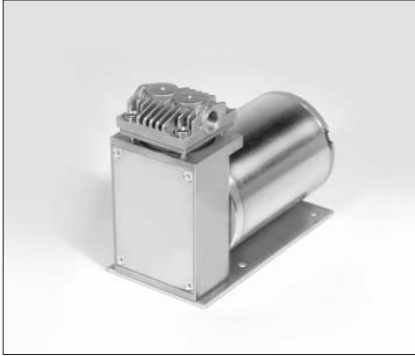
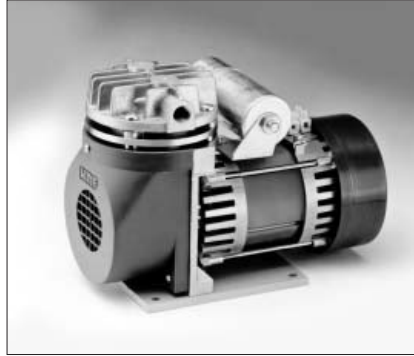


SWING PISTON VACUUM PUMPS & COMPRESSORS
UNPK09, NPK20, NPK30, NPK50, NPK100

SECTION 300.50



UNPK 09 DC



NPK 30



NPK 0100

Concept

The swing piston pumps from KNF are based on a simple principal: As it rises and falls the piston tilts first to one side, then the other. The compression forces act along the axis of the connecting rod, so that there is no component of force acting against the cylinder wall to cause wear. Thanks to the sealing lip on the piston seal the swing piston pump runs dry, and 100% oil-free. They will evacuate, transfer and compress air without contamination.

For customers with unusual requirements the KNF Project Team produces custom tailored solutions. Use our experience to your advantage and talk to our applications engineers.

Features

No contamination of the air due to oil-free operation

Maintenance-free

High level of flow-rate

Excellent ultimate vacuum

Very quiet and little vibration

Ready for installation

Can operate in any installed position

Applications

The Swing Piston Pumps offer a high level of performance despite their small size, as well as an excellent price performance ratio. They are used especially in the fields of medicine, environmental and production technology.

These pumps are used for transferring, compressing and evacuation air, taking samples, evacuating vessels and compressing air in process systems and vessels.

PERFORMANCE DATA

Type	Delivery (l/min)	Vacuum (mbar absolute)	atm. Press.	Pressure (bar g)	Weight (kg)
UNPK 09	12	100		7	1.8
UNPK 09 DC	15	100		7	1.6
UNPK 09 .1.2	24	100		7	2.4
NPK 20	22	80		4	4.3
NPK 30	32	80		4	4.8
NPK 050	50	80		2	5.6
NPK 0100	78	80		2	7.8

UNPK 09.1/.2/.1.2

PERFORMANCE DATA

Type and Order No. ²⁾	Delivery at atm. pressure (l/min) ¹⁾	Max. operating pressure (bar g)	Ultimate vacuum (mbar abs.)
UNPK 09.1	24		100
UNPK 09.2	24	7	
UNPK 09.1.2	24	7	100

¹⁾ Litre at STP

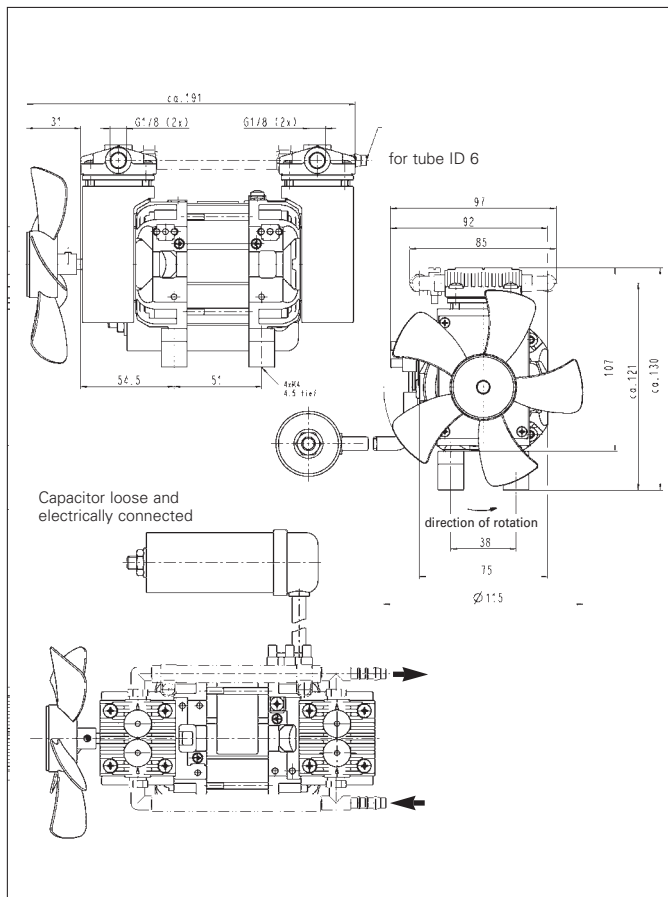
MOTOR DATA

Protection class	IP 00	IP 00	
Voltage/Frequencies (V/Hz)	230/50	115/60	
Power P ₁ (W)	180	180	
Operating current (A)	0.8	1.6	

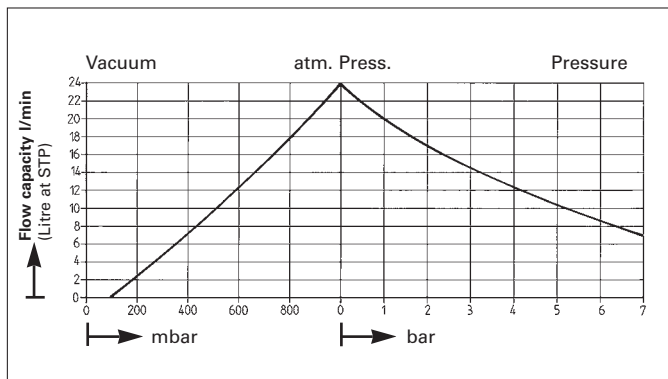
Motors with other voltages, frequencies and protection classes on request.

²⁾ See also „MODEL CODES FOR EASY ORDERING“

Dimensions ⁴⁾ (mm)



⁴⁾ All dimensional tolerances conform to DIN ISO 2768-1, Tolerance Class V



NPK 20 / NPK 30

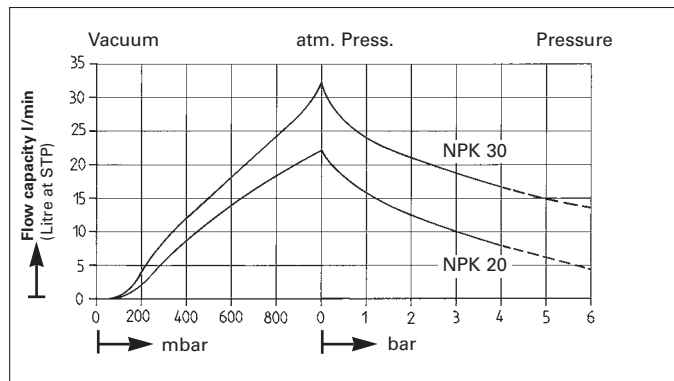
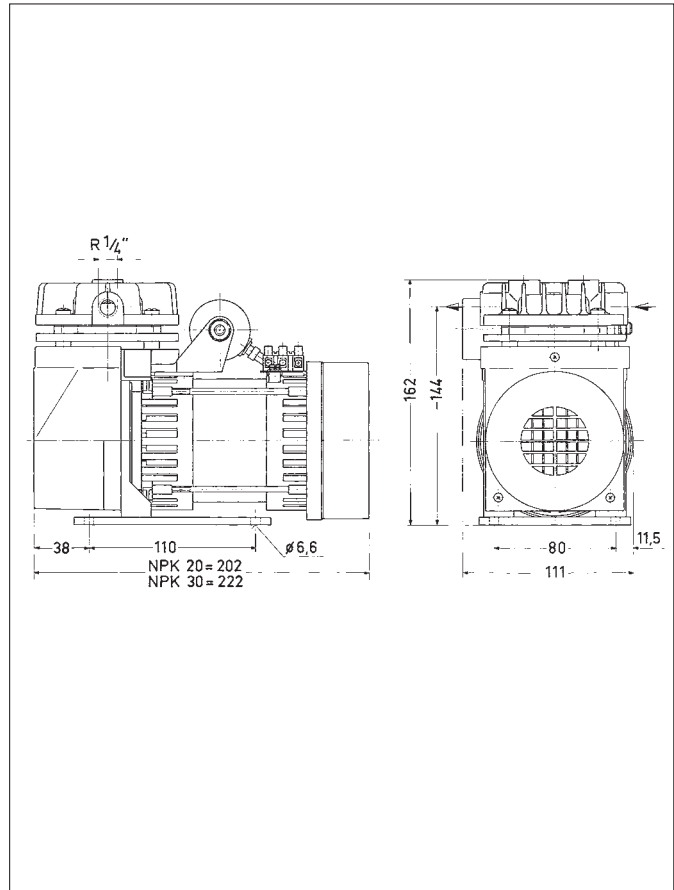
PERFORMANCE DATA

Type and Order No. ²⁾	Delivery at atm. pressure (l/min) ¹⁾	Max. operating pressure (bar g) ³⁾	Ultimate vacuum (mbar abs.)
NPK 20	22	4	80
NPK 30	32	4	80

¹⁾ Litre at STP ³⁾ continuous running

MOTOR DATA

Type	NPK 20	NPK 30	
Protection class	IP 20	IP 20	
Voltage/Frequencies (V/Hz)	115/60	115/60	
Power P ₁ (W)	120	160	
Operating current (A)	1.4	1.7	



NPK 050

PERFORMANCE DATA

Type and Order No. ²⁾	Delivery at atm. pressure (l/min) ¹⁾	Max. operating pressure (bar g)	Ultimate vacuum (mbar abs.)
NPK 050	50	2	80

¹⁾ Litre at STP

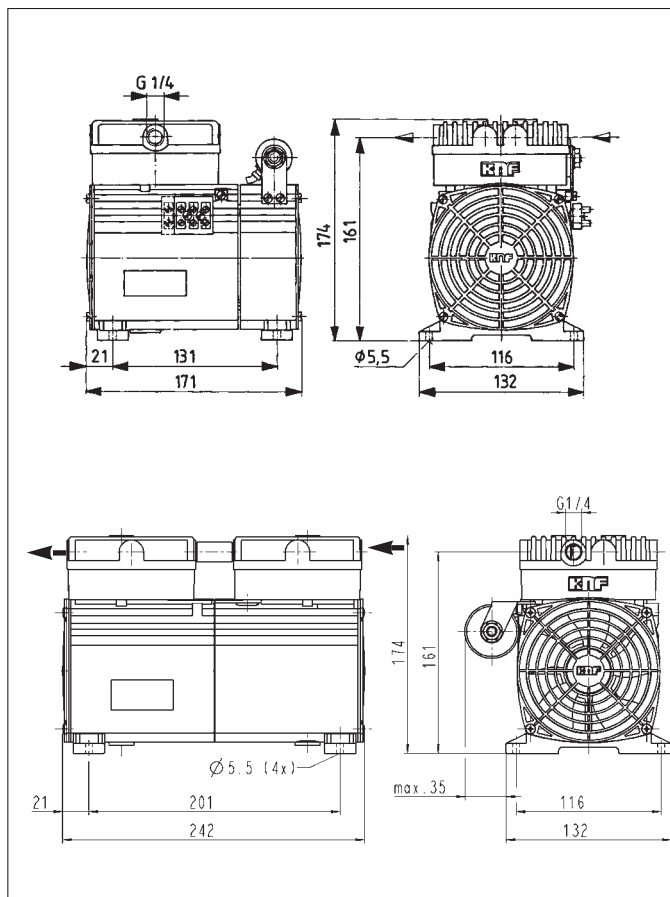
MOTOR DATA

Protection class	IP 20	IP 20	
Voltage/Frequencies (V/Hz)	230/50	115/60	
Power P ₁ (W)	240	240	
Operating current (A)	1.3	2.6	

Motors with other voltages, frequencies and protection classes on request.

²⁾ See also „MODEL CODES FOR EASY ORDERING“

Dimensions ⁴⁾ (mm)



⁴⁾ All dimensional tolerances conform to DIN ISO 2768-1, Tolerance Class V

NPK 0100

PERFORMANCE DATA

Type and Order No. ²⁾	Delivery at atm. pressure (l/min) ¹⁾	Max. operating pressure (bar g)	Ultimate vacuum (mbar abs.)
NPK 0100	78	2	80

¹⁾ Litre at STP

MOTOR DATA

Protection class	IP 20	IP 20	
Voltage/Frequencies (V/Hz)	230/50	115/60	
Power P ₁ (W)	320	320	
Operating current (A)	1.5	3.0	

