

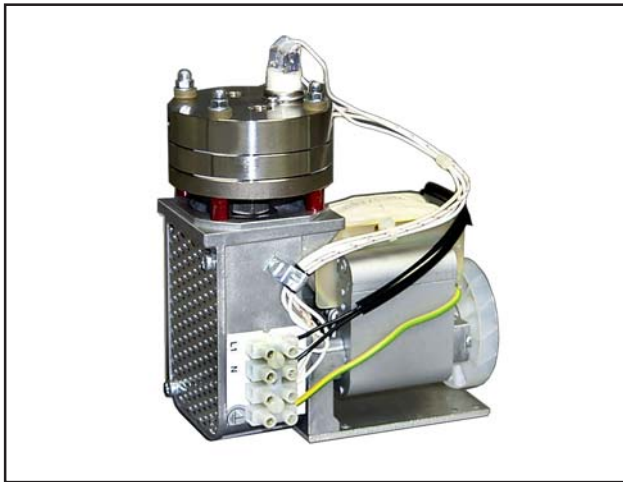
SECTION 50.40

Type: N010ST.11I
Heated-Head

N010ST.16I
Heat-Resistant

**Diaphragm Vacuum Pump
and Compressor**

**Single Stage, OEM Model with AC Motor
Handles Gases to 200°C (400°F)**



Model N010ST.11I Heated-Head Pump Shown

Free-Flow Capacity: 9 liters/min. (.32 SCFM)
Maximum End Vacuum: 234 mbar (23 in. Hg)
Maximum Continuous Pressure: 1.5 bar (22 psig)

Description

The N010 heated-head (.11) and heat-resistant (.16) series of air and gas diaphragm pumps represent one of KNF's many specialized designs. Equipped for the efficient transport of hot gas samples in environmental and analytical instruments, these pumps handle gas temperatures up to 400°F (200°C). Special construction isolates the bearings and motor from the heat for longer pump life. The heated-head model uses an electrically heated cartridge that is controlled by a thermostat, to maintain the specified head temperature. This prevents condensate from forming within the head which reduces pump corrosion and eliminates particle dropout.

Supplied without the heating system, the heat-resistant model uses identical heat-isolating construction and is ideal for handling hot, gaseous samples.

Pump Features

- **Ideal OEM Pump** - KNF's "OEM Project Pump" program provides a variety of inexpensive modifications. We optimize this pump to match your design rather than force a compromise with a standard product. For example, we reposition component parts, change mounting methods, insulate the head parts, or provide an electronic temperature controller. We also alter standard performance limits. Perhaps other materials of construction or motor types are more suitable or economical for your application. Contact our applications specialists for more details.
- **We Build In Quality Details** such as oversized, long life, permanently lubricated bearings and other heavy-duty components. Quiet, reliable operation is assured over the life of your application.
- **Medium Transfer is Contamination-Free** because our design has no sliding seals to wear away. Your pumped medium stays analytically pure. The ST model, featuring 316 stainless/ Teflon® wetted parts, is excellent for use with highly corrosive gases.
- **Variety of Accessories** include an insulating jacket for the head parts, a programmable temperature controller, hose connectors and shock mounts. This pump is also available as a standard OEM unit without heat-isolating construction.

Applications

- Stack Gas Samplers
- Environmental & Analytical Instruments
- Portable Analytical Instruments
- Process Control Systems
- Automatic Sampling Systems
- Transfer of Corrosive Gases

N010 .11/.16I

KNF Performance Specifications

Model Number

	N010ST.11I	N010ST.16I
Maximum Flow	9 lit/min. (0.32 SCFM)	9 lit/min. (0.32 SCFM)
Maximum Vacuum	234 mbar (23 in. Hg)	234 mbar (23 in. Hg)
Maximum Continuous Pressure	1.5 bar (22 psig)	1.5 bar (22 psig)

Electrical

	115 VAC (60 Hz)	230 VAC (50 Hz)	115 VAC (60 Hz)	230 VAC (50 Hz)
Motor Voltage & Frequency	115 VAC (60 Hz)	230 VAC (50 Hz)	115 VAC (60 Hz)	230 VAC (50 Hz)
Full Load Motor Current	2.1 Amps	0.65 Amps	2.1 Amps	0.65 Amps
Motor Type	Shaded Pole	Shaded Pole	Shaded Pole	Shaded Pole
Motor Protection	Thermal Reset	Thermal Reset	Thermal Reset	Thermal Reset
Heating Element (+200°C/400°F)	250 Watts	140 Watts		
Warm Up Time	10 minutes	15 minutes		

Environmental

Maximum Ambient Temperature	40°C (105°F)
Maximum Medium Temperature	200°C (400°F)
Net Weight (KN Materials)	2.4 kg (5.3 lb.)
	2.9 kg (6.4 lb.)

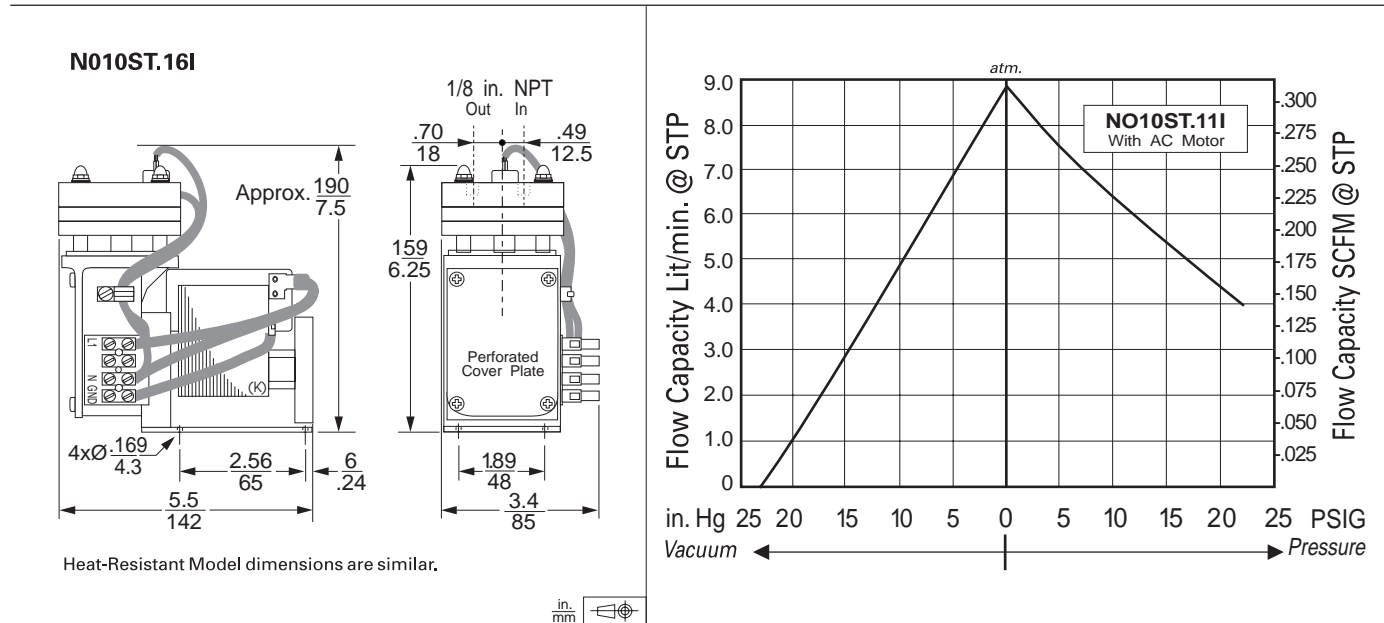
Materials of Construction

Standard Model Number	Head / Clamping Disk	Diaphragm / Valves
N010AT.11I (Heated-Head)	Aluminum	Solid Teflon®
N010ST.11I (Heated-Head)	316 Stainless Steel	Solid Teflon®
N010AT.16I (Heat-Resistant)	Aluminum	Solid Teflon®
N010ST.16I (Heat-Resistant)	316 Stainless Steel	Solid Teflon®

Notes: Standard continuous performance ratings at sea level with an ambient temperature of 70° F (21° C) and nominal electrical supply are listed above. Dimensions and performance characteristics given are for reference only. Higher performance models, cost efficient OEM modifications, a wide variety of motor options and different materials of construction are available. Teflon® is a registered trademarks of DuPont. Specifications subject to change without notice.

Accessories: Hose Connectors, Shock Mounts, Insulated Jacket, Programmable Temperature Controller

Outline Dimensions/Performance Characteristics:



KNF NEUBERGER, INC.

Two Black Forest Road
Trenton, New Jersey 08691-1810
Phone: 609-890-8600 · Fax: 609-890-8323
Web: <http://www.knf.com>

