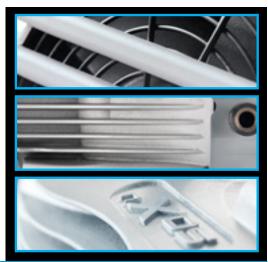
SMALL DRY PUMPS THE INTELLIGENT CHOICE

nXDS Dry Scroll Pump	67
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D-LAB Diaphragm Vacuum Pump	87

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NXDS DRY SCROLL PUMP THE ULTIMATE DRY CHOICE





The nXDS is the next generation in completely oil free, dry scroll pumps and replaces the XDS5 and XDS10. nXDS improves on the original XDS pumps by offering increased pumping speeds, combined with lower ultimate pressures, lower power consumption and lower noise. Gas ballast allows for pumping of condensable vapours including, water, solvents, dilute acids and bases. nXDS pumps also feature the latest in tip seal technology giving significantly longer life between tip seal changes. Integrated inverter drive with auto sensing voltage input delivers optimised pumping performance globally. nXDS pumps are designed to be completely field serviceable.



Features and Benefits

- Better work environment and low environmental impact - quiet operation
- Simple operation intelligent and easy to use controls
- No contamination and no oil to dispose of hermetically sealed for a lubricant-free vacuum environment
- Low cost of ownership long service interval and low power consumption from a single sided scroll arrangement

Applications

- · General clean pumping applications
- Scanning Electron Microscopes SEM
- · Beam lines and high energy physics
- Backing turbo pumps
- · Centrifuges, ultra-high speed

Pump Range

nXDS6i

- nXDS6i
- nXDS6iC
- nXDS6iR

nXDS10i

- nXDS10i
- nXDS10iC
- nXDS10iR

- nXDS15i - nXDS15i
 - nXDS15iC
- nXDS15iR

nXDS20i

- nXDS20i
- nXDS20iC
- nXDS20iR

C Version. More Chemically resistant version fitted with Chemraz ® internal valves and stainless steel fittings

R Version. For gas recirculation with gas ballast feature blanked off

Chemraz ® is a registered trademark of Greene Tweed







Performance Curves

nXDS6i Dry Scoll Pump

nXDS6i

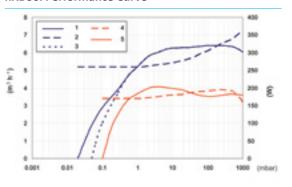


Peak Pumping Speed $\frac{6.2 \text{ m}^3 \text{h}^{\text{-}1}}{(3.6 \text{ ft}^3 \text{min}^{\text{-}1})}$

Ultimate Pressure

0.020 mbar (0.015 Torr)

nXDS6i Performance Curve



Ordering information

Product description	Order no:
nXDS6i 100 - 240 V, 50 - 60 Hz, Single Phase	A73501983
nXDS6iC 100 - 127 V, 200 - 240 V, 1ph 50 - 60 Hz	A73502983
nXDS6iR 100 - 127 V, 200 - 240 V, 1ph 50 - 60 Hz	A73503983

1	Normal Pumping Speed	4	min Standby Power
2	Normal Full Power	5	min Standby speed
3	Normal GB Speed		

nXDS10i Dry Scoll Pump

nXDS10i



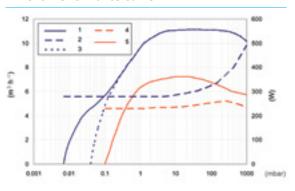
Peak Pumping Speed 11.4 m³h⁻¹

(6.7 ft³min⁻¹)

Ultimate Pressure

0.007 mbar (0.005 Torr)

nXDS10i Performance Curve



Ordering information

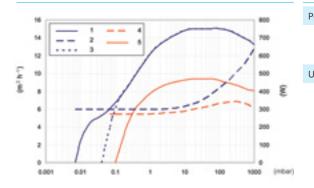
Product description	Order no:
nXDS10i 100 - 240 V, 50 - 60 Hz, Single Phase	A73601983
nXDS10iC 100 - 127 V, 200 - 240 V, 1ph 50 - 60 Hz	A73602983
nXDS10iR 100 - 127 V, 200 - 240 V, 1ph 50 - 60 Hz	A73603983

1	Normal Pumping Speed	4	min Standby Power
2	Normal Full Power	5	min Standby speed
3	Normal GB Speed		

nXDS15i Dry Scoll Pump

nXDS15i Performance Curve

nXDS15i



Peak Pumping Spe	eed
	15.1 m ³ h ⁻¹
	(8.9 ft ³ min ⁻¹)
Jltimate Pressure	
	0.007 mbar

(0.005 Torr)



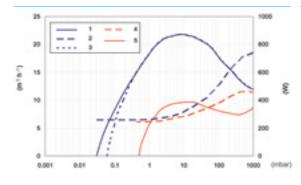
1	Normal Pumping Speed	4	min Standby Power
2	Normal Full Power	5	min Standby speed
3	Normal GB Speed		

Product description	Order no:
nXDS15i 100 - 240 V, 50 - 60 Hz, Single Phase	A73701983
nXDS15iC 100 - 127 V, 200 - 240 V, 1ph 50 - 60 Hz	A73702983
nXDS15iR 100 - 127 V, 200 - 240 V, 1ph 50 - 60 Hz	A73703983

nXDS20i Dry Scoll Pump

nXDS20i Performance Curve

nXDS20i



Peak Pumping Speed		
	22.0 m ³ h ⁻¹	
	(13.0 ft³min⁻¹)	
Ultimate Pressure		
	0.030 mbar	
	(0.022 Torr)	



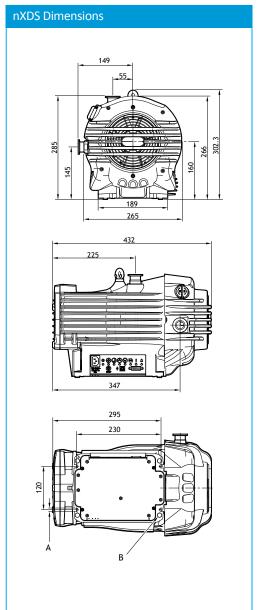
8	

1	Normal Pumping Speed	4	min Standby Power
2	Normal Full Power	5	min Standby speed
3	Normal GB Speed		

Product description	Order no:
nXDS20i 100 - 240 V, 50 - 60 Hz, Single Phase	A73001983
nXDS20iC 100 - 127 V, 200 - 240 V, 1ph 50 - 60 Hz	A73802983
nXDS20iR 100 - 127 V, 200 - 240 V, 1ph 50 - 60 Hz	A73803983



Dimensions





- A 9 mm wide slots 4 off
- B Rubber feet 4 off

All variants are the same Dimensions in mm (in)

Technical Data









	Units	nXDS6i	nXDS10i	nXDS15i	nXDS20i
Nominal rotational speed	rpm	1800			
Displacement	m³h-1 / ft³min-1	6.8/ 4.0	12.7/ 7.5	17.1/ 10.1	28.0/ 16.5
Peak pumping speed	m³h-1 / ft³min-1	6.2/ 3.6	11.4/ 6.7	15.1/ 8.9	22.0/ 13.0
Ultimate vacuum (total pressure)	mbar/ Torr	0.020/ 0.015	0.007 / 0.005		0.030/ 0.022
Minimum standby rotational speed	rpm	1200			
Speed control resolution (percentage of full rotation speed)		1%			
Max water vapour pumping rate	gh ⁻¹	110	145	280	220
Maximum continuous inlet pressure	mbar	200 50		50	
Voltage input	V	100-127, 200-240 (+/-10%)			
Voltage frequency	Hz	50/60			
Motor power 1-ph*	W	260	280	300	260
Power connector 1-ph		IEC EN60320 C13			
Recommended fuse		10A, 250Vac rms			
Weight	kg / lb	26.2/ 58	25.8/ 57	25.2/56	25.6/ 56
Inlet flange		NW25			
Exhaust flange		NW25			
Noise level**	dB(A)	52			
Vibration at inlet flange	mms ⁻¹ (rms)	< 4.5			
Leak tightness (static)	mbar ls ⁻¹	< 1x10 ⁻⁶			
Operating temperature range	°C/F	10 to 40 / 41 to 104			







^{*} Typical.
** For low fan speed, typical at ultimate end when load/ambient conditions allow.

Service, Spares and Accessories

The control cable is used to connect the nXDS pump directly to the RS485 or RS232 serial input on your control equipment or a PC, or alternatively, to an Edwards controller such as a TIC (Turbo Instrument Controller) or TAG (Turbo & Active Gaugecontroller).

Pump-to-Controller Cable

Product description	Order no:	Product description	Order no:
Interface cable 1.0 m	D39500835	2m electrical supply cable for 1-ph pumps, UK, Three-pin plug	A50505000
Interface cable 2.0 m	D39500836	2m electrical supply cable for 1-ph pumps, North European plug	A50506000
Interface cable 5.0 m	D39500837	2m electrical supply cable for 1-ph pumps, North America/Japan plug	A50507000
		2m electrical supply cable for 1-ph pumps, no plug	A50508000

Gas Ballast Adaptor

Product description	Order no:
Gas Ballast adaptor blank	A73501806
Gas Ballast adaptor	A73501809

Exhaust

Product description	Order no:
NW25 inlet/outlet exhaust filter silencer	A50597805
Silencer spares kit	A50597800
Exhaust nozzle kit 3/4" to 15mm	A50509000
Exhaust Silencer	A50597000
XDS Filter 5 micron element kit	A50597802
XDS Filter 1 micron element Kit	A50597803

Vibration Isolator

Product description	Order no:
nXDS vibration isolator (0.45kg)	A24801411

Chemical Resistance Conversion Unit

Product description	Order no:
nXDS6i,10i & 15i chemical resistance conversion unit	A73501807
nXDS20i chemical resistance conversion unit	A73501808

nXDS Kits

Product description	Order no:
nXDS Tip Seal Service Kit	A73501801
nXDS Bearing Replacement Kit	A73501802

Service

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The majority of these centres employ Service Engineers who have undergone comprehensive Edwards training courses

Order spare parts and accessories from your nearest Edwards company or distributor.

When you order, please state for each part required:

- Model and item number of your equipment.
- Serial number (if any).
- Item number and description of the part.

XDS SCROLL VACUUM PUMP

THE ULTIMATE DRY CHOICE





The XDS35i pump has an innovative bearing shield design that isolates the vacuum environment from all forms of lubricant, not only making it totally dry but hermetically sealed. The XDS46i pump is a development on the XDS35i and thus shares many of the same features and benefits but with a peak speed boosted to 40 m³h¹¹. The XDS46i is optimised for maximum pumping speed at inlet pressures between 1 mbar and 10 mbar making it ideally suited for LCMS and ICPMS applications requiring a higher pumping speed than that offered by the XDS35i. Recent improvements in tip seal technology have lead to reduced tip seal wear therefore giving a longer time between service interventions.



Features and Benefits

- Lubricant-free within the vacuum envelope and hermetically sealed means totally clean and dry vacuum to prevent cross contamination
- No atmosphere to vacuum shaft seals means bearings are completely isolated, this prevents process attack and means bearings run cooler and last longer
- No oil changes required eliminating costs of contaminated oil disposal
- Simple single sided scroll design means maintenance is done in minutes for low cost of ownership and maximum up-time
- Inverter drive for consistent pumping speed at 50/60Hz

Applications

- Clean pumping applications
- Automotive
- Beam lines and high energy physics
- Centrifuges, ultra high speed
- Coating
- ICPMS inlet
- Coating
- High throughput LCMS

Pump Range

XDS

- XDS35i
- XDS46i









Performance Curves

XDS35i Scroll Vacuum Pump

XDS35i



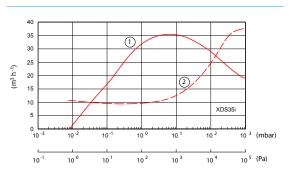
Peak Pumping Speed

35 m³h⁻¹ (21 ft³min⁻¹)

Ultimate Pressure

1 x 10⁻² mbar (8 x 10⁻³ Torr)

XDS35i Performance Curve



Ordering information

Product description	Order no:
XDS35i 100-120/200-230V, 1-ph, 50/60Hz with an IEC60320 connector, factory set to 230V	A73001983
XDS35i-NGB 1-ph 100-120/200-230V set to 230V	A73005983

Note: Mains leads must be ordered separately, please see accessories and spares at the end of this section for the relevant standard XDS pump for the correct mains lead.

1	Speed
2	Power

XDS46i Scroll Vacuum Pump

XDS46i



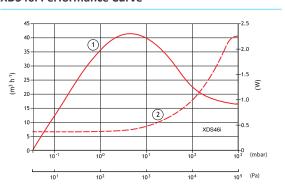
Peak Pumping Speed

40 m³h⁻¹ (23.5 ft³min⁻¹)

Ultimate Pressure

5 x 10⁻² mbar (4 x 10⁻² Torr)

XDS46i Performance Curve



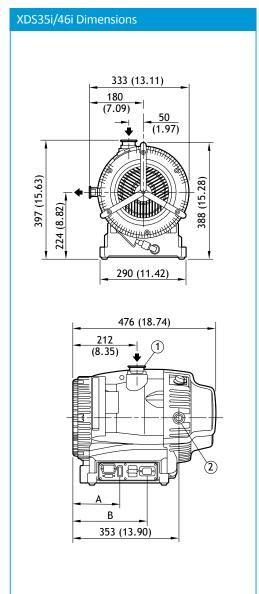
Ordering information

Product description	Order no:
XDS46i 100-120/200-230V, 1-ph, 50/60Hz with an	A73101983
IEC60320 connector, factory set to 230V	

Note: Mains leads must be ordered separately, please see accessories and spares at the end of this section for the relevant standard XDS pump for the correct mains lead.

1	Speed
2	Power

Dimensions





	XDS35i/ 46i
A	150 (5.91)
В	247.5 (9.74)
1	NW40
2	NW25









Technical Data





	Units	XDS35i	XDS46i
Displacement 50 or 60Hz	m³h-1 / ft³min-1	43/ 25	60/ 35
Peak pumping speed 50 or 60Hz	m ³ h ⁻¹ / ft ³ min ⁻¹	35 / 21	40 / 23.5
Ultimate vacuum (Total pressure)	mbar/ Torr	1 x 10 ⁻² / 8 x 10 ⁻³	5 x 10 ⁻² / 4 x 10 ⁻²
Max inlet pressure for water vapour	mbar/ Torr	35 / 23	40 / 30
Max water vapour pumping rate – GB I	gh ⁻¹	70	-
Max water vapour pumping rate – GB II	gh ⁻¹	240	-
Max allowed outlet pressure	bar gauge / psig*	0.2/ 2.9	
Max allowed inlet and GB pressure	bar gauge / psig*	0.5 / 7	
Motor power	kW	0.52	
Power connector		IEC EN60320 C19	
Nominal rotation speed	rpm	1750	
Weight	kg / lb	48 / 105	
Inlet flange		NW40	
Exhaust flange		NW25	
Noise level	dB(A)	57	55.4
Vibration	mms ⁻¹ (rms)	<4.5	
Leak tightness (static)	mbar ls ⁻¹	<1 x 10 ⁻⁶	
Operating temperature range	°C / F	10 to 40 / 50 to 104	

^{*1} bar gauge/ 14 psig for short period of time only

Service, Spares and Accessories

XDS Accessories

Product description	Order no:
Exhaust silencer XDS35i	A50597001
Gas Ballast Adapter with 0.25mm hole	A50626801
XDS NW25 Inlet Outlet filter	A50597805
XDS NW40 Inlet Outlet Filter	A50597806
XDS Filter 5 micron Element Kit	A50597802
XDS Filter 1 micron Element Kit	A50597803

Electrical Supply Cable

Product description	Order no:
2m Electrical supply cable, no plug	A50508003
2m Electrical supply cable, North America/Japan plug	A50507003
2m Electrical supply cable, North European plug	A50506003
2m Electrical supply cable, UK, three-pin plug	A50505003

XDS Kits

Product description	Order no:
Tip seal kit XDS35i	A73001801
Tip seal kit XDS46i	A73101801
Silencer spares kit	A50597801

Acoustic Enclosure

Product description	Order no:
XDS acoustic enclosure 110-120V	NRY5C0000
XDS acoustic enclosure 200-240V	NRD797000







Service

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- Serial number (if any).
- Item number and description of the part.



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XDS100B BOOSTER PUMP

THE ULTIMATE DRY CHOICE





The XDS100B is a scroll booster, with a pumping mechanism designed specifically for high pumping speed. Like all booster pumps, it needs to be used in conjunction with a primary pump and is ideally matched with Edwards XDS35i or XDS46i scroll pumps. The XDS100B is optimised for maximum pumping speed at inlet pressures between 1 mbar and 10 mbar making it ideally suited for high throughput LCMS applications. The advanced pump design has resulted in virtually no tip seal wear thus reducing service intervention and maximising uptime. The inverter drive allows the pump to be connected to a single phase supply and controls the motor characteristics and ensures the pump always runs at optimum speed and allows the user to control the pump remotely.

Features and Benefits

- Lubricant-free within the vacuum envelope and hermetically sealed means totally clean and dry vacuum to prevent cross contamination
- No atmosphere to vacuum shaft seals means bearings are completely isolated, this prevents process attack and means bearings run cooler and last longer
- No oil changes required eliminating costs of contaminated oil disposal
- Simple single sided scroll design means maintenance is done in minutes for low cost of ownership and maximum up-time
- Inverter drive for consistent pumping speed at 50/60Hz

Applications

High throughput – LCMS

Pump Range

XDS

- XDS100B



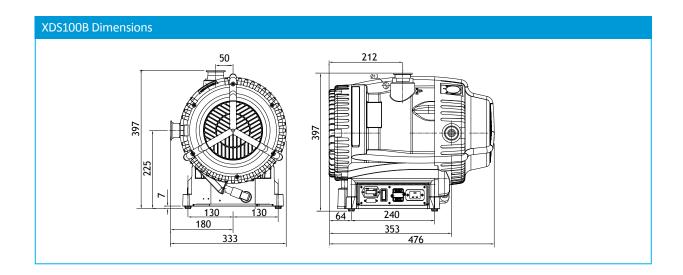
Performance Curves

XDS100B Scroll Booster Vacuum Pump XDS100B XDS100B (with appropriate backing pump) **Performance Curve** Peak Pumping Speed 95 m³h⁻¹ 1.6 (56 ft³min⁻¹) 80 Ultimate Pressure 1.2 <1 x 10⁻² mbar € (<8 x 10⁻³ Torr) 2 XDS100B 0.2 **Ordering information** 10⁵ (Pa) 103 Product description Order no: XDS100B 1-ph, 100-120/200-230V Set to 230V A73201983 Speed 1

2

Power

Dimensions



Technical Data



	Units	XDS100B
Displacement 50 or 60Hz		
Peak pumping speed 50 or 60Hz	m³h-1 / ft³min-1	95/56
Ultimate vacuum (Total pressure - depends on backing pump)	mbar / Torr	<1 x 10 ⁻² / <8 x 10 ⁻³
Max inlet pressure for water vapour	mbar / Torr	20 / 15
Max permitted continuous exhaust pressure	mbar	60
Max chamber volume to pump down from Atmospheric pressure	litres	100
Max chamber volume for cyclic duty - max 6 per hour	litres	50
Max allowed inlet and GB pressure for short duration	bar gauge / psig	0.5 / 7
Motor power	kW	0.52
Power connector		IEC EN60320 C19
Nominal rotation speed	rpm	1750
Weight	kg/Ib	48 / 105
Inlet flange		NW40
Exhaust flange		NW40
Noise level	dB(A)	52.1
Vibration	mms ⁻¹ (rms)	<4.5
Leak tightness (static)	mbar ls ⁻¹	<1 x 10 ⁻⁶
Operating temperature range	°C / F	10 to 40 / 50 to 104



Service, Spares and Accessories

Electrical Cables

Product description	Order no:
Lead Assembly, 13 A, C19, UK	A505-05-003
Lead Assembly, 16 A, C19, Europe	A505-06-003
Lead Assembly, 15 A, C19, USA	A505-07-003
Lead Assembly, 20 A, C19, No Plug	A505-08-003

Silencer

Product description	Order no:
Silencer	A50597001
Silencer spares kit	A50597801

Gas-Ballast

Product description	Order no:
Gas-ballast adaptor	A50502000

Tip Seal and Exhaust Kit

Product description	Order no:
Tip Seal and exhaust Kit XDS35i / 100B	A73001801

Service

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When you order, please state for each part required:

- Model and item number of your equipment.
- Serial number (if any).
- Item number and description of the part.

XDD1 DIAPHRAGM VACUUM PUMP THE ULTIMATE DRY CHOICE





The Edwards XDD1 diaphragm pumps are used for backing small compound turbomolecular pumps in clean, high vacuum applications. They comply with EN61010, EN1012, CSA/UL and are designed to be free standing bench top units. The a.c. voltage motor can be used on worldwide supplies ranging from 100 to 115 V, and 200 to 230 V. The d.c. voltage motor runs on 24 V via a 15 pin DIN connector. By selecting the appropriate mode the pump speed can be controlled by the user to provide variable pumping speed. This version is suited to the customer who is building their own a system. Pumps are not supplied with connection cables. A suitable cable should be ordered with the pump.



Features and Benefits

- Dry pumping, oil free turbomolecular backing pump with no oil disposal issues
- Compact and lightweight with a small footprint
- Worldwide a.c. voltage or 24 V d.c.
- On/off switch
- EN 60320 connector on AC pumps

Applications

- RGA
- Mass spectrometers
- Cryostat and Dewar evacuation
- Ion pump evacuation
- · Surface science

Pump Range

XDD1

- XDD1 a.c.
- XDDS d.c.



Performance Curves

XDD1 Diaphragm Vacuum Pump

XDD1



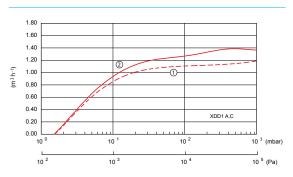
Pumping Speed a.c. 50Hz 1.2 m³h⁻¹ 60Hz 1.5 m³h⁻¹ d.c. 600 rpm 0.6 m³h⁻¹ 2200 rpm 1.6 m³h⁻¹ Ultimate Vacuum (Typical)

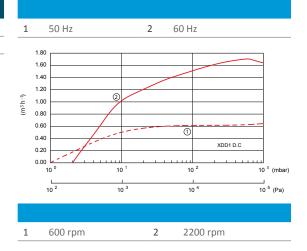
<2 mbar 1200 rpm

Ordering information

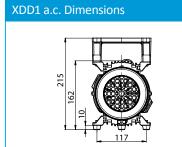
Product description	Order no:
XDD1 Diaphragm Pump 100-115V/200-230V 50/60 Hz	A74602983
XDD1 Diaphragm Pump 24 V d.c.	A74602991

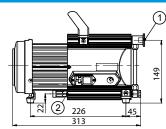
XDD1 Performance Curve

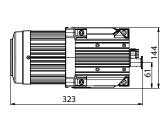


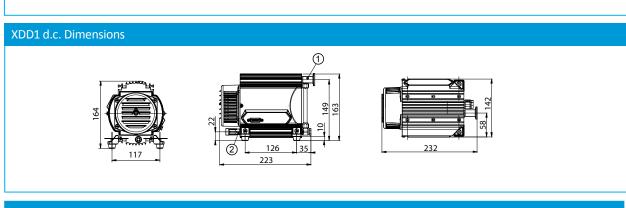


Dimensions









1 Inlet 2 Outlet

Technical data



	Units	XDD1
Pumping Speed		
a.c.		
50 Hz	m³h-1	1.2
60 Hz	m³h-¹	1.4
d.c.		
600 rpm	m³h ⁻¹	0.6
1700 rpm (factory settings)	m³h⁻¹	1.4
2200 rpm	m³h ⁻¹	1.7
Ultimate vacuum (typical)	mbar	<2
Ambient temperature limit	°C	10 to 40
Inlet connection		NW16
Exhaust connection		The pump is fitted with a silencer which can be removed and an exhaust line connected with a 1/8 inch BSP fitting
Max allowed inlet pressure	bara	1
Power connector		IEC EN60320 C13
Motor power	·	
a.c.	W	80
d.c.	W	64
Weight		
a.c.	kg	6.5
d.c.	kg	4.1



Service, Spares and Accessories

Service Kit

Product description	Order no:
XDD1 diaphragm service kit	A74601800

2m Electrical Supply Cable

Product description	Order no:
2m electrical supply cable for 1-ph pumps, UK plug 3A	A50516000
2m electrical supply cable for 1-ph pumps, North European plug	A50506000
2m electrical supply cable for 1-ph pumps, North America/Japan plug	A50507000
2m electrical supply cable for 1-ph pumps, no plug	A50508000

Extension Cable

Product description	Order no:
XDD/DX/EXDC Extension Cable 1m	D39700835
XDD/DX/EXDC Extension Cable 2m	D39700836
XDD/DX/EXDC Extension Cable 5m	D39700837

Service

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- Serial number (if any).
- Item number and description of the part.

D-LAB DIAPHRAGM VACUUM PUMP THE ULTIMATE DRY CHOICE





The 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, either used as stand-alone pumps or as part of a sophisticated system.

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







Features and Benefits

- Teflon® heads and diaphragms
- One and two head versions
- 3 Sizes
- Compact, space saving design
- Low noise

Applications

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

Pump Range

D-LAB

- D-LAB

Technology

- The vacuum pumps are gas-tight, oil-free, maintenance-free and quiet.
- High ultimate vacuum and fast pump down time.
- All parts of the pump head in contact with gases being pumped are resistant against aggressive substances (materials: PTFE, FFKM, PVDF).
- New valve system is very tolerant of water vapour and condensates.
- Illuminated switch on pump.
- Overload protection by means of thermal cut-out.
- Compact design with space saving dimensions.
- Changing the diaphragms and valves in the vacuum pumps is a simple procedure.
- The individual system components are easily integrated into one unit which can be progressively expanded.
- The entire unit is mounted on a sturdy baseplate which makes it safe and easy to transport.
- Individual components are easily removed because they all have plug in connectors.
- Additional laboratory equipment can easily be mounted on the groove holding the separator or on the support rods and horizontal bars.





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	

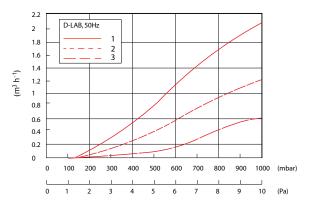
Ultimate Vacuum, 50Hz (60Hz)

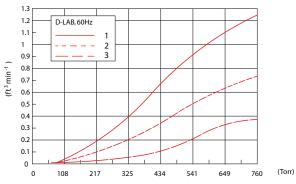
10-100, 20-	
100, 34-100	100 mbar (75mbar)
10-8, 20-8, 34-8	8 mbar (6mbar)

Ordering information

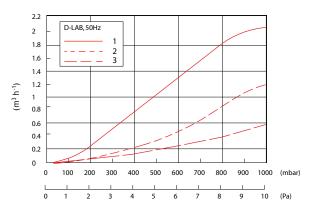
Product description	Order no:
D-LAB 10-100, diaphragm pump, 110V, 60Hz, 1-ph	A48015941
D-LAB 10-100, diaphragm pump, 220 –240, 50Hz, 1-ph	A48015960
D-LAB 20-100, diaphragm pump, 110V 60Hz, 1-ph	A48016960
D-LAB 20-100, diaphragm pump, 220- 240~ 50Hz, 1-ph	A48017941
D-LAB 34-100, diaphragm pump, 110~ 60Hz,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

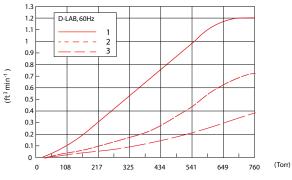
D-LAB Performance Curve





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



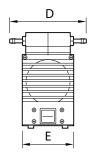


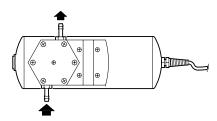
1	D-LAB 34-8
2	D-LAB 20-8
3	D-LAB 10-8

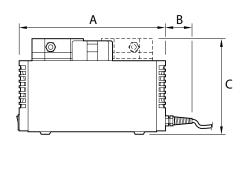
Dimensions

DLAB Dimensions

One head pump

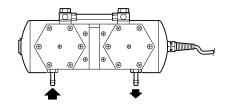


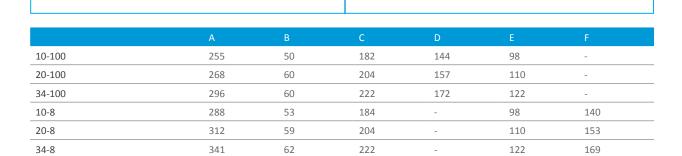




Two head pump











Technical Data



	Units	D-LAB
Pumping speed (air)		
10-100, 10-8	m³h⁻¹/ lmin⁻¹	0.6 / 10
20-100, 20-8	m³h-¹/ lmin-¹	1.2 / 20
34-100, 34-8	m³h-¹/ 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, 110V 60Hz	W/A	110 / 1.3
10-100, 220-240V 50Hz	W/A	100 / 0.6
20-100, 110V 60Hz	W/A	145 / 1.9
20-100, 220-240V 50Hz	W/A	130 / 0.9
34-100, 110V 60Hz	W/A	220 / 3.2
34-100, 220-240V 50Hz	W/A	180 / 1.4
10-8, 100V 60Hz	W/A	110 / 1.3
10-8, 220-240V 50Hz	W/A	90 / 0.6
20-8, 110V 60Hz	W/A	130 / 1.2
20-8, 220-240V 50Hz	W/A	120 / 0.9
34-8, 110V 60Hz	W/A	250 / 3.2
34-8, 220-240V 50Hz	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

Service, Spares and Accessories

D-LAB Accessories

Product description	Order no:
D-LAB Controller 230V	A48015138
D-LAB Controller 100/110V	A48015139
D-LAB Baseplate 10+20-x	A48015134
Baseplate for D-LAB Pumps 34-100, 34-8	A48021134
D-LAB Separator	A48015136
D-LAB Condenser	A48015137
Gas Ballast for D-LAB pumps 10-100, 10-8	A48015135
Gas Ballast for D-LAB pumps 20+34-8	A48017135

Electrical Supply Cable

Product description	Order no:
2m electrical supply cable for 1-ph pumps, UK, Three-pin plug	A50505000
2m electrical supply cable for 1-ph pumps, North European plug	A50506000
2m electrical supply cable for 1-ph pumps, No plug	A50508000

Service Kits

Product description	Order no:
Service Kit for D-LAB 10-100	A48015815
Service Kit for D-LAB 20-100	A48017815
Service Kit for D-LAB 34-100	A48021815
Service Kit for D-LAB 10-8	A48016815
Service Kit for D-LAB 20-8	A48018815
Service Kit for D-LAB 34-8	A48022815

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Service

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