# 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.



#### **Features**

- · Air cooled for low running costs
- · No requiement 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.

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Specifications										
Model		CR16A		CR30A		CR60A		CR300A		
May numning	m <sup>3</sup> /h	16		30		55		300		
Max. pumping speed	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>				
Maximum inlet press	Atmospheric pressure									
Maximum outlet pres	sure	Atmospheric pressure								
Power *2	(Phase) Voltage	(1) 100V	(1) 200V (3) 200V	(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		-8	100					
Cooling method				Air cooling						
Gas ballast mechanis	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		Accessories	
GH Air Iter, needle valve			
	GA	Air Iter, needle valve, solenoid valve	

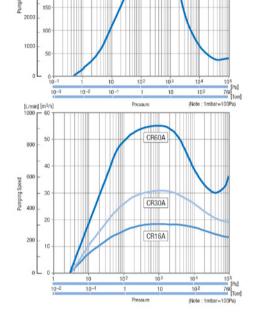
## **Option for Silencer**

	Applicable model	Clamp	Centering and outer rings	Connecting pipe	Stay
RS-01(Silencer only)	CR16A, CR30A *1	-	-	-	-
RS-01 Kit A	CR16A, CR30A, CR60A *1	2	2	1	1
RS-01 Kit C	CR300A	2	2	1	1
Open type Silencer EFS-11-NW25/2 *2	CR16A, CR30A	1	1	-	_
Open type Silencer EFS-19-NW40/1 *2	CR60A, CR300A	1	1	_	-

Pumping Speed Curves

CR300A

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- \*1 Adapter flange is required for the CR16A and CR30A because the exhaust port size of them is NW25.
- \*2 It is impossible to connect it to ductwork in the facility. This is only for safe gases which can be discharged indoors without connecting to ductwork. Element inside needs to be replaced in periodical maintenance.

