



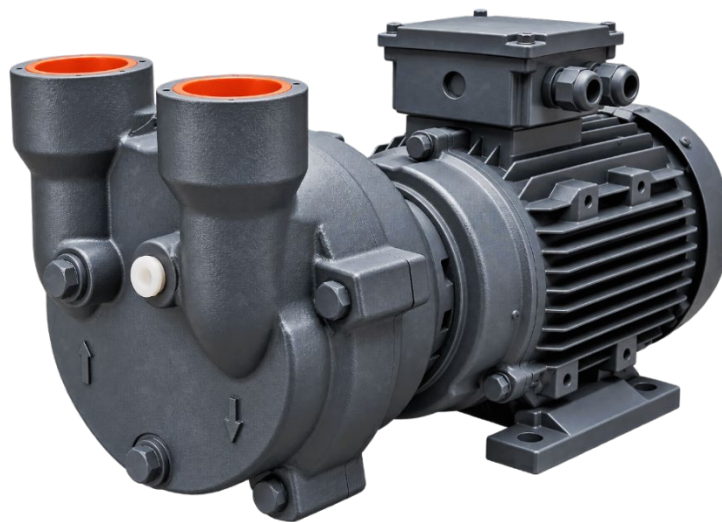
DUAL VOLTAGE SINGLE-STAGE LIQUID RING VACUUM PUMPS & COMPRESSORS

# NCC SERIES

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

LIQUID RING VACUUM PUMPS

MODELS: NCC20, NCC35, NCC55, NCC75, NCC115, NCC160, NCC200, NCC300, NCC350



**Drop-in replacement for Siemens\* 2BV series vacuum pumps — with directly interchangeable parts.**

| <b>— FIT</b>                                                                                 | <b>— MATERIALS</b>                                                                               | <b>— CONFIGURATION</b>                                                                                                             | <b>— WARRANTY</b>                                              |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| <b>Drop-in replacement</b> for Siemens* 2BV series; parts and repair kits readily available. | <b>Standard cast iron</b> construction with Teflon packing; optional 304 or 316 stainless steel. | <b>Bare pump as close-coupled unit</b> , or as lantern configuration for hazardous ratings; mechanical seal installed as standard. | <b>1-year factory warranty</b> against manufacturer's defects. |

**Close-coupled and compact. Directly interchangeable with Siemens\* 2BV.**

NES Company is proud to offer our single stage/single cone NCC Series liquid ring vacuum pumps. The NCC pumps have been designed to be drop-in replacements for Siemens\* 2BV Series vacuum pumps.

CAPACITY RANGE

**18–350**

CFM capacity range

POWER RANGE

**2–25 HP**

Motor power range

MAX VACUUM

**28" Hg**

Maximum vacuum

MODELS

**9 Models**

NCC20 through NCC350

SPECIFICATION SUMMARY

|                |                                                                    |
|----------------|--------------------------------------------------------------------|
| Type           | Single-Stage, Dual Voltage                                         |
| Service        | Vacuum Pumps & Compressors                                         |
| Models         | NCC20, NCC35, NCC55, NCC75, NCC115, NCC160, NCC200, NCC300, NCC350 |
| Power Range    | 2–25 HP                                                            |
| Capacity Range | 18–350 CFM                                                         |
| Max Vacuum     | 28" Hg                                                             |

DESCRIPTION

The 2 - 25 HP single-stage NCC Series liquid ring vacuum pumps have been designed to be drop-in replacements for Siemens\* 2BV series pumps with directly interchangeable parts. NES Company NCC Series liquid ring vacuum pumps are factory performance tested and include a 1-year warranty against manufacturer’s defects.

FEATURES

- ▶ Drop-in replacement for Siemens\* 2BV series
- ▶ Standard construction is Cast Iron with Teflon Packing.
- ▶ Optional 304 or 316 Stainless Steel construction.
- ▶ Optional factory-installed mechanical seals
- ▶ Parts and repair kits readily available
- ▶ Available in close-coupled or lantern configuration
- ▶ 1-year factory warranty against manufacturer’s defects.

NOTES

NES Company is proud to offer our single-stage port plate NCC Series close-coupled liquid ring vacuum pumps. These new pumps have been designed to be drop-in replacements for Siemens\* 2BV Series pumps. NES pumps are factory performance tested and include a 1-year warranty against manufacturing defects.

FULL TECHNICAL DATA

The following pages cover model-by-model performance data, variation and application tables, material construction and weights, and exploded views. **Contact NES** at [info@nescompany.com](mailto:info@nescompany.com) or 800-297-3550 for application support.

# Technical Data / Performance by Model

## LIQUID RING VACUUM PUMPS

| Series Name | Motor Power [HP] | CFM | Max Operating Vacuum [”HgV] | Inlet [Inch] | Outlet [Inch] | Seal Water Usage [GPM] | Seal Water Connection Size [Inch] |
|-------------|------------------|-----|-----------------------------|--------------|---------------|------------------------|-----------------------------------|
| NCC-20      | 2                | 18  | 28                          | 1 FL         | 1 FL          | 0.6                    | 0.25 NPT                          |
| NCC-35      | 3                | 34  | 28                          | 1 FL         | 1 FL          | 0.6                    | 0.25 NPT                          |
| NCC-55      | 5                | 52  | 28                          | 1.5 FL       | 1.5 FL        | 0.7                    | 0.25 NPT                          |
| NCC-75      | 7.5              | 72  | 28                          | 1.5 FL       | 1.5 FL        | 1.1                    | 0.25 NPT                          |
| NCC-115     | 7.5              | 115 | 28                          | 2 FL         | 2 FL          | 1.8                    | 0.75 NPT                          |
| NCC-160     | 10               | 155 | 28                          | 2 FL         | 2 FL          | 2.5                    | 0.75 NPT                          |
| NCC-200     | 15               | 190 | 28                          | 2.5 FL       | 2.5 FL        | 2.75                   | 0.75 NPT                          |
| NCC-300     | 20               | 275 | 28                          | 2.5 FL       | 2.5 FL        | 4                      | 0.75 NPT                          |
| NCC-350     | 25               | 350 | 28                          | 3 FL         | 3 FL          | 5.5                    | 0.75 NPT                          |

# Variation / Application Tables

VARIATION TABLE

| Variations                 | Particulars                                     |
|----------------------------|-------------------------------------------------|
| Metallurgy                 | Standard Cast Iron                              |
|                            | Stainless Steel 304                             |
|                            | Stainless Steel 316L                            |
|                            | Duplex Steel                                    |
|                            | Bronze                                          |
| Direction                  | Clockwise                                       |
|                            | Counter-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 |
|                | De-aeration            |
|                | Drying                 |
|                | Evaporating            |
|                | Autoclaves             |
|                | Evaporating            |
|                | Priming                |
|                | Forming                |
|                | Fiber Setting          |
|                | Gas Stripping          |
|                | Molding                |
|                | Power Plants           |
|                | Container Filling      |
| Water Handling | Filtering              |
|                | Extruder Venting       |
|                | Eviscerating           |
|                | Foods & Fats           |

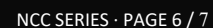
# Materials / Weights

MATERIAL CONSTRUCTION AND WEIGHT TABLE

| Type    | Material Conveying Parts | Weight* Approx. [lbs.] |
|---------|--------------------------|------------------------|
| NCC-20  | Cast iron                | 55.5                   |
| NCC-35  | Cast iron                | 57.5                   |
| NCC-55  | Cast iron                | 77.5                   |
|         | Stainless steel          | 93.0                   |
| NCC-75  | Cast iron                | 135                    |
|         | Stainless steel          | 148                    |
| NCC-115 | Cast iron                | 201                    |
|         | Stainless steel          | 216                    |
| NCC-160 | Cast iron                | 201                    |
|         | Stainless steel          | 216                    |
| NCC-200 | Cast iron                | 375                    |
|         | Stainless steel          | 401                    |
| NCC-300 | Cast iron                | 399                    |
|         | Stainless steel          | 432                    |
| NCC-350 | Cast iron                | 556                    |
|         | Stainless steel          | 582                    |

\*Specified is the weight for the largest motor size. For more information, please contact your NES representative.

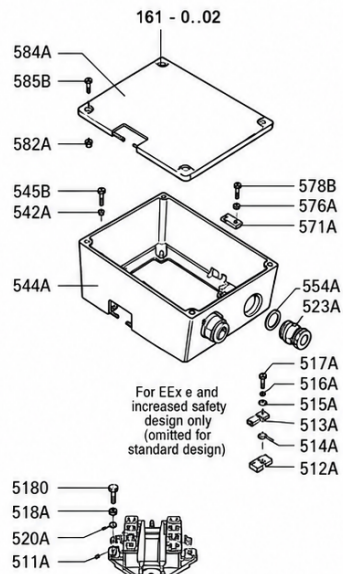
**EXPLODED VIEW — NCC20 THRU NCC75**



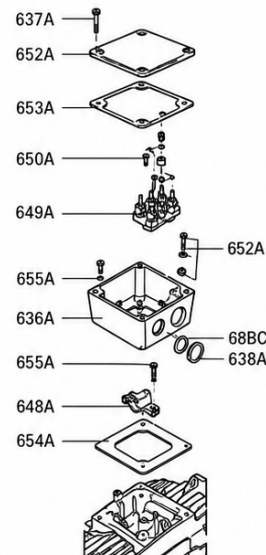
# Exploded View / Reference Drawings

## EXPLODED VIEW — NCC115 THRU NCC350

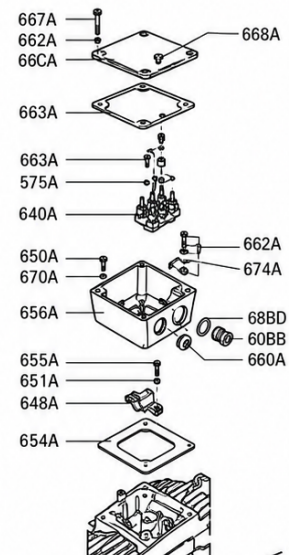
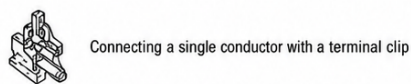
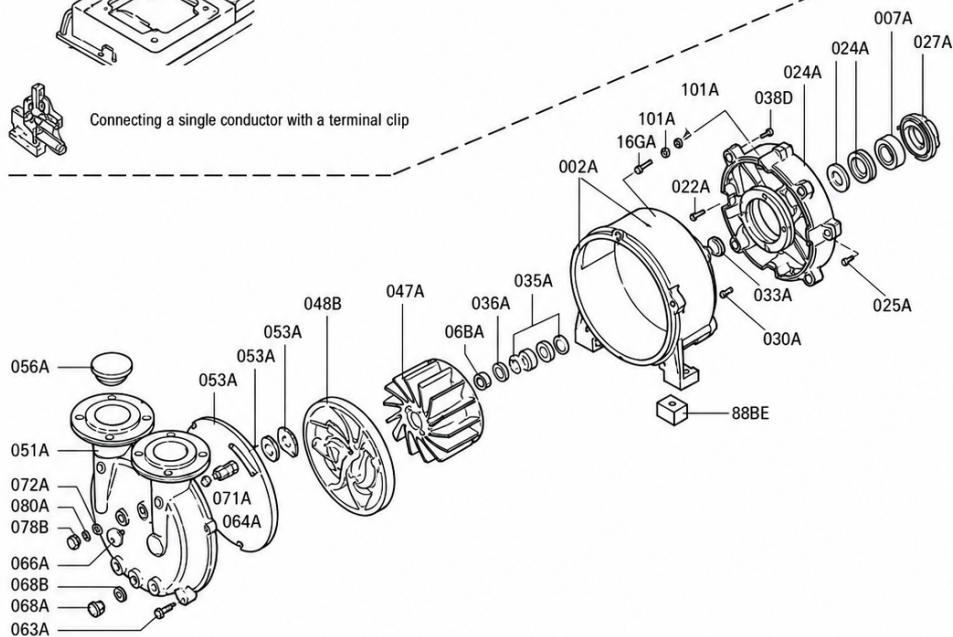
Terminal box in standard and EEx e design



Terminal box in standard design



Terminal box in EEx e design



SCAN FOR  
NESCOMPANY.COM  
nescompany.com

NES COMPANY, INC.

333 Route 46 West, Building B Suite 180 · Fairfield, NJ 07004  
nescompany.com · info@nescompany.com · 800-297-3550