

-  Clean water
-  Agricultural use
-  Civil use
-  Industrial use



### FIELD PERFORMANCE

- Flow rate up to **700 l/min** (42 m<sup>3</sup>/h)
- Head up to **26 m**

### INSTALLATION AND USE

WR centrifugal pumps are designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components.

Suitable for civil and industrial applications such as **heating, air conditioning, cooling, and circulation** systems.

### INCLUDES

- ✘ Pump's impeller directly mounted on the motor shaft.
- ✘ Pump body with suction and discharge ports of identical diameter.

### APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+110 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum pressure in the pump body **10 bar** (PN10)

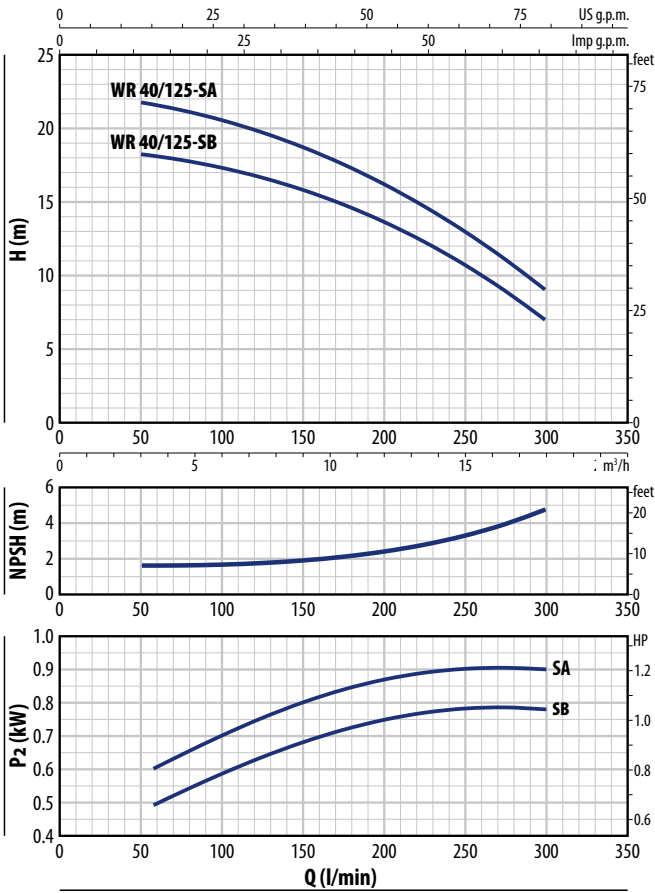
### AVAILABLE UPON REQUEST

- ✘ Counterflange KIT including screws, nuts and gaskets
- ✘ Mechanical seal options available
- ✘ Different voltage or frequency

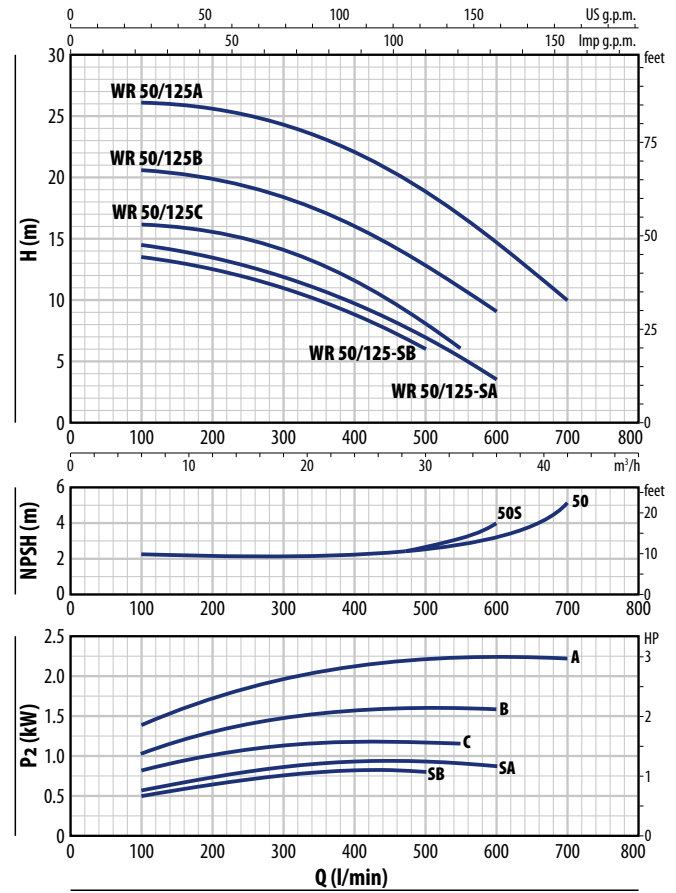
**CURVES AND PERFORMANCE DATA – HS=0 m – n = 3450 min<sup>-1</sup>**

**60 Hz**

### WR 40/125



### WR 50/125



### WR 40/125

TYPE		POWER (P <sub>2</sub> )		3~	Q	m <sup>3</sup> /h													
Single-phase	Three-phase	kW	HP			0	3	6	9	12	15	18							
WRm 40/125-SB	WR 40/125-SB	0.55	0.75	IE3	H m	0	50	100	150	200	250	300	18.7	18.2	17.3	15.8	13.7	10.7	7
WRm 40/125-SA	WR 40/125-SA	0.75	1			22.4	21.8	20.6	18.7	16.2	13	9							

### WR 50/125

TYPE		POWER (P <sub>2</sub> )		3~	Q	m <sup>3</sup> /h																				
Single-phase	Three-phase	kW	HP			0	6	12	18	24	30	33	36	39	42	0	100	200	300	400	500	550	600	650	700	
WRm 50/125-SB	WR 50/125-SB	0.55	0.75	IE3	H m	14	13.5	12.5	11	8.8	6															
WRm 50/125-SA	WR 50/125-SA	0.75	1			15	14.5	13.5	11.8	9.7	7	5.5	3.5													
WRm 50/125C	WR 50/125C	1.1	1.5			16	16	15.5	14	11.5	8	6														
WRm 50/125B	WR 50/125B	1.5	2			20.5	20.5	19.8	18.5	16	12.8	11	9													
WRm 50/125A	WR 50/125A	2.2	3			26	26	25.5	24	22	18.5	17	14.5	12.5	10											

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

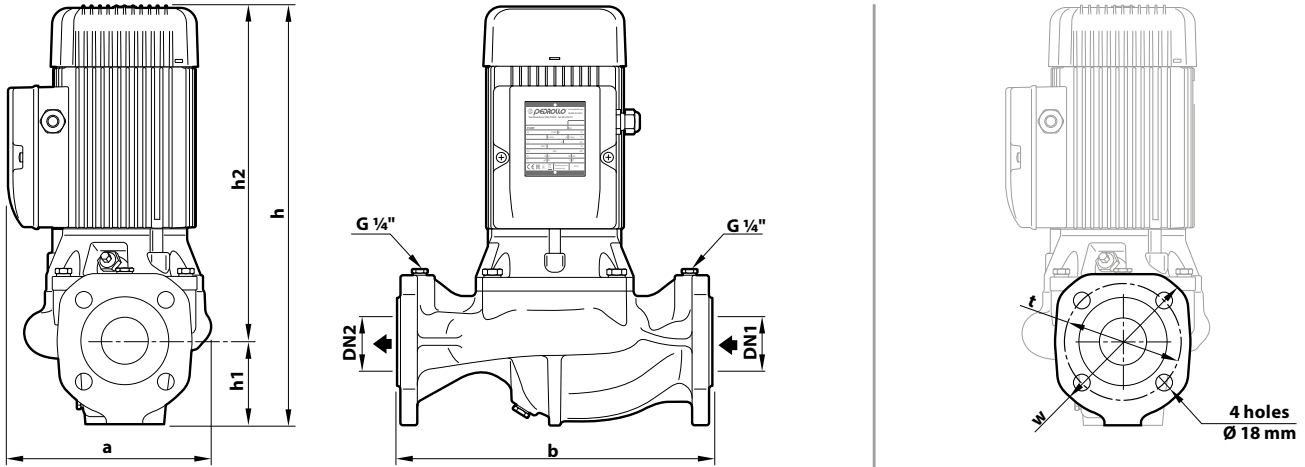
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

## ABSORPTION

TYPE	VOLTAGE
<b>Single-phase</b>	<b>220 V</b>
WR 40/125-SB	5.9 A
WR 40/125-SA	6.8 A
WR 50/125-SB	5.0 A
WR 50/125-SA	6.5 A
WR 50/125C	8.9 A
WR 50/125B	10.4 A
WR 50/125A	14.5 A

TYPE	VOLTAGE	
	220 V - $\Delta$	380 V - $\text{Y}$
<b>Three-phase</b>		
WR 40/125-SB	4.3 A	2.5 A
WR 40/125-SA	4.9 A	2.9 A
WR 50/125-SB	4.6 A	2.7 A
WR 50/125-SA	5.1 A	3.0 A
WR 50/125C	6.2 A	3.6 A
WR 50/125B	7.3 A	4.2 A
WR 50/125A	10.2 A	5.9 A

## DIMENSIONS



TYPE		PORTS		DIMENSIONS mm							kg
Single-phase	Three-phase	DN1	DN2	a	b	h	h1	h2	w	t	
WRm 40/125-SB	WR 40/125-SB	DN 40	DN 40	195	320	350	81	269	150	110	21.1
WRm 40/125-SA	WR 40/125-SA										
WRm 50/125-SB	WR 50/125-SB	DN 50	DN 50	220	340	362	90	342	165	125	23.4
WRm 50/125-SA	WR 50/125-SA										29.0
WRm 50/125C	WR 50/125C										30.0
WRm 50/125B	WR 50/125B					452		362			32.0
WRm 50/125A	WR 50/125A										

## MATERIALS AND COMPONENTS

**1 Pump body** Cast iron with cataphoresis treatment, provided with flanged ports

**2 Cover** Cast iron with cataphoresis treatment

**3 Impeller** Stainless steel **AISI 304**

**4 Shaft** Stainless steel **AISI 431**

**5 Mechanical seal**

Water pump	Seal	Shaft	Materials
WR 40/125-S	<b>FNC-14</b>	Ø 14 mm	Graphite / Ceramic / EPDM
WR 50/125-S			
WR 50/125	<b>FN-20</b>	Ø 20 mm	Graphite / Ceramic / EPDM

**6 Electric motor**

**WRm:** single-phase 220 V - 60 Hz with capacitor and winding integrated thermal motor protection

**WR:** three-phase 220/380 V - 60 Hz

– The three-phase pump is fitted with a high performance motor in class IE3 (IEC 60034-30-1)

– Continuous running duty S1

