



K-HA

CENTRIFUGAL PRESSURE BOOSTING PUMPS

Quality
Innovation
Technology



Technical Sheet

Constructional features of the motor



- Induction motor, closed and air cooled ; rotor mounted on oversized greased-for-life ball bearings to ensure silent running and long life
- Built-in thermal overload protection and a capacitor permanently in circuit
- Motor protection: IP44
- Insulation class: F
- Standard voltage: ~220V / 50 Hz

Technical 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 cristallized, chemically neutral, close to the water characteristics
- Liquid temperature range: from 0 ° C up to 100 ° C
- Ambient temperature: from -10° C up to +55 ° C
- Maximum operating pressure: 4 bar (35° C liquid temperature)
2 bar (65° C liquid temperature)

- Enviroment humidity : ≤ 95%
- Minimum automatic (flow swicth) operating pressure: 0,5 mwc
- Minimum automatic (flow swicth) operating flow : 2,5 l/min



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

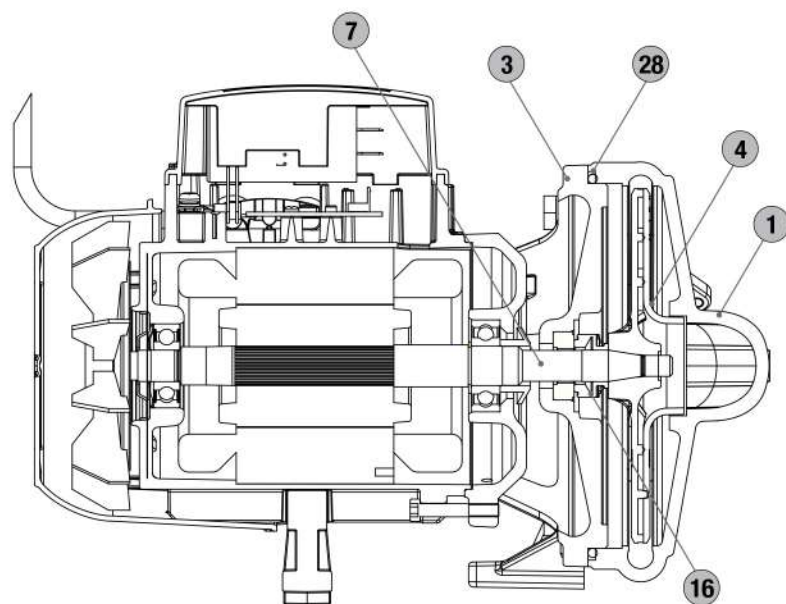
Enviroment humidity: ≤ 95%

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

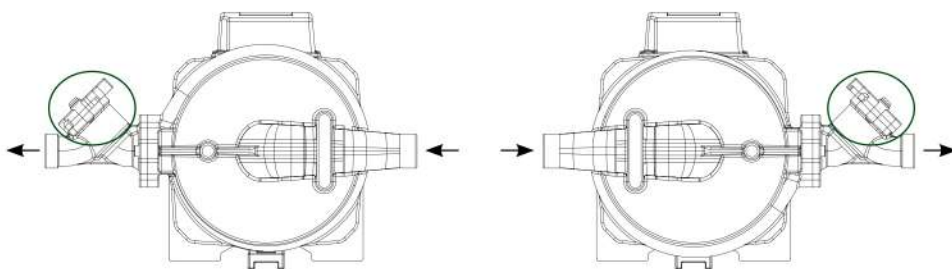
* In contact with liquid.

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.

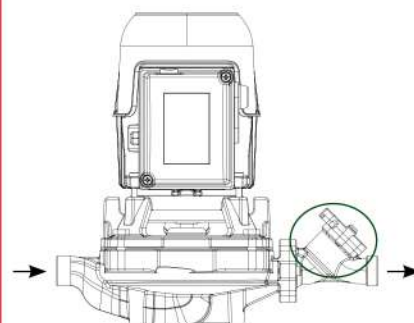
Fixed, horizontal motor shaft and suction/ discharge ports:

- flow switch body over the water flow axis



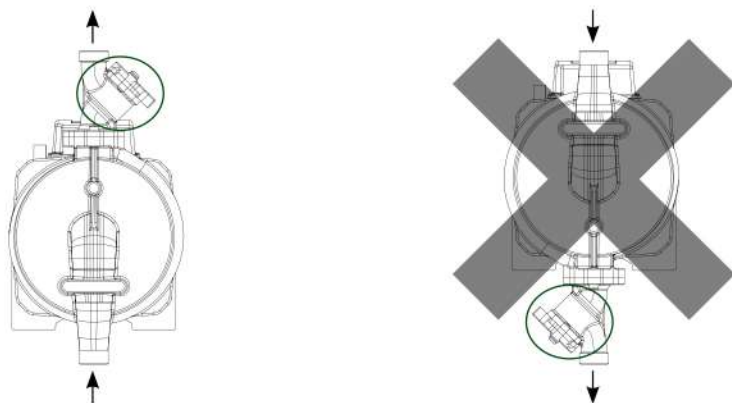
Fixed, vertical motor shaft and horizontal flow:

- 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

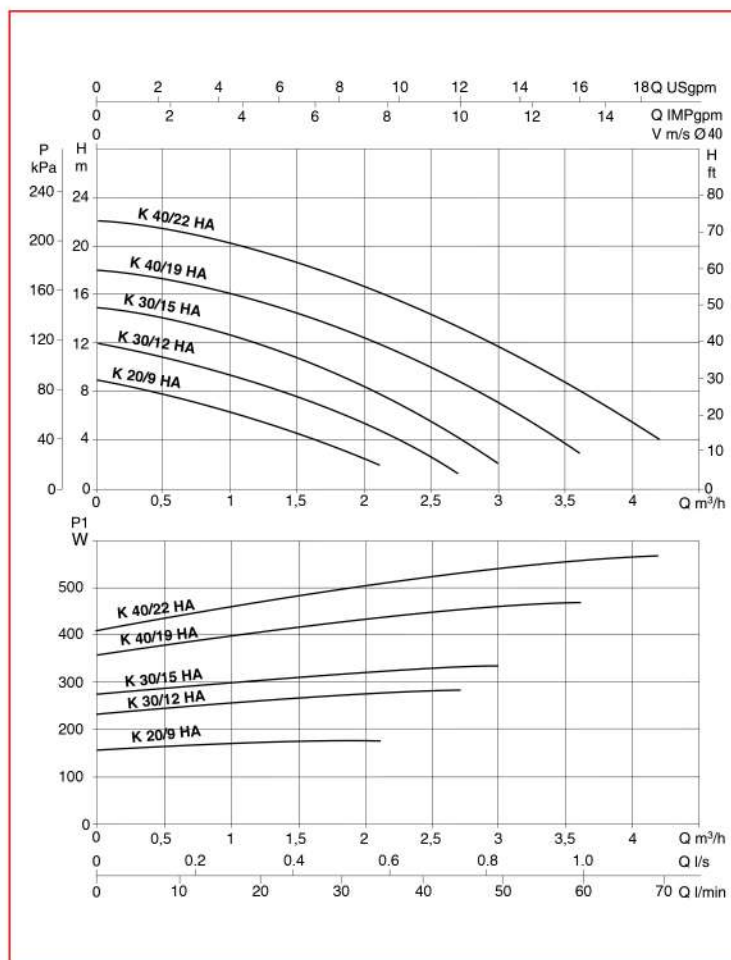
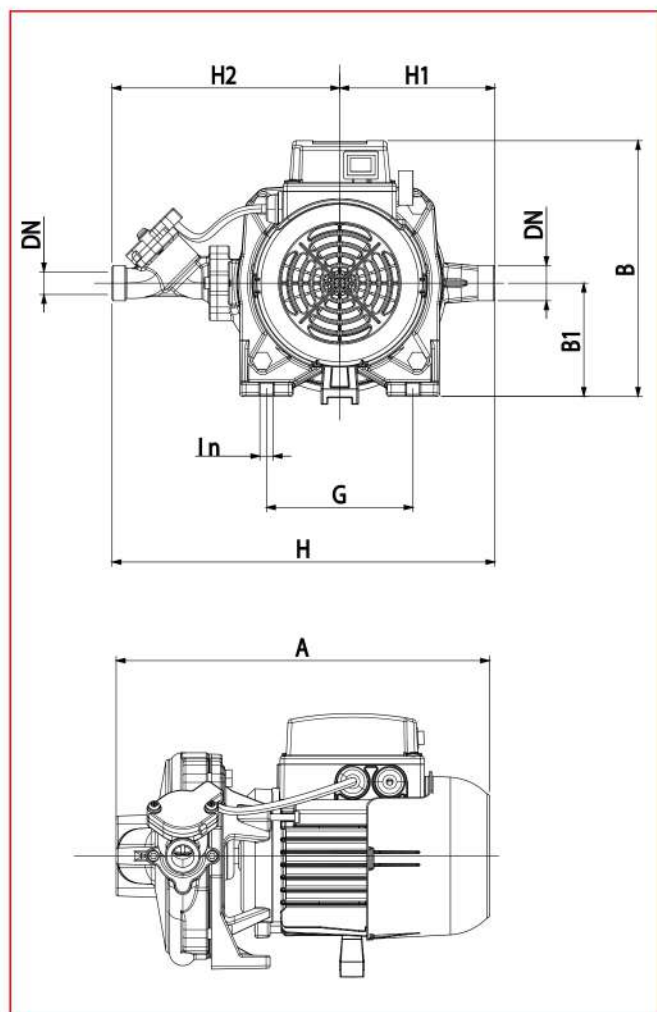
CENTRIFUGAL PRESSURE BOOSTING PUMPS

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

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

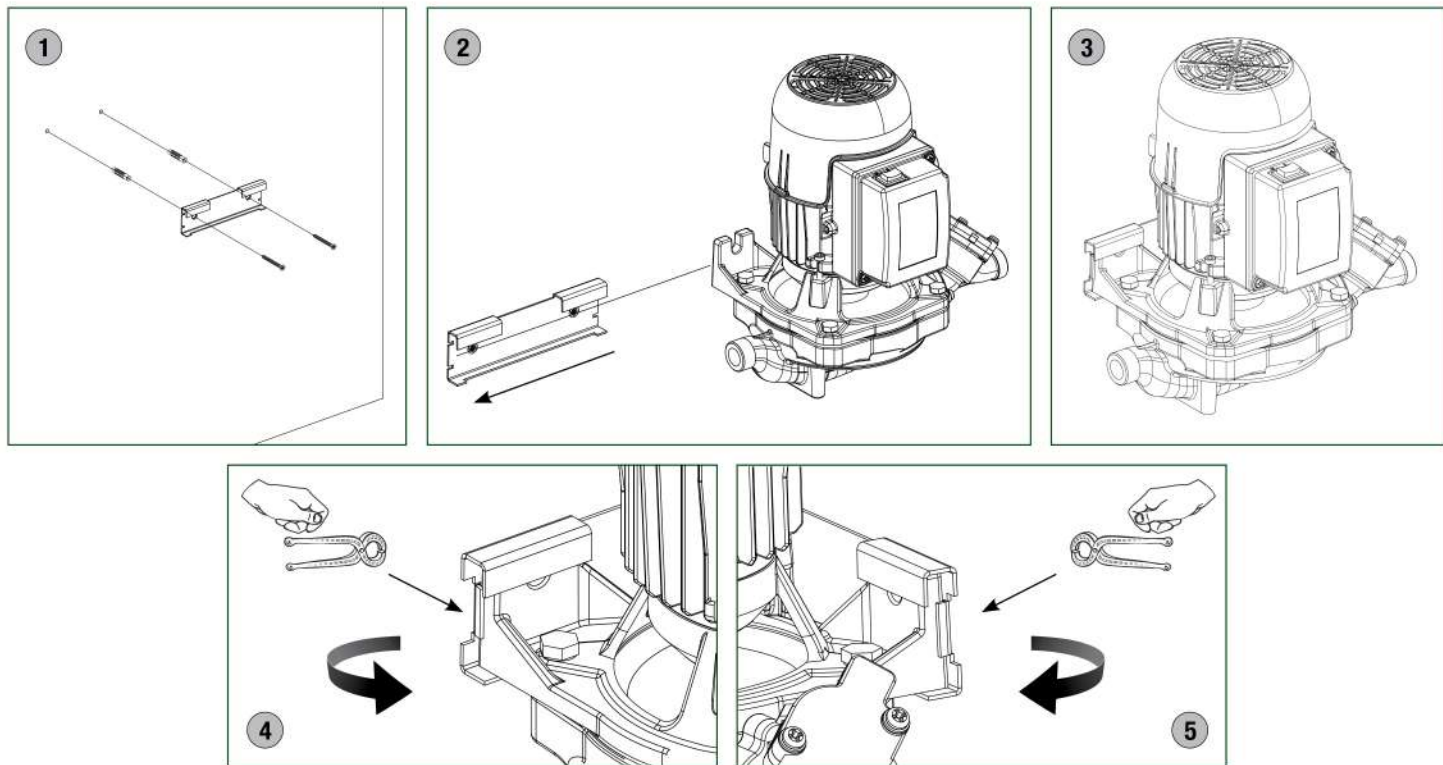
MODEL	VOLTAGE 50 Hz	P1 MAX KW	P2 NOMINAL		In A	Ist A	cos φ	CONDENSATEUR (ηF)	HOSE DIAMETER (mm)	MAXIMUM FLOW RATE (m³/h)	MAXIMUM HEAD (m)
			KW	HP							
K 20/9 HA	220V	0,18	0,09	0,12	0,82	2,89	0,926	8	ø16 mm	2,10	9
K 30/12 HA	220V	0,28	0,12	0,16	1,28	4,09	0,969	8	ø16 mm	2,40	12
K 30/15 HA	220V	0,34	0,18	0,25	1,5	4,09	0,98	8	ø16 mm	3,00	15
K 40/19 HA	220V	0,47	0,25	0,34	2,25	7,6	0,905	8	ø16 mm	3,60	18
K 40/22 HA	220V	0,57	0,37	0,5	2,54	7,6	0,932	8	ø16 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

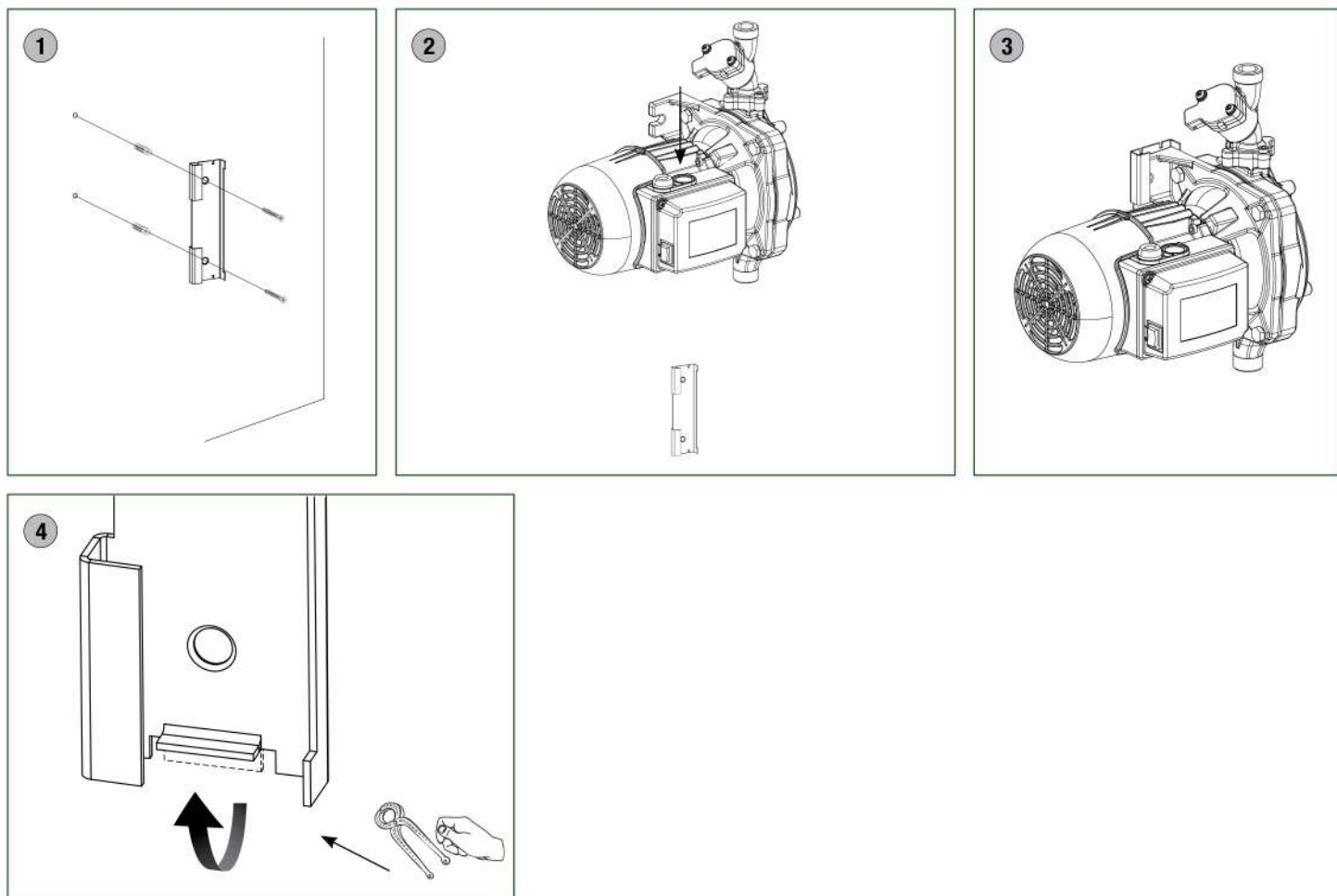


Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 Kg/m³. Tolleranza delle curve secondo ISO 9906.

FIXPLATE INSTALLATION 1

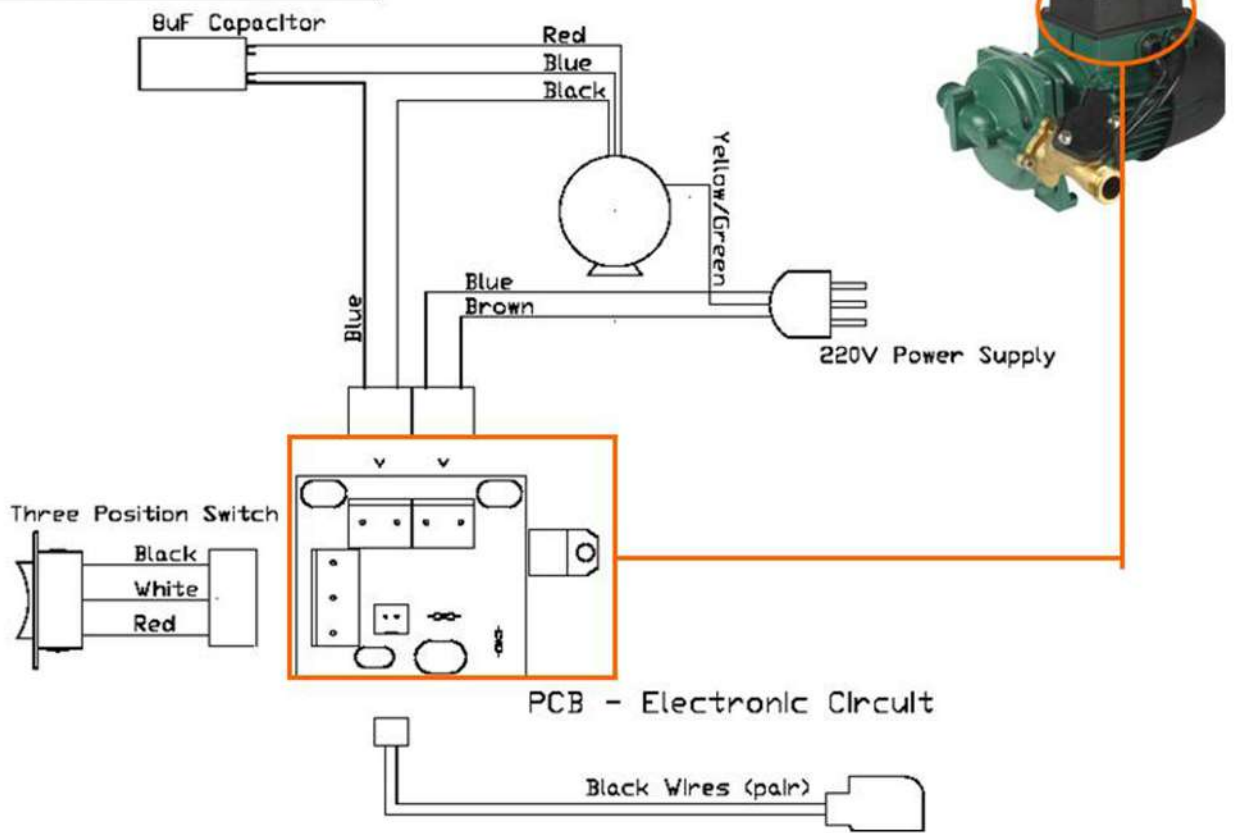


FIXPLATE INSTALLATION 2



SPC

Electric Scheme





SPC

The image features the letters 'SPC' in a white, serif font, centered on a solid red background. Two white, curved swooshes are positioned around the text: one on the left, curving upwards and to the right, and another on the right, curving downwards and to the left. The swooshes appear to be part of a larger, stylized graphic element.