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# AREC 7 Series

## Heating Magnetic Stirrers

Ceramic Hotplate Stirrers with 7-inch surface, designed for efficient heating and stirring, from basic applications to precise thermoregulation.

velp<sup>®</sup>

Driven by curiosity



# AREC 7 Advance

The AREC 7 Advance offers the perfect balance of performance and technology, with a 7x7 ceramic top that ensures excellent chemical resistance and easy cleaning. Designed for precision and comfort in everyday lab work, it combines accurate thermoregulation, smart connectivity, and an intuitive user interface to support reliable, efficient results.

## Elevating Laboratory Standards

- Set temperature ramps, monitor viscosity, switch stirring modes, and streamline workflows with advanced timing and connectivity.
- Remote control and monitoring via VELP Ermes Cloud Platform.
- Save and transfer data via USB.

## Precise Thermoregulation

- Maximum control for temperature-sensitive tasks with Pt100 Pt1000 probe or VTF Digital Thermoregulator.
- When connected to probes two modes available: Fast (rapid heating) and Fine (minimized overshoot).
- Thermoregulation range: ambient to 350 °C.

## Advanced Stirring

- Durable brushless motor with strong magnetic coupling.
- Stirs up to 20 l from 30 to 1700 rpm.
- Auto-reverse, intermittent mode, and adjustable speed limit.

## Safety First

- A tempered glass panel ensures clear visibility and enhanced chemical resistance.
- Built-in safety features: lock button and over-temperature protection.
- “Hot” warning remains active above 50 °C, even when heating is off.



ERMES ENABLED

## Configurations



AREC 7 Advance



AREC 7 Advance System  
with Probe



AREC 7 Advance System  
with Probe, Rod and Clamp

# AREC 7 Digital

The AREC 7 Digital offers precise temperature control, advanced stirring and heating performance, improved safety features, and ease of use. The 7-inch square ceramic plate is highly resistant and ideal for everyday applications.

## Precise Thermoregulation

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

## Powerful Stirring

- Brushless motor ensuring power and resistance over time
- Stirs up to 15 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 7-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 7 Digital



AREC 7 Digital System  
with Probe



AREC 7 Digital System  
with Probe, Rod and Clamp



AREC 7 Digital System  
with VTF and Rod

# AREC 7

The AREC 7 is a powerful analog hotplate stirrer, ensuring excellent performance, high safety, and maximum reliability, for everyday laboratory applications.

## Powerful Heating and stirring

- Advanced heating technology ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Powerful brushless ensuring power and resistance over time
- Stirs up to 15 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 Resistant

- The robust 7-inch ceramic top offers exceptional chemical and scratch resistance and it is easy to clean with a simple wipe-down
- A warning icon illuminates when the plate temperature exceeds 50°C and the heating function is inactive



## Configurations








AREC 7



# 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
Controllersoft	A00000391
IQ/OQ Manual AREC 5/AREC 7/AREC 10 Advance	A00000412
Velp Ermes 1 Years Connection	E00010012
Velp Ermes 3 Years Connection	E00010036

## Stirring Bars

				
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 thermoregulator ensuring precise medium temperature control for accurate and reproducible results.

			
A00000458 Pt1000 Probe AISI 316 Ti Ø 3 mm	A00000268 Pt100 Probe AISI 316 Ti Ø 3 mm	A00000349 Pt 100 Probe glass-coated Ø 5 mm	F208B0063 VTF Digital Thermoregulator



## Configurations - Codes

	AREC 7 ADVANCE	AREC 7 DIGITAL	AREC 7
Stirrer only	230 V / 50-60 Hz 115 V / 60 Hz 100 V / 50-60 Hz	F20500682 F20510682	F20500681 F20510681 F20580681
With PT100 temperature probe	230 V / 50-60 Hz 115 V / 60 Hz	SA20500682 SA20510682	- -
With PT100, support rod and clamp	230 V / 50-60 Hz 115 V / 60 Hz	SC20500682 SC20510682	- -
With VTF and support rod	230 V / 50-60 Hz 115 V / 60 Hz	- -	SB20500681 SB20510681

# Technical Data

	AREC 7 Advance	AREC 7 Digital	AREC 7
User interface	Digital	Digital	Analog
Housing material	Aluminium body – Technopolymer enclosure	Aluminium body – Technopolymer enclosure	Aluminium body – Technopolymer enclosure
Plate material	Ceramic	Ceramic	Ceramic
Plate dimension	180x180 mm 7x7 in	180x180 mm 7x7 in	180x180 mm 7x7 in
Stirring volume (H <sub>2</sub> O)	20 L	15 L	15 L
Stirring speed range	30 - 1700 rpm	100 - 1500 rpm	100 - 1500 rpm
Motor	Brushless	Brushless	Brushless
Torque compensation	SpeedServo™	SpeedServo™	SpeedServo™
Temperature range	Room temp. - 550 °C	Room temp. - 550 °C	Room temp. - 550 °C
Heating control	Digital	Digital	Analog
External temperature sensor connection	Pt100 Pt1000 VTF	Pt100 Pt1000 VTF	-
Thermoregulation range	Room temp. - 350 °C (Pt100, Pt 1000) Room temp. - 300 °C (VTF)	Room temp. - 350 °C (Pt100, Pt 1000) Room temp. - 300 °C (VTF)	-
Thermoregulation accuracy	± 1 °C (Pt100, Pt1000) ± 0.5 °C (VTF)	± 1 °C (Pt100, Pt1000) ± 0.5 °C (VTF)	-
Timer	Yes (1 s - 99 h 59 min)	-	-
Autoreverse	Yes (5 s - 99 h 59 min)	-	-
Intermittent mode	Yes (5 s - 99 h 59 min)	-	-
Settable rotation direction	Yes: CW and CCW	-	-
Viscosity trend	Yes (1 min - 99 h 59 min)	-	-
Ramps	"Up to 9 temperatures, up to 9 speeds"	-	-
Hot top warning system	On Display (T > 50 °C)	On Display (T > 50 °C)	Illuminated Icons (T > 50 °C)
Safety lock	Yes	-	-
Connectivity	Ermes Cloud Platform via Wi-Fi CotrollerSoft™ PC and pendrive via USB-C	Ermes Cloud via Wi-Fi CotrollerSoft™ PC and pendrive via USB-C	-
Power input	800 W	800 W	800 W
Weight	3.5 kg 7.7 lb	3.5 kg 7.7 lb	3.5 kg 7.7 lb
Dimensions (WxHxD)	200x100x340 mm 7,87 x 3,94 x 13,39 in	200x100x340 mm 7,87 x 3,94 x 13,39 in	200x100x340 mm 7,87 x 3,94 x 13,39 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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