



Specifications subject to change without notice (updated July2023)

Vindum VP-Series Pump Models	VP-3K Ambient VP-3K Extended Temp VP-3K High Temp	VP-6K Ambient VP-6K Extended Temp VP-6K High Temp	VP-12K Ambient VP-12K Extended Temp VP-12K High Temp	VP-20K Ambient VP-25K Ambient
Maximum Pressure Rating	3,500 psi (207 bar)	6,500 psi (413 bar)	12,000 psi (827 bar)	20,000 psi (1,379 bar) 25,000 psi (1,725 bar)
Minimum Flow Rate	0.0001 ml/min	0.00005 ml/min	0.00001 ml/min	0.00001 ml/min
Maximum Flow Rate	97 ml/min (0-2,000 psi)	54 ml/min (0-4,000 psi)	29 ml/min (0-7,500 psi)	12 ml/min (0-12,000 psi)
Flow rate & volume accuracy	+/- 0.1% of set point	+/- 0.1% of set point	+/- 0.1% of set point	+/- 0.1% of set point
Rate & volume repeatability	+/-0.1% of set point	+/-0.1% of set point	+/-0.1% of set point	+/-0.1% of set point
Displacement Resolution	0.0240 µl/step	0.0135 µl/step	0.0074 µl/step	0.0034 µl/step
Single Stroke Displacement, per cylinder (approx.)	40 ml	20 ml	10 ml	5 ml
Compression Ratio	5.4 : 1	4.5 : 1	3.7 : 1	3.8 : 1
Pressure Accuracy	+/- 0.1% of Full Scale	+/- 0.1% of Full Scale	+/- 0.1% of Full Scale	+/- 0.1% of Full Scale
Pressure Resolution	0.1 psi	0.1 psi	0.1 psi	0.1 psi
Capable of Vacuum Filling	Yes	Yes	Yes	Yes
Operating Environment	5°C - 40°C (41°F-104°F)	5°C - 40°C (41°F-104°F)	5°C - 40°C (41°F-104°F)	5°C - 40°C (41°F-104°F)
Operating Environment (EXT)	5°C - 40°C (41°F-104°F)	5°C - 40°C (41°F-104°F)	5°C - 40°C (41°F-104°F)	
Operating Environment (HT) (portion of pump inside oven)	5°C-160°C (41°F-320°F)	5°C-160°C (41°F-320°F)	5°C-160°C (41°F-320°F)	
Fluid Temp. (Ambient Pumps)	To 65°C (150°F)	To 65°C (150°F)	To 65°C (150°F)	To 65°C (150°F)
Fluid Temp (EXT Pumps)	To 120°C (250°F)	To 120°C (250°F)	To 120°C (250°F)	
Fluid Temp (HT Pumps)	To 160°C (320°F)	To 160°C (320°F)	To 160°C (320°F)	
Pump Dimensions (HxWxL) (excludes cables)	19 x 6 x 9 inches 19 x 6 x 9 inches 26 x 9 x 10 inches	19 x 6 x 9 inches 19 x 6 x 9 inches 26 x 9 x 10 inches	19 x 6 x 9 inches 19 x 6 x 9 inches 26 x 9 x 10 inches	19 x 6 x 9 inches
Fluid Connection Fittings	Autoclave Engineers SW250 Female (1/4" Speed-Bite)	Autoclave Engineers SW250 Female (1/4" Speed-Bite)	Autoclave Engineers W125 Female (1/8" Speed-Bite)	Autoclave Engineers F250C Female (1/4" High Pressure)
Safety Blowout Disk Port Connection (tubing connection to SBD assembly)	Autoclave Engineers W125 Female (1/8" Speed-Bite)	Autoclave Engineers W125 Female (1/8" Speed-Bite)	Autoclave Engineers W125 Female (1/8" Speed-Bite)	3/8" NPT Female
Power Supply Requirement	100-240VAC, 47-63 Hz	100-240VAC, 47-63 Hz	100-240VAC, 47-63 Hz	100-240VAC, 47-63 Hz