

Chemvac Pump Systems



6 Z - 101



12 Z - 301
23 Z - 301

Specifications

Ilmvac Model	6 Z - 101	12 Z - 301	23 Z - 301
Number of stages	2 + 2	2 + 2	2 + 2
Free Air Displacement			
m ³ /h(L/min)@50Hz	5.8(97)	11.0(183)	21.0(350)
cfm(L/min)@60Hz	3.9(110)	7.8(220)	14.8(420)
Ultimate Pressure, mbar(torr)			
partial	2x10 ⁻⁴ (0.00015)	1x10 ⁻⁴ (0.00013)	1x10 ⁻⁴ (0.00013)
total	2x10 ⁻³ (0.0015)	2x10 ⁻³ (0.0015)	2x10 ⁻³ (0.0015)
Max. IN/EX pressure, bar	1	1	1
Water v. tolerance, mbar(torr)	70(52.5)	80(60)	45(33.7)
Water vapor capacity, g/h	150	550	950
Oil Capacity, l(qt)	0.55(0.58)	1(1.06)	0.82(0.87)
IN / EX hose connector	DN 16 KF	DN 25 KF	DN 25 KF
Tubing Needed, I.D. mm(in.)	hose connector available	hose connector available	hose connector available
Intake(Exhaust) Thread NPT	-(-)	-(-)	-(-)
Sound level, dB(A)	50	50	50
Motor/P. Speed, rpm@50Hz(60Hz)	1440(1740)	1400(1680)	1400(1680)
Motor Power, watts(HP)	400(0.55)	900(1.23)	900(1.23)
Type of motor protection, IP	54	54	54
Weight, kg(lbs.)	25.5(56.2)	42.5(93.7)	46(101.4)
Overall Dimensions			
L cm(in.)	50(19.7)	59(23.3)	59(23.3)
W cm(in.)	33(13)	34.5(13.6)	34.5(13.6)
H cm(in.)	34(13.4)	42(16.4)	42(16.4)
Ship Weight, kg(lbs.)	30(66.2)	47(103.6)	50(110.3)
Shipping Carton Dimensions			
LxWxH cm(in.)	65x41x48 (25.6x16.2x18.9)	65x41x48 (25.6x16.2x18.9)	65x41x48 (25.6x16.2x18.9)

Ordering Information

100-120V/220-240V, 50/60Hz, 1 Ph ¹	----	----	----
230V, 50/60Hz, 1 Ph ²	109030	----	----
115V, 50/60Hz, 1 Ph ³	109030-01	----	----
115/230V, 50/60Hz, 1 Ph ¹	----	109031	109032
100V, 50/60Hz, 1 Ph ⁴	109030-03	109031-03	109032-03
230/400V, 50/60Hz, 3 Ph ⁵	----	----	----

Note:
Every pump is supplied with oil mist separator, solvent trap, dial vacuum gauge, vacuum pump oil (Labovac 10), centering ring and hinge clamp ring. Pump system is completely mounted, ready for use after oil filling.

Applications

Please see the pump selection reference chart on p. 1 for your specific needs.

- Freeze Dryer
- Vacuum Manifold/Schlenk Line
- Laboratory Applications with chemical and corrosive gases/vapors

Eliminate the harmful vapors that destroy your pump in the most demanding vacuum applications. The Chemvac Combination Pump draws a deep, high-flow vacuum – suitable for freeze dry applications – with a powerful Rotary Vane Pump. Harmful ingested fumes that would compromise the primary pump's oil are promptly degassed by Chemvac's secondary vacuum – a corrosion resistant PTFE diaphragm pump.

Accessories

Freeze Dryer Adapter Kits

All in one kit for connection to a freeze dryer.

Type	Size	CAT. No.
Kit 5	DN 16 KF	330033
Kit 6	DN 25 KF	330034



Adapter kits include hose connector, hinge clamp ring, centering ring and 1.5m vacuum hose.

Oil Filter

The Oil Filters are designed for quick and easy installation to all Ilmvac rotary vane / chemvac pump models. The mechanical oil-filter (OPF 40M) filters out dust and particulate from the oil. The chemical oil-filter (OPF 40C) adsorbs corrosive substances, reducing pump wear. An indicator shows when the oil filter element has to be replaced.

Type	Oil capacity	CAT. No.
OPF 40C	1.0 liter	700153-01
OPF 40M	0.5 liter	700153-02



Ordering information for Vacuum pump oil, please see p. 30.

Solvent Recovery Unit

For maximum environmentally friendly protection, a condenser is included to recover solvent vapors emitted by your Chemvac.



Chemvac 6Z - 101 sr (230V, 50/60Hz²)
CAT. No. 109030-04

Please contact your Welch-Ilmvac representative for further models.

Hose Connector

Type	CAT. No.	Type	CAT. No.
DN 16 KF – DN 12	701702	DN 25 KF – DN 12	710209
DN 16 KF – DN 20	701712-02	DN 25 KF – DN 20	701704

For more information, please see our vacuum components catalog.

Vacuum Pump Oils

Standard vacuum pump oil for chemvac pump systems is Labovac 10.

Type	CAT. No.
Labovac 10 – 1 Liter	800122



For advanced corrosion resistance the chemvac models can be supplied with PAO vacuum pump oil.



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Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

