

Diaphragm Vacuum Pumps | DRYFAST® Chemical Duty Pumps



CE SP UL See specific Cat no. for specific listing.

Model 2019

Model 2014 DryFast

Models 2034 / 2044 / 2037 / 2047 DRYFAST

Specifications	Coated Head		Ultimate Vacuum Pressure 9 torr to 40 torr			
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	No	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	1/4 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 (22x13x22)	12x7.0x8.3 (31x 18x2)	13.8x6.8x8.8 (35x17x22)	13.8x6.8x8.8 (35x17x22)	13.8x6.8x8.8 (35x17x22)	13.8x6.8x8.8 (35x17x22)
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 UL	2014B-01 CSA	2034B-01 CSA	2044B-01 CSA	2037B-01 CSA	2047B-01 CSA
Wired for 230V, 50/60Hz, 1Ph, w/UK and Schuko cord sets included ¹	2019C-02 CE	2014C-02 CE	2034C-02 CE	2044C-02 CE	2037C-02 CE	2047C-02 CE
Wired for 100V, 50/60Hz for Japan	----	2014C-05	2034C-05	2044C-05	---	---

Notes: 1. 230V in US also requires Cord 61-8707 2. For 8 mm Hose Barb, Order 710798

Applications

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DryFast Diaphragm Vacuum Pumps

- Chemical Resistant
- Oil Free

Tuneable Vacuum

Model 2019 PTFE coated head for filtration of moderate solvents

DRYFAST models 2014, 2034, 2044, 2037, 2047 & DryFast Ultra models 2032, 2042. All major parts in contact with vapor are constructed of corrosion resistant PTFE and perfluoro plastic materials. Models comes standard with tuneable vacuum control.

Model 2163 Coated heads for moderate solvent vapors

Models 2052, 2054, 2062, 2064 & 2067 Wetted parts are made of PTFE and other fluorinated plastics. High flow models are commonly used for scale-up operations.



Diaphragm Vacuum Pumps | DRYFAST® Chemical Duty Pumps



Models
2032 / 2042
DRYFAST Ultra



Models
2052 / 2054



Models
2163 / 2062 / 2064 /
2067

Coated Heads	Flow Rate > 100 L/min				Ultimate Vacuum Pressure ≤ 2 torr			
2163	2054	2064	2067	2032	2042	2052	2062	
6.1 (173)	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)	6 (8)	56 (75)	2 (2.7)	2 (2.7)	1.5 (2)	1.5 (2)	
29.7	29.7	29.7	27.72	29.85	29.85	29.9	29.9	
0.5/0.6 (370/440)	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	No	Yes	Yes	No	No	
hose connector available	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 ²	NW 16 - 1/4" NPT ²	NW 16 - 1/4" NPT ²	NW 16 - 1/4" NPT ²	M14(1/8)	M14(1/8)	NW 16 - 1/4" NPT	NW 16 - 1/4" NPT	
72.3 (32.8)	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)	
21x11x12 (53x28x31)	9x15x7 (23x38x18)	21x11x12 (53x28x31)	21x11x12 (53x28x31)	13.8x6.8x8.8 (35x17x22)	13.8x6.8x8.8 (35.2x17x22)	9x15x7 (23x38x18)	21x11x12 (53x28x31)	
88.2 (40.1)	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)	
23.6x15.8x16.1 (60x40x41)	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)	
2163B-01 CE	2054B-01 CE	2064B-01 CE	2067B-01 CE	2032B-01 CSA	2042B-01 CSA	2052B-01 CE	2062B-01 CE	
2163C-02 CE	2054C-02 CE	2064C-02 CE	2067C-02 CE	2032C-02 CE	2042C-02 CE	2052C-02 CE	2062C-02 CE	
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For a Complete System

Inlet/Exhaust Separator Jars
230 ml glass jar assembly attaches to pump intake or exhaust to capture ingested liquids. See page 79 for replacement Jars.



1423B

Pump Model	CAT. No.
All DryFast models	1423B

Digital Vacuum Regulator

- Rack mountable
- Variable vacuum control

The Digital Vacuum Regulator works with Welch DryFast™ pumps or any brand dry pump with flow up to 35 l/min torr vacuum ranging from 1 torr(1.3 mbar) to atmosphere. See p. 76 for more information.



Pump Model	CAT. No.
2014, 2034, 2032, 2044, 2042	1640A-01



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