AREC 10 Series

Heating Magnetic Stirrers

Ceramic hotplate stirrers with a large 10-inch surface for temperature-sensitive and demanding applications.

velp®

Driven by curiosity

AREC 10 Advance

The AREC 10 Advance brings together high-performance stirring and heating with the practicality of a large 10x10 ceramic plate. Ideal for handling larger vessels or multiple samples, it offers precise thermoregulation, advanced connectivity, and intuitive controls all in one spacious, chemically resistant surface.

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 25l 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 10 Advance

AREC 10 Advance System with Probe

AREC 10 Advance System with Probe, Rod and Clamp

AREC 10 Digital

The AREC 10 Digital offers precise temperature control, advanced stirring and heating performance, improved safety features, and ease of use. The 10-inch square ceramic plate is highly resistant and ideal for laboratories requiring a spacious working surface.

Precise Thermoregulation

- Advanced heating plate technology ensures temperature homogeneity and stability up to 550°C
- Precise thermoregulation of the medium with Pt100/Pt1000 probe (± 1 °C) and VTF Digital Thermoregulator (± 0.5 °C).
- Thermoregulation range from room temperature to 350 °C

Powerful Stirring

- Brushless motor ensuring power and resistance over time
- Stirs up to 25 L volume (H_2O) from 100 up to 1500 rpm
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes

Safe and Resistant

- The robust 10-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 10 Digital

AREC 10 Digital System with Probe

AREC 10 Digital System with Probe, Rod and Clamp

AREC 10 Digital System with VTF and Rod

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 AREX 5/AREC 7/AREC 10 Advance	A00000412
Velp Ermes 1 Years Connection	E00010012
Velp Ermes 3 Years Connection	E00010036

Stirring Bars

A00000355	A00001056	A00000356	A00000387	A00001061
Magnetic disc stir bar Ø20x10mm	Magnetic stir bar Ø6x35mm	Magnetic stir bar Ø8x40mm	Magnetic stir bar Ø8x50mm	Magnetic stir bar Ø10x60mm

External Temperature Sensors

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

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

Configurations - Codes

		AREC 10 Advance	AREC 10 Digital
Stirrer only	230 V / 50-60 Hz 115 V / 60 Hz 100 V / 50-60 Hz	F20500692 F20510692	F20500691 F20510691 F20580691
With PT100 temperature probe	230 V / 50-60 Hz 115 V / 60 Hz	SA20500692 SA20510692	SA20500691 SA20510691
With PT100, support rod and clamp	230 V / 50-60 Hz 115 V / 60 Hz	SC20500692 SC20510692	SC20500691 SC20510691
With VTF and support rod	230 V / 50-60 Hz 115 V / 60 Hz		SB20500691 SB20510691

Technical Data

	AREC 10 Advance	AREC 10 Digital
User interface	Digital	Digital
Housing material	Aluminum body - Technopolymer enclosure	Aluminum body - Technopolymer enclosure
Plate material	Ceramic	Ceramic
Plate dimension	260x260 mm 10x10 in	260x260 mm 10x10 in
Stirring volume (H$_2$O)	25 L	25 L
Stirring speed range	30 - 1700 rpm	100 - 1500 rpm
Speed control	Digital	Digital
Motor	Brushless	Brushless
Torque compensation	SpeedServo™	SpeedServo™
Temperature range	Room temp. - 550 °C	Room temp. - 550 °C
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 (when the temperature is above 50 °C)	On Display (when the temperature is above 50 °C)
Safety lock	Yes	-
Connectivity	Ermes Cloud Platform via Wi-Fi CotrollerSoft™ PC and pendrive via USB-C	-
Power input	230 V / 50-60 Hz: 1530 W 115 V / 60 Hz: 1520 W	230 V / 50-60 Hz: 1530 W 115 V / 60 Hz: 1520 W 100 V / 50-60 Hz: 1320 W
Weight	5,6 kg 12,4 lb	5,6 kg 12,4 lb
Dimensions (wxhxd)	280x100x420 mm 11.02x3.93x16.53 in	280x100x420 mm 11.02x3.93x16.53 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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