

K-HA

CENTRIFUGAL PRESSURE BOOSTING PUMPS





K-HA 20-9



K-HA 40-22

GENERAL DATA

APPLICATIONS

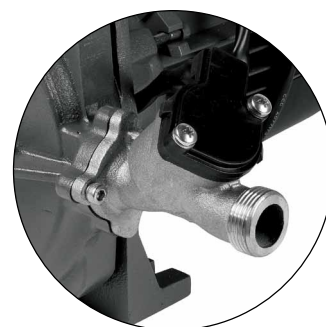
K-HA single impeller centrifugal pump is designed for water pressure boosting in households, flats (domestic properties) to provide additional pressure to hot and cold water taps and similar outlet points. K-HA centrifugal pump is mainly for use in open vented systems(tanks), but may also be installed directly on the incoming water mains supply to feed a boiler, provided approval has been obtained from the local Water Company. The pump incorporates a flow switch which starts and stops the pump according to flow when a tap is opened or closed. The pump is supplied with a 0,3 meter power cable.

CONSTRUCTIONAL FEATURES OF THE PUMP

- Cast iron pump body and motor support with cataphoresis coating.
- Brass flow switch body.
- Technopolymer impeller.
- Carbon / ceramic mechanical seal.

PLUS

- Flow switch in brass, directly assembled on the delivery port of the pump body and adjustable in 4 positions (45° from vertical)
- Automatic (by flow switch) or manual operating modes
- Easy way fixing bracket
- Rubber foot to increase pump stability
- Possibility to operate without flow switch (with optional adapter)
- Silent operating



CONSTRUCTIONAL FEATURES OF THE MOTOR

Induction motor, closed and cooled with external ventilation.

Rotor mounted on oversized greased sealed-for-life ball bearings to ensure silent running and long life.

Built-in thermal and current overload protection and a capacitor permanently in circuit.

Motor protection: IP 44.

Insulation class: F.

Standard voltage: single phase ~220V / 50 Hz.

Motor construction in conformity with standards CEI 2-3 - CEI 61-69 (EN 60335-2-41).

TECHICAL DATA

Operating range: up to 4,2 m³/h with head up to 22m.

Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.

Liquid temperature range: from 0°C to +100 °C

Ambient temperature: from -10°C to +55 °C

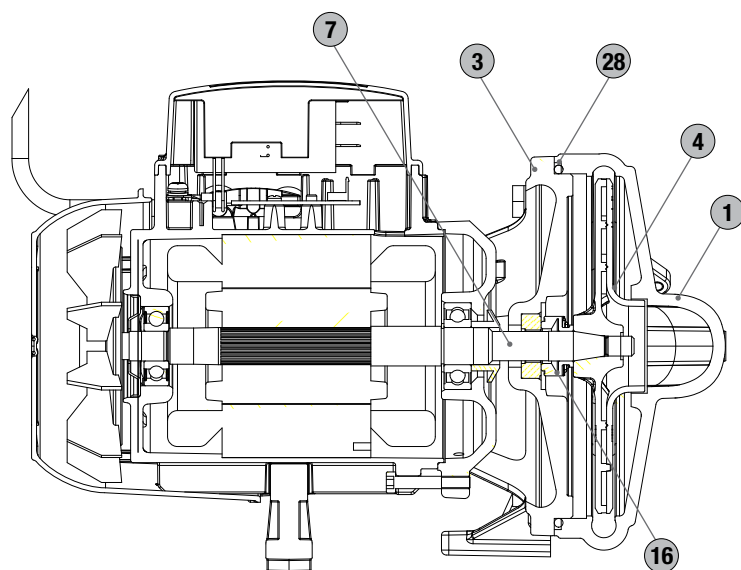
Environment humidity: ≤ 95%

Maximum operating pressure: 4 bar (35° C liquid temperature), 2 bar (65° C liquid temperature)

Minimum automatic (flow switch) operating pressure: 0,5 mwc

Minimum automatic (flow switch) operating flow: 2,5 l/min

TECHNICAL DATA



RIF.	PARTS *	MATERIALS
1	PUMP BODY	CAST IRON WITH CATAPHORESIS
3	SUPPORT	CAST IRON WITH CATAPHORESIS
4	IMPELLER	TECHNOPOLYMER B
7	SHAFT	STAINLESS STEEL AISI 416 X12CrS13 UNI 6900/71
16	MACHANICAL SEAL	CARBON/CERAMIC/HNBR
28	ORING	NBR RUBBER

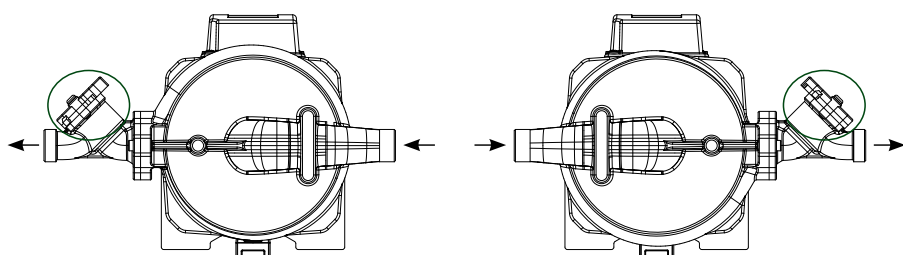
* In contact with liquid.

INSTALLATION

The series K pump is provided with a flow switch that controls the operation of the motor, located at the base of the water discharge, so as to avoid damage to the motor when running at minimum speed. Install the flow switch correctly, following the instructions, so as to ensure its normal operation.

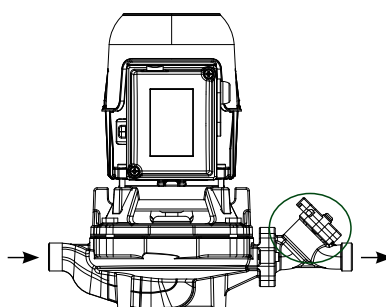
Fixed, horizontal motor shaft and suction/ discharge ports:

- flow switch body over the water flow axis



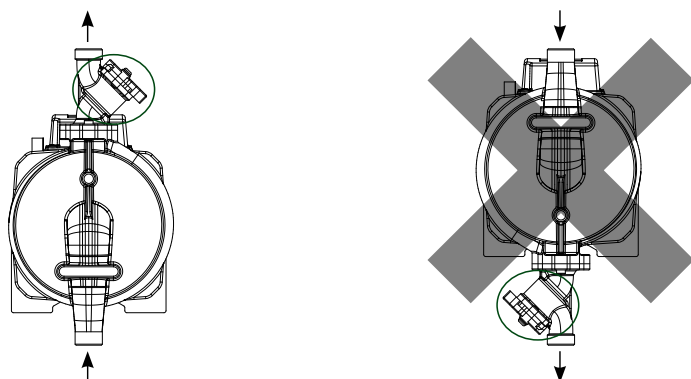
Fixed, vertical motor shaft and horizontal flow:

- flow switch body over the water flow axis
- the motor with vertical shaft above the water flow axis



Fixed, horizontal motor shaft and vertical flow:

- flow switch body above the motor shaft only
- suction under the motor shaft



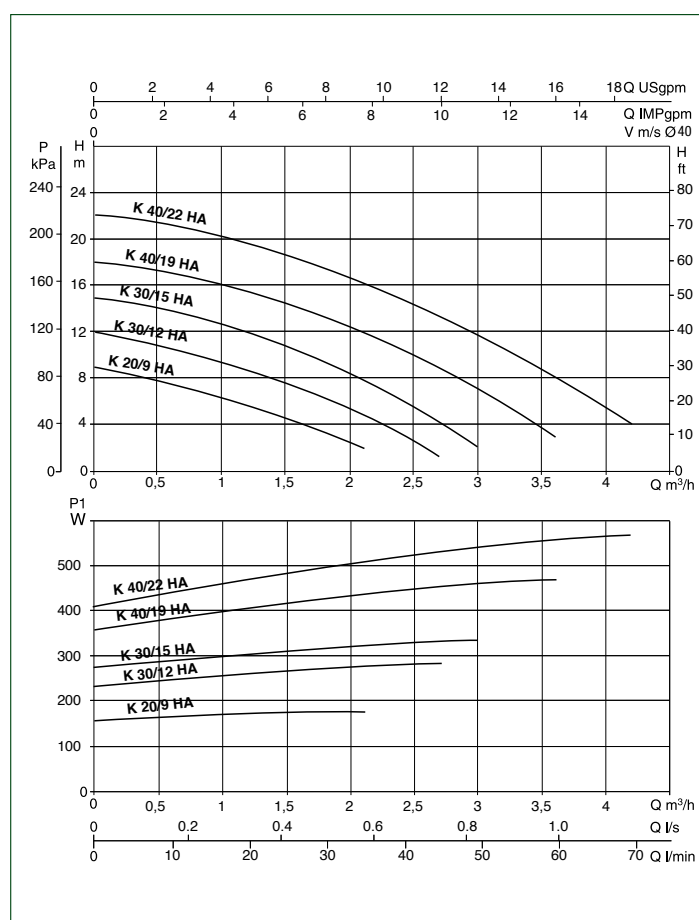
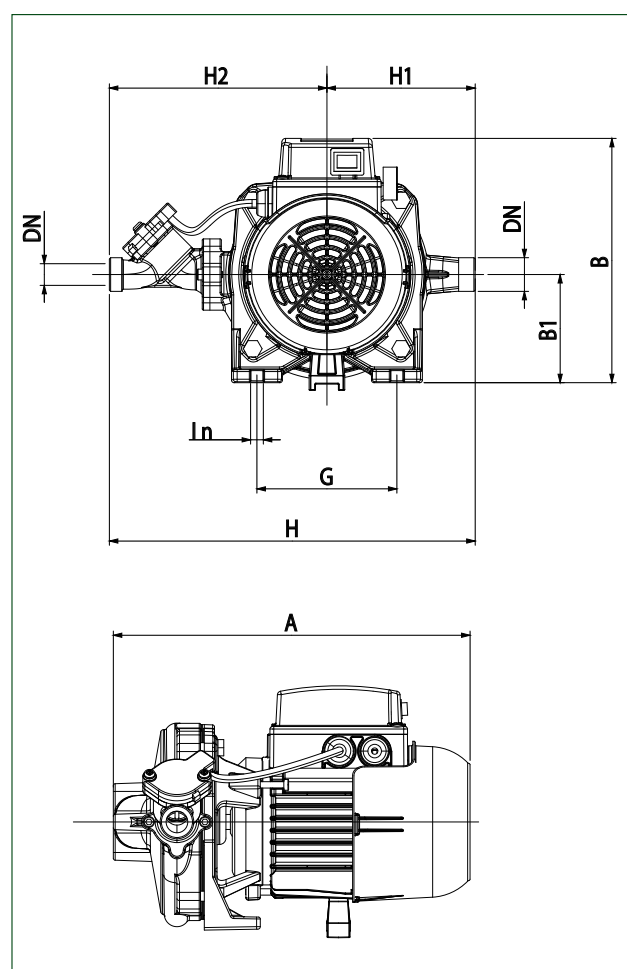
K SERIES-HA CENTRIFUGAL PRESSURE BOOSTING PUMPS

Liquid temperature range: from 0°C to +100 °C

Ambient temperature: from -10°C to +55 °C

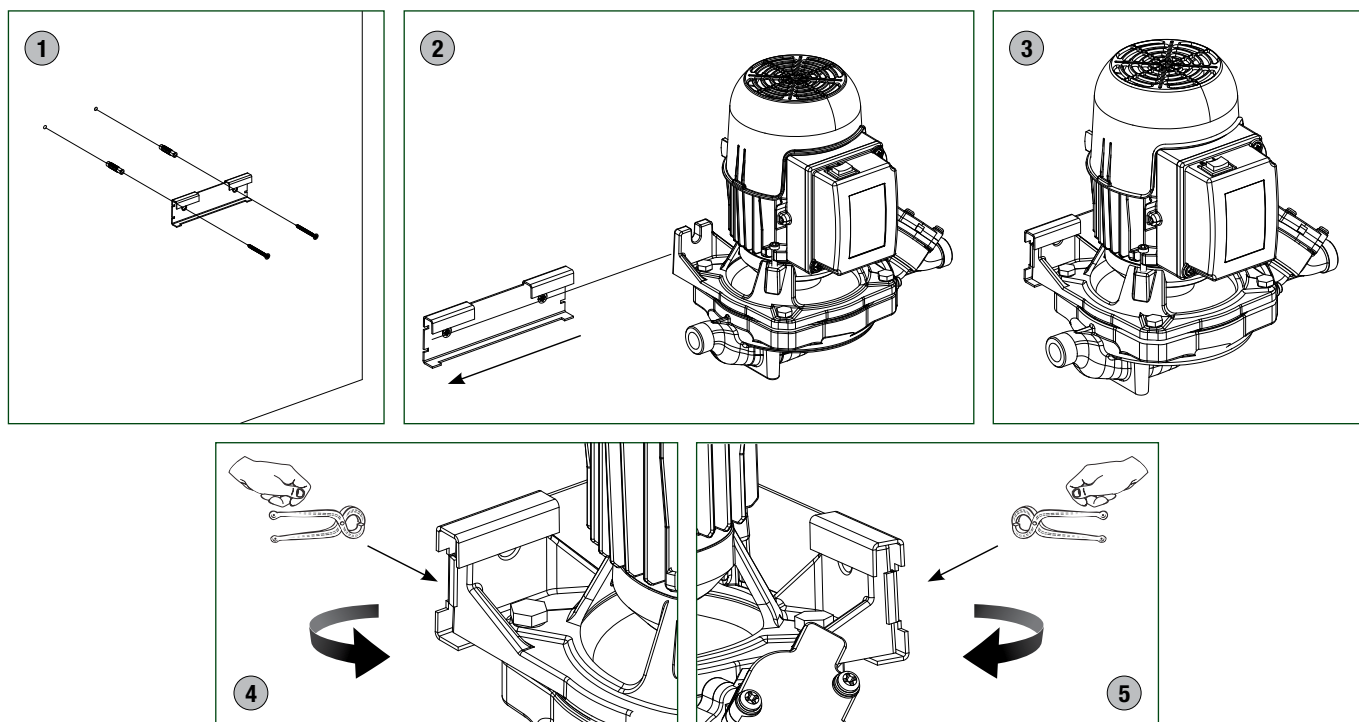
MODEL	VOLTAGE 50 Hz	P1 MAX KW	P2 NOMINAL		In A	Ist A	cos φ	CONDENSATEUR (ηF)	HOSE DIAMETER (mm)	MAXIMUM FLOW RATE (m³/h)	MAXIMUM HEAD (m)
			KW	HP							
K 20/9 HA	220V	0,18	0,09	0,12	0,82	2,89	0,926	8	ø 16 mm	2,10	9
K 30/12 HA	220V	0,28	0,12	0,16	1,28	4,09	0,969	8	ø 16 mm	2,40	12
K 30/15 HA	220V	0,34	0,18	0,25	1,5	4,09	0,98	8	ø 16 mm	3,00	15
K 40/19 HA	220V	0,47	0,25	0,34	2,25	7,6	0,905	8	ø 16 mm	3,60	18
K 40/22 HA	220V	0,57	0,37	0,5	2,54	7,6	0,932	8	ø 16 mm	4,20	22

MODEL	A	B	B1	DN	G	H	H1	H2	I Ø	WEIGHT (kg)
K 20/9 HA	253	172	65	G ¾"	70	231	83	148	8	5,4
K 30/12 HA	282	192	85	G ¾"	110	287,5	116,5	171	9,5	7,9
K 30/15 HA	282	192	85	G ¾"	110	287,5	116,5	171	9,5	7,9
K 40/19 HA	280,5	192	85	G ¾"	110	287,5	116,5	171	9,5	8,9
K 40/22 HA	280,5	192	85	G ¾"	110	287,5	116,5	171	9,5	8,9

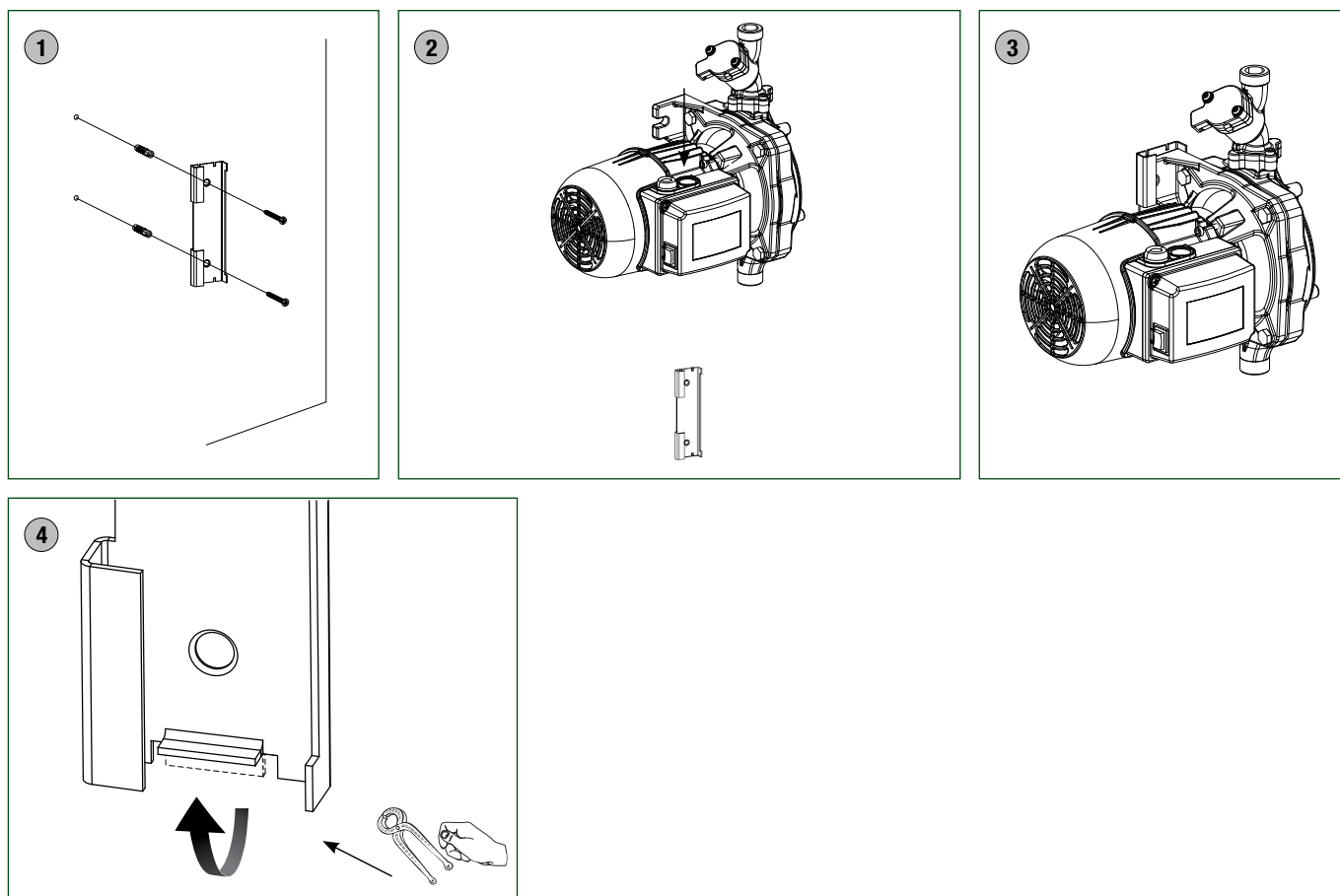


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 Kg/m³. Tolleranza delle curve secondo ISO 9906.

FIXPLATE INSTALLATION 1



FIXPLATE INSTALLATION 2



NOTES



W A T E R • T E C H N O L O G Y

Via Marco Polo, 14 - Mestrino (PD) Italy - Phone +39.049.5125000 - Fax +39.049.5125950

www.dabpumps.com



DAB PUMPS LTD.

Unit 4 and 5, Stortford Hall Industrial Park
Dunmow Road, Bishops Stortford, Herts
CM23 5GZ - UK
salesuk@dwtgroup.com
Tel. +44 1279 652 776
Fax +44 1279 657 727



DAB PUMPS B.V.

Brusselstraat 150
B-1702 Groot-Bijgaarden - Belgium
info.belgium@dwtgroup.com
Tel. +32 2 4668353
Fax +32 2 4669218



PUMPS AMERICA, INC. DAB PUMPS DIVISION

3226 Benchmark Drive
Ladson, SC 29456 USA
info.usa@dwtgroup.com
Tel. 1-843-824-6332
Toll Free 1-866-896-4DAB (4322)
Fax 1-843-797-3366



000 DWT GROUP

100 bldg. 3 Dmitrovskoe highway
127247 Moscow - Russia
info.russia@dwtgroup.com
Tel. +7 495 739 52 50
Fax +7 495 485-3618



DWT South Africa

Podium at Menlyn,
3rd Floor, Unit 3001b, 43 Ingersol Road,
C/O Lois and Atterbury street,
Menlyn, Pretoria, 0181, South-Africa
info.sa@dwtgroup.com
Tel +27 12 361 3997
Fax +27 12 361 3137



DAB PUMPS B.V.

Albert Einsteinweg, 4
5151 DL Drunen - Nederland
info.netherlands@dwtgroup.com
Tel. +31 416 387280
Fax +31 416 387299



DAB PUMPEN DEUTSCHLAND GmbH

Tackweg 11
D - 47918 Tönisvorst - Germany
info.germany@dwtgroup.com
Tel. +49 2151 82136-0
Fax +49 2151 82136-36



DAB PUMPS IBERICA S.L.

Parque Empresarial San Fernando
Edificio Italia Planta 1ª
28830 - San Fernando De Henares - Madrid
Spain
info.spain@dwtgroup.com
Tel. +34 91 6569545
Fax: +34 91 6569676



DAB PUMPS CHINA

No.40 Kaituo Road, Qingdao Economic & Technological
Development Zone
Qingdao City, Shandong Province, China
PC: 266500
info.china@dwtgroup.com
Fax +8653286812210
Tel. +8653286812030-6270