# ARE/AREX-6 Series

## Hot Plate Stirrers

Superior Performance & Absolute Safety

# AREX-6 Connect PRO

The AREX-6 Connect PRO is the first hot plate stirrer with embedded Wi-Fi technology to monitor and control your reactions through VELP Ermes cloud platform.

## ABSOLUTE SAFETY

The safety standards of the AREX-6 Series meet the potential of cloud-based services giving the possibility to control the instrument remotely and interrupt the operations with a click.

## YOUR HOT PLATE STIRRER IN REAL TIME

With the AREX-6 Connect PRO is possible to monitor in real time the reactions and the instrument working conditions from any device (PC, Tablet and Smartphone) and to be informed with immediate notifications (dashboard and email)

## DATA MANAGEMENT

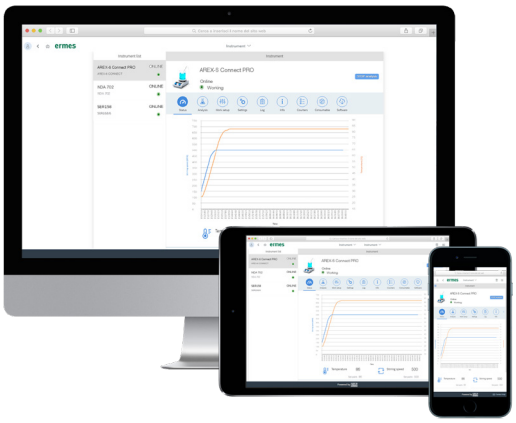
Safely access to your data with different clearance levels, create and share reports with your peers in many different file format.

## GET ALWAYS THE BEST FEATURES

The AREX-6 Connect PRO receives OTA (Over-the-Air) Software updates to get new features and enhancement in order to achieve the maximum lifespan.

## EASY AND SMART

The connection to VELP Ermes Cloud Platform is easy and safe and it takes only few minutes to benefit of the cloud-based potential and the smart user experience of the platform.



**ermes enabled**

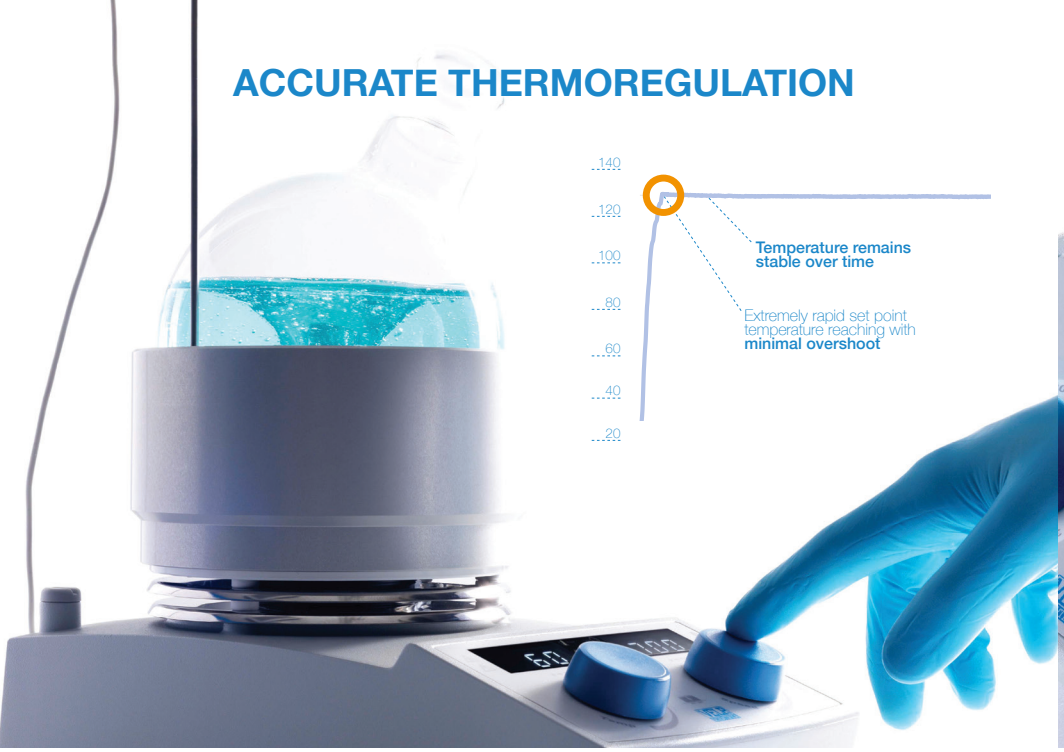
- Monitor and control your reactions
- Remote start and stop
- Setting of stirring speed and heating temperature
- Timer setting for unattended reactions
- Advance menu setting (i.e. temperature and speed limit)
- Software updates
- Data logging and reporting (.xls, .csv, .pdf, LIMS)

## CONFIGURATIONS

AREX-6 Connect PRO System with Probe

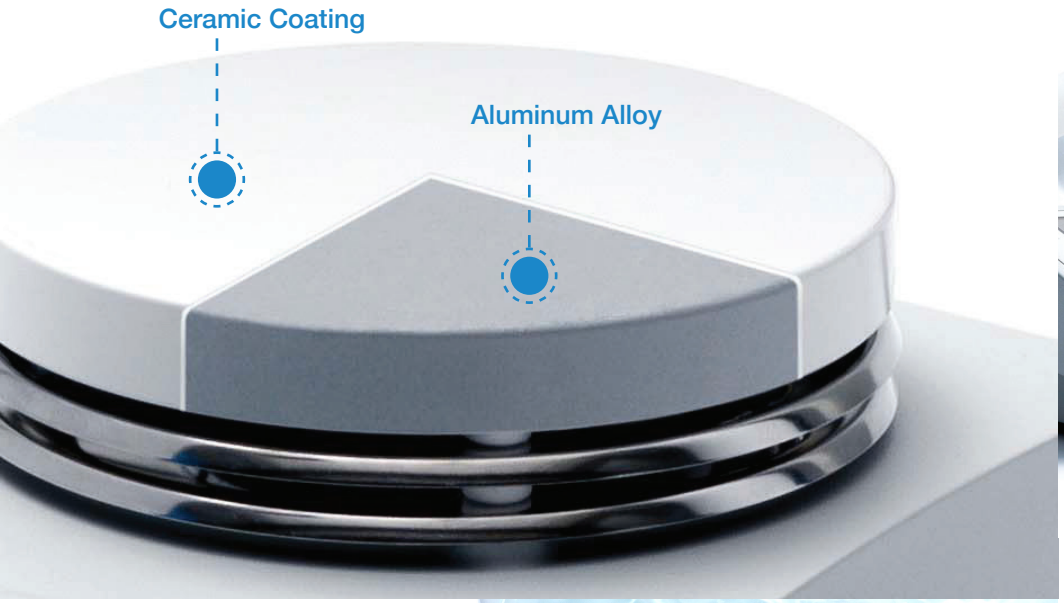
AREX-6 Connect PRO System with Probe, Rod and Clamp

## ACCURATE THERMOREGULATION




## SPEEDSERVO™

## CERALTOP™




## PROTECTION

## SAFETY

## PRODUCTIVITY

# AREX-6 Digital PRO

The AREX-6 Digital PRO is designed for accurate thermoregulation offering state-of-the-art stirring and heating performance, superior safety features and ease-of-use. The connection with the external temperature probe Pt100 and digital thermoregulators VTF and VTF EVO ensures top class versatility meeting all temperature accuracy requirements.

## SAFE HEATING CONTROL

Two independent temperature safety circuits switch off the heating in case of overtemperature.

## ADVANCED THERMOREGULATION

Fast, precise and stable temperature control with minimal overshoot. Excellent heat transfer with CerAlTop™ plate. Able to reach a maximum temperature of 370°C.

## POWERFUL MAGNET

The Alnico magnet provides leading magnetic coupling and guarantees superior peripheral stirring. Maximum speed of 1700 rpm, SpeedServo™ torque compensation.

## UNATTENDED OPERATIONS

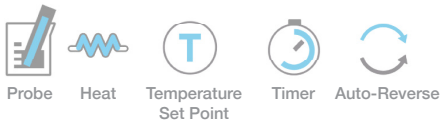
The built-in timer switches the main function off after the set running time.

## ENHANCED KINETICS

The Auto-Reverse of stirring direction is a key feature for improving mixing effectiveness.

## SMART USER INTERFACE

The new icons and display ensure a clear readout of the working conditions and warning messages such as "HOT".



## CONFIGURATIONS

AREX-6 Digital PRO System with Probe

AREX-6 Digital PRO System with Probe, Rod and Clamp

AREX-6 Digital PRO System with VTF and Rod

AREX-6 Digital PRO System with VTF EVO, Rod and Wireless DataBox™

# AREX-6

The AREX-6 is the safe and powerful analog hot plate stirrer with CerAlTop™ plate guaranteeing excellent heat transfer and resistance to chemicals. The powerful motor and Alnico magnet stir up to 20 liters at a maximum speed of 1700 rpm.

## UPGRADE TO DIGITAL

For superior peformance you can upgrade the AREX-6 by connecting one of the VELP Digital Thermoregulators VTF or VTF EVO:

- Direct temperature control of the sample with 0.5°C accuracy.
- The VTF EVO Wireless allows the operator to control all the temperature parameters directly from the PC.

AREX-6

AREX-6 System With VTF and Rod

AREX-6 System With VTF EVO, Rod and Wireless DataBox™

## CONFIGURATIONS

# ARE-6

The ARE-6 is the safe and powerful analog hot plate stirrer for applications that do not require accurate temperature control of the medium. The ARE-6 incorporates high level features such as the Alnico magnet with top class magnetic coupling and SpeedServo™ torque compensation.

## BASIC HIGH PERFORMANCE SOLUTION

The aluminum alloy top plate offers optimum heat transfer and chemical resistance.

The independent luminous safety switch prevents unintentional heating and indicates when heating is On.

The heating icon illuminates when the plate temperature is above 50°C acting as a HOT TOP warning system.

ARE-6

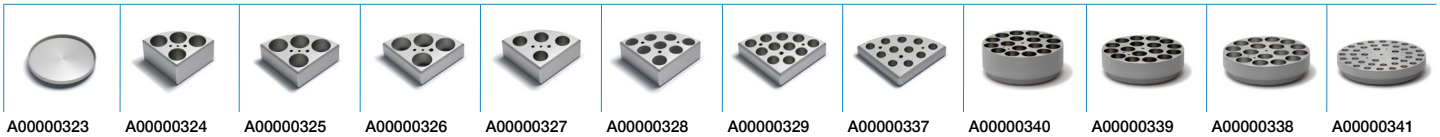
## CONFIGURATIONS

# Improve your productivity

## ALUBLOCK™

The new 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.

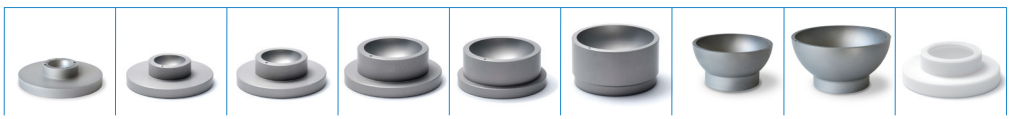


| A00000323 | A00000324 | A00000325 | A00000326 | A00000327 | A00000328 | A00000329 | A00000337 | A00000340 | A00000339 | A00000338 | A00000341 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MultiAluBlock™ Base | MultiAluBlock™ 4 pos. Ø28xh.43 mm | MultiAluBlock™ 4 pos. Ø28xh.30 mm | MultiAluBlock™ 4 pos. Ø28xh.24 mm | MultiAluBlock™ 4 pos. Ø21xh.31 mm | MultiAluBlock™ 8 pos. Ø17xh.26 mm | MultiAluBlock™ 11 pos. Ø15xh.20 mm | MultiAluBlock™ 11 pos. Ø12xh.14 mm | MonoAluBlock™ 17 pos. Ø28xh.43 mm | MonoAluBlock™ 17 pos. Ø28xh.30 mm | MonoAluBlock™ 17 pos. Ø28xh.24 mm | 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.**

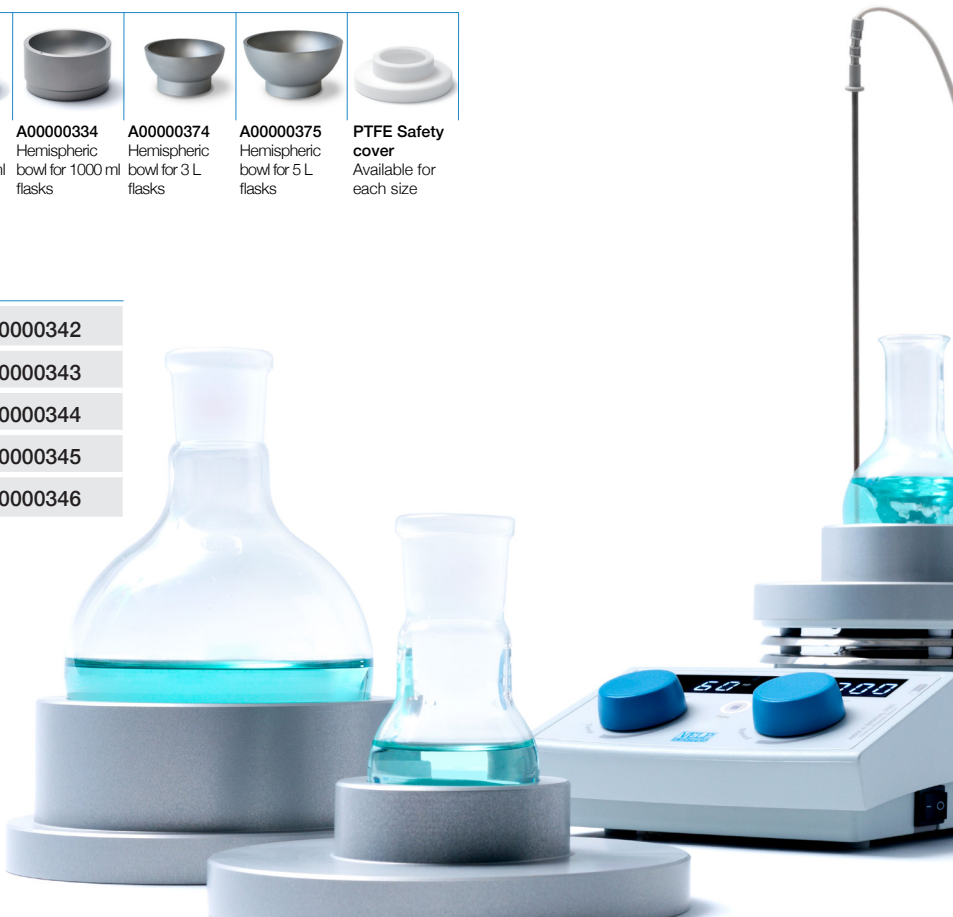
**PTFE Safety covers** are designed to minimize thermal dispersion and increase safety.



| A00000373 | A00000330 | A00000331 | A00000332 | A00000333 | A00000334 | A00000374 | A00000375 | PTFE Safety cover |
|---|---|---|---|---|---|---|---|---|
| Hemispheric bowl for 25 ml flasks | Hemispheric bowl for 50 ml flasks | Hemispheric bowl for 100 ml flasks | Hemispheric bowl for 250 ml flasks | Hemispheric bowl for 500 ml flasks | Hemispheric bowl for 1000 ml flasks | Hemispheric bowl for 3 L flasks | Hemispheric bowl for 5 L flasks | Available for each size |

## PTFE SAFETY COVERS

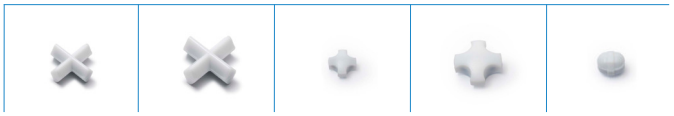
| | |
|---|---|
| * PTFE Safety Cover Hemispheric Bowl 50 ml | **A00000342** |
| * PTFE Safety Cover Hemispheric Bowl 100 ml | **A00000343** |
| * PTFE Safety Cover Hemispheric Bowl 250 ml | **A00000344** |
| * PTFE Safety Cover Hemispheric Bowl 500 ml | **A00000345** |
| * PTFE Safety Cover Hemispheric Bowl 1000 ml | **A00000346** |



## OPTIONAL ACCESSORIES

| | |
|---|---|
| Protective cover ARE/AREX-6 series | **A00000335** |
| Support rod | **A00001069** |
| Handle for AluBlock™ removal | **A00000351** |
| Clamp with probe support | **A00000280** |
| VTF EVO Digital Thermoregulator whitout DataBox™ | **F208B0064** |
| Extension for support rod ARE - AREX | **A00000382** |
| VELP Ermes 1 Year Connection | **E00010012** |
| VELP Ermes 3 Year 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

**A00000357**
Magnetic octagonal stir bar Ø10x13mm

**A00001062**
Magnetic stir bar Ø3x6mm

**A00001063**
Magnetic stir bar Ø4,5x12mm

**A00001057**
Magnetic stir bar Ø6x20mm

**A00001056**
Magnetic stir bar Ø6x35mm

**A00000356**
Magnetic stir bar Ø8x40mm

**A00001061**
Magnetic stir bar Ø10x60mm

## EXTERNAL TEMPERATURE SENSORS

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

**A00000268**
Temperature Probe AISI 316 Ti Ø3mm

**A00000349**
Temperature Probe glass-coated Ø5mm

**F208B0063**
VTF Digital Thermoregulator

**SA208B0064**
VTF EVO Digital Thermoregulator with Wireless DataBox™

# CONFIGURATIONS CODES

| | | ARE-6 | AREX-6 | AREX-6 Digital PRO | AREX-6 Connect PRO |
|---|---|---|---|---|---|
| STIRRER ONLY | 230 V / 50-60 Hz<br>115 V / 60 Hz | **F20500462**<br>**F20510462** | **F20500463**<br>**F20510463** | -<br>- | -<br>- |
| WITH PT100 TEMPERATURE PROBE | 230 V / 50-60 Hz<br>115 V / 60 Hz | -<br>- | -<br>- | **SA20500460**<br>**SA20510460** | **SA20500465**<br>**SA20510465** |
| WITH PT100, SUPPORT ROD AND CLAMP | 230 V / 50-60 Hz<br>115 V / 60 Hz | -<br>- | -<br>- | **SD20500460**<br>**SD20510460** | **SB20500465**<br>**SB20510465** |
| WITH VTF AND SUPPORT ROD | 230 V / 50-60 Hz<br>115 V / 60 Hz | -<br>- | **SA20500463**<br>**SA20510463** | **SB20500460**<br>**SB20510460** | -<br>- |
| WITH VTF EVO AND SUPPORT ROD and Wireless DataBox™ | 230 V / 50-60 Hz<br>115 V / 60 Hz | -<br>- | **SB20500463**<br>**SB20510463** | **SC20500460**<br>**SC20510460** | -<br>- |

# TECHNICAL DATA

| | ARE-6 | AREX-6 | AREX-6 Digital PRO | AREX-6 Connect PRO |
|---|---|---|---|---|
| USER INTERFACE | Analog | Analog | Digital | Digital |
| MOTOR | Brushless | Brushless | Brushless | Brushless |
| PLATE MATERIAL | Aluminum Alloy | CerAlTop™ (ceramic coated aluminum alloy) | CerAlTop™ (ceramic coated aluminum alloy) | CerAlTop™ (ceramic coated aluminum alloy) |
| PLATE DIAMETER | 135 mm | 135 mm | 135 mm | 135 mm |
| STIRRING VOLUME (H2O) | Up to 20 L | Up to 20 L | Up to 20 L | Up to 20 L |
| STIRRING SPEED RANGE | 30-1700 rpm | 30-1700 rpm | 30-1700 rpm | 30-1700 rpm |
| SPEED ACCURACY | - | - | 5 rpm | 5 rpm |
| SPEED CONTROL | Analog | Analog | Digital | Digital |
| TORQUE COMPENSATION | SpeedServo™ | SpeedServo™ | SpeedServo™ | SpeedServo™ |
| TEMPERATURE RANGE | Room temp. - 370 °C | Room temp. - 370 °C | Room temp. - 370 °C | Room temp. - 370 °C |
| HEAT CONTROL | Analog | Analog | Digital | Digital |
| HEAT SETTING RESOLUTION | Scale | Scale | 1°C | 1°C |
| EXTERNAL DIGITAL THERMOREGULATORS CONNECTION | - | VTF / VTF EVO | VTF / VTF EVO | VTF / VTF EVO |
| EXTERNAL PROBE CONNECTION | - | - | Pt100 | Pt100 |
| MEDIUM HEAT CONTROL ACCURACY | - | ±0.5°C (VTF / VT FEVO) | ±0.5°C (VTF / VTF EVO)<br>± 1 °C (Pt100) | ±0.5°C (VTF / VTF EVO)<br>± 1 °C (Pt100) |
| LOCK FUNCTION | - | - | Yes | Yes |
| TIMER | - | - | Yes | Yes |
| AUTO-REVERSE | - | - | Yes | Yes |
| PROBE DETECTOR | - | - | Yes | Yes |
| HOT TOP WARNING SYSTEM | Illuminated Icon | Illuminated Icon | On Display | On Display |
| ON/OFF SAFETY-HEATING-SWITCH | Yes | Yes | Yes | Yes |
| PROTECTION CLASS | IP 42 | IP 42 | IP 42 | IP 42 |
| DIMENSIONS (WxHxD) | 160x105x280 mm<br>6.5x4.1x11 in | 160x105x280 mm<br>6.5x4.1x11 in | 160x105x280 mm<br>6.5x4.1x11 in | 160x105x280 mm<br>6.5x4.1x11 in |
| PERMISSIBLE AMBIENT TEMPERATURE | 5-40 °C | 5-40 °C | 5-40 °C | 5-40 °C |
| POWER INPUT | 630 W | 630 W | 630 W | 630 W |
| WEIGHT | 2.6 Kg<br>5.7 lb | 2.6 Kg<br>5.7 lb | 2.6 Kg<br>5.7 lb | 2.6 Kg<br>5.7 lb |
| 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

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VELP Official Partner

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Rev 4.0 04.2020