

# AREC 4 Series

## Heating Magnetic Stirrer

Ceramic hotplate stirrers with a compact 4x4-inch surface designed for efficient heating and stirring, from basic applications to precise thermoregulation.

velp<sup>®</sup>

Driven by curiosity



# AREC 4 Digital

The AREC 4 Digital offers precise temperature control, advanced stirring and heating performance, improved safety features, and ease of use. The compact footprint makes it an indispensable solution for labs with limited bench space.

## Precise Thermoregulation

- Advanced heating plate technology ensures temperature homogeneity and stability up to 550°C
- Precise thermoregulation of the medium with Pt100/Pt1000 probe ( $\pm 1\text{ }^{\circ}\text{C}$ ) and VTF Digital Thermoregulator ( $\pm 0.5\text{ }^{\circ}\text{C}$ )
- Thermoregulation range from room temperature to 350 °C

## Powerful Stirring

- Brushless motor ensuring power and resistance over time
- Stirs up to 5 L volume ( $\text{H}_2\text{O}$ ) from 100 up to 1500 rpm
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes

## Safe and Resistant

- The robust 4-inch ceramic top offers exceptional chemical and scratch resistance and it is easy to clean with a simple wipe-down
- A "Hot Surface" warning message is displayed when the temperature exceeds 50°C, even when inactive



## Configurations





# AREC 4

The AREC 4 is the entry-level ceramic hotplate stirrer designed to meet the demands of everyday laboratory applications.

## Powerful Stirring

- Brushless motor ensuring power and resistance over time
- Stirs up to 5 L volume (H<sub>2</sub>O) from 100 up to 1500 rpm
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes

## Safe and Reliable

- Advanced heating technology guarantees efficient heating performance
- The robust 4-inch ceramic top offers exceptional chemical and scratch resistance and it is easy to clean with a simple wipe-down
- A warning icon is displayed when the temperature exceeds 50°C, even when inactive



## Configurations



AREC 4

## Optional Accessories

Extension for support rod	A00000382
Support rod	A00001069
Clamp with probe support	A00000280
Hemispheric bowl for 50 ml flasks	A00000273
Hemispheric bowl for 100 ml flasks	A00000258
Hemispheric bowl for 250 ml flasks	A00001071
Hemispheric bowl for 500 ml flasks	A00001072
Hemispheric bowl for 1000 ml flasks	A00001073

## Stirring Bars & Accessories



**A00000355**  
Magnetic disc  
stir bar  
Ø20x10mm



**A00001056**  
Magnetic  
stir bar  
Ø6x35mm



**A00000356**  
Magnetic  
stir bar  
Ø8x40mm



**A00000387**  
Magnetic  
stir bar  
Ø8x50mm



**A00001061**  
Magnetic  
stir bar  
Ø10x60mm

## External Temperature Sensors

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



**A00000458**  
Pt1000  
Temperature  
Probe AISI 316 Ti  
Ø3 mm



**A00000268**  
Pt100  
Temperature  
Probe AISI 316 Ti  
Ø3mm



**A00000349**  
Pt100  
Temperature  
Probe glass-  
coated Ø5mm



**F208B0063**  
VTF Digital  
Thermoregulator



## Instrument - Codes

		AREC 4 Digital	AREC 4
Stirrer only	230 V / 50-60 Hz 115 V / 60 Hz	F20500671 F20510671	F20500670 F20510670
With PT100 temperature probe	230 V / 50-60 Hz 115 V / 60 Hz	SA20500671 SA20510671	- -
With PT100, support rod and clamp	230 V / 50-60 Hz 115 V / 60 Hz	SC20500671 SC20510671	- -
With VTF and support rod	230 V / 50-60 Hz 115 V / 60 Hz	SB20500671 SB20510671	- -





# Technical Data

	AREC 4 Digital	AREC 4
User interface	Digital	Analog
Housing material	Aluminum body - Technopolymer enclosure	Aluminum body - Technopolymer enclosure
Plate material	CerAlTop™	CerAlTop™
Plate dimension	100x100 mm 4x4 in	100x100 mm 4x4 in
Stirring volume (H <sub>2</sub> O)	5 L	5 L
Stirring speed range	100 - 1500 rpm	100 - 1500 rpm
Speed control	Digital	Analog
Motor	Brushless	Brushless
Torque compensation	SpeedServo™	SpeedServo™
Temperature range	Room temp. - 550 °C	Room temp. - 550 °C
Heating control	Digital	Analog
Temperature setting resolution	1°C	-
External temperature sensor connection	Pt100 Pt1000 VTF	-
Thermoregulation range	Room temp. - 350 °C (Pt100, Pt 1000) Room temp. - 300 °C (VTF)	-
Thermoregulation accuracy	± 0.5 °C (VTF) ± 1 (Pt100, Pt1000)	-
Hot top warning system	On Display (temperature > 50 °C)	Illuminated Icons (when the temperature is above 50 °C)
Power input	280 W	280 W
Permissible Ambient Temperature	5 - 40 °C	5 - 40 °C
Weight	1,9 kg (4,2 lb)	1,9 kg (4,2 lb)
Dimensions (WxHxD)	160x85x270 mm 6,3x3,3x10,6 in	160x85x270 mm 6,3x3,3x10,6 in

## Service & Support

Velp 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

We reserve the right to make technical alterations  
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Rev 3.09.2025

