

N 012 SERIES | TEMPERATURE-RESISTANT AND HEATED GAS SAMPLING PUMPS



ADVANTAGES

- Temperature-resistant (.16) or electrically heated with thermostatic temperature control (.11) for transferring hot process gases of up to 240 °C
- High chemical resistance
- Homogeneous temperature distribution throughout the entire pump head
- No condensation in the pump head

POSSIBLE AREAS OF USE

- Environmental monitoring especially motor test benches in automobile industry
- Analytical technology
- Research

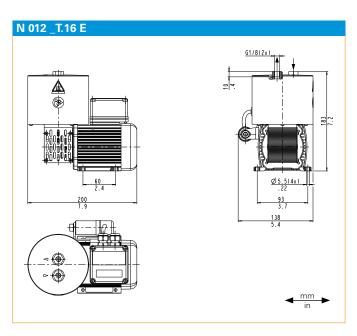
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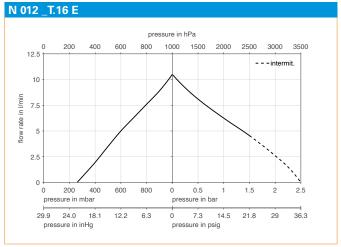
Series model	N 012			
Material design	AT.16 E	ST.16 E	ST.11 E	
Pump head	Aluminum	Stainless steel		
Diaphragm	PTFE			
Valves	PTFE			
Flow rate at atm. pressure (I/min)	10.5			
Ultimate vacuum (mbar abs.)	240			
Max. operating pressure (bar rel./psig)	1.5/21.8			
Permissible ambient temperature (°C)	+5 +40			
Permissible media temperature (°C)	+5 +240			
Weight (kg/lbs)	3.4/7.5	4.0/8.8		
ELECTRICAL DATA				
Voltage (V)	230			
Motor	Capacitor motor			
Protection class motor	IP 54			
Frequency (Hz)	50			
Power P ₁ (W)	80			
I _{max} (A)	0.40			

N 012 AT.16 E | ST.16 E

PERFORMANCE DATA			
Series model	Flow rate at atm. pressure (I/min) ¹⁾	Max. operat- ing pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)
N 012 AT.16 E	10.5	1.5/21.8	240
N 012 ST.16 E	10.5	1.5/21.8	240

¹⁾ Liter at STP



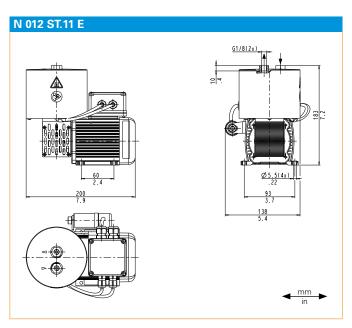


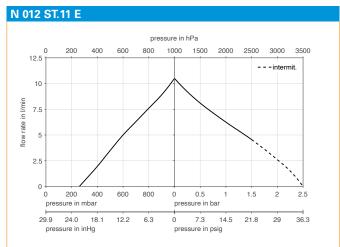
N 012 ST.11 E

PERFORMANCE DATA				
Series model	Flow rate at atm. pressure (I/min) ¹⁾	Max. operat- ing pressure (bar rel./psig)	Ultimate vacuum (mbar abs.)	
N 012 ST.11 E	10.5	1.5/21.8	240	

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HEATING: N 012 ST.11 E			
Protection class	IP 20		
Voltage/Frequencies (V/Hz)	230/50		
Power P ₁ (W)	140		
I _{max} (A)	0.60		
Heating temperature (°C)	240		





OPTIONS			
Description	Illustration	Details	
Rotated pump housing		The pump housing may be rotated by 180° at the factory. Any condensate will drain from the pump head, which improves the function of the pump when operating with high condensate concentrations.	
Customized head connectors		The height of the remote pump head can be adapted to the customer's system according to the project. NPT1/8" threaded connections and various fittings are optional.	
Flanged version		This configuration has been designed for installation on a heated analyzer cabinet. The pump is mounted by a flange on the outside of the cabinet housing. The pump head then protrudes into the hot area. The area between the pump head and the compressor housing can be insulated.	
Brushless DC motor	S COMIZED	Controllable, brushless DC motors are available as an option. They can be used for the dynamic adjustment of pumping capacity to the customer's system and for the custom-fit calibration of the pumping capacity.	
Heated variant (.11)	240°C	The pump head is pre-heated to ca. 240 °C using a heating cartridge and a thermostat.	
ATEX/IEC Ex	Ex	Pumps for explosion-proof areas are available with the following certificates on request: ATEX, IEC Ex, KOSHA, PESO, NEPSI.	

ACCESSORIES			
Description	Illustration	Part No.	
Wrench for retainer plate		018812	

SPARE PARTS		
Description	Part No.	
Valve plate	049733	
Diaphragm	049734	
O-ring	055675	
Disk spring	056019	

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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