

Welch[®] Standard Duty, Dry (Oil-Free) Wob-L[®] 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

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WELCH

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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:

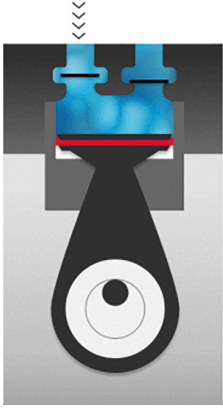
- Model 2563 has dual inlet flange NW16 with hose barb for 1/4 in. tubing supplied. Hose barb threads into NW16 flange.
- Model 2581 has dual inlet flange NW16 with hose barb for 3/8 in. tubing supplied. Hose barb threads into NW25 flange.



| 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 ² |
| 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 ² |
| 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[®], 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