vacuum

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GAMMA UHV PUMPS AND ACCESSORIES



Capture pumping technologies create high vacuum (HV) and ultra-high vacuum (UHV) environments for a variety of applications, ranging from portable mass spectrometers to large scale particle accelerators. They can create the highest possible vacuum at an economical cost.

Edwards offers a range of Ion Pumps, Titanium Sublimation Pumps, Non-Evaporable Getter Pumps and accessories exclusively through Gamma Vacuum.



PRODUCT FEATURES

MECHANICAL VIBRATION ELIMINATED

Capture pumps have no moving parts. Vibration from moving parts and electrical noise is eliminated.

HIGH RADIATION TOLERANCE

Capture pumps are built with radiation tolerant materials in excess of 10^8 Gray. Connectors and cables are also built with radiation tolerant materials for years of continuous operation.

HIGH TEMPERATURE TOLERANCE

Without any special consideration, capture pumps can be baked to 250 °C. Removing the magnets allows for hotter bakes up to 450 °C. Long hot bakes are critical to every UHV system.

REGULAR MAINTENANCE ELIMINATED

Capture pumps require virtually no maintenance and avoid costly vacuum events because they are sealed from atmosphere, saving time, money and resources.

LOW INITIAL AND OPERATIONAL COSTS

Initial cost is typically less than comparable specifications of other types of vacuum pumps. They use minimal or no power for years of low cost operation.

Technical data: Smaller Pumps

	Units	Mini	3S	5S	10S	25S	45S	75S
Pumping speed	l/s	0.2	2 - 3	4 - 5	8 - 10	15 - 20	30 - 40	40 - 75
Port option								
Copper tube			CU					
DN16 (1.33") ⁽¹⁾		1V	1V, 1H or 1D					
DN40 (2.75") ⁽²⁾				2V	2H	2V, 2H or 2D		2V or 2D
DN63 (4.5") ⁽³⁾						4V or 4D		
DN100 (6") ⁽⁴⁾								6S or 62
Element choice								
TiTan CV (Diode)			•	•	•	•	•	•
TiTan DI (Noble Diode)		•	•	•	•	•	•	•
TiTan CVX (Diode XHV)						•	•	•
TiTan DIX (Noble Diode XHV)						•	•	•
TiTan TR (Triode)						•	•	•
Feedthrough choice								
MN Mini		•						
5K 5kV SHV			•	•				
SC 10kV SAFECONN				•	•	•	•	•
OP Perkin Elmer						•	•	•
OV Old Varian			•		•	•	•	•
VR Varian StarCell®						•	•	•
FI Fisher Interlock					•	•	•	•
Other data								
Internal heater option					•	•	•	•
Internal TSP/NEG option ⁽⁵⁾						•	•	•
Weight	kg (lbs)	0.35 (0.8)	0.45 (1.0)	2.3 (5)	6 (13)	9 (20)	16 (34)	22 (48)
Shipping weight	kg (lbs)	3.5 (7.7)	0.9 (2.0)	2.8 (6)	8 (17)	11 (24)	18 (39)	25 (55)
Ultimate pressure	mbar	<1 x 10 ⁻¹¹						
Starting pressure	mbar	<1 x 10 ⁻³						
Lifetime (hrs at 1 x 10 ⁻⁶ mbar)	hours	Diode/Noble Diode 50,000; Triode 80,000						
Operating bake temperature	°C	100	95	200	250			
Maximum bake temperature ⁽⁶⁾	°C	100	450					
Dimensions (L x W x D)	mm	38 x 38 x 51	138 x 41 x 50	106 x 85 x 81	200 x 153 x 79	202 x 125 x 130	209 x 251 x 130	277 x 242 x 130

1 - 1V = 1" perpendicular to feedthrough; 1H = 1" inline with feedthrough; 1D = 1" double ports (perpendicular and inline)

2 - 2V = 2" top port; 2H = 2" side port; 2D = 2" double ports (top and side)

3 - 4V = 4" top port; 4D = 4" top port and 2" side port

4 - 6S = single 6" port; 62 = 6" top port and 2" side port

5 - Extra side or bottom port required

6 - Magnets removed

Ordering information

Ion pumps and integrated TSP/NEG:

Ion pump	Element	Flange	Feedthrough	Heater	Integrated TSP/NEG
Mini 0.2l/s	CV Conventional diode	1V Perpendicular DN16	MN Mini	N None	N None
3S 3l/s	DI Noble diode	1H Inline DN16	5K 5kV SHV	1 110V	TSP TSP single filament
5S 5l/s	CX Diode XHV	1D Double DN16	SC 10kV SAFECONN	2 208-240V	N0 50l/s NEG (25/45/75)
10S 10l/s	DX Noble diode XHV	2V Vertical DN40	OP Perkin Elmer		N1 100l/s NEG (25/45/75)
25S 20l/s	TR Triode	2H Horizontal DN40	OV Old Varian		N2 200l/s NEG (45/75)
45S 40l/s		2D Double DN40	VR Varian StarCell®		N3 300l/s NEG (75)
75S 75l/s		4V Vertical DN63	FI Fisher Interlock		
		4D DN63/DN40			
		6S Single DN100			
		62 DN100/DN40			

Technical data: Larger Pumps

	Units	100L	200L	300L	400L	400LX	600L	600LX	800LX	1200LX
Pumping speed	l/s	80 - 100	160 - 200	240 - 300	320 - 400	320 - 400	480 - 600	480 - 600	640 - 800	960 - 1200
Port option										
DN100 (6") ⁽¹⁾		6S or 6D								
DN160 (8") ⁽²⁾		8S or 8D				8S, 8D or 8P	8S or 8D	8S, 8D or 8P	8S or 8D	
DN200 (10") ⁽³⁾							10S or 10D	10S, 10D or 10P	10S or 10D	
Element choice										
TiTan CV (Diode)		•	•	•	•	•	•	•	•	•
TiTan DI (Noble Diode)		•	•	•	•	•	•	•	•	•
TiTan CVX (Diode XHV)		•	•	•	•	•	•	•	•	•
TiTan DIX (Noble Diode XHV)		•	•	•	•	•	•	•	•	•
TiTan TR (Triode)		•	•	•	•	•	•	•	•	•
Feedthrough choice										
SC 10kV SAFECONN		•	•	•	•	•	•	•	•	•
OP Perkin Elmer		•	•	•	•	•	•	•	•	•
OV Old Varian		•	•	•	•	•	•	•	•	•
*VR Varian StarCell®		•	•	•	•	•	•	•	•	•
FI Fisher Interlock		•	•	•	•	•	•	•	•	•
Other data										
Internal heater option		•	•	•	•	•	•	•	•	•
Internal TSP/NEG option ⁽⁴⁾		•	•	•	•	•	•	•	•	•
Weight	kg (lbs)	29 (65)	50 (112)	66 (145)	67 (148)	95 (210)	103 (226)	122 (270)	127 (280)	206 (452)
Shipping weight	kg (lbs)	47 (105)	69 (152)	89 (195)	85 (188)	113 (250)	127 (280)	141 (310)	145 (320)	254 (560)
Ultimate pressure	mbar	<1 x 10 ⁻¹¹								
Starting pressure	mbar	<1 x 10 ⁻³								
Lifetime (hrs at 1 x 10 ⁻⁶ mbar)	hours	Diode/Noble Diode 50,000; Triode 80,000								
Operating bake temperature	°C	250								
Maximum bake temperature ⁽⁵⁾	°C	450								
Dimensions (L x W x D)	mm	326 x 128 x 252	325 x 413 x 233	325 x 413 x 337	325 x 413 x 413	537 x 413 x 233	325 x 513 x 513	537 x 413 x 336	537 x 413 x 413	650 x 513 x 513

1 - 6S = single 6" port; 6D = double 6" ports (top and bottom)

2 - 8S = single 8" port; 8D = double 8" ports (top and bottom); 8P = double 8" ports (top and side)

3 - 10S = single 10" port; 10D = double 10" ports (top and bottom); 10P = double 10" ports (top and side)

4 - Extra side or bottom port required

5 - Magnets removed

Ordering information

Ion pumps and integrated TSP/NEG:

Ion pump	Element	Flange	Feedthrough	Heater	Integrated TSP/NEG
100L 100l/s	CV Conventional diode	6S Single DN100	SC 10kV SAFECONN	N None	N None
200L 200l/s	DI Noble diode	6D 2x DN100 (top/bottom)	OP Perkin Elmer	1 110V	TC TSP & Cryoshroud (not 100L)
300L 300l/s	CX Diode XHV	8S Single DN160	OV Old Varian	2 208-240V	TA TSP & Ambient Shield
400L 400l/s	DX Noble diode XHV	8D 2x DN160 (top/bottom)	VR Varian StarCell®		NG 400l/s NEG
400LX 400l/s	TR Triode	8P 2x DN160 (top/side)	FI Fisher Interlock		
600L 600l/s		10S Single DN200			
600LX 600l/s		10D 2x DN200 (top/bottom)			
800LX 800l/s		10P 2x DN200 (top/side)			
1200LX 1200l/s					

*STARCELL® is a registered trademark of Agilent Technologies



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