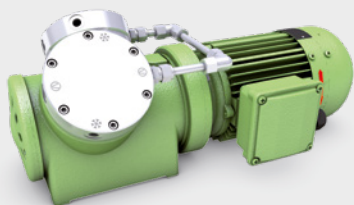


N 186.3 SERIES PROCESS VACUUM PUMPS

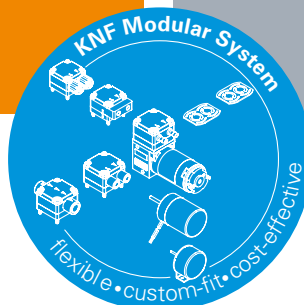


N 186.3 SP.9 E

ADVANTAGES

POSSIBLE AREAS OF USE

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PERFORMANCE DATA

Series model	N 186.3					
Material design	AP.9 E	SP.9 E	SP.13 E	SP.12 E	ST.9 E	ST.13 E
Pump head	Aluminum	Stainless steel				
Diaphragm	EPDM				PTFE-coated	
Valves	Stainless steel					
Flow rate at atm. pressure (l/min)	23.0 ± 10 %				21.0 ± 10 %	
Ultimate vacuum (mbar abs.)	15				25	
Max. operating pressure (bar rel./psig)	0.5/7.3					
Permissible ambient temperature (°C)	+5 ... +40					
Permissible media temperature (°C)	+5 ... +40					
Weight (kg/lbs)	25.0/55.0	29.5/64.9		30.5/67.1	29.5/64.9	

ELECTRICAL DATA

[illegible]

ACCESSORIES	
Description	Part No.
Base plate with rubber-bonded metals	310102
Connection water cooling device S_.9 S_.13	303901
Connection water cooling device SP.12	303902
Wrench for retainer plate	018816
O-ring for lock screw	026056
Inlet filter G 1/4	316661

SPARE PARTS	
Description	Part No.
Spare parts kit N 186.3 _P.9 E	315460
Spare parts kit N 186.3 SP.13 E	315461
Spare parts kit N 186.3 ST.9 E	307823
Spare parts kit N 186.3 ST.13 E	315463
Spare parts kit N 186.3 SP.12 E	315462

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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N 186.3 AP.9 | SP.9 | SP.13 E | ST.9 | ST.13 E

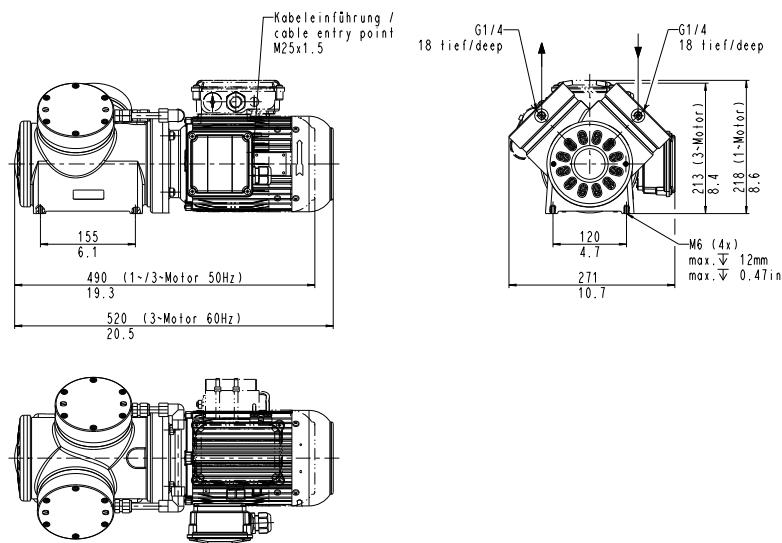
PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 186.3 AP.9 E	23.0 ± 10 %	0.5/7.3	15
N 186.3 SP.9 E	23.0 ± 10 %	0.5/7.3	15
N 186.3 SP.13 E	23.0 ± 10 %	0.5/7.3	15
N 186.3 ST.9 E	21.0 ± 10 %	0.5/7.3	25
N 186.3 ST.13 E	21.0 ± 10 %	0.5/7.3	25

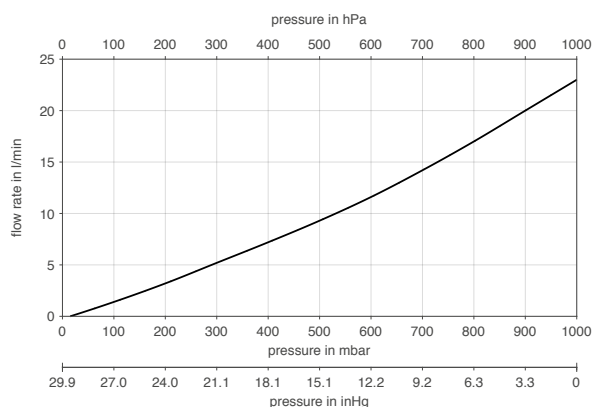
Flow rate determined at 20 °C, 1013 mbar abs.

(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

N 186.3 __.9 E | S_.13 E



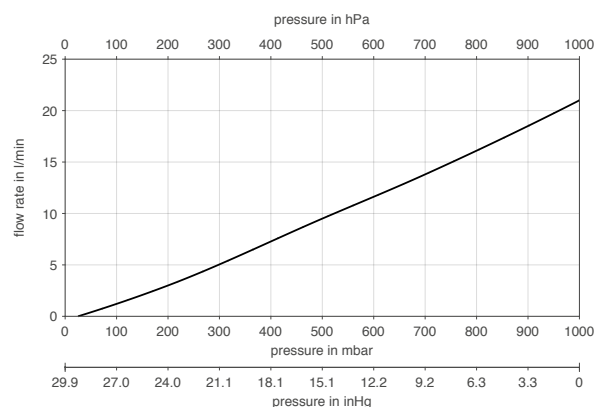
N 186.3 _P_ _E



Flow rate determined at 20 °C, 1013 mbar abs.

(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

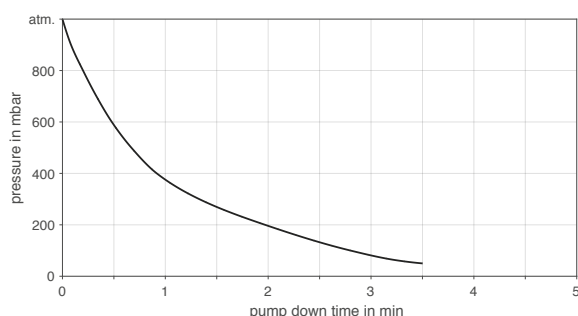
N 186.3 _T_ _E



Flow rate determined at 20 °C, 1013 mbar abs.

(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

N 186.3 | PUMP DOWN TIME FOR 20 LITER VESSEL



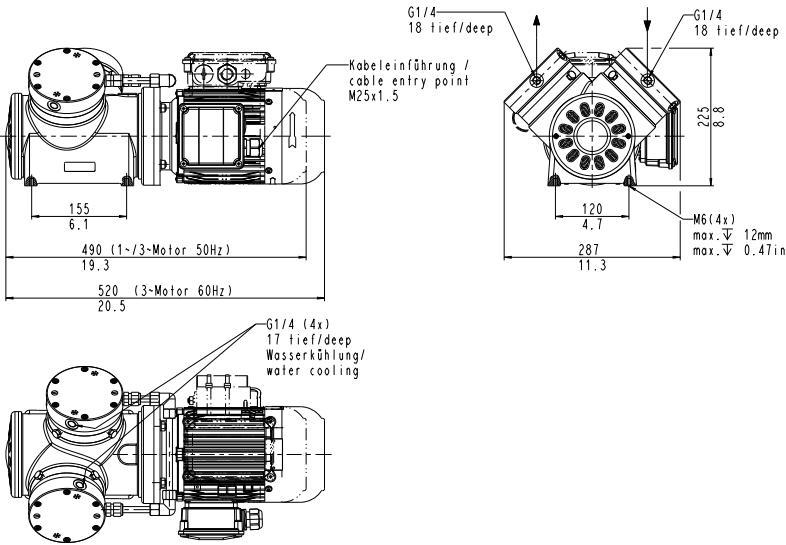
N 186.3 SP.12 E

PERFORMANCE DATA

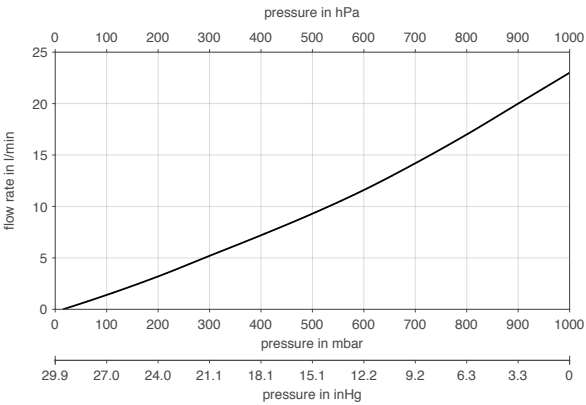
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 186.3 SP.12 E	23.0 ± 10 %	0.5/7.3	15

Flow rate determined at 20 °C, 1013 mbar abs.
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

N 186.3 SP.12 E



N 186.3 SP.12 E



Flow rate determined at 20 °C, 1013 mbar abs.
(Pressure 0 to 1013 mbar abs. in accordance with ISO 21360-1/2)

N 186.3 | PUMP DOWN TIME FOR 20 LITER VESSEL

