AREX 5 Series

Heating Magnetic Stirrers

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

velp®

Driven by curiosity

AREX 5 Advance

AREX 5 Advance is designed to meet the highest demands, ensuring precision, efficiency, and uncompromising safety in every experiment. It combines powerful performance, precise thermoregulation, several connectivity options, advanced features, and enhanced user experience.

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 310 °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, over-temperature protection, and safety circuits.
- “Hot” warning remains active above 50 °C, even when heating is off.

ERMES ENABLED

Configurations

AREX 5 Advance

AREX 5 Advance System with Probe

AREX 5 Advance System with Probe, Rod and Clamp

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 (± 1.0 °C) and VTF Digital Thermoregulator (± 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.

Configurations

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

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 ± 0.5°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°C.
- Stirs up to 20 l from 100 to 1500 rpm with SpeedServo™ counter reaction.
- Brushless motor ensuring power and resistance over time.

Configurations

AREX 5

AREX 5 System
with VTF and Rod

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°C.
- Stirs up to 15 l from 100 to 1500 rpm with SpeedServo™ counter reaction.
- Brushless motor ensuring power and resistance over time.

Configurations

ARE 5

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 different sizes

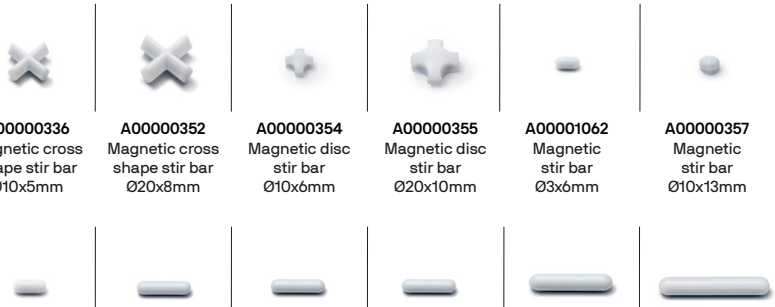
PTFE Safety Covers

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**

Optional Accessories

Support rod	A00001069
Extension for support rod	A00000382
Clamp for the probe	A00000280
Handle for AluBlock removal	A00000351
ControllerSoft	A00000391
Protective cover AREX 5 Advance	A00000490
IQ/OQ Manual AREX 5/AREC 7/AREC 10 Advance	A00000412
VELP Ermes 1 Year Connection	E00010012
VELP Ermes 3 Years Connection	E00010036

Stirring Bars & Accessories



A00000336 Magnetic cross shape stir bar Ø10x5mm

A00000352 Magnetic cross shape stir bar Ø20x8mm

A00000354 Magnetic disc stir bar Ø10x6mm

A00000355 Magnetic disc stir bar Ø20x10mm

A00001062 Magnetic stir bar Ø3x6mm

A00000357 Magnetic stir bar Ø10x13mm

A00001063 Magnetic stir bar Ø4,5x12mm

A00001057 Magnetic stir bar Ø6x20mm

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

Configurations - Codes

		AREX 5 Advance	AREX 5 Digital	AREX 5	ARE 5
Stirrer only	230 V / 50-60 Hz 115 V / 60 Hz	F20500584 F20510584	F20500580 F20510580	F20500570 F20510570	F20500560 F20510560
With PT100 temperature probe	230 V / 50-60 Hz 115 V / 60 Hz	SA20500584 SA20510584	SA20500580 SA20510580	- -	- -
With PT100, support rod and clamp	230 V / 50-60 Hz 115 V / 60 Hz	SC20500584 SC20510584	SC20500580 SC20510580	- -	- -
With VTF and support rod	230 V / 50-60 Hz 115 V / 60 Hz	- -	SB20500580 SB20510580	SA20500570 SA20510570	- -

Technical Data

	AREX 5 ADVANCE	AREX 5 DIGITAL	AREX 5	ARE 5
User interface	Digital	Digital	Analog	Analog
Housing material	Aluminum body - Technopolymer enclosure	Aluminum body - Technopolymer enclosure	Aluminum body - Technopolymer enclosure	Aluminum body - Technopolymer enclosure
Plate material	CerAlTop™	CerAlTop™	CerAlTop™	Aluminum Alloy
Plate diameter	135 mm	135 mm	135 mm	135 mm
Stirring volume (H_2O)	20 L	20 L	20 L	15 L
Stirring speed range	30 - 1700 rpm	50 - 1500 rpm	100 – 1500 rpm	100 – 1500 rpm
Speed control	Digital	Digital	Analog	Analog
Motor	Brushless	Brushless	Brushless	Brushless
Torque compensation	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
Temperature range	Room temp. - 310 °C	Room temp. - 310 °C	Room temp. - 310 °C	Room temp. - 310 °C
Heating control	Digital	Digital	Analog	Analog
Temperature setting resolution	1°C	1°C	-	-
External temperature sensor connection	Pt100 Pt1000 VTF	Pt100 Pt1000 VTF	VTF	-
Thermoregulation range	Room temp. - 310 °C (Pt100, Pt 1000) Room temp. - 300 °C (VTF)	Room temp. - 310 °C (Pt100, Pt 1000) Room temp. - 300 °C (VTF)	Room temp. - 300 °C (VTF)	-
Thermoregulation accuracy	± 0.5 °C (VTF) ± 1 (Pt100, Pt1000)	± 0.5 °C (VTF) ± 1 (Pt100, Pt1000)	± 0.5 °C (VTF)	-
Hot top warning system	On Display (temperature > 50 °C)	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)
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: clockwise and counterclockwise	-	-	-
Viscosity trend measuremente	Yes	-	-	-
Ramps	Up to 9 temperatures, up to 9 speeds	-	-	-
Safety lock	Yes	-	-	-
Connettivity	Ermes Cloud Platform via Wi-Fi CotrollerSoft™ PC and pendrive via USB-C	-	-	-
Protection class	IP 42	IP 42	IP 42	IP 42
Power input	630 W	630 W	630 W	630 W
Weight	1,9 kg (4,2 lb)	1,9 kg (4,2 lb)	1,9 kg (4,2 lb)	1,9 kg (4,2 lb)

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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