

PTFE Dry Vacuum Pumps | Moderate Vacuum

All Pumps are constructed with PTFE heads, perfluoroelastomer valves, and a PTFE coated, molded diaphragm. Includes intake/exhaust hose barbs. DRYFAST® and DRYFAST® ULTRA models include tunable vacuum control. General Purpose pumps include exhaust silencer.



Model 2019

Model 2014

Models 2034 / 2044 / 2037 / 2047 DRYFAST®



| Specifications | | WELCH DryFast Pumps | | | | |
|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Model | 2019 | 2014 | 2034 | 2044 | 2037 | 2047 |
| Free Air Displacement | | | | | | |
| cfm(l/min.) @60Hz | 1.3(37) | 1.2(35) | 0.9(25) | 1.2(35) | 1.8(50) | 2.5(70) |
| m ³ /hr(l/min.) @50Hz | 1.9(31) | 1.75(29) | 1.25(21) | 1.75(29) | 2.5(42) | 3.5(58) |
| Ult. Vac. Pressure, torr(mbar) | 150(200) | 40(53) | 9(12) | 9(12) | 35(47) | 35(47) |
| Maximum Vacuum, in. Hg | 24 | 28.3 | 29.6 | 29.6 | 28.5 | 28.5 |
| Motor Horsepower - HP(watts) | 1/15 | 1/5(150) | 1/5(150) | 1/5(150) | 1/5(150) | 1/5(150) |
| Adjustable Vac./Gas Ballast | | Yes | Yes | Yes | Yes | Yes |
| Tubing Needed, I.D. in.(mm) | 1/4(7) | 1/4(7) | 1/4(7) | 1/4(7) | 1/4(7) | 1/4(7) |
| Intake(Exhaust) Thread NPT | | M14(1/8) | M14(1/8) | M14(1/8) | M14(1/8) | M14(1/8) |
| Weight lbs.(kg) | 10.2(4.6) | 15.0(6.8) | 21.25(9.6) | 21.25(9.6) | 21.25(9.6) | 21.25(9.6) |
| Overall Dimensions LxWxH in.(cm) | 8.8x5.0x8.8 (22.4x12.7x22.4) | 12x7.0x8.3 (30.5x 17.8x21.1) | 13.8x6.8x8.8 (35.2x7.2x22.3) | 13.8x6.8x8.8 (35.2x7.2x22.3) | 13.8x6.8x8.8 (35.2x7.2x22.3) | 13.8x6.8x8.8 (35.2x7.2x22.3) |
| Ship Weight, lbs.(kg) | 10.2(4.6) | 19(8.6) | 25(11.3) | 25(11.3) | 25(11.3) | 25(11.3) |
| Shipping Carton Dimensions LxWxH in.(cm) | 16x12x12.8 (41x30x33) | 21x14x15 (52x35x37) | 21x14x15 (52x35x37) | 21x14x15 (52x35x37) | 21x14x15 (52x35x37) | 21x14x15 (52x35x37) |
| Ordering Information | | | | | | |
| Wired for 115V, 60Hz, 1 Ph with N. Amer. 115V Plug | 2019B-01 | 2014B-01 | 2034B-01 | 2044B-01 | 2037B-01 | 2047B-01 |
| Wired for 230V, 50/60Hz, 1Ph, w/ UK and Schuko cord sets included | 2019C-02 | 2014C-02 | 2034C-02 | 2044C-02 | 2037C-02 | 2047C-02 |
| Wired for 100V, 50/60Hz for Japan | ---- | 2014C-05 | 2034C-05 | 2044C-05 | --- | --- |

Applications

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PTFE Dry Vacuum Pumps

- Chemical Resistant
- Oil Free

Use PTFE Vacuum Pumps for applications generating harsh chemical vapors. All vapor contact surfaces are PTFE/fluorinated plastic for maximum chemical resistance.

Model 2019 Filtrations of moderate solvents.

DRYFAST® Advanced diaphragm pumps provide full chemical resistance and tunable vacuum. Includes hose barb connections.

Ilmvac High Capacity High flow diaphragm pumps are designed for scale-up operations.

See PTFE Applications for Pump Selection



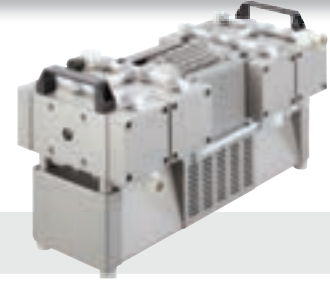
PTFE Dry Vacuum Pumps | High Vacuum



**Models
2032 / 2042
DRYFAST® Ultra**



**Models
2052 / 2054**



**Models
2062 / 2064 / 2067**

| ILMVAC High Capacity | | | WELCH DryFast Ultra Pumps - High Vacuum | | ILMVAC High Capacity - High Vacuum | |
|------------------------------|------------------------------|------------------------------|---|---------------------------------|------------------------------------|------------------------------|
| 2054 | 2064 | 2067 | 2032 | 2042 | 2052 | 2062 |
| 3.4 (100) | 6.1 (173) | 7.8 (221) | 0.9(25) | 1.2(35) | 2.3 (65) | 4.2 (119) |
| ---- | ---- | ---- | 1.25(21) | 1.75(29) | ---- | ---- |
| 6(8) | 6(8) | 56(75) | 2(2.7) | 2(2.7) | 1.5(2) | 1.5(2) |
| 29.7 | 29.7 | 29.7 | 29.85 | 29.85 | 29.9 | 29.9 |
| 1/2(370) | 0.5/0.6(370/440) | 0.5/0.6(370/440) | 1/5(150) | 1/5(150) | 0.53(390) | 0.53(370) |
| No | No | No | Yes | Yes | No | No |
| 1/4(8) | hose connector available | hose connector available | 1/4(7) | 1/4(7) | 1/4(8) | 1/4(8) |
| NW 16 - 1/4" NPT | NW 16 - 1/4" NPT | NW 16 - 1/4" NPT | M14(1/8) | M14(1/8) | NW 16 - 1/4" NPT | NW 16 - 1/4" NPT |
| 40.3(18.3) | 72.3(32.8) | 72.3(32.8) | 21.25(9.6) | 21.25(9.6) | 40.3(18.3) | 72.3(32.8) |
| 9x15x7 (22.8x38.1x17.8) | 21x11x12 (53.3x27.9x30.5) | 21x11x12 (53.3x27.9x30.5) | 13.8x6.8x8.8 (35.2x7.2x22.3) | 13.8x6.8x8.8 (35.2x7.2x22.3) | 9x15x7 (22.8x38.1x17.8) | 21x11x12 (53.3x27.9x30.5) |
| 48.5(22) | 88.2(40.1) | 88.2(40.1) | 25(11.3) | 25(11.3) | 49.8(22.6) | 40.3(18.3) |
| 18.9x12.6x11.8 (48x32x30) | 23.6x15.8x16.1 (60x40x41) | 23.6x15.8x16.1 (60x40x41) | 21x14x15 (52x35x37) | 21x14x15 (52x35x37) | 10.2x16.6x7.5 (26x42x19) | 9.1x15x6.7 (23x38x16.9) |
| 2054B-01 | 2064B-01 | 2076B-01 | 2032B-01 | 2042B-01 | 2052B-01 | 2062B-01 |
| ---- | ---- | ---- | 2032C-02 | 2042C-02 | ---- | ---- |
| ---- | ---- | ---- | 2032C-05 | 2042C-05 | ---- | ---- |

Inlet/Exhaust Separator Jars

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

See page 39 for replacement Jars.



1423B

| Pump Model | CAT. No. |
|--------------------|----------|
| All DryFast models | 1423B |

1640 LabAid - Vacuum Controller

- Rack mountable
- Variable valve control
- Works with any vacuum pump

The LabAid Programmable Vacuum Controller automates Welch DryFast™ pumps or any brand dry pump with flow up to 70 l/min torr vacuum ranging from 1 torr to atmosphere.

See p. 43 for more information.



For a Complete System

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