

Welch[®] Chemical Duty Dry Vacuum Pumps

Ask us about building a sub-assembly utilizing one of the following or similar pumps.

Dry Diaphragm PTFE Vacuum Pumps

Chemical-Resistant Oil-Free Pumps

Applications

Rotary Evaporation, Centrifugal Concentrations, Vacuum Filtration, Vacuum Oven/Desiccation, Aspiration/Automation, Gel Dryer, Distillation, Degassing



2012



2034, 2044, 2037, 2047 DryFast[®]



2032, 2042 DryFast Ultra[®]



2025



2027



2028

Welch[®] Chemical Duty Dry Vacuum Pumps

Ask us about building a sub-assembly utilizing one of the following or similar pumps.

Welch[®] Pump Specifications General Purpose Pumps

Welch Model	2010	2012
CFM(L/min) @60 Hz	0.45 (12.7)	0.78 (22)
M ³ /hr(L/min) @50 Hz	0.63 (10.6)	1.1 (18)
Ultimate Pressure, Torr (mbar)	110 (146)	100 (133)
Maximum Vacuum, in.Hg	25.5	26
Motor HP (watts)	1/12 (62)	1/5 (150)
Adjustable Vac./Gas Ballast	No	No
Tubing Needed	1/4 (7)	1/4 (7)
Intake/Exhaust Thread NPT	1/4	1/4
Weight (lbs)	5.25 (2.4)	16.3 (7.4)
Overall Dimensions		
L in. (cm)	6.3 (16.0)	10 (25.4)
W in. (cm)	5.5 (14.0)	7 (17.8)
H in. (cm)	7.5 (19.0)	6.9 (17.5)
Ship Weight, lbs (kg)	8 (3.96)	20 (9.1)
L x W x H in.	16 x 13 x 13	16 x 13 13
L x W x H cm	(41x32 x 33)	(41x32 x 33)



Ordering Information

Part Number	Description	Price
2010B-01	PTFE Dry Pump, 115V 60Hz 1Ph	\$874.00
2010C-02	PTFE Dry Pump, one stage 230V 50Hz 1Ph with CE mark	\$874.00
2012B-01	PTFE Dry Pump ONE STAGE 115/60 1PH	\$1,097.00
2012C-02	PTFE Dry Pump, 230V 50Hz 1Ph with CE mark	\$1,097.00

Welch[®] Chemical Duty Dry Vacuum Pumps

Ask us about building a sub-assembly utilizing one of the following or similar pumps.

Welch[®] Pump Specifications - DryFast Pumps

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 Advanced Vapor Management (AVM) for adjustable vacuum control. General Purpose pumps include exhaust silencer.

Welch Model	2034	2044	2037	2047
CFM(L/min) @60 Hz	0.9 (25)	1.2 (35)	1.8 (50)	2.5 (70)
M³/hr(L/min) @50 Hz	1.25 (21)	1.75 (29)	2.5 (42)	3.5 (58)
Ultimate Pressure, Torr (mbar)	9 (12)	50 (67)	3.5 (58)	35 (47)
Maximum Vacuum, in.Hg	29.6	29.6	28.5	28.5
Motor HP (watts)	1/5 (150)	1/5 (150)	1/5 (150)	1/5 (150)
Adjustable Vac./Gas Ballast	Yes	Yes	Yes	Yes
Tubing Needed	1/4 (7)	1/4 (7)	1/4 (7)	1/4 (7)
Intake/Exhaust Thread NPT	1/4	1/4	1/4	1/4
Weight (lbs)	21.25 (9.6)	21.25 (9.6)	21.25 (9.6)	21.25 (9.6)
Overall Dimensions				
L in. (cm)	13.8 (35.2)	13.8 (35.2)	13.8 (35.2)	13.8 (35.2)
W in. (cm)	6.8 (17.2)	6.8 (17.2)	6.8 (17.2)	6.8 (17.2)
H in. (cm)	8.8 (22.3)	8.8 (22.3)	8.8 (22.3)	8.8 (22.3)
Ship Weight, lbs (kg)	25 (11.3)	25 (11.3)	25 (11.3)	25 (11.3)
L x W x H in.	21x14 X 15	21x14 x 15	21x14 x 15	21x14 x 15
L x W x H cm	(52x35 x 37)	(52x35 x 37)	(52x35 x 37)	(52x35 x 27)



Welch[®] Chemical Duty Dry Vacuum Pumps

Ask us about building a sub-assembly utilizing one of the following or similar pumps.

Ordering Information

Part Number	Description	Price
2034-B-01	PTFE Dry Pump 9 Torr, 25L/min 115V 60Hz 1Ph	\$1,534.00
2034-C-02	PTFE Dry Pump 12 mbar, 21L/min 230V 50Hz 1Ph with CE mark	\$1,534.00
2034-C-05	PTFE Dry Pump 9 Torr, 25L/min 100V 50/60Hz 1Ph	\$1,534.00
2037-B-01	PTFE Dry Pump, 50 Torr, 50L/min, 115V 60Hz 1Ph	\$1,694.00
2037-C-02	PTFE Dry Pump, 67mbar, 42L/min, 230V 50Hz 1Ph with CE mark	\$1,694.00
2037-C-05	PTFE Dry Pump, 50 Torr, 50L/min, 100V 50/60Hz 1Ph with CE mark	\$1,694.00
2042-B-01	PTFE Dry Pump, 2 Torr , 35L/min, 115V 60Hz 1Ph	\$2,650.00
2042-C-02	PTFE Dry Pump, 2.7 mbar , 29L/min w/CE mark, 230V 50Hz 1Ph w/CE mark	\$2,650.00
2042-C-05	PTFE Dry Pump, 2 Torr , 35L/min, 100V 50/60Hz 1Ph	\$2,650.00
2044-B-01	PTFE Dry Pump, 9 Torr, 35L/min, 115V 60Hz 1Ph	\$1,906.00
2044-C-02	PTFE Dry Pump, 12 mbar, 29L/min with CE mark, 230V 50Hz 1Ph	\$1,906.00
2044-C-05	PTFE Dry Pump, 9 Torr, 35L/min, 100V 50/60Hz 1Ph	\$1,906.00
2047-B-01	PTFE Dry Pump, 30 Torr, 70L/min, 115V, 60Hz 1Ph	\$2,119.00
2047-C-02	PTFE Dry Pump, 40mbar, 58L/min w/CE mark, 230V 50Hz 1Ph w/CE mark	\$2,119.00
2047-C-05	PTFE Dry Pump, 30 Torr, 70L/min, 100V, 50/60Hz 1Ph	\$2,119.00

Welch[®] Chemical Duty Dry Vacuum Pumps

Ask us about building a sub-assembly utilizing one of the following or similar pumps.

Welch[®] Pump Specifications

Welch Model	2032	2042
CFM(L/min) @60 Hz	0.9 (25)	1.2 (35)
M ³ /hr(L/min) @50 Hz	1.25 (35)	1.75 (29)
Ultimate Pressure, Torr (mbar)	2 (3)	2 (3)
Maximum Vacuum, in.Hg	29.85	29.85
Motor HP (watts)	1/5 (150)	1/5 (150)
Adjustable Vac./Gas Ballast	Yes	Yes
Tubing Needed	1/4 (7)	1/4 (7)
Intake/Exhaust Thread NPT	1/4	1/4
Weight (lbs)	21.25 (9.6)	21.25 (9.6)
Overall Dimensions		
L in. (cm)	13.8 (35.2)	13.8 (35.2)
W in. (cm)	6.8 (17.2)	6.8 (17.2)
H in. (cm)	8.8 (22.3)	8.8 (22.3)
Ship Weight, lbs (kg)	25 (11.3)	25 (11.3)
L x W x H in.	21x14 x 15	21x14 x 15
L x W x H cm	(52x35 x 27)	(21x14 x 15)



Ordering Information

Price	Description	
2032B-01	PTFE Dry Pump 2 Torr, 25L/min 115V 60Hz 1Ph	\$2,225.00
2032C-02	PTFE Dry Pump 2.7 mbar, 21L/min 230V 50Hz 1Ph with CE mark	\$2,225.00
2032C-05	PTFE Dry Pump 2 Torr, 25L/min 100V 50/60Hz 1Ph	\$2,225.00
2042B-01	PTFE Dry Pump, 2 Torr , 35L/min, 115V 60Hz 1Ph	\$2,650.00
2042C-02	PTFE Dry Pump, 2.7 mbar , 29L/min with CE mark, 230V 50Hz 1Ph w/ CE mark	\$2,650.00
2042C-05	PTFE Dry Pump, 2 Torr , 35L/min, 100V 50/60Hz 1Ph	\$2,650.00

Welch[®] Chemical Duty Dry Vacuum Pumps

Ask us about building a sub-assembly utilizing one of the following or similar pumps.

Welch[®] Pump Specifications

Self Cleaning Dry Vacuum Systems

All self-cleaning vacuum systems are constructed with PTFE heads, perfluoroelastomer valves, and a PTFE coated, molded diaphragm. Advanced Vapor Management (AVM) for vacuum control, a vacuum readout, and instant-response bumping/foaming switching are standard on all models. Inlet includes inlet/outlet separator traps and hose barbs. Standard vacuum digital readout units: 115V: Torr; 230V: mBar; 100V: Pa.

Welch Model	2025	2026	2027	2028
CFM(L/min) @60 Hz	1.2 (35)	1.2 (35)	1.2 (35)	1.2 (35)
M³/hr(L/min) @50 Hz	1.7 (29)	1.7 (29)	1.7 (29)	1.7 (29)
Ultimate Pressure, Torr (mbar)	9 (12)	2 (2.7)	2 (2.7)	2 (2.7)
Maximum Vacuum, in.Hg	29.6	29.85	29.85	29.85
Motor HP (watts)	1/5 (150)	1/5 (150)	1/5 (150)	1/5 (150)
Adjustable Vac./Gas Ballast	Yes	Yes	Yes	Yes
Tubing Needed	1/4 (7)	1/4 (7)	1/4 (7)	1/4 (7)
Intake/Exhaust Thread NPT	3/8	3/8	3/8	3/8
Weight (lbs)	30 (13.6)	30 (13.6)	30 (13.6)	30 (13.6)
Overall Dimensions				
L in. (cm)	13.6 (34.5)	13.6 (34.5)	13.6 (34.2)	13.6 (34.5)
W in. (cm)	12 (30.5)	12 (30.5)	12 (30.5)	12 (30.5)
H in. (cm)	11.3 (28.7)	11.3 (28.7)	11.3 (28.7)	11.3 (28.7)
Ship Weight, lbs (kg)	36 (16.4)	36 (16.4)	36 (16.4)	36 (16.4)
L x W x H in.	18 x 17 x 17	18 x 17 x 17	18x17 x 17	18x17 x 17
L x W x H cm	(46x42 x 43)	(46x42 x 43)	(46x42 x 43)	(46x42 x 43)



Welch[®] Chemical Duty Dry Vacuum Pumps

Ask us about building a sub-assembly utilizing one of the following or similar pumps.

Ordering Information

Part Number	Description	Price
2025-01	Self-Cleaning Dry Vacuum System, 115V 60Hz 1Ph	\$2,633.00
2025-02	Self-Cleaning Dry Vacuum System, 230V 60Hz 1Ph	\$2,633.00
2025-03	Self-Cleaning Dry Vac. System, 230V 50Hz 1Ph with CE & Sch. Plug	\$2,633.00
2025-05	Self-Cleaning Dry Vacuum System, 100V 50/60Hz 1Ph	\$2,633.00
2025-06	Self-Cleaning Dry Vacuum System, 230V 50Hz 1Ph with CE & UK Plug	\$2,633.00
2026-01	Self-Cleaning Dry Vacuum System, 115V/60HZ,(2 TORR)	\$3,142.00
2027-01	Self-Cleaning Dry Vac. System w/digital gauge, 115V 60Hz 1Ph,2 Torr	\$3,573.00
2027-03	Self-Cleaning Dry Vac. Sys. w/digital gauge, 230V 50Hz 1Ph, CE,2 Torr	\$3,573.00
2027-05	Self-Cleaning Dry Vac. Sys. w/digital gauge, 100V 50/60Hz 1Ph,2 Torr	\$3,573.00
20280-1	Programmable Self-Cleaner 35L/min, 2 Torr, 115V 60Hz, 1Ph	\$4,500.00
2028-03	Program. Self-Clean 29L/min, 2.7 mbar, 230V 50Hz, 1Ph w/ CE mark	\$4,500.00
2028-05	Programmable Self-Cleaner 35L/min, 2 Torr, 100V 50/60Hz, 1Ph	\$4,500.00

Ordering Information

Wired for 115V, 60Hz, 1 Ph with N/ American 115V

Welch Models: 2010B-01, 2012B-01, 2034B-01, 2044B-01, 2037B-01, 2047B-01, 2032B-01, 2042B-01, 202501, 20261, 202701, 202801

Wired for 230V, 50Hz, 1 Ph with Cont. Euro. (Schuko) Plug

Welch Models: 2010C-02, 2012C-02, 2034C-02, 2044C-02, 2037C-02, 2047C-02, 2032C-02, 2042C-02, 202503, 202703, 202803

Wired for 100V 50/60 Hz for Japan

Welch Models: 2012C-05, 2034C-05, 2044C-05, 2037C-05, 2047C-05, 2032C-05, 2042C-05, 202505, 202705, and 202805

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 Advanced Vapor Management (AVM) for adjustable vacuum control. General Purpose pumps include exhaust silencer.