



LIQUID RING VACUUM PUMPS

NHF SERIES

Pumps. Systems. Service. Support. — One Source.

LIQUID RING VACUUM PUMP

MODELS: NHF-50, NHF-75, NHF-80, NHF-120



Drop-in replacement for Nash* AHF and MHF classic Series pumps — close-coupled design with directly interchangeable parts.

— FIT	— MATERIALS	— CONFIGURATION	— WARRANTY
Drop-in replacement for Nash* AHF and MHF classic Series; parts and repair kits readily available.	Standard CISR (cast iron with stainless rotor); 304 or 316 stainless steel or bronze.	Bare pump, direct drive , or V-belt systems; optional factory-installed mechanical seals.	2-year factory warranty against manufacturing defects.

Close-coupled and compact. Directly interchangeable with Nash* AHF and MHF.

NES Company is proud to offer our NHF Series liquid ring vacuum pumps. These pumps have been designed to be drop-in replacements for Nash* AHF and MHF classic Series pumps. NES NHF Series vacuum pumps are factory performance tested and include a 2-year warranty.

CAPACITY RANGE

50–120

CFM capacity range

POWER RANGE

3–7.5 HP

Motor power range

MAX VACUUM

28" Hg

Maximum vacuum

MODELS

4 Models

NHF-50 through NHF-120

Overview / Features / Notes

SPECIFICATION SUMMARY

Type	Single-Stage, Close-Coupled
Models	NHF-50, NHF-75, NHF-80, NHF-120
Power Range	3–7.5 HP
Capacity Range	50–120 CFM
Max Vacuum	28" Hg

DESCRIPTION

The NES Company Inc. NHF Series close-coupled Liquid Ring design liquid ring vacuum pumps. These 3 – 7.5 HP single stage liquid ring vacuum pumps have been designed for drop-in replacements and directly interchangeable parts for Nash* Classic AHF and MHF classic Series pumps.

FEATURES

- ▶ Drop-in replacement for Nash* AHF and MHF classic Series.
- ▶ Standard CISR (Cast Iron with Stainless Rotor), 304 or 316 Stainless Steel, Bronze construction.
- ▶ Optional factory installed mechanical seals.
- ▶ Parts and repair kits readily available.
- ▶ Available in bare pump, direct drive or V-belt systems.
- ▶ 2-year factory warranty against manufacturing defects.

NOTES

NES Company is proud to offer our NHF Series liquid ring vacuum pumps. These new pumps have been designed to be drop-in replacements for Nash* AHF and MHF classic Series pumps. NES Company NHF Series vacuum pumps are factory performance tested and include a two-year warranty against manufacturing defects.

FULL TECHNICAL DATA

The following pages cover technical data, variation and application tables, exploded views with parts lists, and material construction and pump weights. **Contact NES** at info@nescompany.com or 800-297-3550 for application support.

Technical Data / Performance by Model

VACUUM PUMP — TECHNICAL DATA

Series Name	Replaces Nash*	Motor Power [HP]	Max. CFM	Max Operating Vacuum ["HgV]	Inlet [Inch]	Outlet [Inch]	Seal Water Usage [GPM]	Seal Water Connection Size [Inch]
NHF-50	AHF-50 / MHF-50	3	53	28	2 NPT	1 ¼ NPT	1.5	1/2 NPT
NHF-75	AHF-75	5	75	25	2 NPT	2 NPT	3	1/2 NPT
NHF-80	AHF-80 / MHF-80	5	72	28	2 NPT	1 ½ NPT	2	1/2 NPT
NHF-120	AHF-120 / MHF-120	7.5	120	28	2 NPT	2 NPT	3	1/2 NPT

Variation / Application Tables

VARIATION TABLE

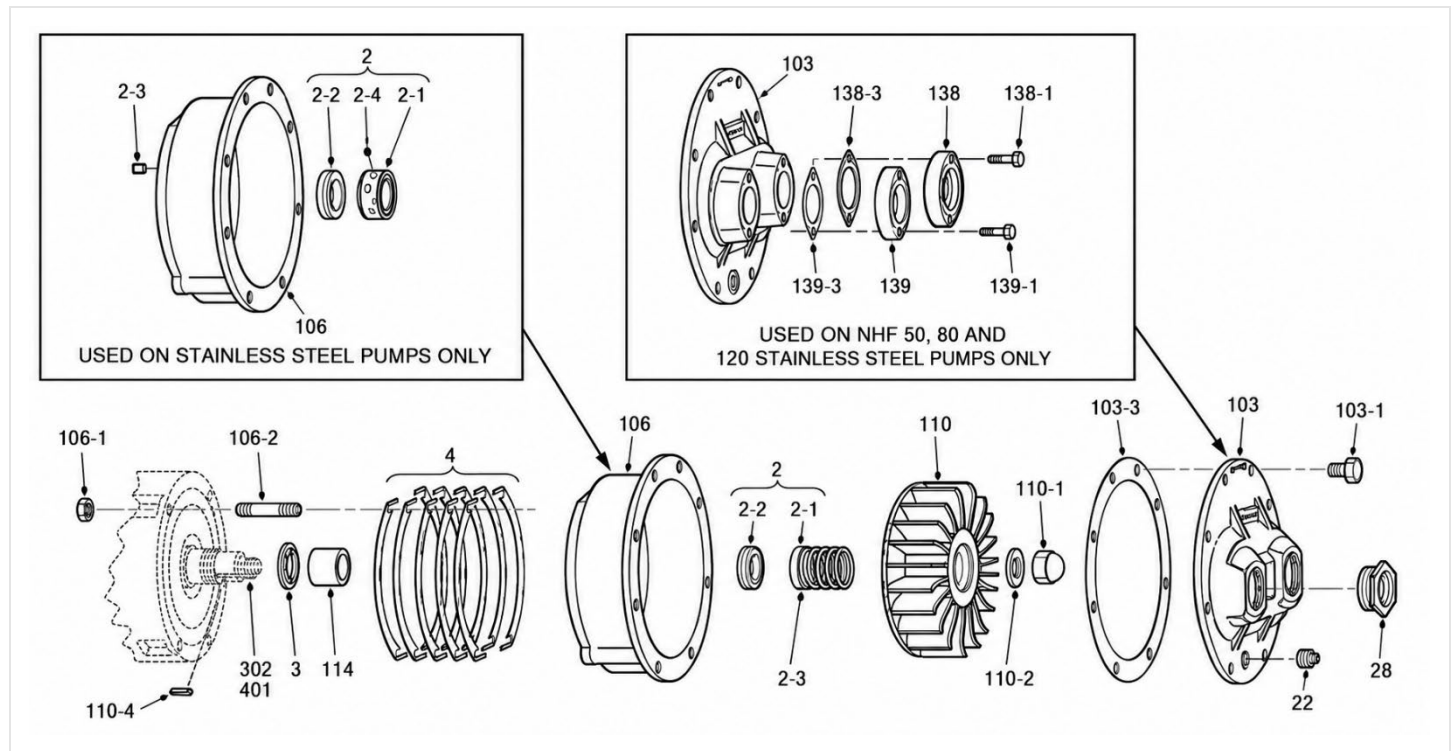
Variations	Particulars
Metallurgy	Standard Cast Iron / Stainless Rotor
	Stainless Steel 304
	Stainless Steel 316L
	Duplex Steel
	Bronze
Direction	Clockwise Rotation
Purpose	Vacuum Pump
	Compressor
Sealing	Standard Available as Gland Packing
	Available with Single Seal
	Available with Single Cartridge Seal
	Available with Dual Cartridge Seal and Seal Pot
Configuration	Once Through
	Partial Recovery
	Full Sealant Recovery
Other System Configuration	Simplex
	Duplex
	Triplex
	Quadruplex

APPLICATION TABLE

Variation	Applications
Deeper Vacuum	Central Vacuum Systems
	Deaeration
	Drying
	Evaporating
	Autoclaves
	Evaporating
	Priming
	Forming
	Fiber Setting
	Gas Stripping
	Molding
	Power Plants
	Container Filling
Water Handling	Filtering
	Extruder Venting
	Eviscerating
	Foods & Fats

Exploded View / Parts List

EXPLODED VIEW — NHF 50, 80 & 120



Index No.	Qty	Part Name	Index No.	Qty	Part Name	Index No.	Qty	Part Name
*2	1	Shaft Seal Assembly	103	1	Head	*114	1	Shaft Sleeve
2-1	NP	Rotating Seal	103-1	8	Head Screw	*138	1	Inlet Flange
2-2	NP	Stationary Seal	*103-3	1	Head Gasket	*138-1	2	Flange Screw
*2-3	NP	Seal Spring	106	1	Lobe	*138-3	1	Flange Gasket
*2-4	NP	Setscrew	106-1	4	Lobe Nut	*139	1	Discharge Flange
*2-5	NP	Holding Pin	106-2	4	Lobe Stud	*139-1	2	Flange Screw
*3	1	Slinger	110	1	Rotor	*139-3	1	Flange Gasket
*4	AR	Shims	*110-1	1	Rotor Nut	302	-	Pedestal Shaft
22	1	Drain Plug	*110-2	1	Rotor Washer	401	-	Motor Shaft
**28	1	Reducing Bushing	*110-4	1	Rotor Key			

Material Construction / Pump Weight

Series Name	Material of Construction	Weight (Lbs.)
NHF 50	CISR	97.44
	SS	100.97
NHF 75	Bronze	94.57
	SS	95.90
NHF 80	CISR	95.01
	Bronze	106.04
NHF 120	CISR	115.08
	SS	126.10

1. CISR = Cast Iron construction with Stainless Steel. 2. SS = Stainless Steel construction.

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