

# Welch CRVpro...

## Your Robust Vacuum Pumps



CRVpro vacuum pumps are two-stage, oil-sealed, direct-driven rotary vane vacuum pumps.

There are nine models of CRVpro available, with free air displacement from 1.8 cfm to 52.5 cfm. Ultimate pressure to 0.0015 torr. The pumps provide high pumping speed to the ultimate vacuum pressure.

All CRVpro vacuum pumps comply with local regulations and safety directives as noted by their cUL listing and CE mark. Depending on model, motor options include 1 Ph TEFC, 3 Ph TEFC, and 1 Ph explosion proof motors.

- ✓ ACHIEVE HIGH VACUUM
- ✓ COMPACT SIZE
- ✓ PROTECTIVE INTERNAL COATINGS
- ✓ COOL RUNNING
- ✓ LOW NOISE LEVEL
- ✓ BUILT-IN OIL ANTI-SUCTION VALVE IF POWER IS LOST
- ✓ FORCED OIL LUBRICATION
- ✓ LARGE OIL CAPACITY

CRVpro vacuum pumps can be used for freeze drying, vacuum ovens, concentrators, glove boxes, schlenk lines, HVAC/refrigeration service, coaters, backing diffusion pumps and turbo molecular pumps, short path, wiped film, metallurgy/vacuum furnaces, lamp manufacture, space simulation, degassing, vessel/chamber evacuation. CRVpro vacuum pumps prepared with perfluoropolyether (PFPE) for oxygen service are available. Contact your local Welch sales representative for details on PFPE prepared pumps and for selecting the correct vacuum pump and accessories for your application.

You deserve the best vacuum pump and you get it with Welch

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**WELCH**

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# SPECIFICATIONS

MODEL	CRVpro2	CRVpro4	CRVpro6	CRVpro8	CRVpro16	CRVpro24	CRVpro30	CRVpro48	CRVpro65
Free Air Displacement, CFM@60Hz, (lpm)	1.8 (51)	2.8 (78)	4.2 (118)	5.6 (158)	12.8 (363)	18.3 (519)	22.1 (627)	39.4 (1113)	52.5 (1487)
Ult. Vacuum Pressure, Torr	0.002	0.0015	0.0015	0.0015	0.002	0.002	0.002	0.002	0.002
Sound level, dBA(50Hz)	≤50	50	50	50	55	55	55	≤58	≤58
Pump Speed @60Hz	1740	1740	1740	1740	1750	1750	1750	1760	1760
Oil Capacity, liters	0.45	1.15	1.15	1.0	2.4	2.2	2.1	4.95	4.3
Intake/Exhaust Flange	NW16	NW16	NW16	NW16	NW25	NW25	NW25	NW40	NW40
Tubing Needed, I.D., in.	7/16	5/8-3/4	5/8-3/4	5/8-3/4	3/4	3/4	3/4	1-5/8	1-5/8
Weight, lbs.	33	46.3	48.5	49.6	81.6	84.9	87	218	220
Overall Dimensions LxWxH, in.	15.1 x 5.4 x 9.2	18.2 x 6.1 x 9.2	18.2 x 6.1 x 9.2	18.2 x 6.1 x 9.2	22.4 x 8.1 x 11.4	22.4 x 8.1 x 11.4	22.4 x 8.1 x 11.4	31.4 x 10.3 x 14.5	31.4 x 10.3 x 14.5

# ORDERING INFORMATION

MODEL	CRVpro2	CRVpro4	CRVpro6	CRVpro8	CRVpro16	CRVpro24	CRVpro30	CRVpro48	CRVpro65
Wired 115V, 60Hz, 1Ph	3021-01	3041-01	3061-01	3081-01	3161-01	3241-01	3301-01	-	-
Wired 230V, 60Hz, 1Ph	3022-01	3042-01	3062-01	3082-01	3162-01	3242-01	3302-01	-	-
Wired 115V, 60Hz, Refrigeration Service, 1/2" flare	-	-	-	3081-02	3161-02	3241-01 +1393E	3301-01 +1393E	-	-
208-230/460V; 60Hz, 3Ph	-	3047T-01	-	3087T-01	3167T-01	-	3307T-01	-	-
(240-265)/ (415-460)V +/-5%, 60Hz, 3PH	-	-	-	-	-	-	-	3487T-01	3657T-01
115V/208-230V, 60Hz, 1PH Explosion Proof	-	3046E-01	-	3086E-01	3166E-01	-	-	-	-

- Notes:
- CRVpro2 includes qty one hose barb adapter (NW16 to 7/16" ID tubing), qty one NW16 to NW25 adapter, Qty two NW16 centering rings and qty two NW16 hinge clamps and 1 liter of cat. no. 8995P-11 Premium vacuum pump oil.
  - CRVpro4,6,8 includes qty one hose barb adapter(NW16 to 5/8-3/4" ID tubing), qty one NW16 to NW25 adapter, Qty two NW16 centering rings and qty two NW16 hinge clamps and 2 liters of cat. no. 8995P-11 Premium vacuum pump oil.
  - CRVpro16, 24, 30 includes qty one hose barb adapter (NW25 to 3/4" ID tubing), Qty two NW25 centering rings and qty two NW25 hinge clamps and 3 liters of cat. no. 8995P-11 Premium vacuum pump oil.
  - CRVpro48, 65 includes two NW40 hinge clamps, two NW40 centering rings, and 5 liters of cat. no. 8995P-11 Welch Premium vacuum pump oil. A rubber hose adapter is not included with pump.
  - CRVpro 2,4,6,8 are switch selectable between 115V 60Hz 1PH and 230V 50/60Hz 1PH operation; CRVpro 16, 24, and 30 models are not switch selectable; they are dedicated to either 115V 60Hz or 230V 50/60Hz.
  - Explosion proof motor versions of CRVpro 4, 8 and 16 are rated for Class I, Groups C&D and Class II, Groups E, F & G.
  - Always use a certified electrician for proper installation of pumps with 3 phase or explosion proof motors. Conduit wiring required. No cord, plug, or switch included.
  - CRVpro 48 & 65 require a certified electrician to connect via the appropriate cable and a suitable motor protection switch.