

NGA-PRO

Stainless steel pumps with open impeller



PERFORMANCE RANGE

- Flow rate up to **350 l/min** (21 m³/h)
- Head up to **20 m**

APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Max. working pressure **6 bar**
- Passage of suspended solids up to **Ø 10 mm**
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS



INSTALLATION AND USE

Suitable for use with clean water and liquids that are not chemically aggressive towards the materials from which the pump is made. The open impeller design allows **liquids containing relatively high levels of impurities** to be pumped without the risk of the impeller clogging. All of the components in contact with the pumped liquid are constructed in stainless steel AISI 316. As a result of these characteristics the NGA-PRO series pumps find specific use in assemblies for washing fruit, vegetables, fish and shellfish, in industrial assemblies for washing metallic objects and glass containers, as well as for the circulation of cooling liquids. The pump should be installed in an enclosed environment, or at least sheltered from inclement weather.

OPTIONALS AVAILABLE ON REQUEST

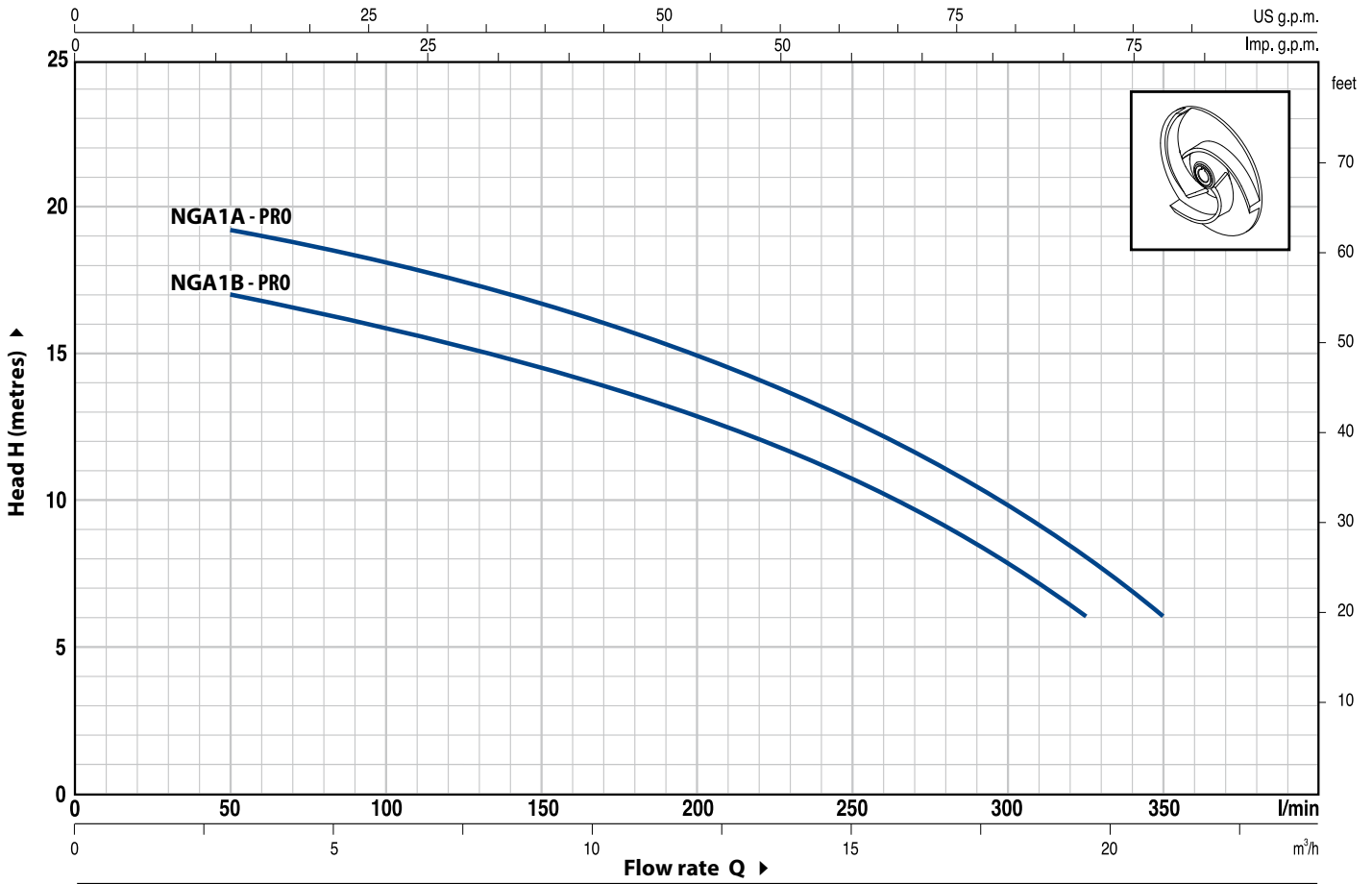
- Special mechanical seal
- Other voltages or 60 Hz frequency

GUARANTEE

1 year subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min HS= 0 m

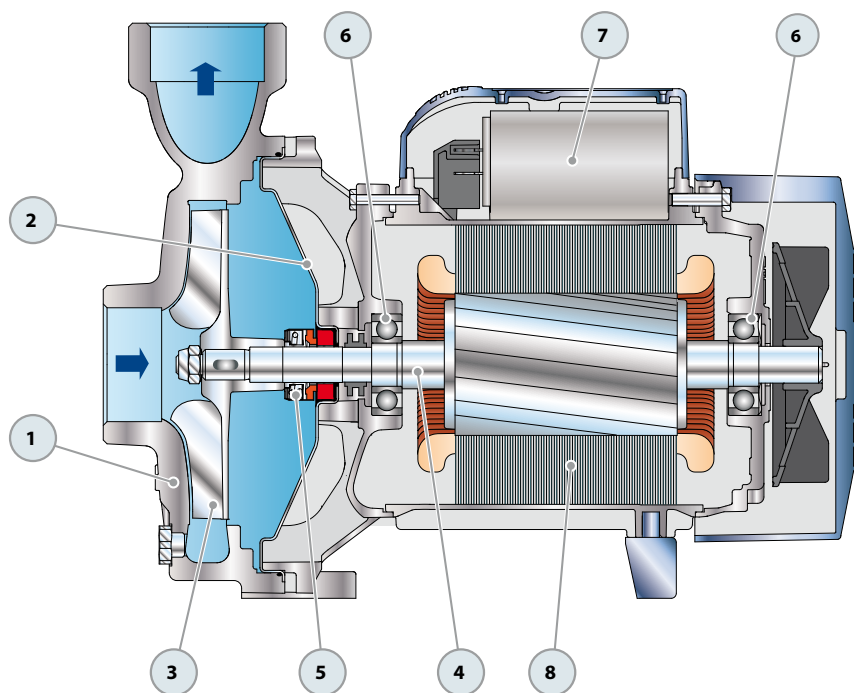


| MODEL | | POWER | | Q | Flow rate | | | | | | | | | | | | |
|---------------|--------------|-------|------|----------|-----------|------|-----|------|-----|------|-----|-----|------|----|--|--|--|
| Single-phase | Three-phase | kW | HP | | m³/h | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 19.5 | 21 | | | |
| NGAm 1B - PRO | NGA 1B - PRO | 0.55 | 0.75 | H metres | 0 | 50 | 100 | 150 | 200 | 250 | 300 | 325 | 350 | | | | |
| NGAm 1A - PRO | NGA 1A - PRO | 0.75 | 1 | | 18 | 17 | 16 | 14.5 | 13 | 10.5 | 8 | 6 | | | | | |
| | | | | | 20 | 19.5 | 18 | 16.5 | 15 | 12.5 | 10 | 8 | 6 | | | | |

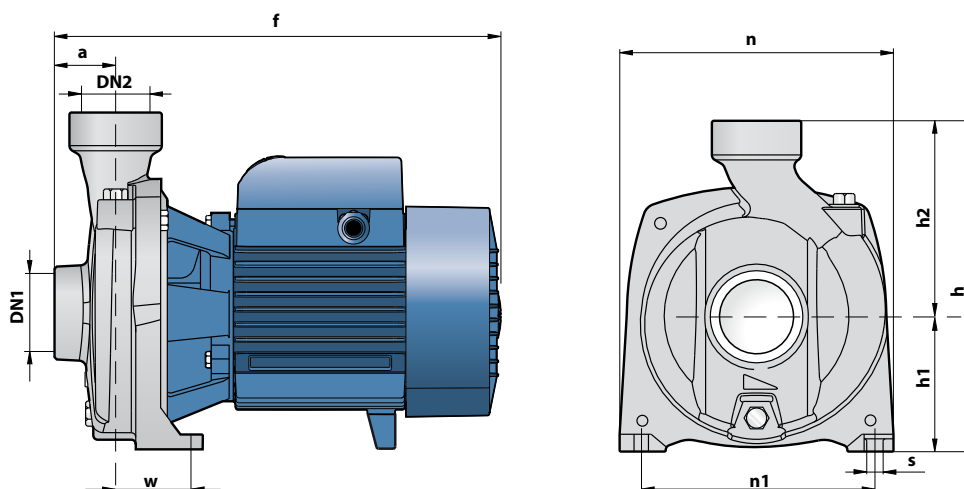
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 App. A.

| POS. | COMPONENT | CONSTRUCTION CHARACTERISTICS | | | | |
|------|-----------------|---|-------------------------|------------------------|------------------------|------------------|
| 1 | PUMP BODY | Stainless steel AISI 316, complete with threaded ports in compliance with ISO 228/1 | | | | |
| 2 | BODY BACKPLATE | Stainless steel AISI 316 | | | | |
| 3 | IMPELLER | Open impeller in stainless steel 316 | | | | |
| 4 | MOTOR SHAFT | Stainless steel AISI 316 | | | | |
| 5 | MECHANICAL SEAL | <i>Seal</i> | <i>Shaft</i> | <i>Materials</i> | | |
| | | <i>Model</i> | <i>Diameter</i> | <i>Stationary ring</i> | <i>Rotational ring</i> | <i>Elastomer</i> |
| | | AR-14S | Ø 14 mm | Ceramic | Graphite | Viton |
| 6 | BEARINGS | 6203 ZZ / 6203 ZZ | | | | |
| 7 | CAPACITOR | <i>Pump</i> | <i>Capacitance</i> | | | |
| | | <i>Single-phase</i> | <i>(230 V or 240 V)</i> | | <i>(110 V)</i> | |
| | | NGAm 1B - PRO | 16 µF 450 VL | 60 µF 300 VL | | |
| | | NGAm 1A - PRO | 20 µF 450 VL | 60 µF 300 VL | | |
| 8 | ELECTRIC MOTOR | <p>NGAm - PRO: single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding.</p> <p>NGA - PRO: three-phase 230/400 V - 50 Hz.</p> <p>⇒ Pumps fitted with the three-phase motor option offer IE2 (IEC 60034-30) class high performance</p> <p>– Insulation: F class.</p> <p>– Protection: IP X4.</p> | | | | |



DIMENSIONS AND WEIGHT



| MODEL | | PORTS | | DIMENSIONS mm | | | | | | | | | kg | |
|---------------|--------------|-------|-----|---------------|-----|-----|----|-----|-----|-----|----|----|------|------|
| Single-phase | Three-phase | DN1 | DN2 | a | f | h | h1 | h2 | n | n1 | w | s | 1~ | 3~ |
| NGAm 1B - PRO | NGA 1B - PRO | 1½" | 1½" | 41 | 297 | 227 | 92 | 135 | 190 | 160 | 50 | 10 | 13.0 | 11.9 |
| NGAm 1A - PRO | NGA 1A - PRO | | | | | | | | | | | | 13.1 | 12.0 |

ABSORPTION

| MODEL | VOLTAGE (single-phase) | | |
|---------------|------------------------|-------|--------|
| Single-phase | 230 V | 240 V | 110 V |
| NGAm 1B - PRO | 5.6 A | 5.3 A | 11.2 A |
| NGAm 1A - PRO | 6.2 A | 6.0 A | 12.0 A |

| MODEL | VOLTAGE (three-phase) | | | | | |
|--------------|-----------------------|-------|-------|-------|--------|-------|
| Three-phase | 230 V | 400 V | 690 V | 240 V | 415 V | 720 V |
| NGA 1B - PRO | 3.3 A | 1.9 A | 1.1 A | 3.2 A | 1.85 A | 1.1 A |
| NGA 1A - PRO | 3.6 A | 2.1 A | 1.2 A | 3.5 A | 2.0 A | 1.2 A |

PALLETIZATION

| MODEL | | GROUPAGE | | | | CONTAINER | | | |
|---------------|--------------|----------|--------|-----|-----|-----------|--------|------|------|
| Single-phase | Three-phase | n° pumps | H (mm) | kg | | n° pumps | H (mm) | kg | |
| | | | | 1~ | 3~ | | | 1~ | 3~ |
| NGAm 1B - PRO | NGA 1B - PRO | 70 | 1415 | 930 | 850 | 112 | 2180 | 1480 | 1350 |
| NGAm 1A - PRO | NGA 1A - PRO | 70 | 1415 | 940 | 860 | 112 | 2180 | 1490 | 1360 |

