



TECHNICAL BROCHURE · 2026
LIQUID RING VACUUM PUMPS

LIQUID RING VACUUM PUMPS · SINGLE CONE · SINGLE STAGE

REMANUFACTURED SC SERIES

Rebuild it or replace it. Your SC* footprint stays.

REMANUFACTURED SC* · PLUS THE NEW NES NC SERIES DROP-IN REPLACEMENT



Two NES options for classic Nash* SC* pumps — same footprint, both backed by a 2-year warranty.

— REMANUFACTURED SC

Your OEM pump, rebuilt.

Restored to OEM dimensions;
95%+ of new-unit performance
guaranteed.

— NC SERIES

A new NES pump. Drop-in
aftermarket replacement for
classic SC* models, factory
performance tested.

— CORE EXCHANGE

Cast iron or stainless. Return
freight on cores is prepaid; lead
time confirmed at quote.

— STANDARD

No shortcuts. No epoxy or
metalizing spray. Made in
America.

Same footprint. **Two ways forward.**

Keep the Nash* SC* you already trust with an NES remanufacture, or install a new NES NC Series pump built to drop into the same space. Either way, your piping and base stay put.

NC CAPACITY

70–1,700

CFM across 9 models

MAX VACUUM

28" HG

every NC model

MOTOR RANGE

7.5–150 HP

NC Series

WARRANTY

2 YR

on both offerings

Two Offerings / One Footprint

REMANUFACTURED SC* VS. NC SERIES

	OPTION A REMANUFACTURED SC*	OPTION B NC SERIES
WHAT IT IS	An original Nash* SC* pump remanufactured by NES to OEM specifications.	A new NES-built, single-stage, single-cone pump — a drop-in aftermarket replacement for classic SC* pumps, with parts interchangeable internally and externally.
MODELS	SC-2* through SC-7*.	9 models, NC-2 through NC-11, each matched to an SC* model.
CONSTRUCTION	Cast iron. Stainless steel (limited availability).	Cast iron with PTFE packing standard. 304 or 316 SS-clad options; factory-installed mechanical seals optional.
PERFORMANCE	Guaranteed to perform at 95% or more of a new unit.	70–1,700 CFM, to 28" Hg; compression to 25 psig. Factory performance tested.
WARRANTY	2 years against manufacturing defects.	2 years against manufacturer's defects.
AVAILABILITY	Remanufactured to order; lead time confirmed at quote. Core return freight prepaid.	Standard models typically ship from stock.
GOOD FIT WHEN	You want to keep your OEM pump in service and can plan around the rebuild lead time.	You need a pump quickly, want a new unit, a choice of drive package, upgraded materials, or have no core to return.

OPTION A — HOW A REMANUFACTURE WORKS

— 01 SEND Your pump or core. Ship your SC* to NES, cast iron or stainless. Return freight on cores is prepaid.	— 02 INSPECT & QUOTE Fully documented. Inspection report plus a quote with photos and a bill of materials.	— 03 REBUILD & RETURN Back to OEM spec. Remanufactured to OEM dimensions, then shipped back for drop-in reinstallation.
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OPTION A — INSIDE AN NES SC* REBUILD

COMPONENT	CAST IRON	STAINLESS STEEL
Body	Stainless shroud rings welded in; compression areas nickel-welded and machined to OEM dimensions	Stainless plate rolled to size with shroud-fit rings, welded and machined
Heads	Bores and stuffing boxes sleeved; worn faces nickel-welded and machined	Bores sleeved; rolled stainless face plate with countersunk stainless screws
Cones	OD machined to remove wear and eccentricity; flanges trued	¼" stainless skin welded, ported and machined; flanges trued
Shaft & rotor	Journals sleeved; blade tips repaired; tapers nickel-welded; aligned and balanced as needed	Shroud OD stainless rings welded; vane tips and buckets repaired; balanced as needed
Assembly	New bearings, lip seals and check valves to OEM spec; mechanical seals refurbished	Same as cast iron

NC Series / Specifications

OPTION B — NC SERIES SELECTION TABLE

NC MODEL	REPLACES	MOTOR HP	CAPACITY (CFM)	MAX OP. VAC. ("Hg)	INLET / OUTLET (in)	SEAL WATER (GPM)	SEAL CONN. (in)
NC-2	SC-2	7.5–15	70–110	28	3 FL / 2 FL	1.5–6	½ NPT
NC-3	SC-3	15–25	110–240	28	4 FL / 3 FL	4–8	¾ NPT
NC-4	SC-4	20–25	160–220	28	4 FL / 3 FL	4–8	¾ NPT
NC-5	SC-5	20–40	260–300	28	4 FL / 3 FL	5–10	¾ NPT
NC-6	SC-6	30–40	275–500	28	6 FL / 4 FL	7–14	1 NPT
NC-7	SC-7	50–75	550–750	28	6 FL / 6 FL	12–18	1 NPT
NC-9	SC-9	50–100	480–1,200	28	8 FL / 6 FL	16–40	1½ NPT
NC-10	SC-10	75–125	900–1,200	28	8 FL / 6 FL	20–62	1½ NPT
NC-11	SC-11	100–150	800–1,700	28	10 FL / 8 FL	30–75	2 NPT

Note: Values as published by NES for the NC Series vacuum pumps. Ranges vary with model, speed, motor and seal water conditions — select from the model's performance curve. FL = flanged. Data applies to NC Series pumps only; remanufactured SC* pumps are restored to 95%+ of the original OEM performance for that model.

NC SERIES AT A GLANCE

— DRIVE

Your choice. Bare pump, direct drive, or V-belt system.

— COMPRESSOR

To 25 psig. Compressor curves available for all nine models — ask NES.

— MATERIALS

Cast iron standard. 304 or 316 stainless-clad options; PTFE packing or mechanical seals.

— PARTS

SC* interchangeable. Internal and external parts fit, with repair kits available.

FULL TECHNICAL DATA

Contact NES for NC pump and compressor curves, model drawings, the NC O&M manual, or a quote on remanufacturing or exchanging your SC*.

Applications / Notices

SC* SERIES SOLUTIONS
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NC SERIES APPLICATIONS

▶ Autoclaves	▶ Chucking	▶ Container filling	▶ Labeling & forming
▶ Cooking	▶ Decorating	▶ Deodorizing	▶ Drying
▶ Evaporating	▶ Eviscerating	▶ Exhausting	▶ Extruder venting

Also used in **bioethanol manufacturing** — and well suited to dirty jobs such as poultry evisceration and exhausting.

SERVICE & SUPPORT

- ▶ **Inspection & PM** — fiberscope inspections and preventive maintenance schedules.
- ▶ **Parts & repair kits** — readily available for NC Series and SC* pumps.
- ▶ **Proven repairs** — NES rebuilds of a CL* 9003* and a 904* have run for 28 years.

IMPORTANT NOTICES

Trademarks. NES Company is an independent manufacturer, remanufacturer and distributor of OEM and non-OEM vacuum pumps. It is not affiliated with, endorsed by or sponsored by Nash, Gardner Denver, Ingersoll Rand or any other company named in this brochure. Nash, SC and all model designations (marked *) are the property of their respective owners and are used for identification and comparison only.

NC Series. NC Series pumps are designed and supplied by NES and are not Nash* products. References to SC* models indicate intended dimensional and functional interchangeability only; confirm fit against your installation before ordering.

Performance data. Published values are typical ranges for preliminary selection, not a performance guarantee unless certified by NES in writing for a specific order. Actual performance depends on speed, motor, seal water temperature and flow, altitude, gas composition and condition of the system.

Warranty & exchange. Remanufactured SC* pumps are guaranteed to perform at 95% or more of new-unit performance. Both offerings are warranted for two years against manufacturing defects. Core return requirements, exchange credits and complete warranty terms are set by the NES quotation and NES Terms & Conditions, which govern.

Installation & changes. Do not use this brochure for installation or piping design; request certified drawings for your order. Specifications are subject to change without notice. Remanufactured SC* pumps are made to order; NC Series stock and all lead times are confirmed at the time of inquiry.



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