AREC Series

Heating Magnetic Stirrers

Ceramic top hot plate stirrers ensuring reliability and excellent stirring and heating performance

AREC Connect

Innovative, safe and accurate Ceramic Hot Plate Stirrer with embedded Wi-Fi technology to monitor and control laboratory reactions through VELP Ermes cloud platform. Precise thermoregulation and powerful stirring for chemical, pharmaceutical and cosmetic laboratories requiring accuracy and efficiency.

OUTSTANDING PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Powerful brushless motor stirring up to 20 L volume (H_2O) from 30 up to 1700 rpm; ideal for both low and high speed applications.
- SpeedServo™ counter reaction technology maintains the speed constant as viscosity changes.

EXCELLENT THERMOREGULATION

- Ideal for temperature sensitive applications in Chemistry, Biotech and Pharma.
- Precise thermoregulation of the medium with Pt100 probe (± 0.5 °C).
- Thermoregulation range from room temperature up to 300 °C.

SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- The safety lock button eliminates the risk of unintentional modification of the working conditions.

PROGRAMMABLE OPERATION

- Integral Timer from 1 min to 99 h 59 min (1 min steps).
- Autoreverse of the stirring direction for enhanced mixing capabilities from 5 s to 99 min 59 s (1 s steps).
- Intermittent mode for enhanced programming from 5 s to 99 min 59 s (1 s steps).

INTUITIVE AND EASY-TO-USE

- Digital display for precise temperature and stirring setting.
- Illuminated icons to ensure a clear readout of the working conditions.
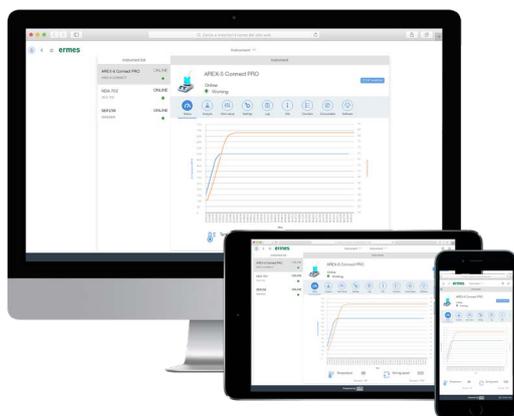
Probe	Wi-Fi	Temperature Setpoint	Timer	Autoreverse	Intermittent Mode

ermes enabled

- Remote control and programming
- Data logging and reporting (.xls, .csv, .pdf, LIMS)
- Real-time access from PC, smartphone and tablet
- Enhanced service support
- Software update

CONFIGURATIONS

AREC Connect System with Probe

AREC Connect System with Probe, Rod and Clamp

AREC.X

The AREC.X is designed for accurate thermoregulation offering state-of-the-art stirring and heating performance, superior safety features and ease-of-use. The ideal solution for laboratories requiring precise control of the medium's temperature.

EXCELLENT PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Bright and easy-to-read digital display showing actual and setpoint temperature.
- Powerful motor stirring up to 15 L volume (H_2O) from 50 up to 1500 rpm.

PRECISE THERMOREGULATION

- Ideal for temperature sensitive applications in Chemistry, Biotech and Pharma.
- Precise thermoregulation of the medium with Pt100 probe (± 1 °C) and VTF Digital Thermoregulator (± 0.5 °C).
- Thermoregulation range from room temperature to 250 °C.

SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- Run-off grove to protect the electronics.

CONFIGURATIONS

AREC.X

AREC.X System
with Probe

AREC.X System
with Probe, Rod and Clamp

AREC.X System
with VTF and Rod

AREC

The AREC is the safe and reliable hot plate stirrer with ceramic top guaranteeing excellent heat transfer and stirring performance for basic laboratory applications.

EXCELLENT PERFORMANCE

- Cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C.
- Bright and easy-to-read digital display showing actual and setpoint temperature.
- Powerful motor stirring up to 15 L volume (H_2O) from 50 up to 1500 rpm.

SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Hot Surface Safety message displayed when the temperature is above 50 °C.
- Run-off grove to protect the electronics.

AREC | CONFIGURATION

HSC

The HSC is the safe and powerful analog hot plate stirrer for applications that do not require accurate temperature control of the medium. The ideal solution for academia, chemistry, biology and pharma laboratories in schools and universities.

ENTRY LEVEL SOLUTION

- Cutting-edge heating plate technology that ensures temperature homogeneity from room temperature up to 400 °C.
- Powerful motor stirring up to 15 L volume (H_2O) from 50 up to 1300 rpm.
- Stirring and heating indicators.

SAFE AND RESISTANT

- The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals.
- Run-off grove to protect the electronics.

HSC | CONFIGURATION

OPTIONAL ACCESSORIES

Extension for support rod	A00000382
Support rod	A00001069
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
IQ/OQ AREC Connect Manual	A00000421
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Year 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.

A00000280	A00000268	A00000349	F208B0063
Clamp for the probe	Temperature Probe AISI 316 Ti Ø3mm	Temperature Probe glass-coated Ø5mm	VTF Digital Thermoregulator

CONFIGURATIONS CODES

		AREC Connect	AREC.X	AREC	HSC
STIRRER ONLY	230 V / 50-60 Hz	-	F20500554	F20500551	F20500552
	115 V / 60 Hz	-	F20510554	F20510551	F20510552
WITH PT100 TEMPERATURE PROBE	230 V / 50-60 Hz	SA20500550	SA20500554	-	-
	115 V / 60 Hz	SA20510550	SA20510554	-	-
WITH PT100, SUPPORT ROD AND CLAMP	230 V / 50-60 Hz	SB20500550	SB20500554	-	-
	115 V / 60 Hz	SB20510550	SB20510554	-	-
WITH VTF AND SUPPORT ROD	230 V / 50-60 Hz	-	SC20500554	-	-
	115 V / 60 Hz	-	SC20510554	-	-

TECHNICAL DATA

	AREC Connect	AREC.X	AREC	HSC
HOUSING MATERIAL	Technopolymer	Technopolymer	Technopolymer	Technopolymer
PLATE MATERIAL	Ceramic	Ceramic	Ceramic	Ceramic
PLATE DIMENSION	180x180 mm 7x7 in	180x180 mm 7x7 in	180x180 mm 7x7 in	180x180 mm 7x7 in
STIRRING VOLUME (H_2O)	20 L	15 L	15 L	15 L
STIRRING SPEED RANGE	30 - 1700 rpm	50 - 1500 rpm	50 - 1500 rpm	50 - 1300 rpm
SPEED CONTROL	Digital	Analog	Analog	Analog
SPEED SETTING RESOLUTION	5 rpm	-	-	-
MOTOR	Brushless	Monophase PCM	Monophase PCM	Monophase PCM
TORQUE COMPENSATION	SpeedServo™	Electronic regulation	Electronic regulation	-
TEMPERATURE RANGE	Room temp. - 550 °C	Room temp. - 550 °C	Room temp. - 550 °C	Room temp. - 400 °C
HEATING CONTROL	Digital	Digital	Digital	Analog
TEMPERATURE SETTING RESOLUTION	1 °C	5 °C	5 °C	-
EXTERNAL TEMPERATURE SENSOR CONNECTION	Pt100	Pt100 VTF	-	-
THERMOREGULATION RANGE	Room temp. - 300 °C	Room temp. - 250 °C	-	-
THERMOREGULATION ACCURACY	± 0.5 °C (Pt100)	± 1 °C (Pt100) ± 0.5 °C (VTF)	-	-
TIMER	Yes (1 min - 99 h 59 min)	-	-	-
AUTOREVERSE	Yes (5 s - 99 min 59 s)	-	-	-
INTERMITTENT MODE	Yes (5 s - 99 min 59 s)	-	-	-
LOCK FUNCTION	Yes	-	-	-
ACOUSTIC SIGNALS	Yes	-	-	-
HOT TOP WARNING SYSTEM	On Display (when the temperature is above 50 °C)	On Display (when the temperature is above 50 °C)	On Display (when the temperature is above 50 °C)	-
POWER INPUT	800 W	800 W	800 W	800 W
PERMISSIBLE AMBIENT TEMPERATURE	5 - 40 °C	5 - 40 °C	5 - 40 °C	5 - 40 °C
WEIGHT	3.3 kg 7.3 lb	3.5 kg 7.7 lb	3.5 kg 7.7 lb	3.2 kg 7 lb
DIMENSIONS (WxHxD)	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in	203x94x344 mm 8.0x3.7x13.5 in
ERMES CONNECTION	Yes, via Wi-Fi	-	-	-

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

3 YEARS WARRANTY

VELP Official Partner

DESIGNED AND MANUFACTURED IN ITALY

VELP SCIENTIFICA®