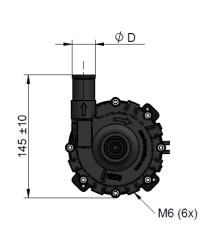
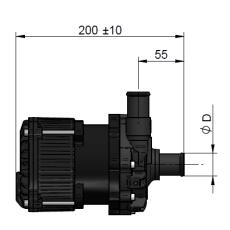
# Fluid Controls Water Pump Unit 24V DC



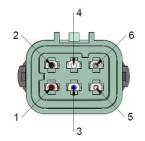
#### **Product Description**

The asa water pump is working to the centrifugal principle and uses a spiral housing with 1"or ¾" hose connections, magnet coupling 24V DC brushless motor. The motor and the coupling are installed in an aluminium die cast housing. This motor/pump unit is mainly designed to create compact and cost efficient cooling circuits for electric devices such as battery packs, electric motors and power electronics like converters.





#### Pump Connector: Ducon 2.8 male, 6 Way Sealed Male Connector



PIN	function
1	24V
2	GND
3	diagnostic (output)
4	reserved, not used
5	-
6	PWM (input)

#### **Technical Data**

order number	description	fuse	protection	flow rate	motor type	ØD	weight
		[A]		[l/min]			[kg]
ABPW090S20HP02K	Water pump 90 l/min ¾" 24V HNBR	20	IP68	see charts	brushless	3/4"	3,2
ABPW090S25HP02K	Water pump 90 l/min 1" 24V HNBR	20	IP68	page 3		1"	3,2

#### **Specification**

operating supply voltage	20-32V
power rating	390W
housing an cover material	aluminium
sealing material (fluid side)	HNBR
working temperature range	-20°C to +120°C (pump flow derated between +85°C and +120°C)

#### **Features**

ector				
medium to be pumped	water & water-glycol			
diagnostic output	PWM signal			
adjustable flow rate	PWM signal			

# Connector

connector type Ducon 2.8 (optional mating connector order number: ESDU6P2.8K)

#### Type Approval

KBA (E<sub>1</sub>) 10R-05 9582

Safety process / Diagnostic output

Definition:
Pump is running dry
Over current
Over temperature
Under- and Over voltage
No error

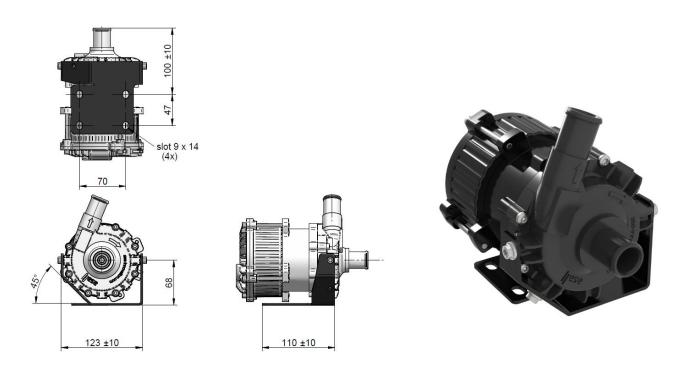


This data sheet and the corresponding scale drawings are to be used as a general guideline and technical overview of our products. Please contact us if more exact information is needed. As we are constantly improving our products, their characteristics, dimensions and weights may also change, although we do our best to incorporate these changes continually, as a assumes no liability for any information therein, any errors, omissions, misprints, nor any direct or indirect damages, losses or costs resulting therefrom. Any cooling performances and general technical values indicated in this catalogue are measured at a test bench according to as a testing procedures or calculated, based on such tests. They represent a basis for your product selection. Due to different conditions in testing and application environments the performance may also vary by 4-15M, all sound values are determined in accordance with ISO 9814-2, DIN EN ISO 11203 accuracy class 3 or Machinery Directive 2006/42/EG and are A-rated. At some of the performance data, possible differences to competition data are possible. The reason to that are no existing standardized testing procedures on individual subjects, e.g. for cooling performance measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and mechanical stress as well as for pressure peaks and thermal stress and any other relevant factors. General tolerances according to DIN ISO 2768-VL, General tolerances for casted parts according EN ISO 8062-3 (DCTG 10). Tolerances for rubber parts are according to ISO 3300-21 (class M4-F4C). The tolerances of welding seams are defined by quality group D according to EN ISO 10042, if it is not specified on the actual scale drawing or data sheet. Any form of liability is excluded for the information included in this datasheet. All details and calculation values are checked to the best of our ability, but these do not ensure any intrinsic product properties: due to the wide-rangin

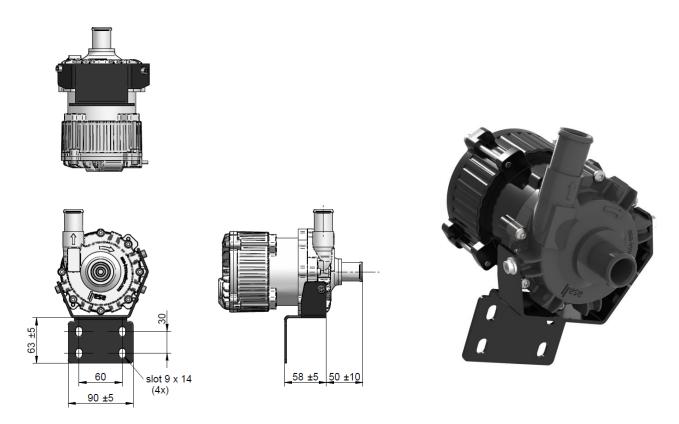
# Fluid Controls Water Pump Unit 24V DC



## 1.) Mounting option BOO



### 2.) Mounting option B01

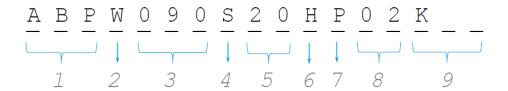


This data sheet and the corresponding scale drawings are to be used as a general guideline and technical overview of our products. Please contact us if more exact information is needed. As we are constantly improving our products, their characteristics, dimensions and weights may also change, although we do our best to incorporate these changes continually, as a assumes no liability for any information therein, any errors, omissions, misprints, nor any direct or indirect damages, losses or costs resulting therefrom. Any cooling performances and general technical values indicated in this catalogue are measured at a test bench according to asa testing procedures or calculated, based on such tests. They represent a basis for your product selection. Due to different conditions in testing and application environments the performance may also vary by ++ 15%. All sound values are determined in accordance with ISO 9614-2, DIN EN ISO 11203 accuracy class 3 or Machinery Directive 2006/42/EG and are A-rated. At some of the performance data, possible differences to competition data are possible. The reason to that are no existing standardized telesting procedures on individual subjects, e.g. of rocolling performance measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and mechanical stress as well as for pressure peaks and thermal stress and any other relevant factors. General tolerances according to IN ISO 8062-3 (DCTG 10). Tolerances for rubber parts are according to 1SO 3302-1 (class M4-F4C). The tolerances of welding seams are defined by quality group D according to EN ISO 1004. If it is not specified on the actual scale drawing or data sheet. Any form of liability is excluded for the information included in this datasheet. All details and calculation values are checked to the best of our ability, but these do not ensure any intrinsic product properties: due to the evide-ranging possible applications, it is advised that all technical dat

# Fluid Controls Water Pump Unit 24V DC

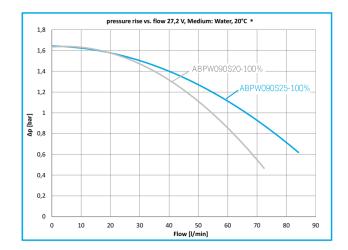


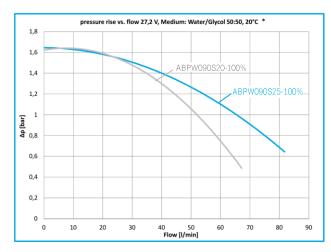




# 1 Product Category ABP Pumps 2 Product Series W Water pump 3 Displacement volume 090 90 l/min 4 Connection S standard motor/pump 5 Dimensions 20 3/4 " 25 1"

laterial (medium side)
HNBR
EPDM (on request)
FPM(Viton) (on request)
PWM
24 V
ustomized
standard sales kit
mounting option picture 1
mounting option picture 2
special / customized specifications; to be advised by asa





<sup>\*)</sup> Tested and verified according as a standards on as a bench.

This data sheet and the corresponding scale drawings are to be used as a general guideline and technical overview of our products. Please contact us if more exact information is needed. As we are constantly improving our products, their characteristics, dimensions and weights may also change, although we do our best to incorporate these changes continually, as a assumes no liability for any information therein, any errors, omissions, misprints, nor any direct or indirect damages, losses or costs resulting therefrom. Any cooling performances and general technical values indicated in this catalogue are measured at a test bench according to asa testing procedures or calculated, based on such tests. They represent a basis for your product selection. Due to different conditions in testing and application environments the performance may also vary by ++ 15%. All sound values are determined in accordance with ISO 9614-2, DIN EN ISO 11203 accuracy class 3 or Machinery Directive 2006/42/EG and are A-rated. At some of the performance data, possible differences to competition data are possible. The reason to that are no existing standardized telesting procedures on individual subjects, e.g. of rocolling performance measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and mechanical stress as well as for pressure peaks and thermal stress and any other relevant factors. General tolerances according to IN ISO 8062-3 (DCTG 10). Tolerances for rubber parts are according to 1SO 3302-1 (class M4-F4C). The tolerances of welding seams are defined by quality group D according to EN ISO 1004. If it is not specified on the actual scale drawing or data sheet. Any form of liability is excluded for the information included in this datasheet. All details and calculation values are checked to the best of our ability, but these do not ensure any intrinsic product properties: due to the wide-ranging possible applications, it is advised that all technical data