

Water Treatment

DIAPHRAGM- Compressors from ABN

Service life 20 years minimum*

Reliability 100 % at continuous duty

Maintenance negligible

Power rating up to 6 bar

Compressed air 100 % oil-free

Process cost unbeatably low



ABN

Compressed Air
Technology

DIAPHRAGM compressors from ABN

100 % oil-free compressed air

Continuous duty supply

Fields of application in water treatment and conditioning

Oil-free compressed air supply to water for:

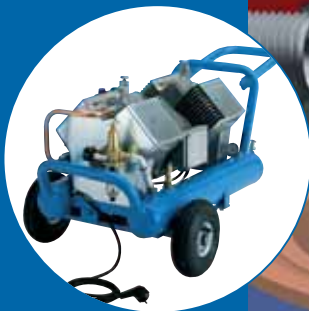
- Aeration
- Deferrisation
- Demanganisation
- Ozonisation

Oil-free vacuum pumps for:

- Water reclamation
- Drainage
- Valve control
- Sample taking



V-MEKO – the Classic



*R-MEKO – robust, flexible
for all-round use*

* except for wearing parts



VACUUM-MEKO



Applications in waste water treatment

Oil-free compressed air supply to waste water for:

- Aeration of waste water and sewage systems
- Desludging of ponds and pools
- Fish pond aeration
- Algae control
- Sludge removal
- Circulating water in car wash plants
- Large-area aeration in sewage treatment plants



Advantages of ABN compressors

- Clean end product
- Clean condensate (water)
- No contamination of water
- Insensitive to corrosion
- Suitable for continuous operation
- Minimum downtime thanks to negligible wear and extremely long maintenance intervals
- Minimum space required thanks to small dimensions
- Mobile or incorporable in a stationary system
- Unusually low noise level (optionally available with noise protection enclosure)

DIAPHRAGM compressors from ABN

Superior design features

100 % oil-free

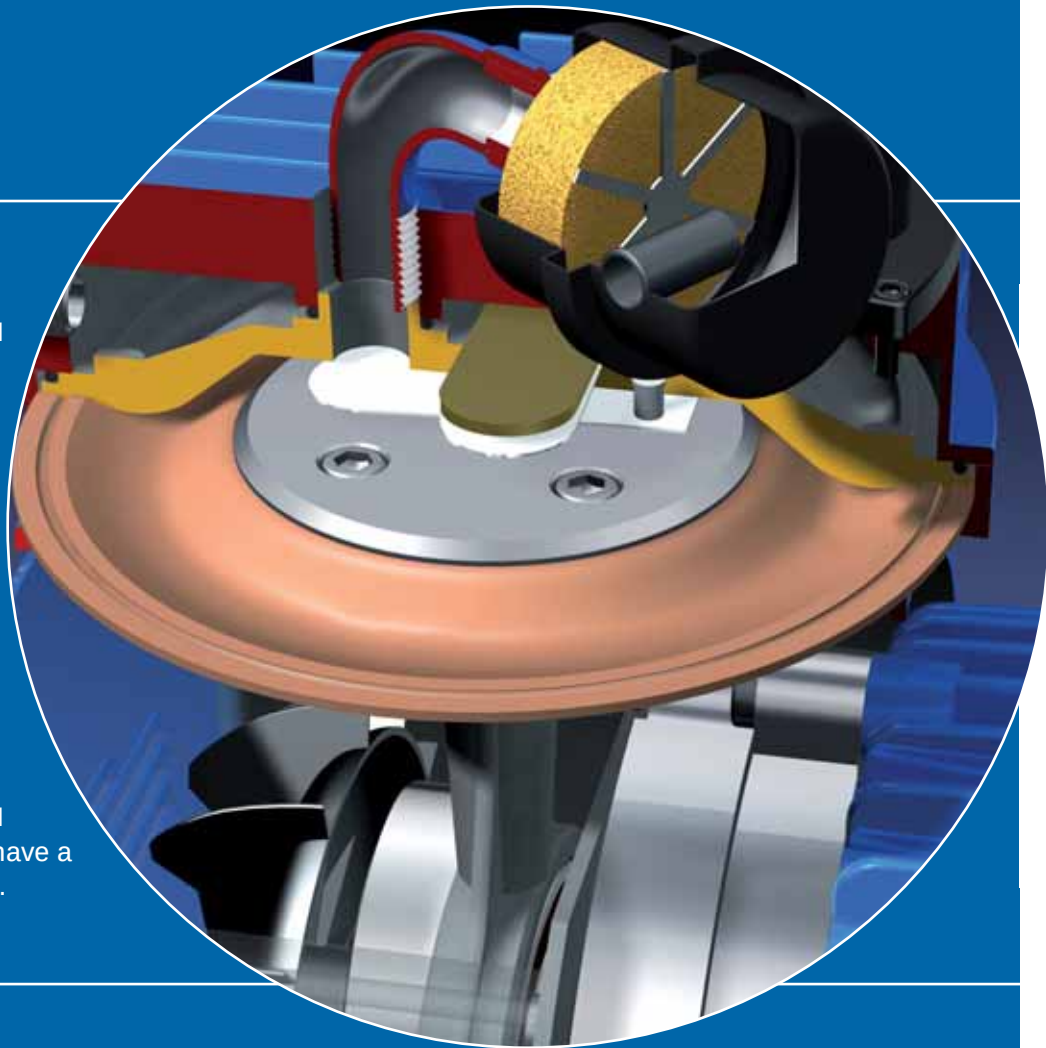
DIAPHRAGM compressors from ABN operate without oil. They produce clean, oil-free compressed air you can breathe, cleanliness you can taste in the water.

Reliable in continuous duty

DIAPHRAGM compressors from ABN have been designed for continuous duty. They have only a minimum of movable parts, so that dry running problems will not arise.

Unparalleled performance

DIAPHRAGM compressors from ABN operate at a pressure of 6 bar and have a suction capacity of up to 1440 l/min.



DIAPHRAGM compressors from ABN

Superior cost effectiveness

	Conventional compressors	EK from ABN
Purchasing cost	EUR 600,00	EUR 1100,00
Service life	2 years	20 years
Maintenance	Regular oil changes Replacement of activated carbon filter Disposal	DIAPHRAGM guarantee for 7,500 hours of operation
	= High process costs	= Low process costs

V-MEKO 250/300/400/400-MDR

The Classic

- Operating pressure 6 bar
- Up to 360 l/min suction capacity
- No buffer vessel required
- Particularly suitable for mobile field service
- Optional: automatic shutoff
- Optional: mobile or stationary compressed air plant with four V-MEKOs working parallel
- Optional: customer-specific voltages
- Special equipment on enquiry



Outstanding feature of V-MEKO – mobile unit for field service.



20 years service life – no problem for a V-MEKO.



The V-MEKO can be fitted with wheels or used as a stationary unit..



V-MEKO 250/300/400/400-MDR

Model	Max. pressure	Suction capacity	AC	3-phase AC	Motor power	Weight
V-MEKO 250/W	6 bar	250 l/min	x	–	1.1 kW	24 kg
V-MEKO 250/D	6 bar	250 l/min	–	x	1.1 kW	24 kg
V-MEKO 300/W	6 bar	300 l/min	x	–	1.1 kW	24 kg
V-MEKO 300/D	6 bar	300 l/min	–	x	1.1 kW	24 kg
V-MEKO 400/W	6 bar	360 l/min	x	–	1.1 kW	24 kg
V-MEKO 400/D	6 bar	360 l/min	–	x	1.1 kW	24 kg
V-MEKO 250/W-MDR	6 bar	250 l/min	x	–	1.1 kW	24 kg
V-MEKO 300/W-MDR	6 bar	300 l/min	x	–	1.1 kW	24 kg
V-MEKO 400/W-MDR	6 bar	360 l/min	x	–	1.1 kW	24 kg
V-MEKO 400/W-MDR-RW	6 bar	360 l/min	x	–	1.1 kW	24 kg
V-MEKO 400/D-MDR	6 bar	360 l/min	–	x	1.1 kW	24 kg
V-MEKO 400/D-MDR-PMF	6 bar	360 l/min	–	x	1.1 kW	24 kg
V-MEKO 400/W-MDR-MIC-RW	6 bar	360 l/min	x	–	1.1 kW	26 kg
V-MEKO 400/W-RW	6 bar	360 l/min	x	–	1.1 kW	24 kg
V-MEKO 400/W-RW-MIC	6 bar	360 l/min	x	–	1.1 kW	24 kg

R-MEKO 600/720/1000/1200/1440

The Big Hitter

- Operating pressure 6 bar
- Up to 1440 l/min suction capacity
- Composed of two V-MEKO compressor units and a central drive motor
- Sturdy and rigid carriage
- Available with or without a buffer vessel
- Compact and space-saving design
- Particularly suitable for mobile field service
- Easily transportable in estate car/station wagon
- Special equipment on enquiry



Compact design: can as a rule be accommodated in a station wagon.



The R-MEKO is the ideal choice for higher air requirements.



With or without a buffer vessel – the R-MEKO is also available on a carriage.



R-MEKO 600/720/1000/1200/1440

Model	Max. pressure	Suction capacity	AC	3-phase AC	Motor power	Weight	Tank
R-MEKO 600/W-A 43 – 53 kg	6 bar	600 l/min –		x		–	2.2 kW
R-MEKO 720/D-A	6 bar	720 l/min	–	x	2.2 kW	43 – 52 kg	–
R-MEKO 600/W-MIC-MT	6 bar	600 l/min	x	–	2.2 kW	57 kg	–
R-MEKO 600/D-MIC-MT	6 bar	600 l/min	–	x	2.2 kW	57 kg	–
R-MEKO 600/W-F-MIC-MT	6 bar	600 l/min	x	–	2.2 kW	57 kg	–
R-MEKO 720/D-MIC-MT	6 bar	720 l/min	–	x	2.2 kW	57 kg	–
R-MEKO 720/D-F-MIC-MT	6 bar	720 l/min	–	x	2.2 kW	57 kg	–
R-MEKO 600/10-W	6 bar	600 l/min	x	–	2.2 kW	68 kg	2 x 5 l
R-MEKO 720/10-D	6 bar	720 l/min	–	x	2.2 kW	68 kg	2 x 5 l
R-MEKO 720/60-W	6 bar	720 l/min	x	–	2.2 kW	84 kg	60 l
R-MEKO 720/60-D	6 bar	720 l/min	–	x	2.2 kW	84 kg	60 l
R-MEKO 1000/D	6 bar	1000 l/min	–	x	2 x 2.2 kW	90 kg	–
R-MEKO 1200/W	6 bar	1200 l/min	x	–	2 x 2.2 kW	90 kg	–

VACUUM-MEKO 230/250/300/400/500/600/720

The Power Ace

- Vacuum up to 90 torr
- Operating pressure 6 bar
- Up to 520 l/min suction capacity
- Reliable thanks to minimum wear
- 3-phase AC or AC drive motor (400 V 3~ 50 Hz / 230 V 1~ 50 Hz)
- On/off switch
- Exhaust silencer
- Optional: connecting thread
- Excess-current circuit breaker
- Ready to plug in
- Special equipment on enquiry
- VACUUM MEKO 70/140 on enquiry



VACUUM MEKO: powerful and reliable



All ABN compressors are available with special equipment – details on enquiry.

VACUUM-MEKO 230/250/300/400/500/600/720

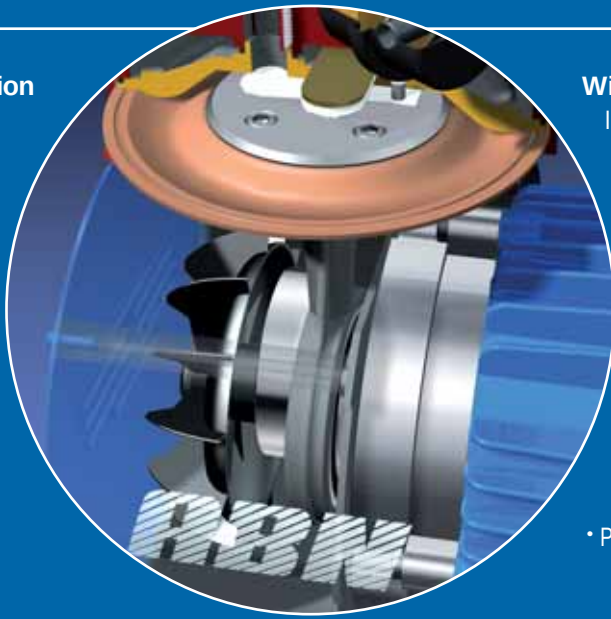
Technical data	Suction capacity	Max. vacuum			Dimensions (L x B x H)	Weight	Electrical data
V-M 500	370 l/min	87 %	100 torr	133.30 mbar	640 x 340 x 440 mm	42 kg	2.2 kW 230 V/50 Hz or 400 V/50 Hz
V-M 600	460 l/min	87 %	100 torr	133.30 mbar	640 x 340 x 440 mm	42 kg	2.2 kW 230 V/50 Hz or 400 V/50 Hz
V-M 720	520 l/min	87 %	100 torr	133.30 mbar	640 x 340 x 440 mm	42 kg	2.2 kW only 400 V/50 Hz
V-M 250	190 l/min	89 %	90 torr	120.00 mbar	430 x 340 x 370 mm	24 kg	1.1 kW 230 V/50 Hz or 400 V/50 Hz
V-M 300	230 l/min	89 %	90 torr	120.00 mbar	430 x 340 x 370 mm	24 kg	1.1 kW 230 V/50 Hz or 400 V/50 Hz
V-M 400	260 l/min	89 %	90 torr	120.00 mbar	430 x 340 x 370 mm	24 kg	1.1 kW 230 V/50 Hz or 400 V/50 Hz

ABN – Your partner for 100 % oil-free compressed air equipment

Highest quality standard by tradition

Founded in 1982, the ABN Apparatebau Nittenau GmbH took over the production of compressors and vacuum pumps from AOA Gauting, a company still today specialising in the field of fuel pumps for aircraft and space craft.

This advanced know-how has been successfully applied to the development of oil-free diaphragm compressors and vacuum pumps.



Widely acknowledged in industry

It is not only the building trade that holds DIAPHRAGM compressors from ABN in high esteem. Our products are employed in almost all branches of industry:

- Water, waste water and sewage treatment
- Medical and laboratory engineering
- Plastics engineering
- Foodstuff industry
- Decoration / Air brush
- Painting and lacquering

Innovation

Leading in diaphragm compressor engineering. Continual further development of product range.

Service

Fast repair service, spare parts delivered within 24 hours.

Counselling

Personalised consultative service on product application.

Quality

Premium quality that pays its way.

Guarantee

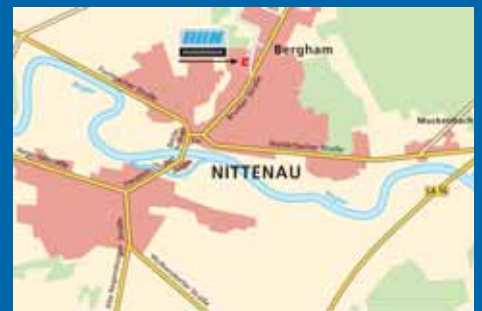
1 year manufacturer's guarantee, fast processing of guarantee cases, including wearing parts.

Delivery

Short delivery periods, strict observation of time schedules and flexible response to special requests.

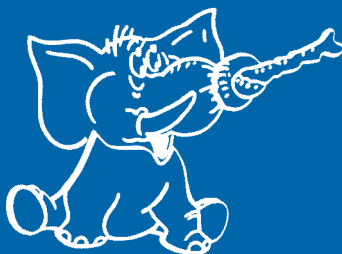
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**Compressed Air
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