

Choose Welch Vacuum . . .

BTpro - Botanical Vacuum Pump Series



- **High flow for faster processing**
- **Deep vacuum for higher purity**
- **Chemically resistant for long service interval**
- **Oil-free for low maintenance**
- **Agency listing**
 - **BTpro40, 70: CSA**
 - **BTpro100, 170: cUL**

Welch's BTpro vacuum pump series has a flow and vacuum level to provide fast performance for your size of rotary evaporator, glass reactor, purge oven, or winterization filtration apparatus.

These chemical duty PTFE diaphragm pumps are oil-free. The pumping action and deep vacuum comes from the movement of PTFE diaphragms within PTFE heads. All wetted services in the flow path are made of fluoroplastic making the BTpro pump highly chemically resistant. As a result, the BTpro vacuum pump series is near-zero maintenance. A cold trap placed in-line with BTpro pump is needed if terpenes are part of the flow path.

The BTpro40 and BTpro70 models employ patented valve and diaphragm technology that generates a deep 15 Torr vacuum pressure with each PTFE head. In addition, both pump models have built-in tuneable vacuum to control evaporation rate. The tunable vacuum adjustment can also be used to stop accidental bumping/foaming.

A chemically resistant, manual vacuum regulator with stainless steel dial gauge is available for BTpro100. See ordering information for further details.

For sales, service and technical support, please contact the US factory at 847-676-8800 or contact your local Welch sales representative.

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BTpro Technical Specifications

Model	BTpro40	BTpro70	BTpro100	BTpro170
Free Air Displacement@60Hz, lpm(CFM)	40(1.4)	70(2.5)	100(3.5)	170(6.0)
Ultimate Vacuum Pressure, Torr	15	15	6	6
Maximum Vacuum, in. Hg	29.3	29.3	29.7	29.7
Horsepower, HP (watts)	1/5(150)	1/5(150)	0.5(390)	0.6(440)
Built-in adjustable vacuum	Yes	Yes	--	--
Gas Ballast	--	--	Yes	Yes
Inlet/outlet Connection	3/8" hose barb	3/8" hose barb	NW16 flange ¹	NW16 flange ¹
Agency (National Recognized Lab)	CSA	CSA	cUL	cUL
Weight, lbs (kg)	15.0(6.8)	21.3(9.6)	40.3(18.3)	72.3(32.8)
Overall Dimensions LxWxH in.(cm)	12x7x8.3 (31x18x22)	13.8x6.8x8.8 (35x17x22)	9x15x7 (23x38x18)	21x11x12 (53x28x31)
Shipping Weight, lbs(kg)	19(8.6)	25(11.3)	48.5(22)	88.2(40.1)
Shipping Carton Dimensions LxWxH in.(cm)	21x14x15 (52x35x37)	21x14x15 (52x35x37)	18.9x12.6x11.8 (48x32x30)	23.6x15.8x16.1 (60x40x41)
Ordering Information				
115V 60Hz 1Ph with N.American plug	7010-01	7020-01	7030-01	7040-01

Note: 1. Two 3/8" hose barb fittings are provided that thread into NW16 flange to allow use of 3/8" ID hose.

Accessories for BTpro Vacuum Pump Series

Use with	Description	Cat. No.
BTpro40, 70, 100, 170	3/8 in. ID gum rubber vacuum hose, 5 feet	331035-05
BTpro100	Chemically resistant vacuum regulator with SS dial vacuum gauge, - mountable horizontally or vertically	700458



331035-05



700458