

Diaphragm Type Dry Vacuum Pump (Standard Type) DA Series

Features

ULVAC KIKO offers a complete line of dry, diaphragm type vacuum pumps which utilize rubber reciprocating diaphragms to produce vacuum.

Diaphragm Type Dry Vacuum Pumps differ from G Series Direct Drive Oil-Sealed Rotary Vacuum Pumps in that they do not require oil filters, they keep their surroundings free of exhaust, and they are easy to maintain.

The DA Series (standard type) /DAT/DAU Series provide excellent pumping speed, ultimate pressure and high reliability.

Single and double stage versions are available with pumping capacities ranging from 30 L/min. to 100 L/min..

Applications

Due to the minimal maintenance requirements, this pump is used in many applications such as:

- Vacuum chucks, wafer and tip handling devices.
- Vacuum tweezers, medical appliances, printing equipment.
- Automatic packing machines, optical appliances.

Diaphragm Type Dry Vacuum Pump DA-20D

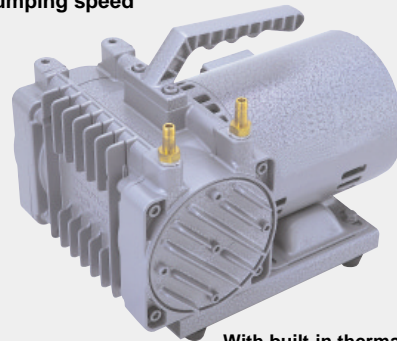
Actual pumping speed



With built-in thermal protector/
Unloader valve (option)

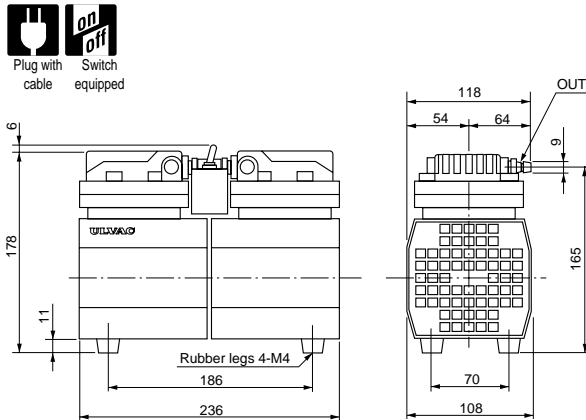
Diaphragm Type Dry Vacuum Pump DA-60S

Actual pumping speed

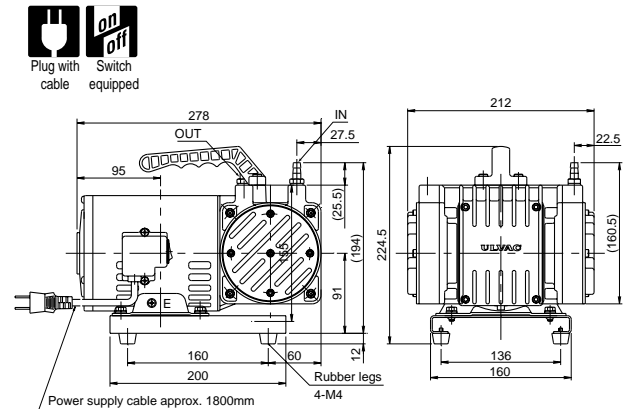


With built-in thermal protector

External Dimension Diagram (unit: mm)



External Dimension Diagram (unit: mm)



Specifications

	Unit	DA-20D
Actual Pumping Speed	L/min.	20/24 (50/60Hz)
Ultimate pressure	Pa	5.3 x 10 ³ (with unloader valve 9.3 x 10 ³)
Motor		Single phase, 100V, 60W, 4P, Condenser run
Full load current	A	1.6
Weight	kg	7.2
Inlet, outlet pipe diameter	mm	O.D. 9 x I.D. 5 (Rc 1/4)
Ambient operation temp. range	°C	7 ~ 40
Overall dimensions	mm	118(W) x 236(L) x 184(H)

Specifications

	Unit	DA-60S
Actual Pumping Speed	L/min.	60/72 (50/60Hz)
Ultimate pressure	Pa	21.3 x 10 ³
Motor		Single phase, 100V, 200W, 4P, Split phase starting
Full load current	A	5.6/5.0 (50/60Hz)
Weight	kg	11.0
Inlet, outlet pipe diameter	mm	O.D. 9 x I.D. 5 (Rc1/4)
Ambient operation temp. range	°C	7 ~ 40
Overall dimensions	mm	212(W) x 278(L) x 224.5(H)

• DA Series

Model	Actual pumping speed (L/min)	Ultimate pressure (Pa)	Motor	Weight (kg)	Inlet pipe dimensions O.D. x I.D.(mm)	Overall dimensions W x L x H(mm)
*DA-15S	12/15(50/60Hz)	26.6 x 10 ³	Single phase, 100V, 25W, 4P, Condenser run	3.1	9 x 5	125 x 176.5 x 182
*DA-15D	12/15(50/60Hz)	6.65 x 10 ³	Single phase, 100V, 35/37W, 4P, Condenser run	3.9	9 x 5	125 x 203 x 182
*DA-30S	24/30(50/60Hz)	26.6 x 10 ³	Single phase, 100V, 35/37W, 4P, Condenser run	3.9	9 x 5	125 x 203 x 182
*DA-20D	20/24(50/60Hz)	5.3 x 10 ³	Single phase, 100V, 60W, 4P, Condenser run	7.2	9 x 5	118 x 23 x 184
*DA-40S	40/46(50/60Hz)	19.9 x 10 ³	Single phase, 100V, 60W, 4P, Condenser run	7.2	9 x 5	128 x 236 x 184
*DA-30D	30/36(50/60Hz)	6.7 x 10 ³	Single phase, 100V, 200W, 4P, Split phase starting	11.0	9 x 5	212 x 278 x 224.5
*DA-60S	60/72(50/60Hz)	21.3 x 10 ³	Single phase, 100V, 200W, 4P, Split phase starting	11.0	9 x 5	212 x 278 x 224.5
*DA-41D	40/46(50/60Hz)	3.3 x 10 ³	Single phase, 100V, 100W, 4P, Split phase starting	10.3	9 x 6	157 x 336.5 x 217
*DA-81S	75/85(50/60Hz)	13.3 x 10 ³	Single phase, 100V, 100W, 4P, Condenser run	10.3	12 x 8	181 x 336.5 x 217
*DA-60D	60/72(50/60Hz)	3.32 x 10 ³	Single phase, 100V, 200W, 4P, Condenser run	19.0	14 x 9	156 x 347 x 238
*DA-120S	120/144(50/60Hz)	13.3 x 10 ³	Single phase, 100V, 200W, 4P, Condenser run	19.0	14 x 9	162 x 347 x 238
*DA-121D	120/145(50/60Hz)	3.3 x 10 ³	Single phase, 100V, 400W, 4P, Condenser run	26.0	16 x 12	193.5 x 411 x 285
*DA-241S	240/260(50/60Hz)	16.0 x 10 ³	Single phase, 100V, 400W, 4P, Condenser run	26.0	16 x 12	207 x 411 x 285

* : With built-in thermal protector

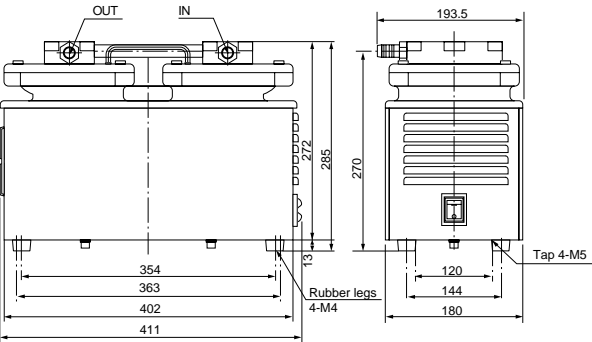
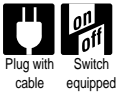
Diaphragm Type Dry Vacuum Pump DA-121D

Actual pumping speed



With built-in thermal protector

External Dimension Diagram (unit: mm)



Specifications

Unit	DA-121D
Actual Pumping Speed	L/min. 120/145 (50/60Hz)
Ultimate pressure	Pa 3.3 x 10 ³
Motor	Single phase, 100V, 400W, 4P, Condenser run
Full load current	A 5.1/5.6 (50/60Hz)
Weight	kg 26.0
Inlet, outlet pipe diameter	mm O.D. 16 x I.D.12 (G1/2)
Ambient operation temp. range	°C 0 ~ 40
Overall dimensions	mm 193.5(W) x 411(L) x 285(H)

Pumping Speed Curve

DA/DAT Series

*Pumping Speed Curve of DA-15S/DA-15D/DA-241S are provided on page 4.

