

# Welch<sup>®</sup> Standard Duty, Dry (Oil-Free) Wob-L<sup>®</sup> piston vacuum pumps

**Known world-wide for speed, ease of use and long service intervals**



One-head  
w/controller, gauge



Two-head  
w/controller, gauge



Filter/Aspiration  
Collection System



OEM Models



Tank-Mounted  
System

Welch Standard Duty\* vacuum pumps use dry, oil-free Wob-L Piston technology to deliver industry-leading, strong pumping dynamics that support filtration, drying, aspiration, parts forming, and other rough vacuum applications.

There are 17 models available, with free air displacement from 0.4 cfm to 7.1 cfm, and ultimate vacuum pressure as deep as 5 Torr. All keep strong pumping speeds to near their ultimate vacuum pressure. Several models have vacuum controllers with gauges, and some are designed for OEM and production settings. Several models are UL component certified; all have 1PH motors with built in thermal overload protection.

Welch Standard Duty dry vacuum pumps can be used for cell culture media sterile filtering/aspiration, DNA/RNA/Plasmid extraction, vacuum ovens, vacuum filtering, vacuum bag parts forming, sampling, cell harvesters, pick and place, package integrity testing, turbidity testing, Rice porosity testing, air sampling and many other laboratory and industrial applications.

\*Note: Standard duty dry pumps are not recommended for pumping organic, acidic or basic vapors.

- ✓ MODELS WITH VACUUM AND PRESSURE REGULATION, GAUGES, CATCHPOTS
- ✓ MODELS WITH FLUID COLLECTION VESSELS
- ✓ OEM/PRODUCTION MODELS
- ✓ TANK MOUNTED MODEL
- ✓ WOB-L PISTON TECHNOLOGY-VERY STRONG PUMPING DYNAMICS
- ✓ FAST DELIVERY
- ✓ EXPERT SUPPORT
- ✓ THE RIGHT VACUUM PUMP FOR YOUR APPLICATION

Contact your local Welch representative for expert support in selecting the best model for you specific application/sample composition requirements.

**Depend on Welch for durable vacuum pumps with highest performance**

**AMERICAS**  
Gardner Denver Thomas Inc.  
1601 Feehanville Drive  
Suite 550  
Mt. Prospect, IL 60056  
USA

Tel: +1 847 676 8800  
welch.na@gardnerdenver.com

**WELCH**

[www.welchvacuum.com](http://www.welchvacuum.com)



## STANDARD DUTY DRY VACUUM PUMPS | WOB-L® PISTON

SPECIFICATIONS	SINGLE STAGE VACUUM/PRESSURE STATION				OEM DUAL STAGE VACUUM PUMPS			
MODEL	2511	2522	2534	2546	2562	2563	2580	2581
Free Air Displacement, cfm (L/min)	0.39 (11)	0.76 (22)	1.2 (34)	1.6 (45)	2.3 (65)	2.3 (65)	3.5 (99)	3.5 (100)
Ult. Vac. Pressure, Torr	219	100	70	60	9	5	9	5
Max Pressure, PSIG	33	100	50	100	-	-	-	-
Max Vacuum, in. Hg	21.3	26	27.2	27.6	29.6	29.8	29.6	29.8
Motor Horsepower (watts)	1/30 (25)	1/8 (93)	1/8 (93)	1/4 (190)	1/3 (250)	1/3 (250)	1/3 (250)	1/3 (250)
Tubing Needed, I.D. in.	3/16	3/16	3/16	3/16	1/4	1/4 or NW16	3/8	3/8 or NW25
Intake/Exhaust Thread, NPT	3/16" hose	1/4	1/4	1/4	1/4	1/4	3/8	3/8
Weight, lbs.	5	11.7	11.7	13.8	16.5	16.5	22.5	22.5
Overall Dimensions LxWxH in.	7.6 x 4.5 x 7.5	8.1 x 8.8 x 10	8.1 x 8.8 x 10	10 x 7.5 x 9	11.7 x 7.2 x 9.5	11.7 x 7.2 x 9.5	13.3 x 7.8 x 11.7	13.3 x 7.8 x 11.7
Ship Weight, lbs	6	17	17	17	18	18	28	28

## ORDERING INFORMATION

SPECIFICATIONS	SINGLE STAGE VACUUM/PRESSURE STATION				OEM DUAL STAGE VACUUM PUMPS			
MODEL	2511	2522	2534	2546	2562	2563	2580	2581
Wired for 115V, 60Hz, 1 Ph with N. Amer 115V plug	2511B-01 UL	2522B-01 UL	2534B-01 UL	2546B-01 UL	2562B-01 UL	2563B-24 UL	2580B-01 UL	2581B-24 UL
Wired for 230V, 60Hz, 1 Ph with N. Amer 230V plug	-	-	2534C-01	2546C-01	-	-	-	-

Notes:

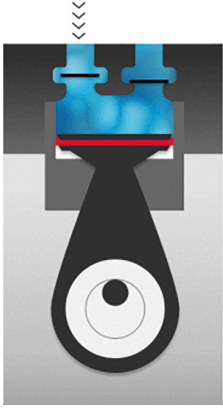
- Model 2563 has dual inlet flange NW16 with hose barb for 1/4 in. tubing supplied. Hose barb threads into NW16 flange.
- Model 2581 has dual inlet flange NW16 with hose barb for 3/8 in. tubing supplied. Hose barb threads into NW25 flange.



OEM SINGLE STAGE VACUUM PUMP		TWO STAGE W/CATCH-POT & REG		ONE STAGE W/CATCH-POT & REG		ASPIRATOR PUMP		PUMP W/TANK
2567	2585	2561	2581	2567	2585	2511	2515	8150 <sup>2</sup>
3.5 (100)	7.1 (201)	2.3 (65)	3.5 (100)	3.5 (100)	7.1 (201)	0.39 (11)	1.2 (34)	7.1 (201)
60	60	5	5	60	60	219	70	60
-	-	-	-	-	-	-	-	-
27.6	27.6	29.8	29.8	27.6	27.6	21.3	27.2	27.6
1/3 (250)	1/3 (250)	1/3 (250)	1/3 (250)	1/3 (250)	1/3 (250)	1/30 (25)	1/8 (93)	3/4 (610)
1/4	3/8	1/4	3/8	1/4	3/8	3/16	1/4	3/8
1/4	3/8	1/4	3/8	1/4	3/8	3/16" hose	1/4	1/4
16.5	22.5	16.5	22.5	16.5	22.5	5.7	13.2	64
11.7 x 7.2 x 9.5	13.3 x 7.8 x 11.7	17.3 x 6.5 x 10.5	17 x 7.5 x 12	17.3 x 6.5 x 10.5	17 x 7.5 x 12	11 x 8.3 x 10	14.8 x 8.3 x 10	30 x 11 x 23
18	28	24	32	24	32	11	14.8	124

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2567	2585	2561	2581	2567	2585	2511	2515	8150 <sup>2</sup>
2567B-01 UL	2585B-01 UL	2561B-50 UL	2581B-50 UL	2567B-50 UL	2585B-50 UL	2511B-75 UL	2515B-75 UL	8150B-30
-	-	-	-	-	-	-	-	-

Notes:  
 3. System includes ASME 10 gallon code receiver, vacuum gauge, exhaust muffler and manual shutoff valve. The three position switch allows for on/off continuous duty or automatic on/off at a set vacuum level.



## WELCH VACUUM SINGLE AND DUAL STAGE WOB-L<sup>®</sup>, OIL-FREE PISTON PUMPS

Wob-L oscillating piston achieves low friction and long pump life

- ✓ Standard duty applications
- ✓ Continuous oil-free pumping
- ✓ Cost effective
- ✓ OEM options available



### SINGLE STAGE VACUUM & PRESSURE STATIONS

- ✓ Three sizes up to 45 l/min, 60 torr
- ✓ Complete with inlet/outlet gauge, trap, vacuum and pressure control valve
- ✓ Ideal for vacuum filtration aspiration, tissue culture filtration
- ✓ Extremely quiet



### DUAL STAGE VACUUM PUMPS WITH CATCH-POT AND REGULATOR TO 100 L/MIN

- ✓ Ideal for drying and degassing
- ✓ Small footprint, high flow, deep vacuum to 5 Torr
- ✓ Catch-pot with built-in vacuum regulation with dial vacuum gauge
- ✓ Portable, light weight, reliable



### SINGLE STAGE VACUUM PUMPS WITH CATCH-POT AND REGULATOR TO 201 L/MIN

- ✓ Ideal for aspiration, vacuum chucking, multi-funnel filtration manifolds
- ✓ Catch-pot with built-in vacuum regulation and dial vacuum gauge
- ✓ Economical, long life
- ✓ Portable, light weight, reliable



### 10 GALLON TANK MOUNTED VACUUM SYSTEM, 7.1 CFM

- ✓ ASME 10 gallon receiver, system includes pressure control valve
- ✓ Perfect for vacuum chucking, hold-down, pick & place, vacuum forming
- ✓ On/off continuous duty or automatic on/off at a set vacuum level