

Dry Vacuum Pump [CR Series Ver.B]

CR series Ver.B is an air-cooled roots type dry vacuum pump. It complies with international standard (CE,cTUVus). Stable operation and extended lifetime are possible because there is no oil inside of the pump head and no contact between rotor and cylinder.

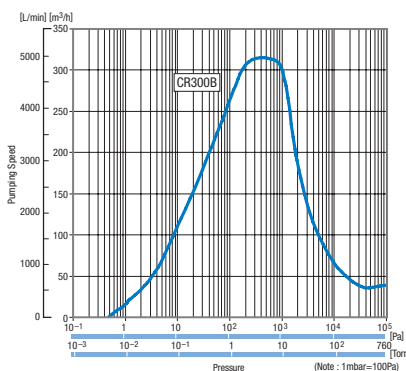
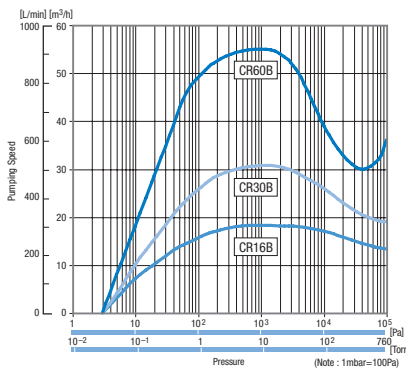


CR300B

CR60B

CR16B

Pumping Speed Curves



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
- ▶ Applicable standard : CE,cTUVus

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 Ver.B]

Specifications

| Model | | CR16B | CR30B | CR60B | CR300B | |
|----------------------------------|--|----------------------|-------|-------|----------------------|------|
| Max. pumping speed | m ³ /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 ⁻² | | | ≦ 4×10 ⁻³ | |
| | mbar | ≦ 3×10 ⁻² | | | ≦ 5×10 ⁻³ | |
| Maximum inlet pressure | Atmospheric pressure | | | | | |
| Maximum outlet pressure | Atmospheric pressure | | | | | |
| Power *2 | (Phase) | (1) | (1) | (3) | (1) | (3) |
| | Voltage | 100V | 200V | 200V | 200V | 200V |
| | | | | | | |
| Motor rating | kW | 0.72 | | 1.5 | 3 | |
| Inlet | | KF25 | | KF40 | KF50 | |
| Outlet | | | | KF40 | | |
| Weight | kg | 35 | | 48 | 100 | |
| Applicable standard | CE,CTUVus | | | | | |
| Cooling method | Air cooling | | | | | |
| Gas ballast mechanism *3 | Equipped | | | | | |
| Maximum water vapor tolerance *4 | g/h | <300 | | | <500 | |
| Standard accessory | Power Connector, Remote Connector, Instruction Manual, Air filter, Guard | | | | | |

*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

| | Spec | CR16B | CR30B | CR60B | CR300B |
|-------------|-----------------------------|-------|-------|-------|--------|
| Gas ballast | Needle valve | ○ | ○ | ○ | ○ |
| | Solenoid valve+Needle valve | ○ | ○ | ○ | ○ |
| Rubber foot | — | ○ | ○ | ○ | — |

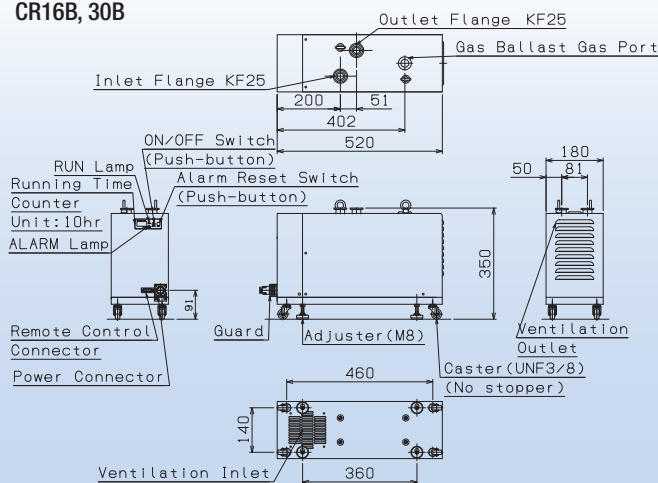
Accessory

| | Spec | CR16B | CR30B | CR60B | CR300B |
|----------------------|--------------------|-------|-------|-------|--------|
| Silencer | RS-01+Kit D | ○ | ○ | — | — |
| | RS-01+Kit A | — | — | ○ | — |
| | RS-01+Kit C | — | — | — | ○ |
| Simple silencer *1 | EFS-11-NW25/2/2516 | ○ | ○ | — | — |
| | EFS-19-NW40/1 *2 | — | — | ○ | ○ |
| Soundproof cover | — | ○ | ○ | ○ | — |
| Power compatible BOX | Ver.A→Ver.B | ○ | ○ | ○ | ○ |

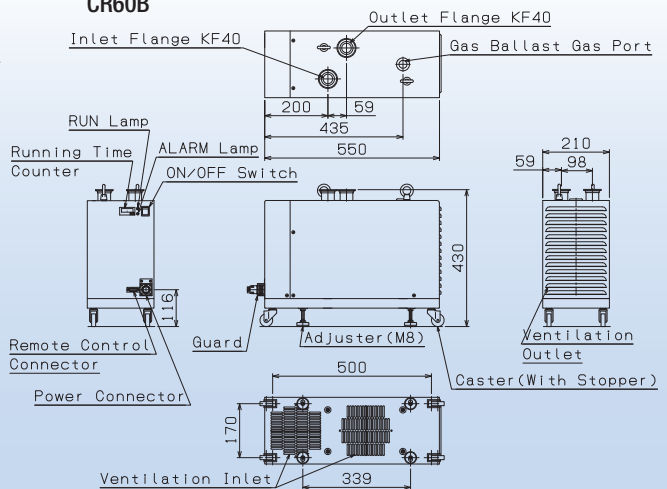
*1 Element inside needs to be replaced in periodical maintenance.

*2 It is impossible to connect it to ductwork in the facility. (Open type)

CR16B, 30B



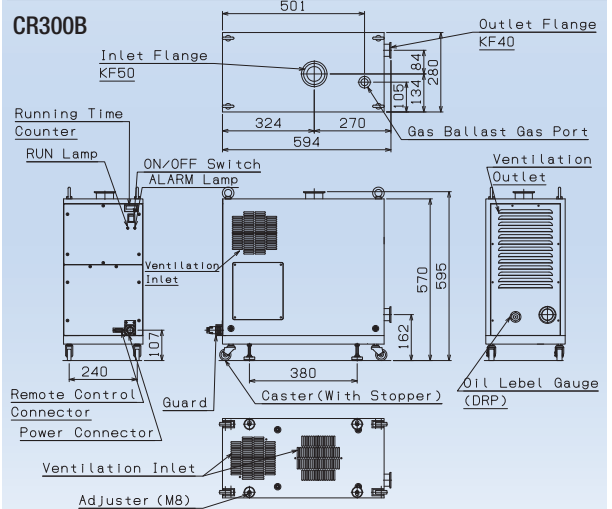
CR60B



Dimensions

Unit: mm

CR300B



ULVAC, Inc. Components Division

www.ulvac.co.jp/en

Overseas Sales in Japan TEL +81-467-89-2261

USA : ULVAC Technologies, Inc. TEL +1-978-686-7550
 GERMANY : ULVAC GmbH TEL +49-89-960909-0
 CHINA : ULVAC (SHANGHAI) Trading Co.,Ltd. TEL +86-21-6127-6618
 TAIWAN : ULVAC TAIWAN, Inc. TEL +886-3-579-5688
 KOREA : ULVAC KOREA, Ltd. TEL +82-31-683-2922
 SINGAPORE : ULVAC SINGAPORE PTE LTD TEL +65-6542-2700

PHILIPPINES : ULVAC SINGAPORE PTE LTD Philippines Branch TEL +63-46-437-7700
 VIETNAM : ULVAC SINGAPORE PTE LTD Vietnam Representative Office TEL +84-8-6255-6762
 INDONESIA : ULVAC SINGAPORE PTE LTD Indonesia Representative Office TEL +62-21-8990-5070
 THAILAND : ULVAC (THAILAND) LTD TEL +66-2-7388883
 MALAYSIA : ULVAC MALAYSIA SDN. BHD. TEL +60-3-5121-4700
 INDIA : ULVAC, Inc., India Branch TEL +91-40-27007006

▶ This catalog is subject to change without notice.

▶ This catalog is published in order to sell this product in overseas. Please see Japanese catalog when purchasing in Japan.