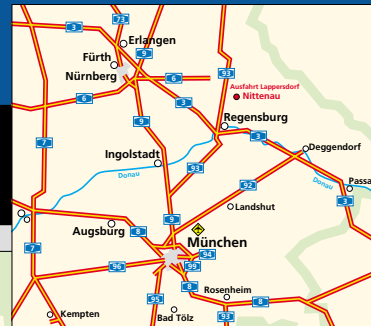


Flexibility – Integration – Efficiency

Troublefree compressed air technology – successful world-wide

For inquiries you are welcome to use our online service at www.abn-drucklufttechnik.de.



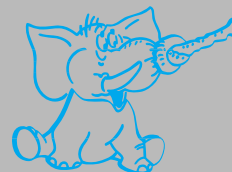
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Compressed air technology

RENOARDE, Regensburg 03/2004 GB 2000



Compressed air technology

ABN-Drucklufttechnik has concentrated on diaphragm technology from the beginning and developed it into a top performer. ABN compressors feature high reliability, long life, clean and oil-free compressed air at an operating pressure of up to 6 bar, and levels of compressor performance otherwise achieved by only large-scale piston compressors. And, as an additional advantage, they can usually be operated without a buffer tank. ABN compressors are therefore very compact and extremely well suited for mobile duty on building sites, for integration in machines and for operation directly where the compressed air is needed. At the same time ABN compressors are built for tough applications in industry and by the skilled trades. Diaphragm technology uses few moving parts. This results in extremely little wear, minimum maintenance and an accordingly high level of availability. Machines with 20 years of service under their belt continue to perform without complaint, day after day.

All ABN compressors are also available for special voltages (at extra charge).

Oil-free – Clean – Economical – Powerful

Leading-edge diaphragm compressor technology.
Ongoing, customer-oriented development of new models.

Fair handling of repair orders.
Fast delivery of spare parts.

Individual advice on applications and use.

ABN knows no compromises where quality is concerned.

1-year manufacturer's warranty.
Fair and fast handling of warranty claims, including wearing parts.

Short delivery periods, reliable observance of deadlines and a flexible response to special requests.

Innovation

Service

Consulting

Quality

Warranty

Delivery

AREAS OF APPLICATION:

SPRAYING	COATING	TEXTILE PLASTERING	FLOCKING	LACQUERING	PLASTERING	BREATHING AIR SUPPLY	PNEUMATIC CONTROL
A uniform pressure profile is essential to obtain uniform spraying results. MEKOs guarantee air of unchanging constancy.	For the uniform application of all coarse-grained plasters and similar materials we recommend the ABN funnel spray gun for unique results.	The performance characteristics of the V-MEKO are perfectly tuned for applying textile plasters with a funnel spray gun.	Dry media such as flock, mica and pebble-dash can be sprayed into soft surfaces without difficulty by generating an exactly constant pressure profile.	Our MEKO series is characterized by the most constant air rates and unchanging pressure. Pressure drops are a thing of the past.	With their unique operational safety, reliability and high effective air rates, ABN MEKOs are ideal for the operation of plastering machines. They can be used as integrated or mobile machines.	In our range of special models we offer customized ABN MEKOs designed to supply breathing air in compliance with DIN 3188.	Sensitive control systems need air rates of reliable constancy. MEKOs meet these requirements without difficulty.
S	C	T	F	L	P	B	PN

WATER TREATMENT

Oxygen is important for the treatment of fresh water. We supply the necessary technology in our diaphragm compressors. Reliable, flexible and designed for continuous duty.



Legend

MDR – automatic switch-off device
RW – condenser protection
MIC – fine dust filter and sound-damping
A – basic trolley
MT – reinforced trolley
F – filter pressure reducer
PMF – phase reversing switch



The spectrum of possible uses for ABN diaphragm compressors is large indeed. MEKO is the model of choice wherever clean and oil-free compressed air is needed, the compressor has to be mobile and easy to transport, and maximum reliability and operational safety are essential. Skilled tradesmen swear by their MEKO, particularly when working out in the field. And the reputation enjoyed by ABN diaphragm compressors in industry, water treatment, breathing-air supply, laboratories, safety systems and food companies is no less convincing – MEKOs are the optimum suppliers of compressed air.



The MEKO 230/280, designed for use in all standard plastering machines, is packed with the most modern technology to bring you numerous advantages. It is the perfect choice for plasterers and painters, for example, who require oil-free air from a compressor that works reliably in continuous use and has a long life.



Water-proof rocker switch with status indicator.
The ergonomically shaped carry-handle is now made of indestructible PVC so that it no longer becomes as hot as a metal handle.



Metal suction tube for uniform distribution of the suction air.



Metal fine dust filter with a pyramidal arrangement of filter segments for absolutely clean air.



Rugged automatic switch-off device – available as an option



Pre-drilled holes guarantee flexible installation in all plastering machines. Even older models can be retrofitted.



Technical data	MEKO 230	MEKO 280
Suction capacity	230 l/min	260 l/min
Eff. delivery rate at 4 bar	80 l/min	140 l/min
Maximum pressure	5 bar	5 bar
Safety valve settings	3.5 bar	3.5 bar
Motor rating 1.1 kW / 50 Hz	230 V AC 400 V 3-phase AC	230 V AC 400 V 3-phase AC
Motor speed	1400 rpm	1400 rpm
Power consumption at 3.5 bar	2.3 A AC 7.5 A 3-phase AC	2.3 A AC 7.5 A 3-phase AC
Protection class	IP 54	IP 54
Dimensions and weights		
L/W/H	440/160/340 mm	440/160/340 mm
Length with claw coupling	475 mm	475 mm
Weight	23.5 kg	23.5 kg
Noise level	85 dB(A)	87 dB(A)
Eff. delivery rate at:		
0.5 bar	220 l/min	235 l/min
1.0 bar	200 l/min	215 l/min
2.0 bar	150 l/min	185 l/min
3.0 bar	120 l/min	160 l/min
4.0 bar	80 l/min	140 l/min
5.0 bar	40 l/min	115 l/min

Special voltages possible!



Also available with
automatic switch-off device!

**Mobile, powerful diaphragm
compressors for the skilled trades
and industry** from ABN

Oil-free compressed air – service-proven in continuous duty

ABN diaphragm compressors are a genuine alternative to the piston compressor. The compactness and low weight of ABN V-MEKO's enable them to make the most of their special strengths in mobile service directly at the point of need. And thanks to ABN's optimized diaphragm technology there are only a few moving parts. This means very little wear and a minimum of maintenance. ABN V-MEKO's are reliable and long-lasting. A working life of 20 years is no rarity – and we still keep stocks of spare parts even for these models.

With pressures up to 6 bar and suction rates up to 360 l/min, these ABN compressors are predestined for use on building sites, interior finishing, redevelopment and renovation projects, and with and in plastering machines.

Because of the diaphragm concept, V-MEKOS generally have no need of a buffer tank. For special applications or when higher compressed air capacities are required, we can also deliver the V-MEKO with an automatic switch-off device or in the form of a mobile and stationary compressed air center with a parallel arrangement of up to four V-MEKOS.



Model RW-MIC with
condenser protection,
fine dust filter and one-
hand coupling



Model V-MEKO 400/W
MDR with automatic
switch-off device



Mobile compressor center with 2 V-MEKO 400s on a 90 l tank



Other configurations are available to order



Model V-MEKO 400/40 W as a mobile compressor center



Many benefits – one machine:

- **Oil-free**, hence no oil changes, no disposal of used oil, no oil maintenance and no filtration expenses
- **Clean, oil-free compressed air** ideal for all lacquering, spraying, coating and plastering jobs
- **Powerful**, with an operating pressure of up to 6 bar and a suction rate of up to 360 l/min
- **Compact and mobile**, ideal for use on building sites and interior finishing, redevelopment and renovation projects
- **Suitable for continuous duty** – 100% OLF* – and service-proven in non-stop operation
- **Rugged**, reliable and operationally safe
- **Long-lasting** and largely maintenance-free
- **EC-prototype-tested** by TÜV Süddeutschland



Top: Trolley for all V-MEKOs
Bottom: V-MEKO with two
40 l tanks, tested by German Lloyd
for use on ships.

* OLF = on-load factor



Special voltages possible!

Technical data	Maximum pressure	Suction rate	AC	3-phase AC	Motor rating	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

from ABN

The R-MEKO consists of two V-MEKO compressor units and a central motor. It is mounted on a strong, rugged trolley – with or without a buffer tank – and has such a compact design that an estate car is usually big enough for transportation. This model has a suction capacity of up to 720 l/min. A model with two R-MEKO units is also available with a maximum suction capacity of 1440 l/min.



The R-MEKO 600 or R-MEKO 720 with a basic trolley and hard rubber wheels



Mobile compressor center with the R-MEKO 720 on a 60 l tank



The MT model with a reinforced frame, hinged handle, hard rubber wheels, fine dust filter and GEKA coupling



R-MEKO 1440

* OLF = on-load factor

- R-MEKOs are based on the successful ABN V-MEKOs and come with all the benefits associated with these machines, for example: Clean, oil-free compressed air, extremely long life, practically no maintenance, suitable for continuous duty (100% OLF*), designed for use on building sites, environmentally friendly, reliable and operationally safe.

- **High air capacity** yet compact design. Ideal for mobile duty on building sites and directly at the point of need.

- Transportation by estate car is possible.

Special voltages possible!

Technical data	Max. pressure	Suction rate	AC	3 phase AC	Motor rating	Weight	Tank
R-MEKO 600/W-A	6 bar	600 l/min	x	–	2.2 kW	43-53 kg	–
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 600W-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-MT	6 bar	1000 l/min	–	x	2 x 2.2 kW	90 kg	–
R-MEKO 1200/W-MT	6 bar	1200 l/min	x	–	2 x 2.2 kW	90 kg	–
R-MEKO 1440/D-MT	6 bar	1440 l/min	–	x	2 x 2.2 kW	90 kg	–

from ABN

Vacuum units based on diaphragm technology, 3-phase AC motor (400 V 3~50Hz) or AC motor (230 V 1~50 Hz), on/off switch, output sound-damper, R1/2" A connection thread, overcurrent circuit-breaker, ready for operation with 3-m cable and plug.



- ▶ *Measuring systems and laboratory equipment*
- ▶ *Vacuum drying systems*
- ▶ *Vacuum lifting and handling equipment*
- ▶ *Drill stands*
- ▶ *Material holders on machining units*
- ▶ *Graphic industry and printing*
- ▶ *Plastics processing*
- ▶ *Food industry*
- ▶ *Water treatment*
- ▶ *Vacuum clamping systems*



Vacuum MEKOs for use in measuring systems and laboratory equipment

- **Oil-free**, hence no oil changes, no disposal of old oil and no compulsory inspections in connection with oil change intervals
- **Compact and mobile**, which in practice makes it easier and more convenient to transport the units and simpler to install them in machines and plants
- **Powerful**, with a vacuum of up to 90 torr and a suction capacity of 520 l/min
- **Rugged**, reliable and operationally safe, no rubbing parts, minimum wear
- **Long life**, very little maintenance
- **Suitable for continuous duty** – 100% OLF* – and service-proven in non-stop operation
- **Special models** for the food industry, water treatment or laboratory use



* OLF = on-load factor

Vacuum MEKO 720

Special voltages possible!

Technical data	Suction capacity	Max. vacuum			Dimensions (L/W/H)	Weight	Electrical values
Vakuum-MEKO 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
Vakuum-MEKO 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
Vakuum-MEKO 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

Special voltages possible!

Technical data	Suction capacity	Max. vacuum			Dimensions (L/W/H)	Weight	Electrical values
Vakuu-MEKO 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
Vakuu-MEKO 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
Vakuu-MEKO 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

from ABN

from ABN

Our mini MEKOs offer you absolute flexibility and oil-free air. The MEKO 70 has a maximum pressure of 3.5 bar, a suction capacity of 70 l/min, and the smallest dimensions. It is portable and extremely quiet.



MEKO 70 for use in
laboratory equipment



AREAS OF APPLICATION:

MEKO 70

- *Pneumatic control*
- *Airbrushing*
- *Technical laboratories*
- *Pneumatic systems*



Special model:
Food compatible

- Coarse filter with pressure reducer
- Fine particle filter
- Micro fine filter
- Activated carbon filter

AREAS OF APPLICATION:

WHISPERING COMPRESSOR

- *Airbrushing*
- *for graphic designers*
- *Dental laboratories*
- *Technical offices*



Whispering Compressors

Special voltages possible!

Technical data	Max. pressure	Suction capacity	AC	Motor rating	Weight	Tank
MEKO 70/W	3.5 bar	70 l/min	x	0.22 kW	5.2 kg	6 l

F and/or MDF possible as options

Technical data	Max. pressure	Suction capacity	AC	Motor rating	Weight	Tank
FK 50/15 SL	8 bar	50 l/min	x	0.37 kW	24 kg	15 l
FK 100/40 W-SL	8 bar	100 l/min	x	2 x 0.37 kW	57 kg	40 l
FK 150/40 W-SL	8 bar	150 l/min	x	3 x 0.37 kW	73 kg	40 l
FK 250/90 W-SL	8 bar	250 l/min	x	5 x 0.37 kW	125 kg	90 l

When skilled workers choose compressed air from ABN they get professionalism, flexibility and unrivalled perfection and durability. To offer the most diverse application options we have built up a small but exclusive range of accessories that brings you numerous advantages. Our system solutions were specially designed for use in the skilled trades or industry. However demanding the work, you could not be better equipped for it.

ANGLE PIECE

