



Discover the evolution of two-stage rotary vane vacuum pumps. Built to last. Born to perform and designed to simplify your work. Meet the robust vacuum pump series – CRVpro.



### COOL RUNNING

Enhanced air flow allows the pump to run 10°C cooler than standard rotary vane pumps. The lower temperature leads to reduced chemical activity within the pump and slows down rates of oil consumption.



### INTERNAL SURFACE PROTECTION

Inside surface of the oil case has a PTFE coating and the outer surface of the pumping module has a black oxide coating. Both coatings act to slow metal corrosion and, when coupled with foreline traps, extend service interval.



### LARGE OIL CAPACITY

Chemical vapors that sublime from the foreline cold trap into the pump oil are more diluted due to the larger oil capacity. This minimizes the rates of oil breakdown and reduce chemical attacks within the pump.

HIGHEST RELIABILITY

LONG PRODUCT LIFESPAN

LESS MAINTENANCE

EXTENDS SERVICE INTERVAL

## Standard Features of CRVpro

### » LOW NOISE LEVEL

Exceptionally quiet for undisturbed work.

### » FORCED OIL LUBRICATION

Ensures moving parts are bathed in fresh oil. Equilibrates temperature, minimizes oil breakdown, and prolongs mechanical life.

### » ANTI-SUCK BACK VALVE

Prevents oil from being sucked into application in the event of a power failure.

### » GAS BALLAST WITH INERT GAS OPTION

Minimizes entrained chemicals in pump oil. Protects pump from condensable liquids from application such as water, acetyl nitrile, etc.

### » cUL AND CE CERTIFICATION

Compliance with local regulations and safety directives for safety operation.

### » SIZED TO FIT YOUR APPLICATION

Modern and compact design to fit different applications and performance requirements.

### » DUAL VOLTAGE MOTOR

Dual voltage motors meet IP54 standard. Motors of CRVpro 2,4,6,8 are switchable from 115V to 240V for global use excluding 100V and 200V pump versions. Each pump includes power cord suitable for country use.

## CRVpro | TWO STAGE ROTARY VANE VACCUM PUMP



### TECHNICAL SPECIFICATION

Parameter	CRVpro 2	CRVpro 4	CRVpro 6	CRVpro 8	CRVpro 16	CRVpro 24	CRVpro 30	CRVpro 48	CRVpro 65
FAD @ 50Hz m <sup>3</sup> /h (L/min)	2.5 (41.7)	4 (67)	6 (100)	8 (133)	18.3 (305)	26.2 (436)	33.1 (551)	55.7 (928)	74.3 (1238)
- Without gas ballast partial mbar (Torr)	3x10 <sup>-4</sup> (2x10 <sup>-4</sup> )	5x10 <sup>-4</sup> (4x10 <sup>-4</sup> )			3x10 <sup>-4</sup> (2x10 <sup>-4</sup> )			3x10 <sup>-4</sup> (2x10 <sup>-4</sup> )	
- Without gas ballast total mbar (Torr)	3x10 <sup>-3</sup> (2x10 <sup>-3</sup> )	2x10 <sup>-3</sup> (1.5x10 <sup>-3</sup> )			3x10 <sup>-3</sup> (2x10 <sup>-3</sup> )			3x10 <sup>-3</sup> (2x10 <sup>-3</sup> )	
- With gas ballast total mbar (Torr)	9x10 <sup>-2</sup> (7x10 <sup>-2</sup> )	7x10 <sup>-2</sup> (5x10 <sup>-2</sup> )			6x10 <sup>-3</sup> (5x10 <sup>-3</sup> )			6x10 <sup>-3</sup> (2x10 <sup>-3</sup> )	
Connection Flange (KF)	16	16 KF			25 KF			40 KF	
Ambient temperature (°C)	10-40	10-40			10-40			10-40	
Noise level (dBA)	≤50	50 dB			55 dB			<58	
Oil capacity (ml)	450	1150		1000	2400	2200	2100	4950	4300
Motor speed (rpm 50/60Hz)	1450/1740	1450/1740			1450/1740			1460/1760	
Motor power (kW 50Hz)	0.27	0.37			0.7			2.2	
220-240V 50Hz, 1ph(Part #)	3022-00	3042-00	3062-00	3082-00	3162-00	3242-00	3302-00	-	-
230-240/380-420 V/50 Hz 3 phase motor, requires hard wiring (Part #)								3487T-01	3657T-01

Every pump is supplied with oil, centering rings(qty 2), clamps (qty 2).

### INLET ACCESSORIES



Inlet Liquid Trap



Dryice/ LN2 Trap



Acid Neutralization Trap



Adsorption Trap



Reducer KF Flange

### HOSE AND CONNECTORS



RED Rubber Hose



Clamp



Centering Ring



Metal Hose



Hose Nozzle

### EXHAUST ACCESSORIES



Exhaust Oil Mist Filter  
with Oil Return



AKD - Oil Mist Filter



Directorr Premium Oil

### CRVpro PUMP OIL