NGA-PRO

Stainless steel pumps with open impeller

Clean water
Agricultural use
Industrial use

PERFORMANCE RANGE

- Flow rate up to **350 l/min** (21 m^3/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 60335-1
IEC 60335-1
CEI 61-150

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

CE

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT

INSTALLATION AND USE

Suitable for use with 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**. Because of this characteristic the **NGA-PRO** series of pumps are particularly suitable for use in plants for washing fruit, vegetables, fish and shellfish, in industrial washing plants and for the circulation of cooling liquids. The pump should be installed in an enclosed environment or sheltered from inclement weather.

PATENTS - TRADE MARKS - MODELS

- Registered EU Design n. 002098434

OPTIONS AVAILABLE ON REQUEST

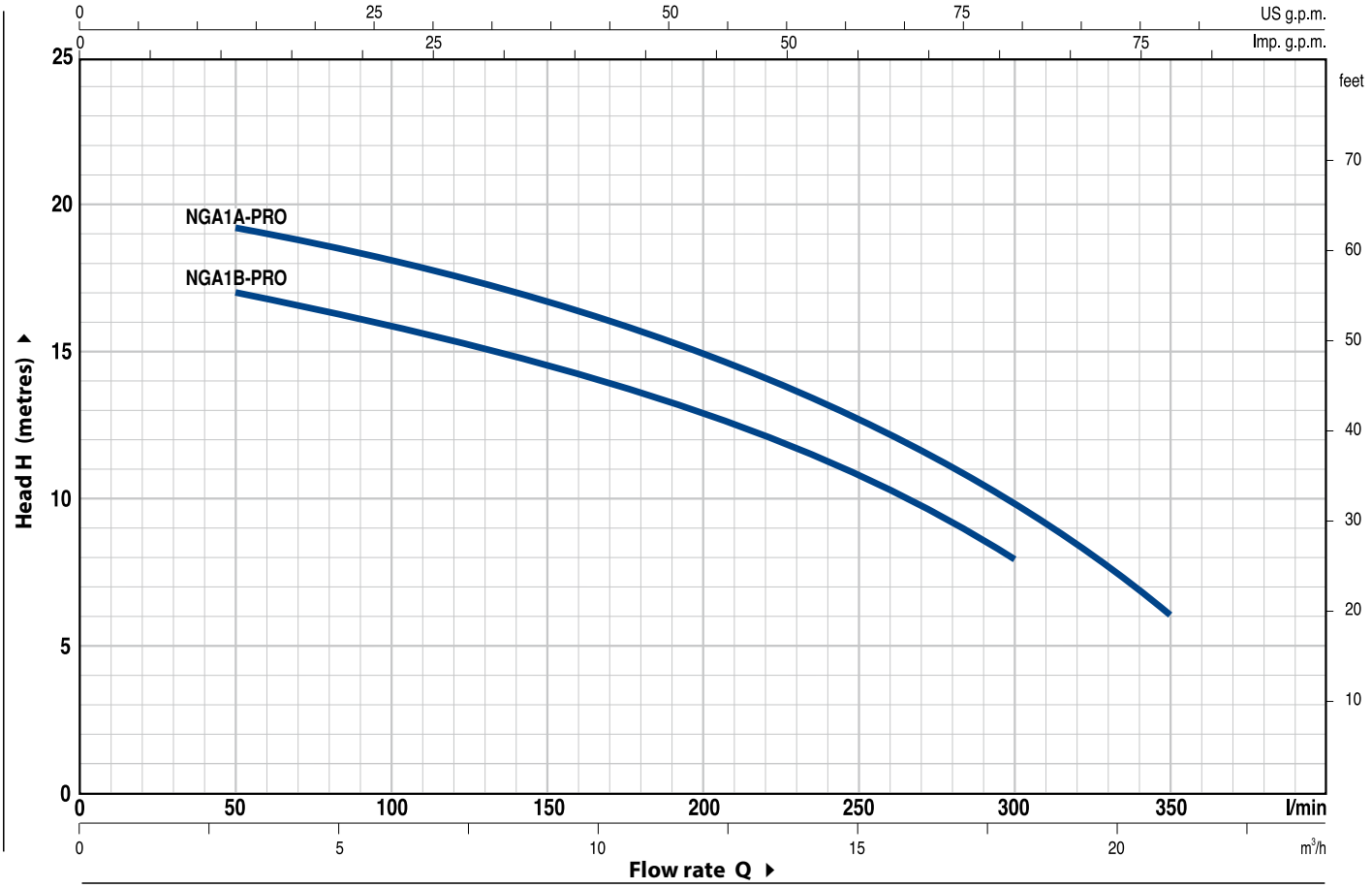
- Special mechanical seal
- Other voltages

GUARANTEE

2 years subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz **n= 3450 rpm** HS= 0 m



MODEL		POWER (P2)		Q								
Single-phase	Three-phase	kW	HP	m³/h	0	3	6	9	12	15	18	21
				l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**
NGAm 1B - PRO	**NGA 1B - PRO**	0.55	0.75	**H** metres	18	17	16	14.5	13	10.5	8	
NGAm 1A - PRO	**NGA 1A - PRO**	0.75	1		20	19.5	18	16.5	15	12.5	10	6

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

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

NGA-PRO

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

Seal	*Shaft*	*Materials*		
Model	***Diameter***	*Stationary ring*	*Rotational ring*	*Elastomer*
AR-14S	**Ø 14** mm	Ceramic	Graphite	Viton

6 BEARINGS — **6203 ZZ / 6203 ZZ**

7 CAPACITOR

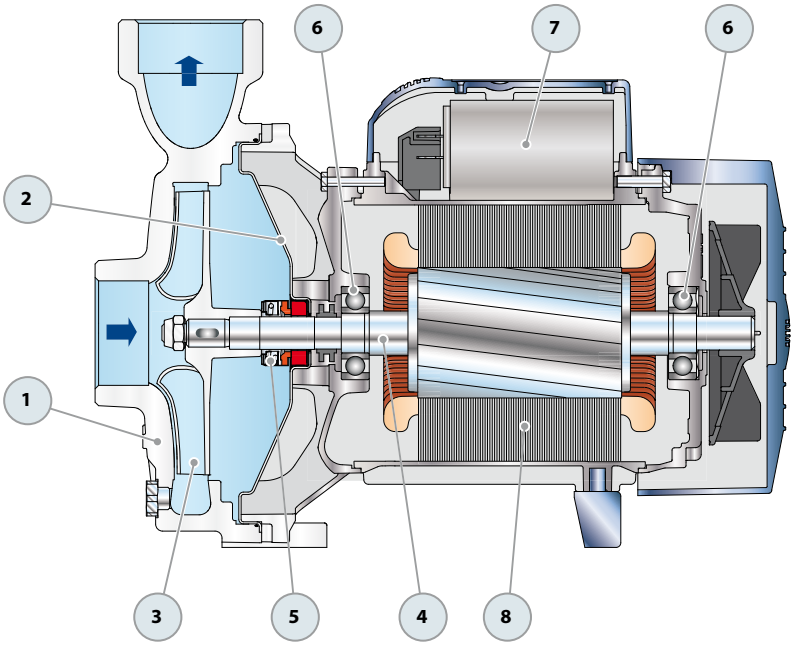
Pump	*Capacitance*	
Single-phase	***(220 V)***	***(110 V or 127 V)***
NGAm 1B - PRO	**16** µF - 450 VL	**60** µF - 300 VL
NGAm 1A - PRO	**20** µF - 450 VL	**60** µF - 300 VL

8 ELECTRIC MOTOR

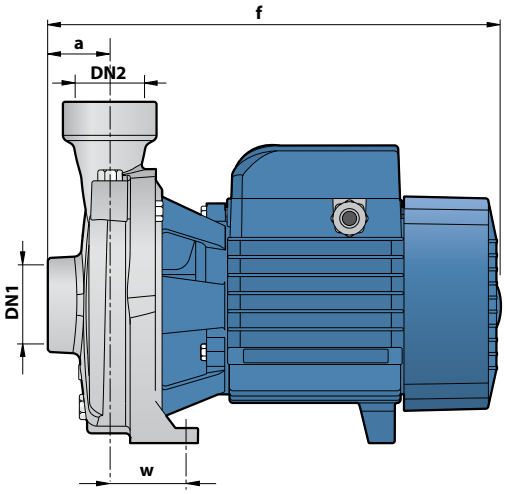
NGAm - PRO: single-phase 220 V - 60 Hz with thermal overload protector incorporated into the winding.
NGA - PRO: three-phase 220/380 V - 60 Hz or 220/440 V - 60 Hz.

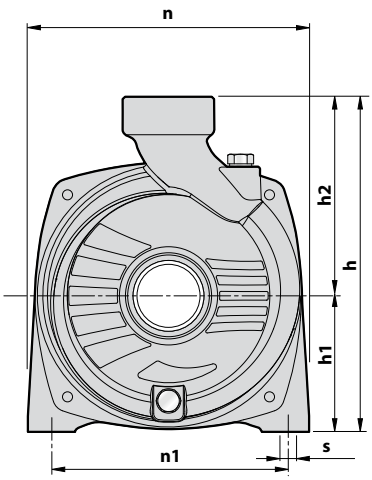
➠ **The three-phase pumps are fitted with high performance motors in class IE2 (IEC 60034-30)**

– Insulation: class F
– Protection: IP X4



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	**12.6**	**12.6**
NGAm 1A - PRO	**NGA 1A - PRO**												**12.7**	**12.6**

ABSORPTION

MODEL	VOLTAGE		
Single-phase	220 V	110 V	127 V
NGAm 1B - PRO	**5.6** A	**11.2** A	**9.5** A
NGAm 1A - PRO	**6.5** A	**13.0** A	**12.1** A

MODEL	VOLTAGE			
Three-phase	220 V	380 V	220 V	440 V
NGA 1B - PRO	**4.0** A	**2.3** A	**4.0** A	**2.3** A
NGA 1A - PRO	**4.8** A	**2.8** A	**4.8** A	**2.4** A