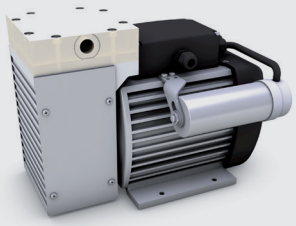
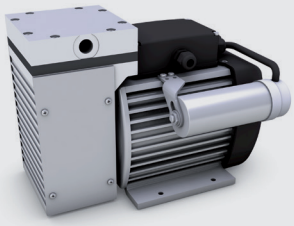
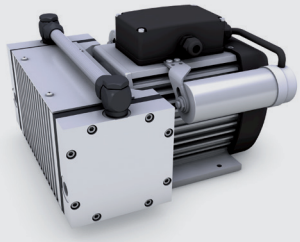
N 860 SERIES
VACUUM PUMPS



N 860 FTE, chemically resistant



N 860 ANE



N 860.3 ANE

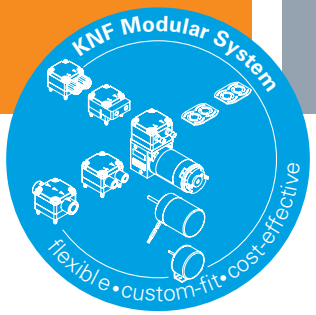
ADVANTAGES

- High chemical resistance
- High flow rate until deep vacuum conditions
- High-speed evacuation

POSSIBLE AREAS OF USE

- Vacuum drying oven
- Industrial laser technology – performing gas exchange
- Energy technology – production of photovoltaic cells

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PERFORMANCE DATA						
Series model	**N 860**			**N 860.3**		
Material design	**ANE**	**ATE**	**FTE**	**ANE**	**ATE**	**FTE**
Pump head	Aluminum		PTFE	Aluminum		PTFE
Diaphragm	EPDM	PTFE-coated		EPDM	PTFE-coated	
Valves	EPDM	FFPM		EPDM	FFPM	
Flow rate at atm. pressure (l/min)[1]	60.0					
Ultimate vacuum (mbar abs.)	80			2		
Max. operating pressure (bar rel./psig)[2]	1.0/14.5					
Permissible ambient temperature (°C)	+5 ... +40					
Permissible media temperature (°C)	+5 ... +40					
Weight (kg/lbs)	12.7/27.9		12.5/27.5	14.7/32.3		14.3/31.5
ELECTRICAL DATA						
Voltage (V)	230					
Motor	Capacitor motor					
Protection class motor	IP 54					
Frequency (Hz)	50					
Power P_1 (W)	200			220		
I_{max} (A)	1.50			1.60		

[1] Liter in the standard state (based on ISO 8788 and ISO 21360-1/2) (1000 hPa, 20°C); [2] bar relative to 1000 hPa

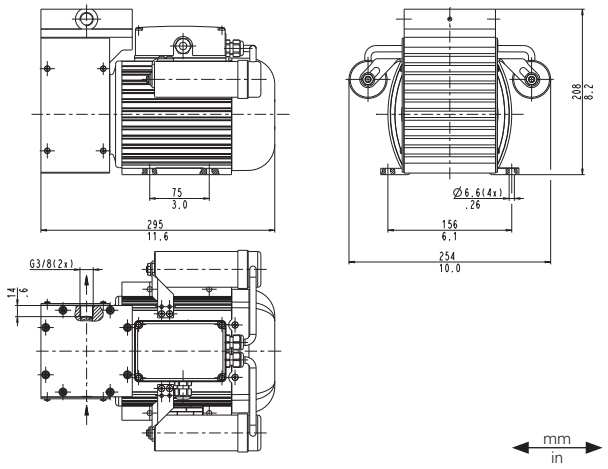
N 860 ANE | ATE | FTE

PERFORMANCE DATA

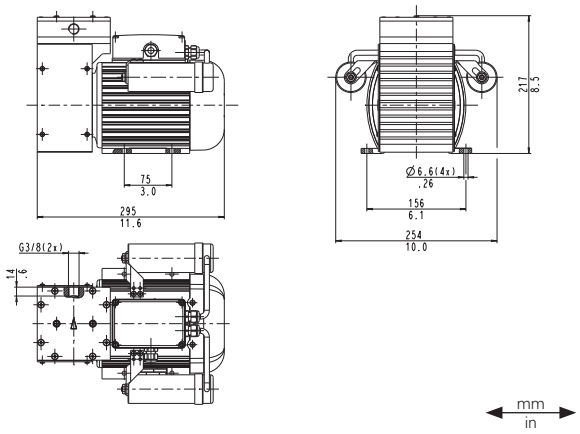
Series model	Flow rate at atm. pressure (l/min)[1]	Max. operating pressure (bar rel./psig)[2]	Ultimate vacuum (mbar abs.)
N 860 ANE	60.0	1.0/14.5	80
N 860 ATE	60.0	1.0/14.5	80
N 860 FTE	60.0	1.0/14.5	80

[1] Liter in the standard state (based on ISO 8788 and ISO 21360-1/2) (1000 hPa, 20°C); [2] bar relative to 1000 hPa

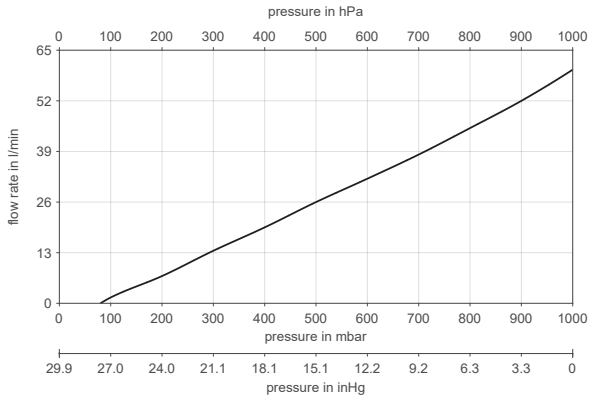
N 860 A_E



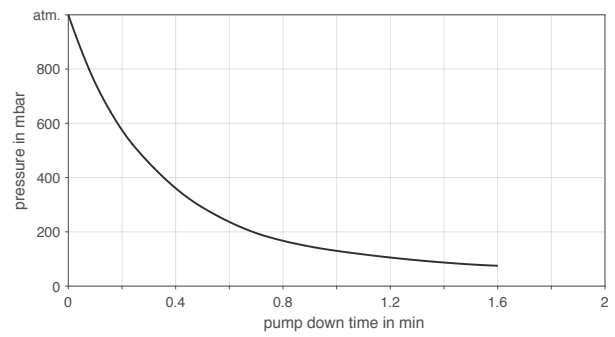
N 860 FTE



N 860 __E



N 860 __E | PUMP DOWN TIME FOR 20 LITER VESSEL



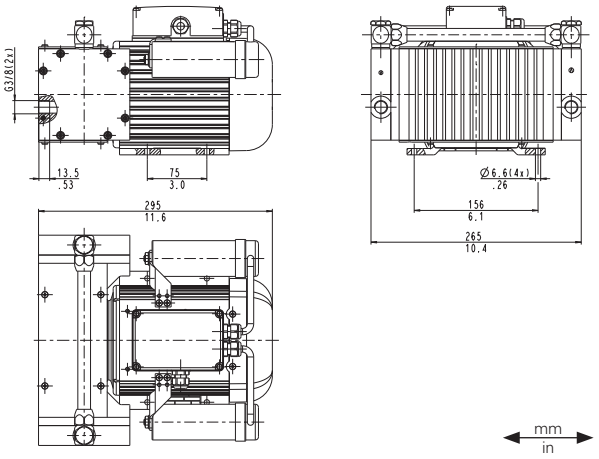
N 860.3 ANE | ATE | FTE

PERFORMANCE DATA

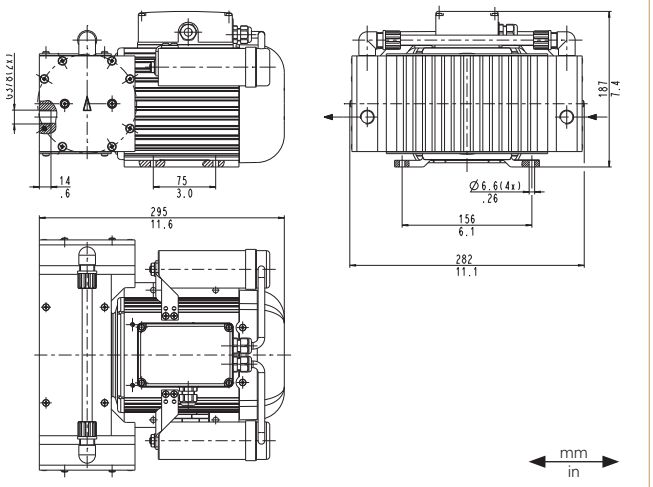
Series model	Flow rate at atm. pressure (l/min)[1]	Max. operating pressure (bar rel./psig)[2]	Ultimate vacuum (mbar abs.)
N 860.3 ANE	60.0	1.0/14.5	2
N 860.3 ATE	60.0	1.0/14.5	2
N 860.3 FTE	60.0	1.0/14.5	2

[1] Liter in the standard state (based on ISO 8788 and ISO 21360-1/2) (1000 hPa, 20°C); [2] bar relative to 1000 hPa

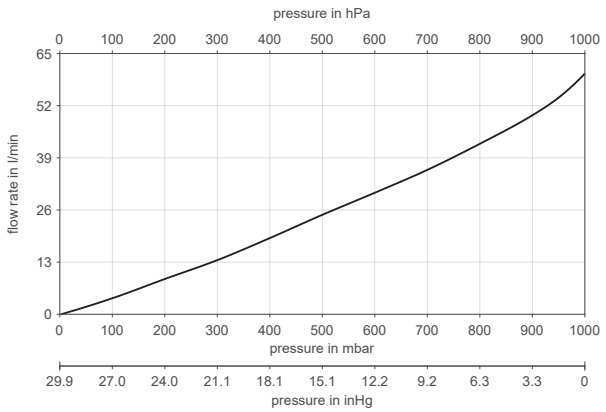
N 860.3 A_E



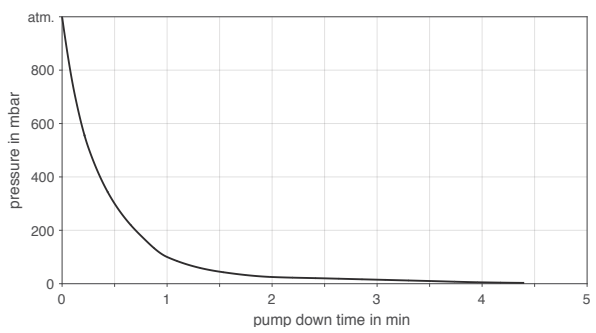
N 860.3 FTE



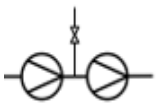
N 860.3 _ _E



N 860.3 _ _E | PUMP DOWN TIME FOR 20 LITER VESSEL



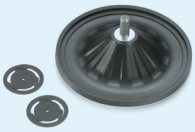
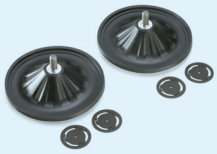
OPTIONS

Description	Illustration	Details
Gasbalast		The use of gasbalast reduces the partial pressure of the condensable gases due to the additional gasvolume flow and remove condesate from the pump.

ACCESSORIES

Description	Part No.	Details
Silencer	045993	G 3/8
Inlet filter	046164	G 3/8
Hose connector	045859	G 3/8 / Ms
Hose connector	046851	G 3/8 / PVDF
Gasket	044982	

SPARE PARTS

Description	Illustration	Part No.	Details
Spare parts kit N 860 ANE		047496	Spare parts kit consists of: 1x diaphragm, 2x valve plate. This set is required to maintain the pump.
Spare parts kit N 860 ATE Spare parts kit N 860 FTE		047497	Spare parts kit consists of: 1x diaphragm, 2x valve plate. This set is required to maintain the pump.
Spare parts kit N 860.3 ANE		047498	Spare parts kit consists of: 2x diaphragm, 4x valve plate. This set is required to maintain the pump.
Spare parts kit N 860.3 ATE Spare parts kit N 860.3 FTE		047499	Spare parts kit consists of: 2x diaphragm, 4x valve plate. This set is required to maintain the pump.

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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