

# FAVS

Scientific Equipment

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# VELP SCIENTIFICA

# ARE/AREX 5 Series

## Heating Magnetic Stirrers

Best-selling hotplate stirrers ensuring powerful heating and stirring from basic applications to precise thermoregulations



# AREX 5 Digital

The AREX 5 Digital is designed for accurate thermoregulation offering outstanding stirring and heating performance, enhanced safety features and ease-of-use. The connection with the external temperature probe Pt100 and Pt1000 and with the digital thermoregulator VTF ensures top class versatility meeting all temperature accuracy requirements.

## SAFE AND RESISTANT

- The internal electronic parts are protected by the insulating disk to resist even to the most challenging environments and applications.
- Hot Surface safety message displayed when the temperature is above 50 °C.
- The 135 mm diameter top is protected from chemicals and scratches by the superior resistant CerAlTop™ ceramic coating.

## EXCELLENT THERMOREGULATION

- Ideal for temperature sensitive applications in many industrial and academic laboratories.
- Precise thermoregulation of the medium with Pt100/Pt1000 probe ( $\pm 1.0$  °C) and VTF Digital Thermoregulator ( $\pm 0.5$  °C).
- Thermoregulation range from room temperature up to 310 °C.

## POWERFUL STIRRING

- Brushless motor ensuring power and resistance over time.
- Stirs up to 20 l from 50 to 1500 rpm.
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes.



AREX 5 Digital



AREX 5 Digital System  
with Probe



AREX 5 Digital System  
with Probe, Rod and Clamp



AREX 5 Digital System  
with VTF and Rod

## CONFIGURATIONS

# AREX 5

The AREX 5 is a robust and versatile hotplate stirrer suitable for applications ranging from basic to temperature-sensitive where precise sample thermoregulation is required.

## DURABLE, SAFE AND POWERFUL

- Upgradable to digital with VTF ensuring temperature accuracy of  $\pm 0.5^{\circ}\text{C}$ .
- Insulating disk to protect internal parts.
- The 135 mm diameter top is protected from chemicals and scratches by the superior resistant CerAlTop™ ceramic coating.
- Two illuminated indicators always inform the operator when heating is on and temperature above  $50^{\circ}\text{C}$ .
- Stirs up to 20 l from 100 to 1500 rpm with SpeedServo™ counter reaction.
- Brushless motor ensuring power and resistance over time.



AREX 5

AREX 5 System  
with VTF and Rod

## CONFIGURATIONS



# ARE 5

The ARE 5 is the entry-level hotplate stirrer that has become a reference for many laboratories around the world ranging from university, research centers to industrial.

## RELIABLE AND ROBUST

- Insulating disk to protect internal parts.
- The 135 mm diameter aluminum alloy top plate ensures a great temperature homogeneity and optimum heat transfer across the entire surface.
- Two illuminated indicators always inform the operator when heating is on and temperature above  $50^{\circ}\text{C}$ .
- Stirs up to 15 l from 100 to 1500 rpm with SpeedServo™ counter reaction.
- Brushless motor ensuring power and resistance over time.



ARE 5












## CONFIGURATIONS



## OPTIONAL ACCESSORIES





Support rod	A00001069
Extension for support rod	A00000382
Clamp for the probe	A00000280
Handle for AluBlock removal	A00000351

## STIRRING BARS & ACCESSORIES

				
<b>A00000336</b> Magnetic cross shape stir bar Ø10x5mm	<b>A00000352</b> Magnetic cross shape stir bar Ø20x8mm	<b>A00000354</b> Magnetic disc stir bar Ø10x6mm	<b>A00000355</b> Magnetic disc stir bar Ø20x10mm	<b>A00000357</b> Magnetic octagonal stir bar Ø10x13mm
				
<b>A00001062</b> Magnetic stir bar Ø3x6mm	<b>A00001063</b> Magnetic stir bar Ø4,5x12mm	<b>A00001057</b> Magnetic stir bar Ø6x20mm	<b>A00001056</b> Magnetic stir bar Ø6x35mm	<b>A00000356</b> Magnetic stir bar Ø8x40mm
				
<b>A00001061</b> Magnetic stir bar Ø10x60mm				

## EXTERNAL TEMPERATURE SENSORS

Temperature probes and thermoregulators ensure precise temperature control for accurate and reproducible results.

			
<b>A00000358</b> Pt1000 Temperature Probe AISI 316 Ti Ø3 mm	<b>A00000268</b> Pt100 Temperature Probe AISI 316 Ti Ø3mm	<b>A00000349</b> Pt100 Temperature Probe glass-coated Ø5mm	<b>F208B0063</b> VTF Digital Thermoregulator



## CONFIGURATIONS CODES

		AREX 5 Digital	AREX 5	ARE 5
STIRRER ONLY	230 V / 50-60 Hz 115 V / 60 Hz	F20500580 F20510580	F20500570 F20510570	F20500560 F20510560
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz 115 V / 60 Hz	SA20500580 SA20510580	- -	- -
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz 115 V / 60 Hz	SC20500580 SC20510580	- -	- -
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz 115 V / 60 Hz	SB20500580 SB20510580	SA20500570 SA20510570	- -

# Improve your productivity

## ALUBLOCK™

The MonoAluBlock™ and MultiAluBlock™ are used to perform numerous reactions reducing time and bench space.

- **MonoAluBlock™** is the ideal solution for multiple vials of the same dimensions.
- **MultiAluBlock™** are combinable segments for different sizes of vials. Mix and match according to need.



A00000323 MultiAluBlock™ Base	A00000324 MultiAluBlock™ 4 pos. Ø28xh.43 mm	A00000325 MultiAluBlock™ 4 pos. Ø28xh.30 mm	A00000326 MultiAluBlock™ 4 pos. Ø28xh.24 mm	A00000327 MultiAluBlock™ 4 pos. Ø21xh.31 mm	A00000328 MultiAluBlock™ 8 pos. Ø17xh.26 mm	A00000329 MultiAluBlock™ 11 pos. Ø15xh.20 mm	A00000337 MultiAluBlock™ 11 pos. Ø12xh.14 mm	A00000340 MonoAluBlock™ 17 pos. Ø28xh.43 mm	A00000339 MonoAluBlock™ 17 pos. Ø28xh.30 mm	A00000338 MonoAluBlock™ 17 pos. Ø28xh.24 mm	A00000341 MonoAluBlock™ 40 pos. Ø12xh.14 mm

## HEMISPHERIC BOWLS & PTFE COVERS

The **Hemispheric Bowls** replace oil baths and mantles for clean and safe analysis with round bottom flasks. VELP Hemispheric Bowls fit the Ø 135mm plate ensuring **fast plate-flask heat transfer**.

**PTFE Safety covers** are designed to minimize thermal dispersion and increase safety.

A00000373 Hemispheric bowl for 25 ml flasks	A00000330 Hemispheric bowl for 50 ml flasks	A00000331 Hemispheric bowl for 100 ml flasks	A00000332 Hemispheric bowl for 250 ml flasks	A00000333 Hemispheric bowl for 500 ml flasks	A00000334 Hemispheric bowl for 1000 ml flasks	A00000374 Hemispheric bowl for 3 L flasks	A00000375 Hemispheric bowl for 5 L flasks	PTFE Safety cover Available for each size

## PTFE SAFETY COVERS

* PTFE Safety Cover Hemispheric Bowl 50 ml	A00000342
* PTFE Safety Cover Hemispheric Bowl 100 ml	A00000343
* PTFE Safety Cover Hemispheric Bowl 250 ml	A00000344
* PTFE Safety Cover Hemispheric Bowl 500 ml	A00000345
* PTFE Safety Cover Hemispheric Bowl 1000 ml	A00000346



# TECHNICAL DATA

	AREX 5 DIGITAL	AREX 5	ARE 5
USER INTERFACE	Digital	Analog	Analog
HOUSING MATERIAL	Epoxy painted aluminum structure	Epoxy painted aluminum structure	Epoxy painted aluminum structure
PLATE MATERIAL	CerAlTop™ (ceramic coated aluminum alloy)	CerAlTop™ (ceramic coated aluminum alloy)	Aluminum Alloy
PLATE DIAMETER	135 mm	135 mm	135 mm
STIRRING VOLUME (H <sub>2</sub> O)	20 L	20 L	15 L
STIRRING SPEED RANGE	50 - 1500 rpm	100 - 1500 rpm	100 - 1500 rpm
SPEED CONTROL	Digital	Analog	Analog
MOTOR	Brushless	Brushless	Brushless
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™
TEMPERATURE RANGE	Room temp. - 310 °C	Room temp. - 310 °C	Room temp. - 310 °C
HEATING CONTROL	Digital	Analog	Analog
TEMPERATURE SETTING RESOLUTION	1°C	-	-
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100 Pt1000 VTF	VTF	-
THERMOREGULATION ACCURACY	± 0.5 °C (VTF) ± 1 (Pt100, Pt1000)	± 0.5 °C (VTF)	-
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)	Illuminated Icon (when the temperature is above 50 °C)	Illuminated Icon (when the temperature is above 50 °C)
PROTECTION CLASS	IP 42	IP 42	IP 42
POWER INPUT	630 W	630 W	630 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	1,7 kg (3,7 lb)	1,7 kg (3,7 lb)	1,7 kg (3,7 lb)
DIMENSIONS (WxHxD)	160x270x85 mm 6,3x10,6x3,3 in	160x270x85 mm 6,3x10,6x3,3 in	160x270x85 mm 6,3x10,6x3,3 in



## SERVICE & SUPPORT

VELP Scientifica products are designed by our engineers to resist years of laboratory use.

Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. VELP Service Department and VELP Official Partners are always ready to offer you maintenance and service support tailored to your needs.

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support



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VELP Official Partner

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