



# Product overview

## Typical applications:

**NHMD-Series** **Page 3**

**HMS-Series** **Page 4**

Production of semiconductors and solar cells, gas and exhaust air scrubbers, filtration of liquids, use in coating plants, operation of water treatment plants, purging applications, systems for PCB processing, electroplating equipment, general mixing and circulation tasks, redox flow applications, disinfection systems, pumping toxic fluids.



**Vertical Pumps** **Page 5**

Production of semiconductors and solar cells, gas and exhaust air scrubbers, filtration of liquids, use in coating plants, operation of water treatment plants, purging applications, PCB processing equipment, electroplating equipment, general mixing and circulation tasks, redox flow applications, disinfection systems, pumping toxic fluids.



**Filter chambers** **from Page 6**

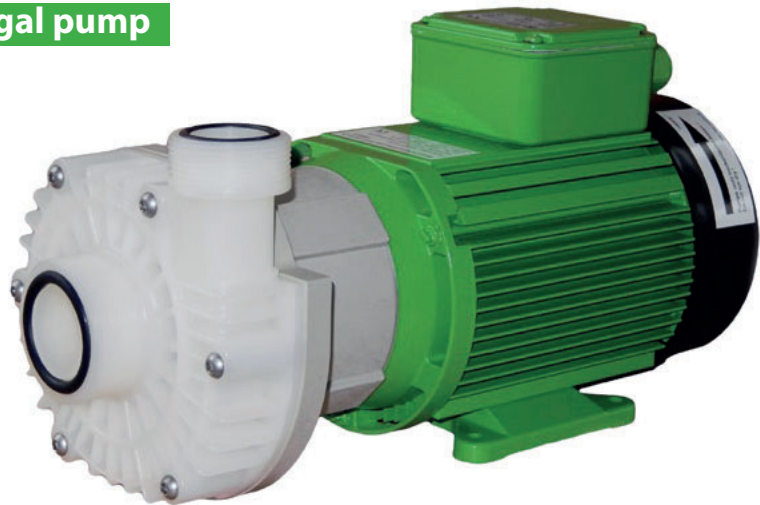
Electroplating, etching equipment, textile industry, process engineering, water and wastewater treatment, cleaning equipment, food and beverage industry.



## Magnetically coupled centrifugal pump

### normal suction

### NHMD-Series



| Type:      | Motorpower<br>kW | Suction side d/DN<br>mm | Pressure side d/DN<br>mm | Weight<br>kg | Q max.<br>m <sup>3</sup> /h | H max.<br>m lc |
|------------|------------------|-------------------------|--------------------------|--------------|-----------------------------|----------------|
| NHMD-13-14 | 0,37 to 0,55     | 40/32                   | 32/25                    | 10           | 13                          | 14             |
| NHMD-20-21 | 0,75 to 1,5      | 50/40                   | 40/32                    | 13 to 15     | 20                          | 21             |
| NHMD-29-23 | 1,5 to 2,2       | 63/50                   | 50/40                    | 22 to 27     | 29                          | 23             |
| NHMD-30-24 | 2,2 to 3,0       | 63/50                   | 50/40                    | 24 to 30     | 30                          | 24             |
| NHMD-46-29 | 4,0              | 75/65                   | 63/50                    | 48           | 46                          | 29             |

Materials: PP, PVDF and high performance polymer (PEEK, ECTFE)

Flow rate: 0,5 to 46 m<sup>3</sup>/h


Delivery head: up to 29 m lc

Motor power: 0,37 to 4 kW

#### Features:

- All wetted parts made of PP, PVDF high performance polymer (PEEK, ECTFE) - no metals in contact with the liquid
- This pump will not damage while operating in the wrong direction
- Depending on the application and the sliding bearing materials, dry running lasting several minutes is possible
- hermetically sealed
- Maintenance friendly design
- High hydraulic efficiency
- Efficiency class: IE3
- Motors optimized for corrosive environments
- Motors are suitable for frequency converter operation

#### Optionally available:

- UL/CSA/ATEX versions 
- Elastomers: EPDM, FKM or FFKM
- Sliding bearing materials: SiC / PTFE carbon fibre or SiC / SiC
- Compact drives (motor and frequency inverter)
- Hose nozzels, Union nuts and other piping accessory
- Special connections
- Customised design always possible

## Centrifugal pump with mechanical seal

### normal suction

### HMS-Series



| Type:      | Motorpower<br>kW | Suction side d/DN<br>mm | Pressure side d/DN<br>mm | Weight<br>kg | Q max.<br>m³/h | H max.<br>m lc |
|------------|------------------|-------------------------|--------------------------|--------------|----------------|----------------|
| HMS-7-9    | 0,25             | 20/16                   | 20/16                    | 5,5          | 5              | 8              |
| HMS-13-14  | 0,37 to 0,55     | 40/32                   | 32/25                    | 13 to 15     | 13             | 14             |
| HMS-40-17  | 2,2 to 3,0       | 63/50                   | 50/40                    | 30 to 36     | 40             | 17             |
| HMS-35-30  | 3,0              | 63/50                   | 50/40                    | 38           | 35             | 30             |
| HMS-58-33  | 5,5 to 7,5       | 75/65                   | 63/50                    | 75 to 95     | 58             | 33             |
| HMS-64-37  | 7,5 to 11        | 75/65                   | 63/50                    | 85 to 110    | 64             | 37             |
| HMS-107-37 | 11 to 15         | 90/80                   | 75/65                    | 85 to 135    | 107            | 37             |

Materials: PP, PVDF and stainless steel (1316 Ti)

Flow rate: 0,5 to 100 m³/h


Delivery head: up to 37 m lc

Motor power: 0,25 bis 15 kW

#### Features:

- Low maintenance due to practically wear-free SiC sealings
- Pump can handle metallic particles
- Maintenance friendly design
- Compact design
- High hydraulic efficiency
- Motors optimized for corrosive environments
- Motors are suitable for frequency converter operation
- Up to DN50 optionally union nuts or flange connection
- from size DN50 flange connections
- 100% exam with test protocol

#### Optionally available:

- UL/CSA/ATEX versions 
- Elastomers: EPDM, FKM or FFKM
- Compact drives (motor & frequency inverter)
- Hose nozzels, Union nuts and other piping accessory
- Special connections
- Customised design always possible

#### Motors:

Efficiency class: IE3

Degree of protection: IP55 (standard),  
others available

Control: Thermistor protected

Shaft: Stainless steel

Cable glands: Stainless steel

Other versions: UL/CSA/ ATEX

## Vertical centrifugal pump

V-2.2-5 to V-8.8-9

V-5 to V-41

V-90-15 to V-260-29



Materials: PP or PVDF  
Immersion depths: from 270 to 2000mm  
Flow rate: up to 42 m<sup>3</sup>/h  
Delivery head: from 0,5 to 250 m<sup>3</sup>/h  
Motor power: 0,12 to 30 kW

### Features:

- All wetted parts made of PP or PVDF  
no metals in contact with the liquid
- Abrasion-free, therefore suitable for high purity applications
- Without intermediate bearing, therefore absolutely safe to run dry (up to 650mm)
- Reinforced design for stability and longevity
- Low maintenance, therefore cost-effective operation
- Compact and energy efficient design
- Special paint and fan cowls made of plastic for use in aggressive atmosphere

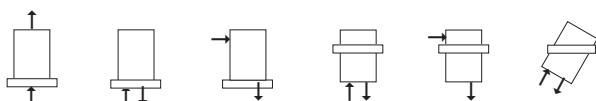
### Optionally available:

- Suction extensions and suction strainer
- Intermediate filter
- Hose connectors
- Customised mounting flange
- Vapour barrier
- FIP fittings
- Dry installation (outdoor installation) next to the container
- HP variant with high pressure
- Motor fan cover with protective cover
- Flat gasket for tank installation
- Customised design always possible

## Filter chambers

### NFK-10-3 and NFK-20-3

#### Several installation variations



| Maximum pressure at temperature |     |     |     |      |
|---------------------------------|-----|-----|-----|------|
| °C                              | °F  | bar | psi | MPa  |
| 20                              | 68  | 3,5 | 50  | 0,35 |
| 55                              | 131 | 3,5 | 50  | 0,35 |
| 80                              | 176 | 2,5 | 36  | 0,25 |

Material: PP  
 Flow rate: from 1,5 to 4,5 m<sup>3</sup>/h  
 Filterinput: d25/DN20  
 Filteroutput: d25/DN20

#### Selectable cadriges, disks or bags:

- Cadrige 3 pcs length 10"
- Cadrige 3 pcs length 20"
- 37 disks outside diameter 136 mm and inside diameter 32 mm
- 69 disks outside diameter 136 mm and inside diameter 32 mm
- Bags length 10"
- Bags length 20"
- 31 disks and carbon bag (4 Liter)
- 32 disks and carbon bag (7,5 Liter)
- Bag in combination with filter basket insert
- Microfiber in combination with filter basket insert



#### Optionally available:

- Pressure gauge
- External closure parts made of titanium or nickel-coated
- Hose connectors
- PP feet
- Mounting plate according to customer requirements
- Use for "single open end" cartridges
- Filter basket insert for bag filter or microfiber

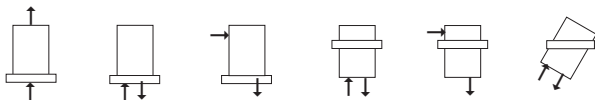
#### Available filter media:

- PP cadrige wounded
- Polyester cadrige wounded
- PP cadrige foamed
- PP cadrige folded
- Carbon cadrige
- Paper disks 0,3 mm
- Paper disks 1 mm
- Carbon disks 0,5 mm
- PP disks
- PP bags
- Carbon bags
- Microfiber in Spaghetti shape
- Microfiber in tinsel shape

## Filter chambers

### NFK-10-7 and NFK-20-7

#### Several installation variations



#### Maximum pressure at temperature (standard)

| °C | °F  | bar | psi | MPa  |
|----|-----|-----|-----|------|
| 20 | 68  | 3,5 | 50  | 0,35 |
| 55 | 131 | 3,5 | 50  | 0,35 |
| 80 | 176 | 2,5 | 36  | 0,25 |

#### Maximum pressure at temperature (optional)

| °C | °F  | bar | psi | MPa  |
|----|-----|-----|-----|------|
| 20 | 68  | 5,5 | 80  | 0,55 |
| 50 | 131 | 5,5 | 80  | 0,55 |

Material: PP and PVDF  
 Flow rate: from 7 to 21 m<sup>3</sup>/h  
 Filter input: d32/DN25  
 Filter output: d32/DN25

#### Selectable cadridges, disks or bags:

- Cadrige 7 pcs length 10"
- Cadrige 7 pcs length 20"
- 37 disks outside diameter 205 mm and inside diameter 32 mm
- 69 disks outside diameter 205 mm and inside diameter 32 mm
- Bags length 10"
- Bags length 20"
- 10 disks and carbon bag (8 Liter)
- 37 disks und carbon bag (15 Liter)
- Bag in combination with filter basket insert
- Microfiber in combination with filter basket insert



#### Optionally available:

- External closure parts made of titanium or nickel-coated
- Pressure gauge
- Hose connectors
- PP feet
- Mounting plate according to customer requirements
- Use for "single open end" cartridges
- Filter basket insert for bag filter or microfiber

#### Avaiable filter media:

- PP cadrige wounded
- Polyester cadrige wounded
- PP cadrige foamed
- PP cadrige folded
- Carbon disk 400 g / 10"-5µm
- Paper disks 0,3 mm
- Paper disks 1 mm
- Carbon disks 0,5 mm
- PP or Polyester disks
- PP bags
- Carbon bags
- Microfiber in Spaghetti shape
- Microfiber in tinsel shape

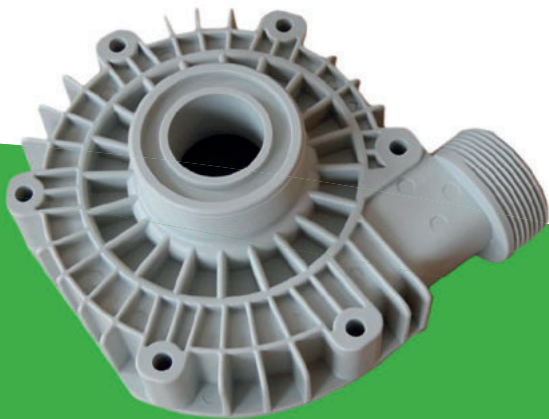
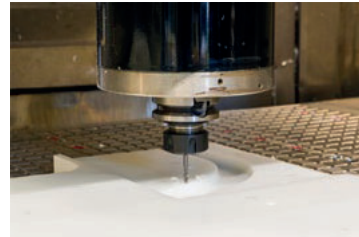
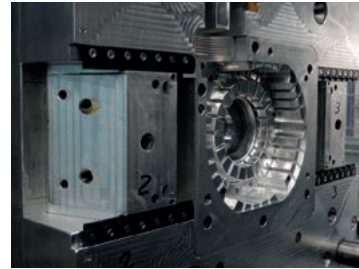


## About us

High system availability, minimization of failures, low energy consumption are the requirements demanded by modern systems. NEES Pumpen offers you an optimized concept for these requirements. Our high quality of advice is reflected in the delivered centrifugal pumps.

In order to be able to offer you high-quality products as well as attractive prices, we rely on our own development of injection molding and investment casting tools. Due to our decades of experience, the pumps are designed by us to be flow-optimized and practice-proven. Our components are manufactured in high-performance machining centers.

We work exclusively with DIN ISO9001 certified companies and are in constant dialogue with our suppliers. Customer requests are implemented very economically in a very short time. Every pump that leaves our warehouse undergoes a comprehensive functional test.



## We are looking forward to advise you

Each pump is an individual product and is tailored to your plant and process. Therefore, the personal consultation is the basis for us. We look forward to your inquiry by phone or e-mail.



**NEES Pumpen GmbH**  
Tulpenstrasse 8  
75045 Walzbachtal Germany

Fon +49 721 75 6936 56  
Fax +49 721 75 69 36 57  
[info@nees-pumpen.de](mailto:info@nees-pumpen.de)  
[www.nees-pumpen.de](http://www.nees-pumpen.de)