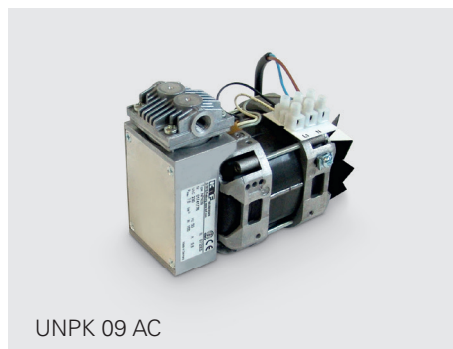


UNPK 09 SERIES

SWING PISTON VACUUM PUMPS AND COMPRESSORS



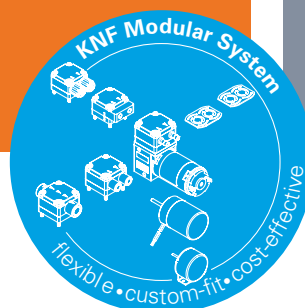
ADVANTAGES

- High level of performance in a compact size
- High pressure up to 7 bar g/101.5 psig
- Robust design

POSSIBLE AREAS OF USE

- Diagnostics – transfer of liquids and gaseous samples for analysis
- Medical technology – e.g. inhalation devices
- Vacuum technology – pick & place applications

Please visit our website
www.knf.com
 to get more information



PERFORMANCE DATA

Series model	UNPK 09 AC	UNPK 09 DC	UNPK 09.1.2 AC
Flow rate at atm. pressure (l/min)	12.0	15.0	24.0
Ultimate vacuum (mbar abs./inHg)	100/27		
Max. operating pressure (bar g/psig)	7.0/101.5		
Permissible ambient temperature (°C/°F)	5° C to 40° C / 41° F to 104° F		
Permissible media temperature (°C/°F)	5° C to 40° C / 41° F to 104° F		
Weight (kg/lbs)	1.8/4.0	1.6/3.5	2.4/5.3

ELECTRICAL DATA

Voltage (V)	115	12 24	115
Motor	Capacitor motor	DC motor	Capacitor motor
Protection class motor	IP 00	IP 50	IP 00
Frequency (Hz)	60	-	60
Power P ₁ (W)	100	-	180
I _{max} (A)	0.60	5.20 2.60	1.5

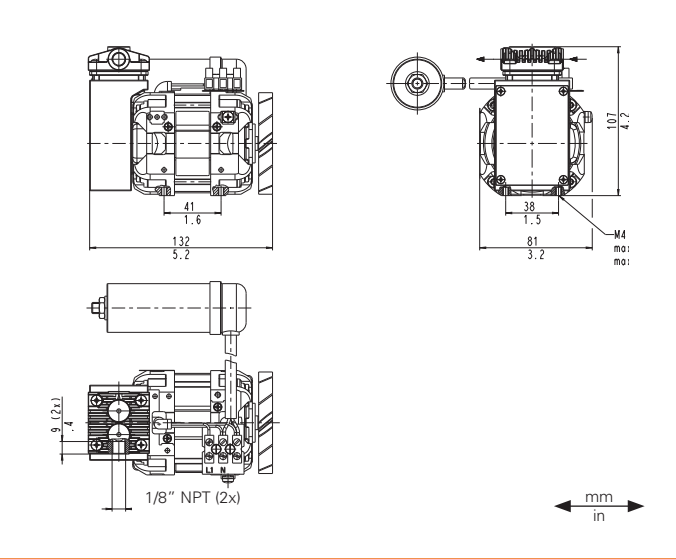
UNPK 09 AC

PERFORMANCE DATA

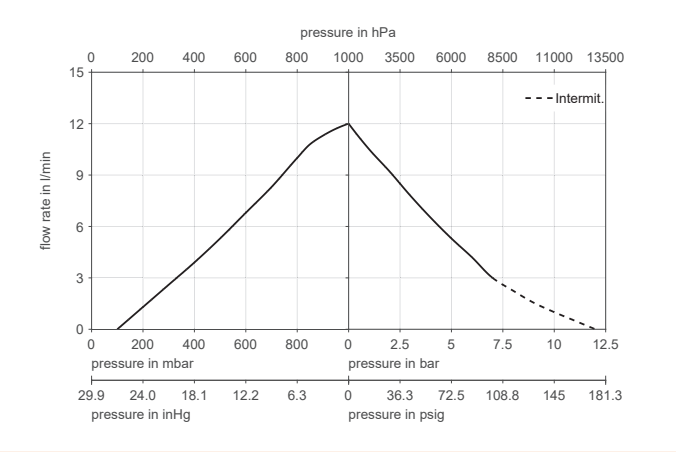
Series model	Flow rate at atm. pressure (l/min) ¹⁾	Max. operating pressure (bar g/psig)	Ultimate vacuum (mbar abs./inHg)
UNPK 09 AC	12.0	7.0/101.5	100/27

¹⁾ Liter at STP

UNPK 09 AC



UNPK 09 AC



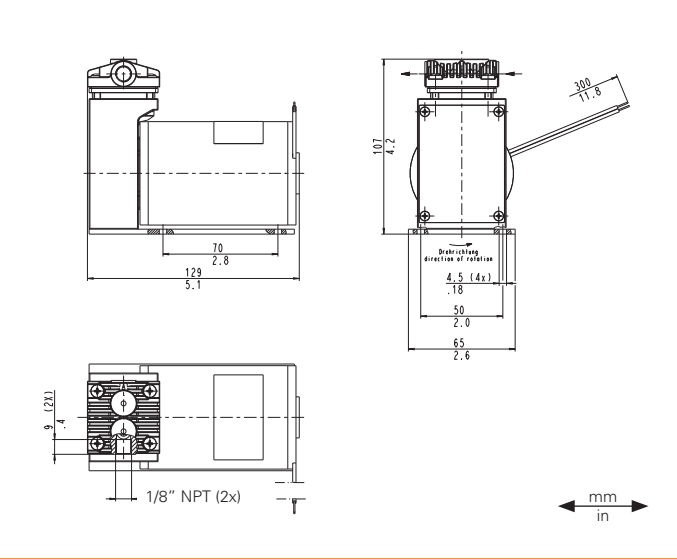
UNPK 09 DC

PERFORMANCE DATA

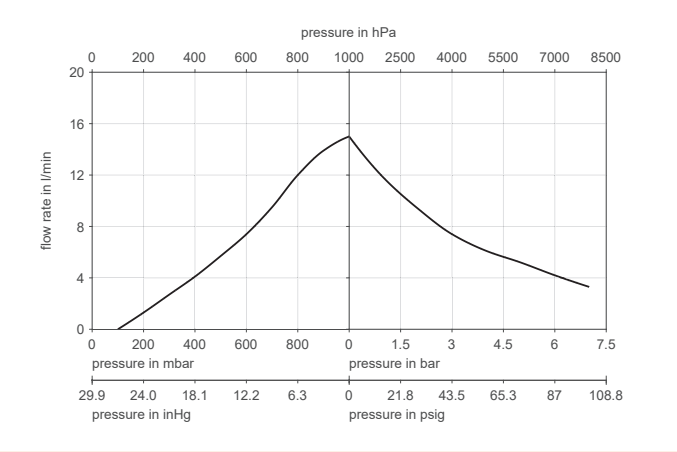
Series model	Flow rate at atm. pressure (l/min) ¹⁾	Max. operating pressure (bar g/psig)	Ultimate vacuum (mbar abs./inHg)
UNPK 09 DC	15.0	7.0/101.5	100/27

¹⁾ Liter at STP

UNPK 09 DC



UNPK 09 DC



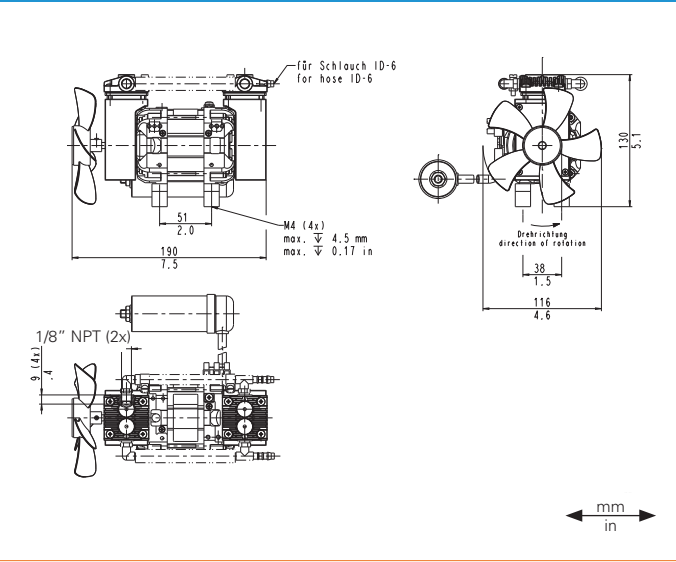
UNPK 09.1.2 AC

PERFORMANCE DATA

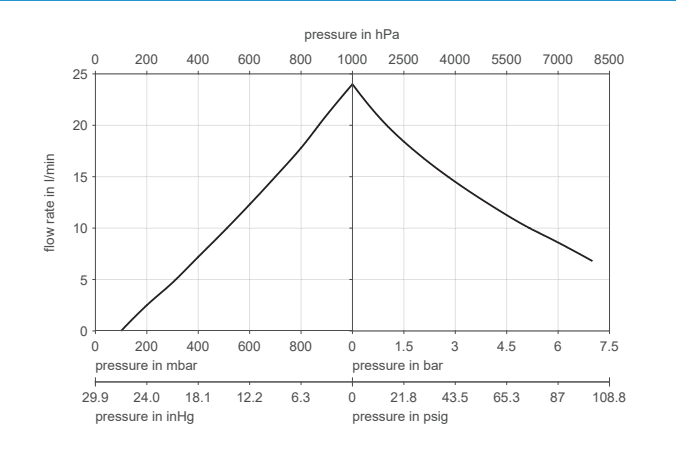
Series model	Flow rate at atm. pressure (l/min) ¹⁾	Max. operating pressure (bar g/psig)	Ultimate vacuum (mbar abs./inHg)
UNPK 09.1.2 AC	24.0	7.0/101.5	100/27

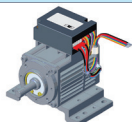
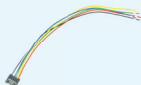
¹⁾ Liter at STP


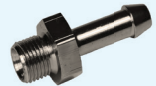


UNPK 09.1.2 AC



UNPK 09.1.2 AC



OPTIONS			
Description	Illustration	Part No.	Details
Electric motor			KNF-designed and manufactures BLDC motors and controllers. Engineered for a long reliable service life with customizable parameters for unique application needs.
Electric connector			KNF offers many electrical connection interfaces

ACCESSORIES			
Description	Illustration	Part No.	Details
Silencer/Inlet filter		007005	1/8" MNPT or 1/8" G (Male). Good for noise suppression and particle filtration.
Hose connector for tube ID 6 mm		213448	1/8" MNPT to 1/4" barb. Copper Zinc alloy fitting.
Shock mount		215270	M4 Male and Female. 5/8" x 5/8" elastomer size. Natural Rubber (Durometer 50A). 4 required per pump.
Tubing			Various diameters and materials

SPARE PARTS			
Description	Illustration	Part No.	Details
Intermediate plate		025523	
Head		051565	
Gasket		052650	
Valve plate		052649	Qty. 2 required
O-ring		317559	
Cylinder		318168	
Piston seal retainer plate		308109	
Piston seal support cup		311098	
Piston seal		304346	
Full repair kit		075982	Contains all necessary spare parts in one package. (valve plate, cylinder, piston seal, o-ring, gasket)

The performance values for the series models shown on this data sheet were determined under test conditions. The actual performance values may differ and depend in particular on the usage conditions and therefore on the specific application, on the parameters of the components involved in the user's system and on any technical modifications carried out which deviate from the standard configuration or the as delivered condition.

If individual designs have been created for specific customers on the basis of series models, other technical performance data may apply. Before operation begins, the relevant operating instructions and/or assembly or installation instructions should be read and the safety information contained in these instructions should be noted. KNF reserves the right to make changes to the product and the associated documentation without prior notice to the customer.



www.knf.com