

# Dry Vacuum Pump [CR Series]

CR series is an air-cooled roots type dry vacuum pump. Stable operation and extended lifetime are possible because there is no oil inside of the pump head and no contact between rotor and cylinder.



CR300A

CR60A

CR30A

## Features

- ▶ Air cooled for low running costs
- ▶ No requirement for cooling water and nitrogen gas
- ▶ Low power consumption, air tight and light weight are featured in this pump
- ▶ Possible to pump down water vapor by use of gas ballast
- ▶ Integrated silencer results in a compact design

## Applications

- ▶ Clean gas vacuum pumping such as air, inert gas
- ▶ Water vapor pumping for vacuum dryer equipment (gas ballast is required)
- ▶ Vacuum equipment such as sputtering, evaporator, etc.

# Dry Vacuum Pump [CR Series]

## Specifications

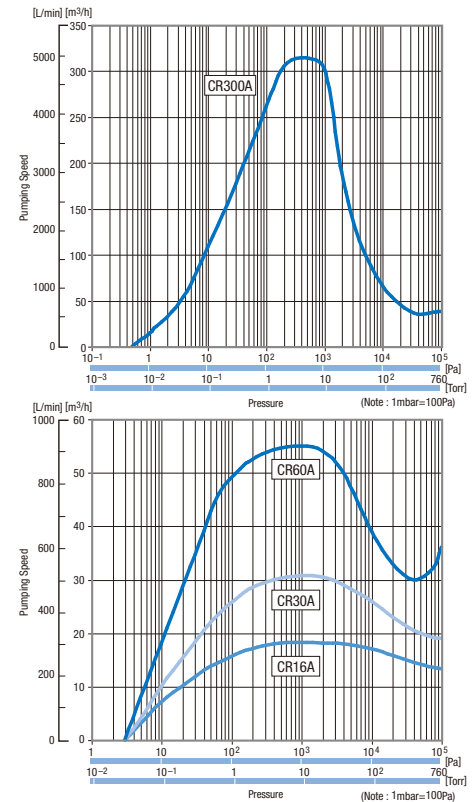
Model		CR16A	CR30A	CR60A	CR300A
Max. pumping speed	m <sup>3</sup> /h	16	30	55	300
	L/min	280	500	920	5000
	CFM	9.8	17.6	32.4	176
Ultimate pressure *1	Pa		≦ 3		≦ 0.5
	Torr		≦ 2×10 <sup>-2</sup>		≦ 4×10 <sup>-3</sup>
	mbar		≦ 3×10 <sup>-2</sup>		≦ 5×10 <sup>-3</sup>
			Atmospheric pressure		
Maximum inlet pressure		Atmospheric pressure			
Maximum outlet pressure		Atmospheric pressure			
Power *2	(Phase) Voltage	(1) 100V	(1) 200V (3) 200V	(1) 200V (3) 200V	(1) 200V (3) 200V
Motor rating	kW	0.72		1.5	3
Inlet		NW25		NW40	NW50
Outlet		NW25		NW40	
Weight	kg	35	48	100	
Cooling method		Air cooling			
Gas ballast mechanism *3		Equipped			
Maximum water vapor tolerance *4	g/h	<300		<500	
Standard accessory		Air filter			

- \*1 Ultimate pressure is a value without gas ballast gas.
- \*2 Please specify phase and voltage when ordering.
- \*3 The valve for gas ballasts is an option.
- \*4 Maximum water vapor tolerance is a value when gas ballast is used. Make sure to use a gas ballast mechanism.

## Option for Gas Ballast

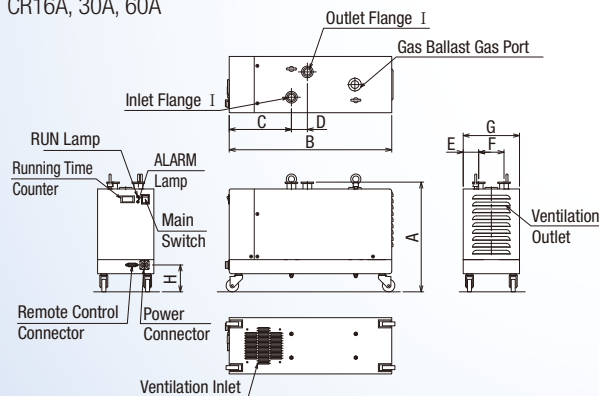
Model	Accessories
GH	Air filter, needle valve
GA	Air filter, needle valve, solenoid valve

## Pumping Speed Curves



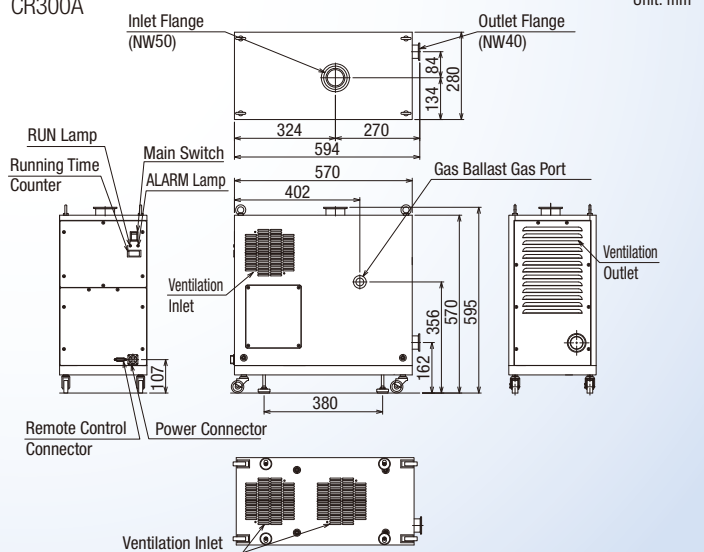
## Dimensions

CR16A, 30A, 60A



	A	B	C	D	E	F	G	H	I
CR16A	350	520	200	51	50	81	180	86	25
CR30A	350	520	200	51	50	81	180	86	25
CR60A	430	550	200	59	59	98	210	116	40

CR300A



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