

Standard Duty Dry WOB-L® Vacuum Pumps¹

Standard Duty, Oil-Free Pumps for

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CE



Specifications

Welch Model	Vacuum/Pressure Pumps				Standard Duty	
	2511	2522	2534	2546	2561	2567
Free Air Displacement						
cfm (l/min.)@60Hz	0.39(11)	0.76(22)	1.2(34)	1.6(45)	2.1(60)	3.5(100)
m ³ /hr (l/min.)@50Hz	0.55(9.2)	1.1(18)	1.7(28)	2.3(38)	3.0(50)	4.9(83)
Ultimate Pressure, torr(mbar)	219(292)	100(133)	70(93)	60(80)	5(6.7)	60(80)
Max Pressure PSIG(pascal)	33(3.3 x 10 ⁵)	100(10 ⁶)	50(5 x 10 ⁵)	100(10 ⁶)	---	---
Maximum Vacuum, in. Hg	21.3	26	27.2	27.6	29.8	27.6
Motor Horsepower(watts)	1/30(25)	1/8(93)	1/8(93)	1/4(190)	1/3(250)	1/3(250)
Tubing Needed, I.D. in.(mm)	3/16(5)	3/16(5)	3/16(5)	3/16(5)	1/4(7)	1/4(7)
Intake/Exhaust Thread NPT	3/16 in. Hose	1/4	1/4	1/4	1/4	1/4
Weight lbs.(kg)	5(2.3)	11.7(5.3)	11.7(5.3)	13.8(6.3)	16.5(7.5)	16.5(7.5)
Overall Dimensions						
L in.(cm)	7.6(19.4)	8.1(20.6)	8.1(20.6)	10(25.4)	17.3(43.9)	15.0(38.1)
W in.(cm)	4.5(11.4)	8.8(22.4)	8.8(22.4)	7.5(19.1)	6.5(16.5)	10(25.4)
H in.(cm)	7.5(19.1)	10(25.4)	10(25.4)	9(22.9)	10.5(26.7)	10(25.4)
Ship Weight, lbs.(kg)	6(2.7)	17(7.7)	17(7.7)	17(7.7)	24(10.9)	24(10.9)
Shipping Carton Dimensions						
L x W x H in.(cm)	11x7x8.3 (28x18x21)	15.3x12.3x12.7 (39x31x32)	15.3x12.3x12.7 (39x31x32)	15.3x12.3x12.7 (39x31x32)	21x12x15 (53x30x38)	21x12x15 (53x30x38)

Ordering Information^{1,2}

Wired for 115V, 60Hz, 1 Ph with N. American 115V Plug	2511B-01 ³	2522B-01 ⁴	2534B-01 ⁴	2546B-01 ⁴	2561B-50	2567B-50
Wired for 230V, 60Hz, 1 Ph with N. American 230V Plug	---	2522C-01 ⁴	2534C-01 ^{4,7}	2546C-01 ^{4,7}	---	---
Wired for 230V, 50Hz, 1 Ph ² with Cont. Euro.(Schuko) Plug	2511C-02 ³	2522C-02 ^{4,6}	2534C-02 ^{4,6,7}	2546C-02 ^{4,6,7}	2561C-50 ^{6,7}	2567C-50 ^{6,7}
Wired for 100V, 50/60Hz, 1 Ph with a plug	2511C-05 ^{3,5}	2522C-05 ^{4,5}	---	---	2561C-56	---

Notes:

1. All models are recommended for pumping vapors of aqueous solutions including buffers but not for acidic, basic or organic vapors or gases.
2. 50Hz units supplied with CE marking.
3. Model 2511 can deliver 33 PSIG (3.3 x 10⁵ pascal).

Standard Duty Piston Pumps



2585/2581



2511B-75



2515B-75

Aspiration / Filtration Systems include 6 ft. of tubing and two hydrophobic filters

Vacuum Pumps		Aspiration/Filtration Systems	
2581	2585	2511	2515
3.5(100)	7.1(201)	0.39(11)	1.2(34)
4.9(83)	10(168)	0.55(9.2)	1.7(28)
5(6.7)	60(80)	219(292)	70(93)
---	---	33(3.3 x 10 ⁵)	---
29.8	27.6	21.3	27.2
1/3(250)	1/3(250)	1/30(25)	1/8(93)
1/4(7)	1/4(7)	3/16(5)	3/16(5)
1/4	1/4	3/16 in. Hose	1/4
24.5(11.1)	24.5(11.1)	5.7(2.6)	13.2(6.0)
17(43.2)	17(43.2)	11.0(28)	14.8(37.5)
7.5(19.1)	7.5(19.1)	8.3(21)	8.3(21)
12(30.5)	12(30.5)	10.0(25.5)	10.0(25.5)
32(14.5)	32(14.5)	11.0(5)	14.8(6.7)
21x12x15 (53x30x38)	21x12x15 (53x30x38)	15.3x12.3x12.7 (39x31x32)	21x12x15 (53x30x38)
2581B-50	2585B-50	2511B-75	2515B-75
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2581C-50 ^{6,7}	2585C-506, 7	2511C-75 ^{6,7}	2515C-75 ^{6,7}
---	---	2511C-76 ⁵	2515C-76

- Models 2522, 2534 and 2546 come with vacuum (and pressure) regulator, vacuum (and pressure) gauge, silencer and water trap. Models 2522 and 2546 can deliver 100 PSIG (10⁵ pascal). Model 2534 can deliver 50 PSIG (5 x 10⁵ pascal).
- Comes with PSE mark.
- Included is UK and Schuko cord sets.
- Motor can operate at 230V, 50/60Hz, 1Ph.

Accessories

Exhaust Silencer

Exhaust silencers are installed in the exhaust port of the pump to reduce pump noise.



1412C

Pump Model	CAT. No.
2565, 2585	1412C
2561	1412D
2581	1412E



1412D / 1412E

Inlet/Exhaust Separator Jars

230 ml glass jar assembly attaches to pump intake or exhaust to capture ingested liquids.



1423B

Pump Model	CAT. No.
2012, all models of DryFast	1423B
Replacement Jars Glass, for pumps w/1423B assembly, models 2561, 2565, 2581, 2585 and Self Cleaning dry pumps.	1415B
1415D is a polypropylene version of the 1415B glass jar.	1415D
Plastic vacuum jar, for pumps 2522, 2546, 2534	1415C



1415B



1415C

Vacuum Hose

Thick walled hose for vacuum or or pressure applications. Hose clamp information available on p. 38.



Pump Model	CAT. No.
2561, 2567, 2581, 2585	331030-5
2511, 2522, 2534, 2546	331020-5

Replacement Jars for Aspiration Stations

Spare receiver kit (1475K-20) includes a 1.2 liter autoclavable jar, 6ft. of tubing and two hydrophobic filters.



Pump Model	CAT. No.
2511B-75, 2511C-75 2515B-75, 2515C-75	1475K-20

Particulate, Hydrophobic In-line Filters

The filters are an economical solution to protect your piston vacuum pump from fine particulates and aerosols to 0.2 microns in diameter.



1475K-21

Made of Polypropylene housing, CAT. No. 1475K-21 fits 1/4" to 3/8" and CAT. No. 1475K-23 fits 1/4" ID hose.



1475K-22

Made of SBS resin housing, CAT. No. 1475K-22 fits 3/8" to 7/16" ID hose.



1475K-23

Pump Model	CAT. No.	Pore Size
2511, 2515, 2522, 2534, 2546	1475K-21	0.8 micron
2561, 2581, 2562, 2567	1475K-22	0.8 micron
2562, 2567	1475K-23	0.2 micron