

ANKERSMID Diaphragm pump

AMP 11E Series

Application

Despite its small size the mini diaphragm vacuum pump offers a high level of performance. It is used especially in the fields of analysis, medicine and production technology.

The pumps are used for application such as sucking gases, taking samples (even liquids in a vacuum) and evacuating vessels.

The AC models are suited for use in machinery which is permanent or mains-operated.

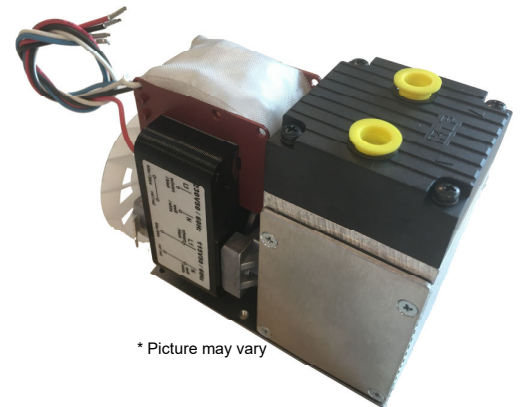
Description

The pumps are equipped with the patented stress-optimized structured diaphragm, resulting in a high pneumatic performance, a durable product and compact size.

Special valves ensure that the product copes well with vapor and condensation that could be present in the gas stream.

Principle

The basic construction of the AMP diaphragm gas sampling pumps is simple. An elastic diaphragm is moved up and down by an eccentric (see illustration). On the down-stroke it draws the air or gas being handled through the inlet valve. On the up-stroke the diaphragm forces the medium through the exhaust valve and out of the head. The compression chamber is hermetically separated from the drive mechanism by the diaphragm. The pumps transfer, evacuate and compress completely oil-free.



* Picture may vary

- **No contamination of the media due to oil-free operation**
- **Compact size due to structured diaphragm**
- **Maintenance-free**
- **High performance because of structured diaphragm**
- **High level of gas tightness**
- **Long product life thanks to structured diaphragm**
- **Copes well with vapour and condensation**
- **Cool running motor even when in constant use**
- **Can operate in any installed position**



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Technical data

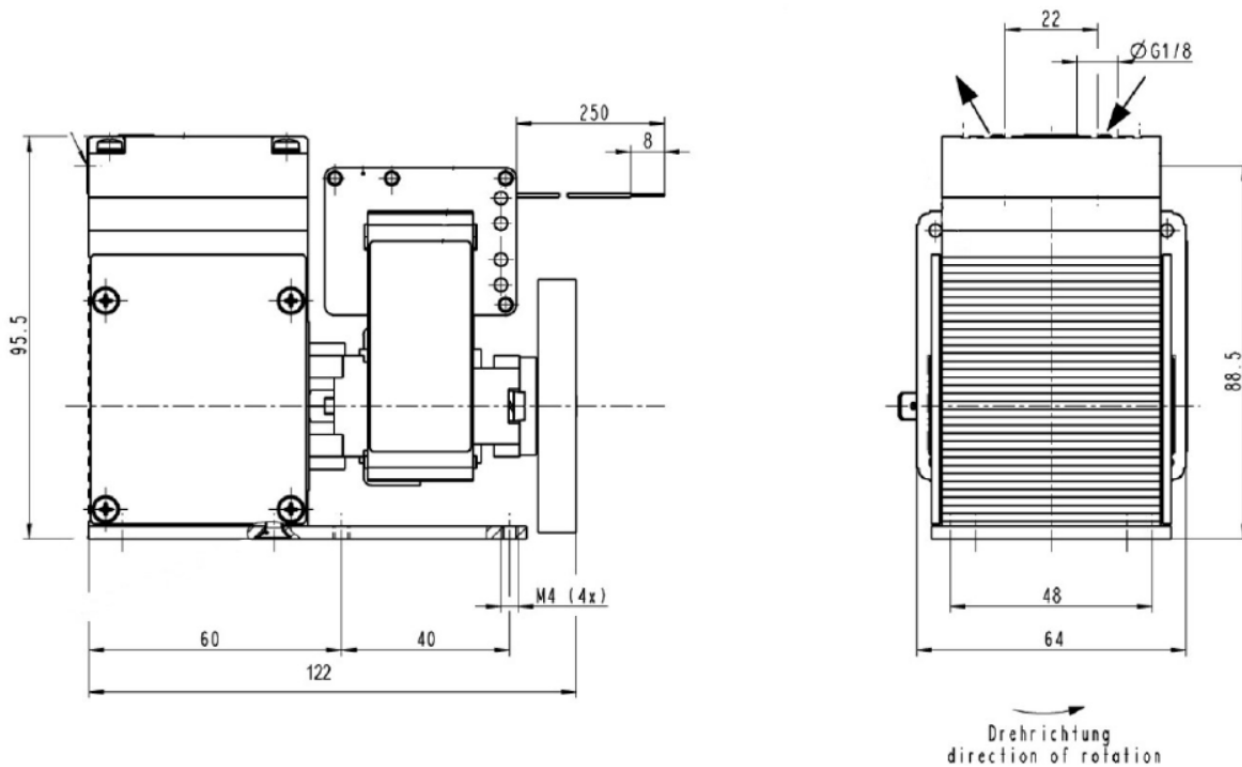
Model AMP	AMP 11E
Housing version	Without housing
Capacity at atm. Pressure (l/min)	11
Max. operating pressure (bar g)	0,5
Vacuum (mbar abs.)	170
Sample gas inlet/outlet	G1/8" f
Materials	
Pump head	PPS/Ryton®
Diaphragm	PTFE-coated
Valves	FFPM/Kalrez®
Sample and ambient temperature	+5°C to 40°C
Power (W)	60
Protection class	IP00
Protector	230VAC
Operating current (A)	0,6
Weight (Kg)	1,3
Power supply	230/115V, 50/60Hz

PTFE = Polytetrafluoroethylene (Teflon®)
PPS = Polyphenylene Sulfide (Ryton®)
FFPM = Perfluorinated Elastomer (Kalrez®)



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Dimensions



All dimensions in mm

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Performance

