

DB, BL

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Deionisers

Laboratory Deionisers

COPE – ELGA



DB030-10

DB030-20 with DB030-80

Cope-Elga Vision Deionisers

- ◆ High quality water instantly available
- ◆ Simple to install – wall mounting
- ◆ Colour change resin
- ◆ Supplied with dispensing spout
- ◆ Hand held dispensing gun accessory on flexible lead

Cope-Elga Vision Deionisers provide quality water as and when it is required. The need for elaborate and costly storage is eliminated. Just turn on the mains water tap and take off the water instantly either through the top dispensing spout or the accessory hand held dispensing gun. The resin changes colour when the cartridge is exhausted.

Model		Vision 125	Vision 250
Max. Flow rate	l/h	60	60
Max. Input pressure	psi	90 (6 bar)	90 (6 bar)
Mains water connection		0.5" BSP hose tail both models	
Typical water quality	µS/cm	0.1 to 10 both models	
Typical output, water areas			
Hard (400-500ppm)	litres	80 to 100	170 to 200
Mid (100-300ppm)	litres	150 to 400	300 to 800
Soft (40-80ppm)	litres	500 to 900	1100 to 1900
Overall dimensions H x W x D	mm	385 x 92 x 100	660 x 92 x 100
Weight	kg	2.5	4.2

Vision Deionisers, Cope-Elga

With colour change cartridge and dispensing spout.

DB030-10 Vision 125

DB030-20 Vision 250

Spare Cartridges

DB030-60 For Vision 125

DB030-65 For Vision 250

Accessory for both models

DB030-80 Hand held dispensing gun on flexible lead

Water Purity

Ultra-pure water, as produced by the Cope-Elga Vision, is almost entirely free of dissolved mineral salts, including silica, and will have a neutral pH since the dissolved CO₂ will have been removed. From an inorganic standpoint, ultra-pure water will conform to International Pharmacopoeia and laboratory grade specifications for purified water.

For less critical applications the Cope-Elga Vision is capable of producing pure water at the end of each cartridge run, extending its life by approximately 25%. Pure water is similar to ultra-pure water although CO₂ and silica will be present.

Water analysis

	Ultra-Pure Water	Pure Water
Conductivity	1 to 0.1µS/cm	10 to 1µS/cm
Resistivity	1 to 10M -cm	0.1 to 1M -cm
Silica	<0.05 ppm (mg/l)	not removed
Carbon Dioxide	<0.5 ppm (mg/l)	not removed
Trace Dissolved Metals	<0.001 ppm (mg/l)	<0.005 ppm (mg/l)
Residual Solids	<0.5 ppm (mg/l)	<5 ppm (mg/l)
Average pH	Neutral	4 to 7

Deionisers

Laboratory Deionisers

ELGA

The ultra-pure water, as produced by these Elga deionisers is almost entirely free of dissolved mineral salts, including silica, and will have a neutral pH since the dissolved CO₂ will have been removed. From an inorganic standpoint, Ultra-pure water will conform to International Pharmacopoeia and laboratory grade specifications for purified water.

The B114 and Micromeg are compact wall-mounted units ideal for users who require low volumes of ultra-pure water. Both feature 9V battery operated colour coded conductivity meters operated by depressing the 'water test' switch allowing instant monitoring of the treated water quality. When exhaustion of the ion exchange resins is indicated, cartridge replacement is a simple, rapid operation.

The B118 is a high output, floor standing pressurised deioniser which can be incorporated into a piped distribution system or used for direct connection to equipment requiring a pressurised treated water supply. It features an analogue scale conductivity meter which can be powered by either 9V battery or from a 220-240V 50Hz mains supply if available. This monitors treated water quality and indicates when the resins are exhausted. A replacement cylinder can be fitted in minutes.

	DB105-10	DB120-10	DB200-10
<i>Model</i>	B114	micromeg	B118
<i>Output min./max. litres*</i>	20/250	100/15000	200/50000
<i>Water purity μS/cm</i>	1 to 0.1	1 to 0.1	1 to 0.1
<i>Flow rate litres/hour</i>	30	90	240
<i>Mounting</i>	Wall	Wall	Floor
<i>Cartridge</i>	Disposable	Disposable	Regenerated
<i>Meter</i>	✓	✓	✓
<i>Voltage V</i>	9	9	9 or 220-240
<i>Max. input pressure bar</i>	0.63	3.5	4.6
<i>Overall H x W x D mm</i>	380 x 180 x 152	550 x 200 x 230	880 x 220 x 210
<i>Weight kg</i>	2.2	6.5	18

*The output capacity will vary depending on the local water conditions.

Elga B114

With four C114 disposable cartridges. Without battery.

DB105-10 B114

DB109-06 Spare C114 disposable cartridges, pack of 4

Elga micromeg

With two MS:DS/4 disposable cartridges. Without battery.

DB120-10 micromeg

DB124-06 Spare MS:DS/4 disposable cartridges, pack of 4

Elga B118 pressurised

With spare C118 cylinder and conductivity meter requiring 9V battery (not supplied) or 220-240V 50Hz supplies.

DB200-10 B118

BL610-25 Accessory battery, 9V for deionisers DB105, DB120, and DB200



DB105



DB120



DB200

Deionisers

Ultrapure Water Systems, Purelab flex 3 and 4

ELGA

Compact, bench mounting water systems which can produce Type I ultrapure water for HPLC, GFAAS (graphite furnace atomic absorption spectrophotometry), ion chromatography, inductively coupled plasma atomic emission or plasma mass spectrometry and life science applications. Alternatively, Type III reverse osmosis water is available for less demanding applications such as autoclave feed, steam generators and hydroponics.

- ◆ Designed for use with pre-purified or mains feedwater
- ◆ Incorporates reverse osmosis prefilter cartridge, photo-oxidation module with UV lamp to destroy micro-organisms and break down trace organic compounds to assist in the reduction of Total Organic Carbon (TOC), microfiltration and purification modules including deionisation and organic compound absorption
- ◆ Continuous recirculation eliminates static water zones, maintaining water quality and inhibiting microbial growth
- ◆ Manual dispensing unit on supported flex with display of purity, TOC and dispensing rate
- ◆ USB interface with data output for system performance validation
- ◆ Accessories include wall mounting kit, foot pedal control switch, leak sensor, sanitisation cartridge, biofilter which reduces DNase, RNase and bacteria from the output water, and 'Point-of-use' filter which provides conformance to international standards CLSI, CLRW, ISO 3696 Grade 1, 2 and 3, ASTM, D1193-06, USP, EP and JP

Model, Purelab -	flex 3	flex 4
Feed Water		
Quality	Potable water of <2000µS/cm*	Pre-purified and filtered water of <30µS/cm
Hardness, ppm CaCO ₃	<350	Minimal
Free chlorine, ppm CL ₂	<0.5	<0.05
Chlorine, ppm CL ₂	<0.2	<0.05
Total chlorine, ppm CL ₂	<0.5	<0.05
Silica, ppm SiO ₂	<30	<2
Carbon dioxide, ppm	<30	<30
Fouling index	<10	<1
TOC	<2ppm	<50ppb
Iron/manganese	<0.05ppm	N/A
Particulates	0.2µm prefilter recommended for non-RO feeds	N/A
Drain (gravity fall with air gap L/hr)	>90	>70
Pressure min/max. psi	30/90**	1/90
*Purification pack life may vary with feed waters >1400µS/cm		
**Boost pump required if feed water pressure <60psi - details on request		
Treated Water		
Daily volume, litres	<10	<10
Flow rate litres/min	≤2	≤2
Quality		
Inorganics (resistivity at 25°C) MΩ-cm	18.2	18.2
Organics (TOC)	<5ppb	<5ppb [†]
Internal reservoir	Type III/RO water — both models ^{††}	
Bacteria, typical with point-of-use filter ^{†††}	<1 CFU/10ml — both models	
with biofilter ^{†††}	<1 CFU/10ml — both models	
Endotoxins with biofilter	<0.001 EU/ml — both models	
DNase with biofilter ^{†††}	<20pg/ml — both models	
RNase with biofilter ^{†††}	<0.02ng/ml — both models	
[†] Dependent on feed water		
^{††} Better than/equal to Type III reverse osmosis water		
^{†††} Accessory filters		

Specifications (both models)

Overall H x W x D	900 (1020 ^{***}) x 236 x 470
Weight, full, kg	23
Supply requirements	100-240V 50/60Hz single phase, 100W

^{***}With dispense flex extended

As described. For 100-240V 50/60Hz single phase supplies and feed water quality as indicated. Require, but are not supplied with DB304-59 for operation.

- DB300-40** Purelab flex 3 for potable feed water
- DB300-45** Purelab flex 4 for pre-purified/filtered feed water

Accessories

- DB304-44** Foot switch
- DB304-46** Wall mount kit
- DB304-50** Point-of-use filter
- DB304-53** Biofilter
- DB304-56** Sanitisation filter
- DB304-59** Purification filter

Spares

- DB304-65** UV lamp
- DB304-67** Reverse Osmosis (RO) module for flex 3 only
- DB304-69** Composite air vent filter



DB300

Deionisers

Permutit CD100 Deioniser

Disposable cartridge deioniser. Requires a water feed which is clean, colourless and free from organic matter. Water purity is dependent upon the quality of the inlet water.

Catalogue No.		DB685-12
Model		CD100
Output min./max.	litres	40/160
Water purity	S/cm	2 to 30
Flow rate, max	litres/hour	120
Mounting		Bench
Cartridge		Disposable
Meter		—
Voltage	V	—
Max. input pressure	bar	4
Overall H x W x D	mm	330 x 130 diameter
Weight	kg	2.5

Permutit CD100

Supplied with one colour change disposable cartridge.

DB685-12 CD100

Spare disposable colour change cartridges. Supplied in pack of 2.

DB685-50



DB685

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