

D-LAB DIAPHRAGM VACUUM PUMP

PERFORMANCE YOU CAN RELY ON



D-LAB membrane pumps with their chemically resistant Teflon® heads, diaphragms and Kalrez® valves, offer the chemical or pharmaceutical laboratory user a wide range of choice.

The one head, 100 mbar ultimate vacuum pumps are suitable for use with drying equipment or for replacing water-jet pumps, whilst the two head, 8 mbar ultimate vacuum pumps are suitable for rotary evaporation, gas transfer and a wide range of medium vacuum applications.



Features and Benefits

- 100% lubricant free, maintenance free and quiet.
- Six different pumping capacities and modular expansion – the D-LAB can be optimised for any application.
- All parts of the pump head in contact with gases being pumped are resistant against aggressive substances (PTFE, FFKM, PVDF).

Applications

- Rotary evaporation.
- Gel drying.
- Vacuum desiccation.
- Vacuum filtration.
- Vacuum degassing.

Pump Range

D-LAB

- D-LAB 10-100
- D-LAB 20-100
- D-LAB 34-100
- D-LAB 10-8
- D-LAB 20-8
- D-LAB 34-8



Performance Curves

D-LAB Diaphragm vacuum pump

D-LAB



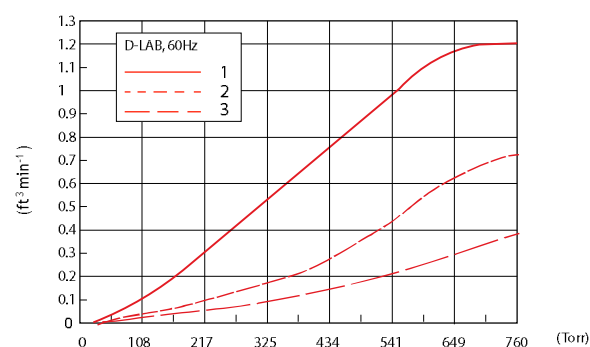
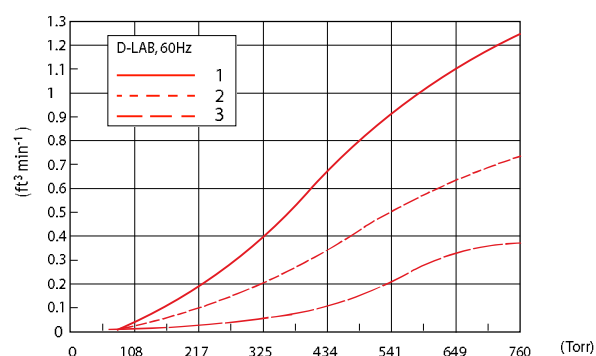
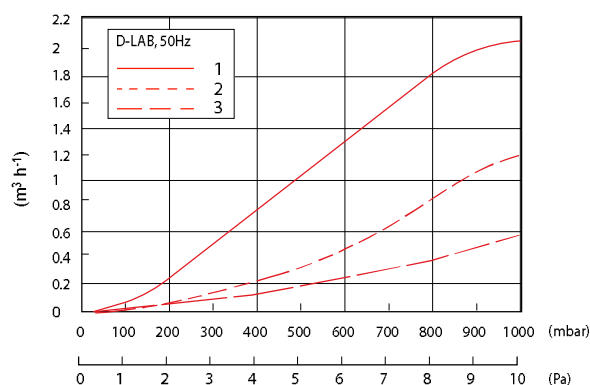
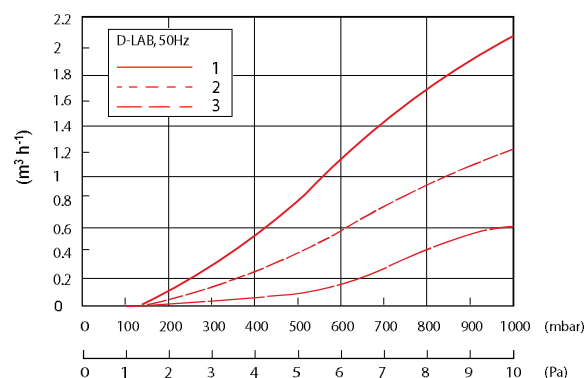
Pumping speed (air)		
10-100, 10-8	0.6 m ³ h ⁻¹ , 10 lmin ⁻¹	
20-100, 20-8	1.2 m ³ h ⁻¹ , 20 lmin ⁻¹	
34-100, 34-8	2.0 m ³ h ⁻¹ , 34 lmin ⁻¹	
Ultimate vacuum, 50 Hz (60 Hz)		
10-100, 20-100, 34-100	100 mbar (75 mbar)	
10-8, 20-8, 34-8	8 mbar (6 mbar)	

110 V pumps are supplied with USA plug; 220-240 V pumps are supplied with an IEC connector but mains cable with correct plug must be ordered separately.

Ordering information

Product description	Order no:
D-LAB 10-100, diaphragm pump, 110 V, 60 Hz, 1-ph	A48015941
D-LAB 10-100, diaphragm pump, 220-240 V, 50 Hz, 1-ph	A48015960
D-LAB 20-100, diaphragm pump, 110 V, 60 Hz, 1-ph	A48017941
D-LAB 20-100, diaphragm pump, 220-240 V, 50 Hz, 1-ph	A48017960
D-LAB 34-100, diaphragm pump, 110 V, 60 Hz, 1-ph	A48021941
D-LAB 34-100, diaphragm pump, 220-240 V, 50 Hz, 1-ph	A48021960
D-LAB 10-8, diaphragm pump, 110 V, 60 Hz, 1-ph	A48016941
D-LAB 10-8, diaphragm pump, 220-240 V, 50 Hz, 1-ph	A48016960
D-Lab 20-8, diaphragm pump, 110 V, 60 Hz, 1-ph	A48018941
D-Lab 20-8, diaphragm pump, 220-240 V, 50 Hz, 1-ph	A48018960
D-LAB 34-8, diaphragm pump, 110 V, 60 Hz, 1-ph	A48022941
D-LAB 34-8, diaphragm pump, 220-240 V, 50 Hz, 1-ph	A48022960

D-LAB Performance Curve



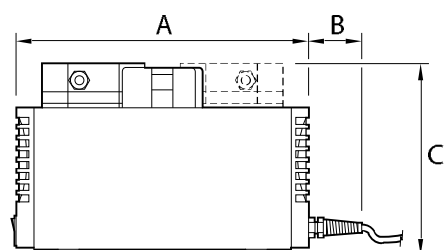
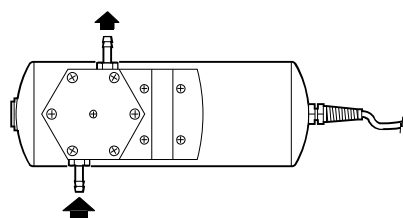
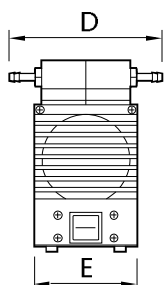
- 1 D-LAB 34-100
- 2 D-LAB 20-100
- 3 D-LAB 10-100

- 1 D-LAB 34-8
- 2 D-LAB 20-8
- 3 D-LAB 10-8

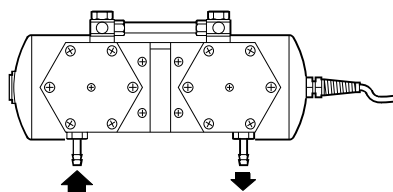
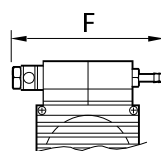
Dimensions

DLAB dimensions

One head pump



Two head pump



	A	B	C	D	E	F
10-100	255	50	182	144	98	-
20-100	268	60	204	157	110	-
34-100	296	60	222	172	122	-
10-8	288	53	184	-	98	140
20-8	312	59	204	-	110	153
34-8	341	62	222	-	122	169



Technical Data



	Units	DELTA
Pumping speed (air)		
10-100, 10-8	$\text{m}^3\text{h}^{-1} / \text{lmin}^{-1}$	0.6 / 10
20-100, 20-8	$\text{m}^3\text{h}^{-1} / \text{lmin}^{-1}$	1.2 / 20
34-100, 34-8	$\text{m}^3\text{h}^{-1} / \text{lmin}^{-1}$	2 / 34
Ultimate vacuum		
10-100, 20-100, 34-100	mbar, Hz / mbar, Hz	100, 50 / 75, 60
10-8, 20-8, 34-8	mbar, Hz / mbar, Hz	8, 50 / 6, 60
Inlet and outlet connection		Riffled nozzle, suitable for 9 mm i.d. hose
Maximum inlet pressure	bar	1
Motor power and current		
10-100, 110 V 60 Hz	W / A	110 / 1.3
10-100, 220-240 V 50Hz	W / A	100 / 0.6
20-100, 110 V 60 Hz	W / A	145 / 1.9
20-100, 220-240 V 50Hz	W / A	130 / 0.9
34-100, 110 V 60 Hz	W / A	220 / 3.2
34-100, 220-240 V 50Hz	W / A	180 / 1.4
10-8, 100 V 60 Hz	W / A	110 / 1.3
10-8, 220-240 V 50Hz	W / A	90 / 0.6
20-8, 110 V 60 Hz	W / A	130 / 1.2
20-8, 220-240 V 50Hz	W / A	120 / 0.9
34-8, 110 V 60 Hz	W / A	250 / 3.2
34-8, 220-240 V 50 Hz	W / A	200 / 1.5
Enclosure rating		IP44
Operating temperature	°C	5-40
Weight		
10-100	kg / lbs	5.8 / 12.8
20-100	kg / lbs	7.1 / 15.6
34-100	kg / lbs	10.3 / 22.7
10-8	kg / lbs	6.9 / 15.2
20-8	kg / lbs	9.3 / 20.5
34-8	kg / lbs	12.6 / 27.7