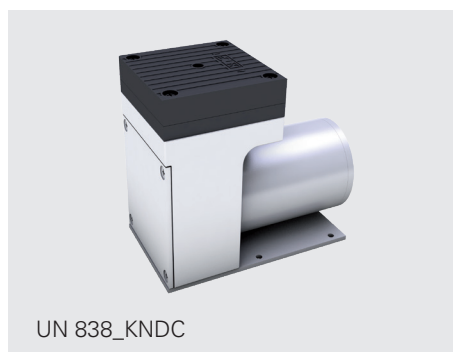


UN 838 SERIES VACUUM PUMPS



UN 838_KNDC



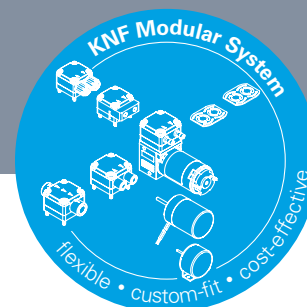
UN 838_ANDC-B

ADVANTAGES

- Excellent price/performance ratio
- High level of performance in a compact size
- Long Service
- Dependable
- Programmable Brushless DC motor

POSSIBLE AREAS OF USE

- Medical / Laboratory:
 - Pulmonary Function
 - Diagnostics
 - Suction / Aspiration
 - Cosmetic
 - Chamber Evacuation
 - Cardiology
- Fuel Cell Recirculation
- Pick & Place
- Degassing
- Avionics Test Equipment
- Environmental Monitoring Equipment



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PERFORMANCE DATA

Series model	UN 838					
Material design	KNI	ANI	KNDC	ANDC	KNDC-B	KN.29 DC-B
Pump head	PPS	Aluminum	PPS	Aluminum	PPS	
Diaphragm	EPDM					
Valves	FPM					
Flow rate at atm. pressure (l/min)	34.0		32.0		34.0	8.5–34.0
Ultimate vacuum (mbar abs./inHg)	100 / 26.9*					
Max. operating pressure (bar g/psig)	0.5 / 7.3					
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)	2.3 / 5.1		2.2 / 4.8	2.4 / 5.3	2.0 / 4.4	

ELECTRICAL DATA

Voltage (V)	115	12 24		24
Motor	Capacitor motor	DC motor		Brushless DC motor
Protection class motor	IP 00	IP 50		IP 20
Frequency (Hz)	60	-		-
Power P ₁ (W)	100.0	-		58.0
I _{max} (A)	0.60	3.7 1.9		2.40

*expanded performance available upon request

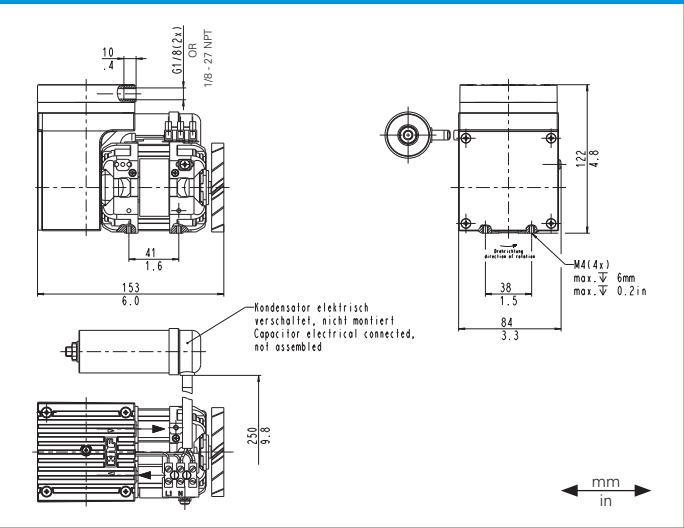
UN 838 KNI | ANI

PERFORMANCE DATA

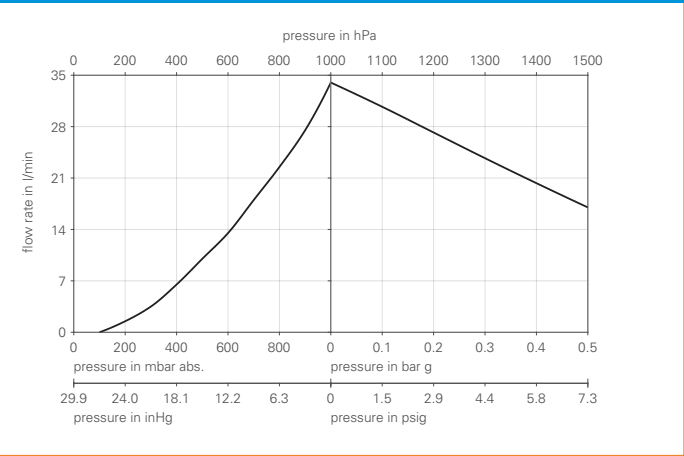
Series model	Flow rate at atm. pressure (l/min) ¹⁾	Max. operating pressure (bar g/psig)	Ultimate vacuum (mbar abs./inHg)
UN 838 KNI	34.0	0.5 / 7.3	100 / 26.9
UN 838 ANI	34.0	0.5 / 7.3	100 / 26.9

¹⁾ Liter at STP

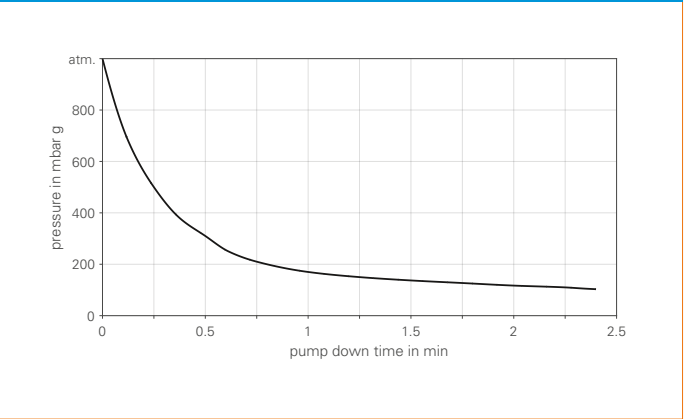
UN 838 _NI



UN 838 _NI



UN 838 _NI | PUMP DOWNTIME FOR 10 LITER VESSEL



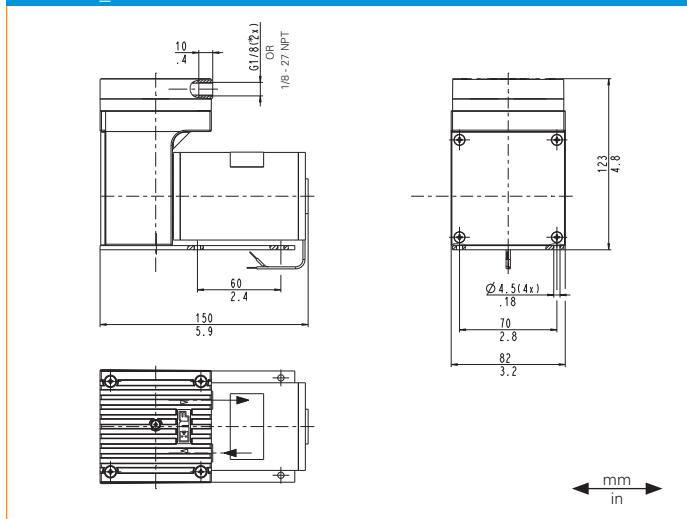
UN 838 KNDC | ANDC | KNDC-B | KN.29 DC-B

PERFORMANCE DATA

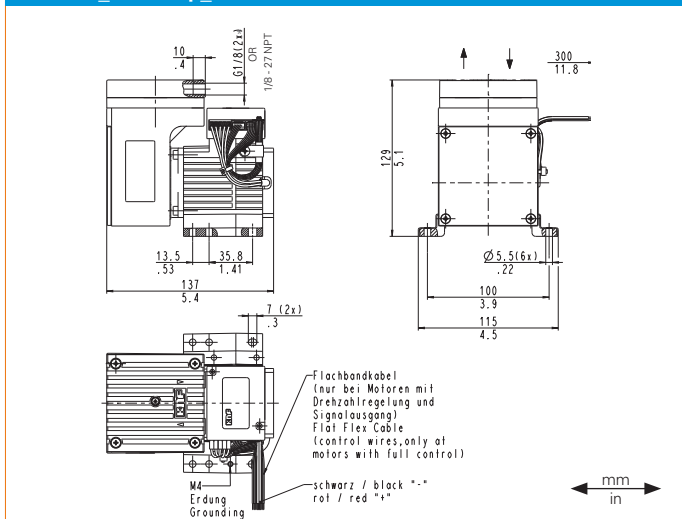
Series model	Flow rate at atm. pressure (l/min) ¹⁾	Max. operating pressure (bar g/psig)	Ultimate vacuum (mbar abs./inHg)
UN 838 KNDC	32.0	0.5 / 7.3	100 / 26.9
UN 838 ANDC	32.0	0.5 / 7.3	100 / 26.9
UN 838 KNDC-B	34.0	0.5 / 7.3	100 / 26.9
UN 838 KN.29 DC-B	8.5–34.0	0.5 / 7.3	100 / 26.9

¹⁾ Liter at STP

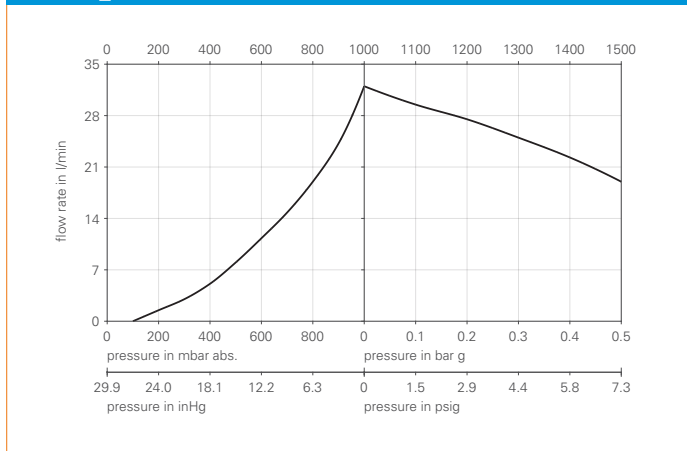
UN 838 _NDC



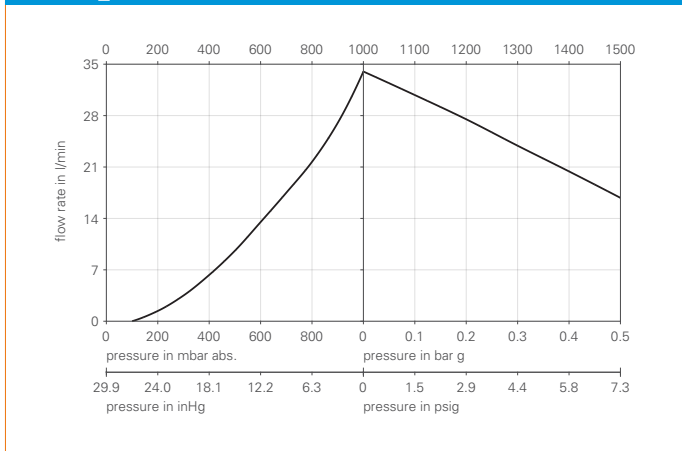
UN 838 _NDC-B | _N.29 DC-B



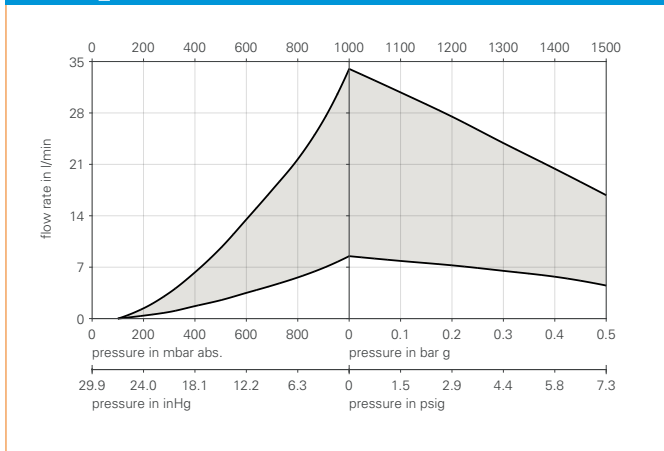
UN 838 _NDC

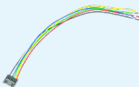
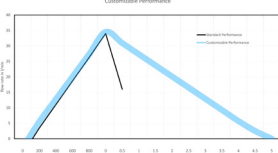
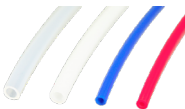
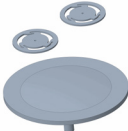


UN 838 _NDC-B



UN 838 _N.29 DC-B



OPTIONS			
Description	Illustration	Part No.	Details
Aluminum head			Cast Aluminum heads available allowing many unique inlet/outlet configurations and application-specific interfaces
Electrical connections			KNF offers many electrical connection interfaces
Expanded performance			Expanded Performance available to fit unique application needs. Free Flow: 36 l/min Pressure: 3.5 bar g / 50 psig Vacuum: 80 mbar abs. / 27 inHg Contact KNF for assistance.
ACCESSORIES			
Description	Illustration	Part No.	Details
Silencer/Inlet filter		007006	1/8" MNPT or 1/8" G (Male). Good for noise suppression and particle filtration.
Shock mounts		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
Hose connections			Various threads, materials, and interfaces
Pressure regulator			KNF Pressure regulators available with different contact materials. 1/8" MNPT, 1/4" MNPT, 1/8" G and 1/4" G. Pressure ranges from 3 to 300 l/min and pressure up to 94 psig.
SPARE PARTS			
Description	Illustration	Part No.	Details
Spare parts kit		043825	Diaphragm and valves

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.



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