Filter Heater Packages



Cool to the touch in line heater packages for clean compressed air & precise temperature control.

The nano F-Series⁵ range of heaters and filter heater packages are specially designed for both industrial and breathing air applications providing efficient filtration and precise temperature control between 68°F and 248°F.

Using an open wound heating coil and high accuracy output temperature sensor the F-Series⁵ reacts quickly to changes in pressure and flow ensuring a consistent temperature across a wide range of operating conditions.

The compact solid state temperature controller monitors the exact outlet temperature using a bi-metallic thermometer and displays the results on an optional gauge.

Fast response to flow & temperature variations

Heaters are available with or without pre-filtration and/or a temperature gauge depending on the needs of your application.





PURIFICATION SOLUTIONS

Applications Include:

- **Breathing Air**
- Manufacturing
- Military

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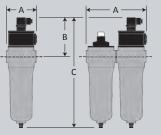
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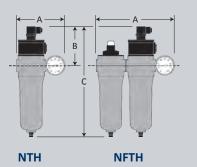
Technical Specification

Model	Inlet & Outlet			imensio (inches)	-	Approx. Weight	Replacement Element					
	NPT	scfm	Nm³/h	1Ph / 50-60 Hz	Α	В	С	lbs	Part No.			
Heater												
NH 27 A1	3/8″	27	46	115 VAC	3.5	5.1	13.3	2.2	-			
NH 27 A2	3/8″	27	46	230 VAC	3.5	3.5 5.1 13.3		2.2	-		-	
NH 27 B1	1/2"	27	46	115 VAC	3.5	5.1	13.3	2.2	-			
NH 27 B2	1/2"	27	46	230 VAC	3.5	5.1	13.3	2.2	-			
Heater + Tempera	ture Gauge											
NTH 27 A1	3/8″	27	46	115 VAC	6.9	5.1	13.3	2.9	-			
NTH 27 A2	3/8″	27	46	230 VAC	6.9	5.1	13.3	2.9	-			
NTH 27 B1	1/2"	27	46	115 VAC	6.9	5.1	13.3	2.9	-			
NTH 27 B2	1/2"	27	46	230 VAC	6.9	5.1	13.3	2.9	-			
Filter + Heater												
NFH 27 A1	3/8″	27	46	115 VAC	5.4	5.1	13.3	5.0	E 27 M01			
NFH 27 A2	3/8″	27	46	230 VAC	5.4	5.1	13.3	5.0	E 27 M01			
NFH 27 B1	1/2"	27	46	115 VAC	5.4	5.1	13.3	5.0	E 27 M01			
NFH 27 B2	1/2"	27	46	230 VAC	5.4	5.1	13.3	5.0	E 27 M01			
Filter + Heater + Te	emperature Ga	auge										
NFTH 27 A1	3/8″	27	46	115 VAC	8.9	5.1	13.3	5.8	E 27 M01			
NFTH 27 A2	3/8″	27	46	230 VAC	8.9	5.1	13.3	5.8	E 27 M01			
NFTH 27 B1	1/2"	27	46	115 VAC	8.9	5.1	13.3	5.8	E 27 M01			
NFTH 27 B2	1/2"	27	46	230 VAC	8.9	5.1	13.3	5.8	E 27 M01			



NH

NFH



specifications												
minimum operating flow				1.7 scfm								
design operating pressure range				22 to 232 psig								
automatic float drain (filter)		NDK 0050										
semi-automatic drain (heater)		NSDK 175										
power rating				1.5 kW								
input temperature range				-4°F to 248°F								
controlled output temperature range				68°F to 248°F								
electrical connection		DIN										
element performance ⁽²⁾				M01								
maximum particle size (ISO Class) (3)				1								
maximum oil content (ISO Class) ⁽³⁾				0.1								
particle removal				0.01 micron								
max oil carry over at 68°F	ax oil carry over at 68°F					0.01 ppm or mg/m ³						
recommended operating temper	35°F to 212°F											
design operating temperature range				35°F to 248°F								
maximum element life		12 months or 8000 hours										
pressure correction factor	'S											
operating pressure (psig)	60	70	85	100	115	145	175	205	23			

(1) At 100 psig. For all other pressures, refer to the pressure correction factor table above.

0.76

(2) Applies to Filter & Heater packages (NFH & NFTH) only. Filters are required for all applications containing liquids or aerosols.

0.92

1.00

1.07

1.19

1.31

0.84

(3) Per ISO 8573.1:2001 (E).

correction factor

• When used in a breathing air application, product is to be installed downstream of a suitable breathing air contaminant removal system. Product does not remove gases such as CO or CO2.

1.41

1.51