

# LABORATORY EQUIPMENT

Product catalogue



www.velp.com

### **VELP Scientifica**

Established in 1983, VELP Scientifica is today one of the world's leading manufacturers of analytical instruments and laboratory equipment that has made an impact on the world-wide market with Italian products renowned for innovation, design and premium connectivity.

We owe our success to a rich patrimony of ideas, significant investments in R&D and technological development aiming at maximizing productivity as well as reducing time-to-market.

VELP is a pioneer of smart lab technology. Our analytical instruments and laboratory equipment are accelerating scientific work every day giving scientists the possibility to monitor and control VELP technology from a virtual dashboard accessible from any device, everywhere and anytime!

VELP is today a global company with an expanding local focus. Our internationalization process has led us to open local subsidiaries that provide service to our customers in different parts of the world:

• VELP Scientific, Inc. in Long Island (USA) offering sales and technical support for the United States, Canada, and Mexico.

• VELP China Co. LTD in Shanghai guarantees a local presence in China through commercial and technical support.

VELP has always generated value for its customers through close cooperation with its qualified distribution network which today counts more than 300 distributors in 130 countries.

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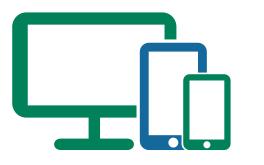
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## VELP Ermes

### SMART LAB CLOUD PLATFORM

VELP Ermes creates a connected ecosystem of devices, people and data that transmit information between each other cutting down distances and expanding your scientific potential.



#### Monitor and Control your instruments

Monitor and manage multiple instruments 24/7 from your internet devices. Real-time visualization of your analysis and of the instrument working conditions. Immediate notifications and alerts.



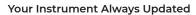
#### **Remote Service Support**

thanks to the direct contact with VELP specialists and official partners. With VELP Ermes we can guide you to get the maximum from your instrument.



#### Safely Manage your Data

Collect and store your data with the maximum level of encryption and cyber-security standards. Generate and share reports of your analysis in multiple formats.



Effortlessly connect your instrument via secure Wi-Fi or cable and update the software immediately and free of charge.

## VELP ERMES SUBSCRIPTIONS

Configure your account and start enjoying all the services and capabilities of VELP Ermes and your instrument for free for 3 months. Decide later whether to extend your subscription with an Ermes Card for 1 and 3 years. Each Ermes Card allows you to connect up to 10 instruments in your company.



**3 MONTHS PER INSTRUMENT** 

Code E00010012

## **Magnetic Stirrers**

### MSL 50 Digital

High volume magnetic stirrer with digital display to accurately set the working conditions. Programmable operations with the integrated timer and auto-reverse. Main applications of MSL 50 Digital are high volumes preparations, cell cultures and tissue cultures, buffer solution preparations.

#### PRECISE AND PROGRAMMABLE

SpeedServo<sup>™</sup> technology maintains costant speed. Unattended stirring from 1 minute to 99 h 59 minutes.

#### **ROBUST AND VERSATILE**

The brushless motor provides continuous operation for high volumes at any speed. Robust stainless steel top for easy visualization of color changes and particles.







Timer &

Volume (H<sub>2</sub>O) 50 I

Stirring speed From 20 to 1000 rpm Auto-reverse

R Safety Lock



#### **INSTRUMENT** - CODE

MSL 50 Digital

100÷240 V / 50-60 Hz



### MSL 25 Digital

High volume magnetic stirrer with digital display to accurately set the working conditions. Programmable operations with the integrated timer and auto-reverse. Main applications of MSL 25 Digital are high volumes preparations, cell cultures and tissue cultures, buffer solution preparations.

#### PRECISE AND PROGRAMMABLE

SpeedServo<sup>™</sup> technology maintains costant speed. Unattended stirring from 1 minute to 99 h 59 minutes.

#### **ROBUST AND VERSATILE**

The brushless motor provides continuous operation for high volumes at any speed. Robust stainless steel top for easy visualization of color changes and particles.



25 L





From 40 to 1500 rpm

00:00

Timer &

Auto-reverse

8 Safety Lock



#### **INSTRUMENT** - CODE

MSL 25 Digital

100÷240 V / 50-60 Hz



### MSL 8 Digital

High volume magnetic stirrer with digital display to accurately set the working conditions. Programmable operations with the integrated timer and auto-reverse. Main applications of MSL 8 Digital are high volumes preparations, cell cultures and tissue cultures, buffer solution preparations.

#### PRECISE AND PROGRAMMABLE

SpeedServo™ technology maintains costant speed. Unattended stirring from 1 minute to 99 h 59 minutes.

#### **ROBUST AND VERSATILE**

The brushless motor provides continuous operation for high volumes at any speed. Robust stainless steel top for easy visualization of color changes and particles.

10:0







Volume (H<sub>2</sub>O) 8 L

Stirring speed From 40 to 1500 rpm Timer & Auto-reverse

Safety Lock



#### **INSTRUMENT** - CODE

MSL 8 Digital

100÷240 V / 50-60 Hz



### MSL 8

Magnetic stirrer guaranteeing continuous operations at any speed ensuring safety and resistance to chemical agents. MSL 8 has a gentle start in order to protect the sample. The control panel is protected from liquid spills.

#### PRECISE

SpeedServo<sup>™</sup> technology maintains costant speed.

#### **ROBUST AND VERSATILE**

The brushless motor provides continuous operation for high volumes at any speed. Robust stainless steel top for easy visualization of color changes and particles.







#### **INSTRUMENT** - CODE

100÷240 V / 50-60 Hz

F203A0513

### MST Digital

Compact magnetic stirrer with digital display with accurate speed setting, timer and auto-reverse. The white surface is designed to facilitate the visualization of particles and color change. MST Digital allows continuous operation and remains cold even after days of continuous use. Main applications in microbiology, biochemistry and chemistry.

#### PRECISE AND PROGRAMMABLE

SpeedServo<sup>™</sup> technology maintains costant speed. Unattended stirring from 1 to 900 minutes.

#### POWERFUL

Equipped with a powerful brushless motor.



5 L



Volume (H<sub>2</sub>O) Stirring speed Up to 1500 rpm

Timer & Auto-reverse





#### **INSTRUMENT** - CODE

MST Digital

100÷240 V / 50-60 Hz



### MST

Powerful and compact magnetic stirrer with a low profile. The white surface is designed to facilitate the visualization of particles and color change. MST Digital allows continuous operation and remains cold even after days of continuous use. Main applications in microbiology, biochemistry and chemistry.

#### RESISTANT

The technopolymer structure ensures maximum resistace to chemicals.



5 L





#### **INSTRUMENT** - CODE

MST

100÷240 V / 50-60 Hz



### MICROSTIRRER

Compact and light weight magnetic stirrer with metal structure for visualization of particles and color changes. Specially designed for microtitrations.

#### RELIABLE

It remains cold, even after days of continuous use and guarantees excellent speed control, even at low speed.



5 L





#### **INSTRUMENT** - CODE

MICROSTIRRER

100÷240 V / 50-60 Hz



### ■ ESP

Flat and light weight magnetic stirrer with no moving mechanical components: it is therefore maintenance-free. The clear surface is ideal for visualization of particles and color changes.

#### RESISTANT

The control panel is protected from liquid spills with run-off groove and the technopolymer casing resists chemicals.



Volume (H<sub>2</sub>O) 5 L





#### **INSTRUMENT** - CODE

ESP

100÷240 V / 50-60 Hz



### MULTISTIRRER 15 Digital

Multi position magnetic stirrer with stainless steel top for the simultaneous stirring of 15 positions. A bright digital display to accurately set the stirring speed, timer, and auto-reverse. Ideal for chemistry, microbiology, biochemistry applications.

#### PRECISE AND PROGRAMMABLE

SpeedServo™ technology maintains costant speed. Unattended stirring from 1 to 900 minutes.

#### RESISTANT

Stainless steel top plate. The control panel is shielded from liquid spills.







Volume (H<sub>2</sub>O) 250 ml (x15)

Stirring speed From 80 to 1500 rpm

Timer & Auto-reverse

00:00

Safety Lock



**INSTRUMENT** - CODE

**MULTISTIRRER 15 Digital** 

100÷240 V / 50-60 Hz



### MULTISTIRRER 6 Digital

Multi position magnetic stirrer with stainless steel top for the simultaneous stirring of 6 positions. A bright digital display to accurately set the stirring speed, timer, and auto-reverse. Ideal for chemistry, microbiology, biochemistry applications.

#### PRECISE AND PROGRAMMABLE

SpeedServo™ technology maintains costant speed. Unattended stirring from 1 to 900 minutes.

#### RESISTANT

Stainless steel top plate. The control panel is shielded from liquid spills.



Volume (H<sub>2</sub>O)

400 ml (x6)

Stirring speed From 80 to 1500 rpm



Timer &

Auto-reverse



Safety Lock



**INSTRUMENT** - CODE

**MULTISTIRRER 6 Digital** 

100÷240 V / 50-60 Hz



C=D

220

### MULTISTIRRER 15

Multi position magnetic stirrer with stainless steel top for the simultaneous stirring of 15 positions. Pale surface for visualization of particles and color changes. Remains cold, even after days of continuous use. Ideal for chemistry, microbiology, biochemistry applications.

#### PRECISE

SpeedServo<sup>™</sup> technology maintains costant speed.

#### RESISTANT

Stainless steel top plate. The control panel is shielded from liquid spills.



Stirring speed

Volume (H<sub>2</sub>O) 250 ml (x15) Stirring speed From 80 to 1500 rpm

#### **INSTRUMENT** - CODE

MULTISTIRRER 15

100÷240 V / 50-60 Hz

0-2



### MULTISTIRRER 6

Multi position magnetic stirrer with stainless steel top for the simultaneous stirring of 6 positions. Pale surface for visualization of particles and color changes. Remains cold, even after days of continuous use. Ideal for chemistry, microbiology, biochemistry applications.

#### PRECISE

SpeedServo™ technology maintains costant speed.

#### RESISTANT

Stainless steel top plate. The control panel is shielded from liquid spills.



Volume (H<sub>2</sub>O)

400 ml (x6)





#### **INSTRUMENT** - CODE

**MULTISTIRRER 6** 

100÷240 V / 50-60 Hz

F203A0177

### AMI

Illuminated magnetic stirrer particularly useful for titrations. The illuminated surface facilitates the visualization of particles and color changes. It guarantees excellent speed control (electronic), even at low speed.

#### RESISTANT

Epoxy-coated tough steel casing and stainless steal cover. The control panel is shielded from liquid spills

#### RELIABLE

It remains cold, even after days of continuous use and is equipped with a pale surface for visualization of particles and color changes.



5 L





#### **INSTRUMENT** - CODE

AMI

100÷240 V / 50-60 Hz



### AMI 4

Illuminated multi-position magnetic stirrer particularly useful for titrations. The illuminated surface facilitates the visualization of particles and color changes. It guarantees excellent speed control (electronic), even at low speed.

#### RESISTANT

Epoxy-coated tough steel casing and stainless steal cover. The control panel is shielded from liquid spills

#### RELIABLE

It remains cold, even after days of continuous use and is equipped with a pale surface for visualization of particles and color changes.





Volume (H<sub>2</sub>O) Stirring speed 5 L (x4) Up to 1100 rpm





#### **INSTRUMENT** - CODE

AMI 4

100÷240 V / 50-60 Hz



1

VELP

788

#### ACCESSORIES - MAGNETIC STIRRERS

788

100 VELP

|   | MST | MST<br>Digital | MICRO-<br>STIRRER | ESP | MSL 8 | MSL 8<br>Digital | MSL 25<br>Digital | MSL 50<br>Digital | АМІ | AMI 4 | MULTI-<br>STIRRER | MULTI-<br>STIRRER<br>Digital |
|---|-----|----------------|-------------------|-----|-------|------------------|-------------------|-------------------|-----|-------|-------------------|------------------------------|
| A00001057<br>Magnetic stir bar, Ø 6x20 mm                     | •   | •              | •                 |     |       |                  |                   |                   | •   | •     | •                 | •                            |
| A00001056<br>Magnetic stir bar, Ø 6x35 mm                     | •   | •              | •                 |     | •     | ٠                |                   |                   | •   | •     | •                 | •                            |
| <b>A00001061</b><br>Magnetic stir bar, Ø 9.5x60 mm            |     |                |                   |     |       |                  |                   | •                 |     |       |                   |                              |
| A00000356<br>Magnetic stir bar, Ø 8x40 mm                     |     |                |                   | •   | •     | •                |                   |                   |     |       |                   |                              |
| <b>A00000387</b><br>Magnetic stir bar, Ø 8x50 mm              |     |                |                   |     |       |                  | •                 |                   |     |       |                   |                              |
| A00001055<br>Thermostatic bath for samples,<br>280x180x410 mm |     |                |                   |     |       |                  |                   |                   |     |       | •                 | •                            |
| 10003083<br>Plug USA for power supply                         | •   | •              | •                 | •   | •     | •                | •                 | •                 | •   | •     | •                 | •                            |
| 10003084<br>Plug UK for power supply                          | •   | •              | •                 | •   | •     | •                | •                 | •                 | •   | •     | •                 | •                            |
| 10003085<br>Plug AU for power supply                          | •   | •              | •                 | •   | •     | •                | •                 | •                 | •   | •     | •                 | •                            |

# **Heating Magnetic Stirrers**

## AREX-6 Connect PRO

Digital hot plate stirrer that connects effortlessly to the VELP Ermes cloud platform via secure Wi-Fi allowing monitoring of and control of the reactions at any time. The white LED display and a set of icons provide precise settings and clear readout of the working conditions. The fast heating, 135 mm diameter CerAlTop™ plate protects from chemicals, scratches and enhances the lifetime of the unit.

#### SAFETY AND DURABILITY

Two independent safety circuits protect the instrument in case of over-temperature, switching-off the heating. IP42 certified.

#### STATE-OF-THE-ART THERMOREGULATION

Extremely stable and fast thermoregulation with minimal overshoot thanks to the PID thermoregulation software.

#### SUPERIOR PERFORMANCES

Brushless motor and Alnico Magnet provide state-of-the-art stirring performance.







Volume (H<sub>2</sub>O) 20 L

Stirring speed From 30 to 1700 rpm



8





Timer & Auto-reverse

External connection Pt 100 Probe

#### **CONFIGURATIONS** - AREX-6 Connect PRO

Safety Lock



#### **INSTRUMENT** - CODE

| AREX-6 Connect PRO with Temperature Probe                | 230 V/50-60 Hz | SA20500465 |
|--|----------------|------------|
| AREX-6 Connect PRO with Temperature Probe                | 115 V / 60 Hz  | SA20510465 |
| AREX-6 Connect PRO with Temperature Probe, Rod and Clamp | 230 V/50-60 Hz | SB20500465 |
| AREX-6 Connect PRO with Temperature Probe, Rod and Clamp | 115 V / 60 Hz  | SB20510465 |





ermes enabled

### AREX-6 Digital PRO

Digital hot plate stirrer with white LED display and a set of icons providing precise settings and clear readout of the working conditions. The fast heating, 135 mm diameter CerAlTop™ plate protects from chemicals, scratches and enhances the lifetime of the unit. Enhanced kinetics and programmable operations thanks to to integrated timer and auto-reverse.

00:00

Timer &

Auto-reverse

#### SAFETY AND DURABILITY

Two independent safety circuits protect the instrument in case of over-temperature, switching-off the heating. IP42 certified.

#### STATE-OF-THE-ART THERMOREGULATION

Extremely stable and fast thermoregulation with minimal overshoot thanks to the PID thermoregulation software.

#### SUPERIOR PERFORMANCES

Brushless motor and Alnico Magnet provide state-of-the-art stirring performance.



Volume (H<sub>2</sub>O)

20 L







Temperature range From room temperature to 370 °C



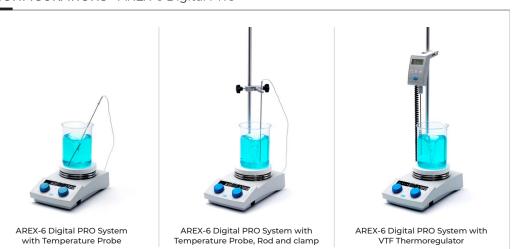


External connection VTF

#### **CONFIGURATIONS** - AREX-6 Digital PRO

External connection

Pt 100 Probe



| AREX-6 Digital PRO with Temperature Probe                | 230 V / 50-60 Hz | SA20500460 |
|--|------------------|------------|
| AREX-6 Digital PRO with Temperature Probe                | 115 V / 60 Hz    | SA20510460 |
| AREX-6 Digital PRO with Temperature Probe, Rod and Clamp | 230 V/50-60 Hz   | SD20500460 |
| AREX-6 Digital PRO with Temperature Probe, Rod and Clamp | 115 V / 60 Hz    | SD20510460 |
| AREX-6 Digital PRO with VTF                              | 230 V/50-60 Hz   | SB20500460 |
| AREX-6 Digital PRO with VTF                              | 115 V / 60 Hz    | SB20510460 |
|  |                  |            |



### AREX-6

Safe and powerful hot plate stirrer with 135 mm diameter CerAlTop™ plate that protects from chemicals, scratches and enhances the lifetime of the unit. Combinable with VTF for accurate thermoregulation of the sample ± 0.5 °C.

#### SAFETY AND DURABILITY

The illuminated heating switch on/off prevents unintentional heat up and the illuminated heat icon informs the operator when the top plate temperature is above  $50^{\circ}$ C.

#### SUPERIOR PERFORMANCES

Brushless motor and Alnico Magnet provide state-of-the-art stirring performance.





Volume (H<sub>2</sub>O) 20 L



Temperature range From room temperature to 370 °C





External connection VTF

#### **CONFIGURATIONS** - AREX-6



| AREX-6          | 230 V/50-60 Hz | F20500463  |
|-----------------|----------------|------------|
| AREX-6          | 115 V / 60 Hz  | F20510463  |
| AREX-6 with VTF | 230 V/50-60 Hz | SA20500463 |
| AREX-6 with VTF | 115 V / 60 Hz  | SA20510463 |
|                 |                |            |



### ARE-6

Safe and powerful hot plate stirrer with 135 mm diameter aluminium plate. Precise analog knobs to control speed and plate temperature with the maximum ease-of-use.

#### SAFETY AND DURABILITY

The illuminated heating switch on/off prevents unintentional heat up and the illuminated heat icon informs the operator when the top plate temperature is above 50  $^{\circ}$ C.

#### SUPERIOR PERFORMANCES

Brushless motor and Alnico Magnet provide state-of-the-art stirring performance.



Volume (H<sub>2</sub>O)

20 L





Temperature range

From room temperature to 370 °C



#### **INSTRUMENT** - CODE

| ARE-6 | 230 V/50-60 Hz | F20500462 |
|-------|----------------|-----------|
| ARE-6 | 115 V / 60 Hz  | F20510462 |

#### **ACCESSORIES** - ARE/AREX-6 Series

|  | AREX-6 CONNECT PRO | AREX-6 Digital PRO | AREX-6 | ARE-6 |
|--|--------------------|--------------------|--------|-------|
| A00001062<br>Magnetic stir bar, Ø 3x6 mm                 | •                  | •                  | •      | •     |
| A00001063<br>Magnetic stir bar, Ø 4,5x12 mm              | •                  | •                  | •      | •     |
| A00001057<br>Magnetic stir bar, Ø 6x20 mm                | •                  | •                  | •      | •     |
| A00001056<br>Magnetic stir bar, Ø 6x35 mm                | •                  | •                  | •      | •     |
| A00000356<br>Magnetic stir bar, Ø 8x40 mm                | •                  | •                  | •      | •     |
| A00001061<br>Magnetic stir bar, Ø 10x60 mm               | •                  | •                  | •      | •     |
| A00000336<br>Magnetic cross shape stir bar, Ø 10x5 mm    | •                  | •                  | •      | •     |
| A00000352<br>Magnetic cross shape stir bar, Ø 20x8 mm    | •                  | •                  | •      | •     |
| <b>A00000354</b><br>Magnetic disc stir bar, Ø 10x6 mm    | •                  | •                  | •      | •     |
| A00000355<br>Magnetic disc stir bar, Ø 20x10 mm          | •                  | •                  | •      | •     |
| A00000357<br>Magnetic octagonal stir bar, Ø10x13 mm      | •                  | •                  | •      | •     |
| <b>A00000268</b><br>Temperature Probe AISI 316 Ti Ø 3 mm | •                  | •                  |        |       |
| A00000349<br>Temperature probe glass-coated Ø 5 mm       | •                  | •                  |        |       |
| F208B0063<br>VTF Digital Thermoregulator                 |                    | •                  | •      |       |
| A0000382<br>Extension for support rod                    | •                  | •                  | •      | •     |
| A00000280<br>Clamp for the probe                         | •                  | •                  |        |       |
| A00000351<br>Handle for AluBlock removal                 | •                  | •                  | •      | •     |
| A00001069<br>Support rod                                 | •                  | •                  | •      | •     |
| E00010012<br>VELP Ermes 1 years Connection               | •                  |                    |        |       |
| E00010036<br>VELP Ermes 3 years Connection               | •                  |                    |        |       |

### AREX Digital PRO

Digital hot plate stirrer esuring precise settings and clear readout of the working conditions. The fast heating, 135 mm diameter CerAlTop™ plate protects from chemicals, scratches and enhances the lifetime of the unit.

#### SAFETY AND DURABILITY

The control panel is protected against possible damage caused by liquid spills thanks to a dedicated run-off groove. IP 42 certified.

#### PRECISE THERMOREGULATION

Excellent thermoregulation performance with Pt100 Probe and VTF.







Timer





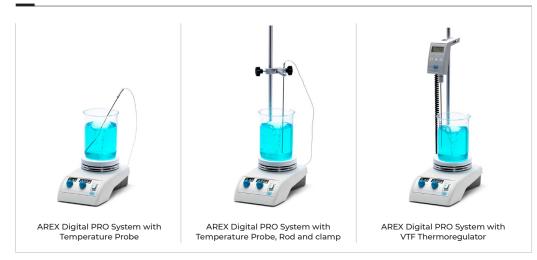


Temperature range From room temperature to 370 °C



#### **CONFIGURATIONS** - AREX Digital PRO

Pt 100 Probe



| AREX Digital PRO with Temperature Probe                | 230 V/50-60 Hz | SA20500410 |
|--|----------------|------------|
| AREX Digital PRO with Temperature Probe                | 115 V / 60 Hz  | SA20510410 |
| AREX Digital PRO with Temperature Probe, Rod and Clamp | 230 V/50-60 Hz | SC20500410 |
| AREX Digital PRO with Temperature Probe, Rod and Clamp | 115 V / 60 Hz  | SC20510410 |
| AREX Digital PRO with VTF                              | 230 V/50-60 Hz | SB20500410 |
| AREX Digital PRO with VTF                              | 115 V / 60 Hz  | SB20510410 |



### AREX

Reliable hot plate stirrer with 135 mm diameter CerAlTop™ plate that protects from chemicals, scratches and enhances the lifetime of the unit. Combinable with VTF for accurate thermoregulation of the sample ± 0.5 °C.

#### SAFETY AND DURABILITY

The control panel is protected against possible damage caused by liquid spills thanks to a dedicated run-off groove. IP 42 certified.

#### PRECISE THERMOREGULATION

Excellent thermoregulation performance with VTF.



Volume (H<sub>2</sub>O)

20 L

External connection VTF





Temperature range From room temperature to 370 °C



#### **CONFIGURATIONS** - AREX



| AREX          | 230 V/50-60 Hz | F20500413  |
|---------------|----------------|------------|
| AREX          | 115 V / 60 Hz  | F20510413  |
| AREX with VTF | 230 V/50-60 Hz | SA20500413 |
| AREX with VTF | 115 V / 60 Hz  | SA20510413 |



### ARE

Hot plate stirrer with SpeedServo™ that ensures constant speed even when the viscosity changes. ARE guarantees an excellent speed control and it is widely used in research and development, industrial and university laboratories worldwide.

#### DURABLE

The ARE is IP42 certified and thanks to the resistant die-cast housing and the run-off grove all the internal parts of the instrument are protected from potential damages.

#### RELIABLE

Aluminum alloy top plate (135 mm diameter) ensures a great temperature homogeneity and optimum heat transfer across the entire surface.



Volume (H<sub>2</sub>O) 15 L Up to 1500 rpm



Temperature range From room temperature to 370 °C



| ARE | 230 V / 50-60 Hz | F20500162 |
|-----|------------------|-----------|
| ARE | 115 V / 60 Hz    | F20510162 |
|     |                  |           |

#### **ACCESSORIES** - ARE-AREX Series

Stirring speed

|   | AREX Digital PRO | AREX | ARE |
|---|------------------|------|-----|
| A00001062<br>Magnetic stir bar, Ø 3x6 mm              | •                | •    | •   |
| A00001063<br>Magnetic stir bar, Ø 4,5x12 mm           | •                | •    | •   |
| A00001057<br>Magnetic stir bar, Ø 6x20 mm             | •                | •    | •   |
| A00001056<br>Magnetic stir bar, Ø 6x35 mm             | •                | •    | •   |
| A00000356<br>Magnetic stir bar, Ø 8x40 mm             | •                | •    | •   |
| <b>A00001061</b><br>Magnetic stir bar, Ø 10x60 mm     | •                | •    | •   |
| A00000336<br>Magnetic cross shape stir bar, Ø 10x5 mm | •                | •    | •   |
| A00000352<br>Magnetic cross shape stir bar, Ø 20x8 mm | •                | •    | •   |
| A00000354<br>Magnetic disc stir bar, Ø 10x6 mm        | •                | •    | •   |
| A00000268<br>Temperature Probe AISI 316 Ti Ø 3 mm     | •                |      |     |
| A00000349<br>Temperature probe glass-coated Ø 5 mm    | •                |      |     |
| F208B0063<br>VTF Digital Thermoregulator              | •                | •    |     |
| A00000382<br>Extension for support rod                | •                | •    | •   |
| A00000280<br>Clamp for the probe                      | •                | •    |     |
| A00000351<br>Handle for AluBlock removal              | •                | •    | •   |
| A00001069<br>Support rod                              | •                | •    | •   |

### AM4 Digital PRO

Multi-position digital magnetic stirrer to manage in parallel four heating plates independently, up to a volume of 20 L each. SpeedServo™ system ensures constant speed even when the viscosity changes. The 135 mm diameter CerAlTop™ plates, made of aluminum alloy coated with ceramic, ensures an outstanding temperature homogeneity over the entire surface, optimum resistance to chemical agents and easy cleaning.

#### SAFETY AND DURABILITY

The control panel is protected against possible damage caused by liquid spills.

#### PRECISE THERMOREGULATION

Excellent thermoregulation performance with Pt100 Probe and VTF.





20 L (x4)





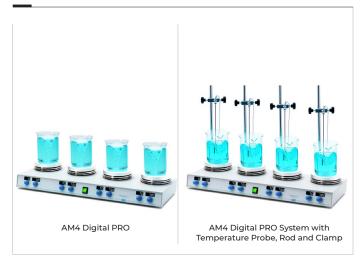
Stirring speed From 50 to 1500 rpm



External connection Pt 100 Probe

External connection VTF

#### **CONFIGURATIONS** - AM4 Digital PRO



| AM4 Digital PRO                                       | 230 V / 50-60 Hz | F20500425  |
|---|------------------|------------|
| AM4 Digital PRO with Temperature Probe, Rod and Clamp | 230 V / 50-60 Hz | SA20500425 |



### AM4

Multi-position hot plate stirrer with four separately controlled stirring plates (186 mm between them) that guarantees excellent speed control and resistance to chemicals. SpeedServo<sup>TM</sup> technology ensures constant speed even when the viscosity changes.

#### RELIABLE

Aluminum alloy top plate (135 mm diameter) ensures a great temperature homogeneity and optimum heat transfer across the entire surface.





15 L (x4)



Volume (H<sub>2</sub>O) Sti



Stirring speed Up to 1500 rpm

Temperature range From room temperature to 370 °C

#### **INSTRUMENT** - CODE

AM4





#### **ACCESSORIES** - AM4 Series

|  | AM4 Digital PRO | AM4 |
|--|-----------------|-----|
| A00001062<br>Magnetic stir bar, Ø 3x6 mm               | •               | •   |
| A00001063<br>Magnetic stir bar, Ø 4,5x12 mm            | •               | •   |
| A00001057<br>Magnetic stir bar, Ø 6x20 mm              | •               | •   |
| A00001056<br>Magnetic stir bar, Ø 6x35 mm              | •               | •   |
| A00000356<br>Magnetic stir bar, Ø 8x40 mm              | •               | •   |
| <b>A00001061</b><br>Magnetic stir bar, Ø 10x60 mm      | •               | •   |
| A00000336<br>Magnetic cross shape stir bar, Ø 10x5 mm  | •               |     |
| A00000352<br>Magnetic cross shape stir bar, Ø 20x8 mm  | •               | •   |
| A00000354<br>Magnetic disc stir bar, Ø 10x6 mm         | •               | •   |
| <b>A00000355</b><br>Magnetic disc stir bar, Ø 20x10 mm |                 |     |
| A00000268<br>Temperature Probe AISI 316 Ti Ø 3 mm      | •               |     |
| A00000349<br>Temperature probe glass-coated Ø 5 mm     | •               |     |
| F208B0063<br>VTF Digital Thermoregulator               | •               |     |
| A00000382<br>Extension for support rod                 | •               |     |
| A00000280<br>Clamp for the probe                       | •               |     |
| A00000351<br>Handle for AluBlock removal               | •               | •   |
| A00001069<br>Support rod                               | •               |     |

#### PTFE SAFETY COVER - ACCESSORIES

PTFE safety cover are designed to increase protection and reduce heat loss when working with round bottom flasks and VELP hemispheric bowls.

| PTFE Safety Cover Hemispheric Bowl 50 ml  | A00000342* | PTFE Safety Cover Hemispheric Bowl 500 ml | A00000345* |
|---|------------|---|------------|
| PTFE Safety Cover Hemispheric Bowl 100 ml | A00000343* | PTFE Safety Cover Hemispheric Bowl 100 ml | A00000346* |
| PTFE Safety Cover Hemispheric Bowl 250 ml | A00000344* | * not available in USA, Mexico and Canada |            |

#### HEMISPHERIC BOWLS™ - ACCESSORIES

The Hemispheric Bowls are the most suitable solution to replace oil baths and mantles in order to perform clean and safe analysis with round bottom flasks. VELP Hemispheric Bowl precisely fit the 135 mm diameter plate and the flask surface, ensuring the fastest heat transfer

|           | VOLUME |           | VOLUME |
|-----------|--------|-----------|--------|
| A00000373 | 25 ml  | A00000333 | 500 ml |
| A00000330 | 50 ml  | A00000334 | ۱L     |
| A00000331 | 100 ml | A00000374 | 3 L    |
| A00000332 | 250 ml | A00000375 | 5 L    |



#### ALUBLOCKS<sup>™</sup> - ACCESSORIES

The new MonoAluBlock™and MultiAluBlock™ permits to perform numerous reactions, reducing time and bench space also achieving the highest stirring and heating performances.

MonoAluBlock<sup>™</sup> are the ideal solution for all the application that require to stir multiple vials of the same dimensions. MultiAluBlock<sup>™</sup> consist of small combinable segments in order to accommodate different sizes of vials at the same time. The user can select the most suitable mix for his application

| MonoAl | uBlock™   | NUMBER OF PLACES | VOLUME (ml) | VIAL DIAMETER (mm) | HOLE DEPTH (mm) |
|--------|-----------|------------------|-------------|--------------------|-----------------|
|        | A00000340 | 17               | 40          | 28                 | 43              |
|        | A00000339 | 17               | 30          | 28                 | 30              |
|        | A00000338 | 17               | 20          | 28                 | 24              |
|        | A00000341 | 40               | 2           | 12                 | 14              |

| MultiAlu | ıBlock™   | NUMBER OF PLACES | VOLUME (ml) | VIAL DIAMETER (mm) | HOLE DEPTH (mm) |
|----------|-----------|------------------|-------------|--------------------|-----------------|
|          | A00000324 | 4                | 40          | 28                 | 43              |
|          | A00000325 | 4                | 30          | 28                 | 30              |
| 000      | A00000326 | 4                | 20          | 28                 | 24              |
|          | A00000327 | 4                | 16          | 21                 | 31              |
| <b>1</b> | A00000328 | 8                | 8           | 17                 | 26              |
|          | A00000329 | 11               | 4           | 15                 | 20              |
|          | A00000337 | 11               | 2           | 12                 | 74              |
|          | A00000323 | 1                | -           | -                  | -               |

### 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 microbiological, pharmaceutical, chemical and cosmetic laboratories requiring accuracy and efficiency.

#### OUTSTANDING PERFORMANCE

The brushless motors ensure longevity and guarantee powerful stirring. The cutting-edge heating plate technology ensures temperature homogeneity and stability up to 550 °C. The stirring volume of up to 20 L (H<sub>2</sub>O) wit excellent coupling.

#### PRECISE THERMOREGULATION

Excellent thermoregulation performance with Pt100 probe. Thermoregulation range from room temperature to 300 °C with 0.5 °C accuracy.

#### SAFE AND RESISTANT

The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals. Safe hot plate warnings when the plate temperature is above 50 °C. The Lock button to prevent unintentional changes

#### INTUITIVE AND EASY-TO-USE

Easy to operate digital interface with icons.



Volume (H<sub>2</sub>O)





Temperature range

From room temperature

to 550 °C



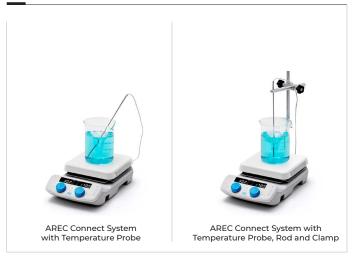
External connection Pt 100 Probe

ermes enabled

1700



#### **CONFIGURATIONS** - AREC Connect



#### **INSTRUMENT** - CODE

| AREC Connect with Temperature Probe                | 230 V / 50-60 Hz | SA20500550 |
|--|------------------|------------|
| AREC Connect with Temperature Probe                | 115 V / 60 Hz    | SA20510550 |
| AREC Connect with Temperature Probe, Rod and Clamp | 230 V / 50-60 Hz | SB20500550 |
| AREC Connect with Temperature Probe, Rod and Clamp | 115 V / 60 Hz    | SB20510550 |
| Included: Magnetic stir bar Ø 8x40 mm.             |                  |            |

### 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

The cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C. Stirring volume of up to 15 L ( $H_2O$ ).

#### PRECISE THERMOREGULATION

Optimum thermoregulation of the medium with Pt100 probe ( $\pm 1 \,^{\circ}$ C) and VTF Digital Thermoregulator ( $\pm 0.5 \,^{\circ}$ C). Thermoregulation range from room temperature to 250  $^{\circ}$ C.

#### SAFE AND RESISTANT

The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals. Safe hot plate warnings when the plate temperature is above 50 °C. The Run-off grove is designed to protect the electronics.







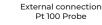
Volume (H₂O) 15 L

Stirring speed Up to 1500 rpm



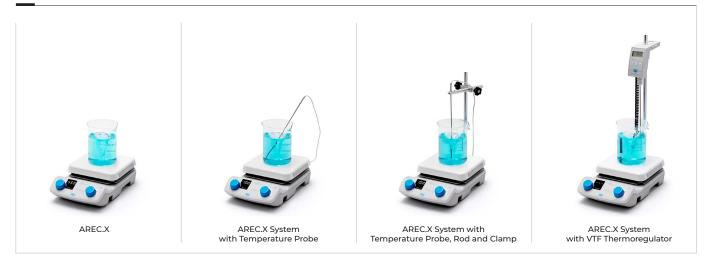
Temperature range From room temperature to 550 °C





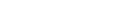


#### **CONFIGURATIONS** - AREC.X



#### **INSTRUMENT** - CODE

| AREC.X                                       | 230 V / 50-60 Hz | F20500554  |
|--|------------------|------------|
| AREC.X                                       | 115 V / 60 Hz    | F20510554  |
| AREC.X with Temperature Probe                | 230 V / 50-60 Hz | SA20500554 |
| AREC.X with Temperature Probe                | 115 V / 60 Hz    | SA20510554 |
| AREC.X with Temperature Probe, Rod and Clamp | 230 V / 50-60 Hz | SB20500554 |
| AREC.X with Temperature Probe, Rod and Clamp | 115 V / 60 Hz    | SB20510554 |
| AREC.X with VTF                              | 230 V / 50-60 Hz | SC20500554 |
| AREC.X with VTF                              | 115 V / 60 Hz    | SC20510554 |
| Included: Magnetic stir bar Ø 8x40 mm.       |                  |            |



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### 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 not requiring thermoregulation of the medium.

#### EXCELLENT PERFORMANCE

The cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 550 °C. Stirring volume of up to 15 L ( $H_2O$ ).

#### SAFE AND RESISTANT

The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals. Safe hot plate warnings when the plate temperature is above 50°C. The Run-off grove is designed to protect the electronics.



Volume (H<sub>2</sub>O)

15 I



Stirring speed

Up to 1500 rpm

Temperature range From room temperature to 550 °C

#### **INSTRUMENT** - CODE

| AREC | 230 V / 50-60 Hz | F20500551 |
|------|------------------|-----------|
| AREC | 115 V / 60 Hz    | F20510551 |
|      |                  |           |

Included: Magnetic stir bar Ø 8x40 mm.



### 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's chemistry and biology laboratories.

#### ENTRY LEVEL SOLUTION

The cutting-edge heating plate technology that ensures temperature homogeneity and stability from room temperature up to 400 °C. Stirring volume of up to 15 L ( $H_2O$ ).

#### SAFE AND RESISTANT

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



Volume (H<sub>2</sub>O)

15 L





Stirring speed Up to 1300 rpm



Temperature range From room temperature to 400 °C



| F20500552 | 230 V / 50-60 Hz | HSC |
|-----------|------------------|-----|
| F20510552 | 115 V / 60 Hz    | HSC |
|           |                  |     |



### ACCESSORIES - AREC & HSC

|   | AREC Connect | AREC.X | AREC | HSC |
|---|--------------|--------|------|-----|
| A00000273<br>Hemispheric bowl for 50 ml flasks            | •            | •      | •    |     |
| A00000258<br>Hemispheric bowl for 100 ml flasks           | •            | •      | •    | •   |
| A00001071<br>Hemispheric bowl for 250 ml flasks           | •            | •      | •    | •   |
| A00001072<br>Hemispheric bowl for 500 ml flasks           | •            | •      | •    | •   |
| A00001073<br>Hemispheric bowl for 1000 ml flasks          | •            | •      | •    |     |
| A00001056<br>Magnetic stir bar, Ø 6x35 mm                 | •            | •      | •    | •   |
| A00000356<br>Magnetic stir bar, Ø 8x40 mm                 | •            | •      | •    | •   |
| A00000387<br>Magnetic stir bar, Ø 8x50 mm                 | •            | •      | •    | •   |
| A00001061<br>Magnetic stir bar, Ø 10x60 mm                | •            | •      | •    | •   |
| A00000355<br>Magnetic disc stir bar Ø 20x10mm             | •            | •      | •    | •   |
| A00001069<br>Support rod                                  | •            | •      | •    | •   |
| A00000382<br>Extension for support rod                    | •            | •      | •    | •   |
| A00000280<br>Clamp for PT100 probe                        | •            | •      |      |     |
| A00000268<br>Temperature Probe AISI 316 Ti Ø3 mm          | •            | •      |      |     |
| <b>A00000349</b><br>Temperature Probe glass coated Ø 5 mm | •            | •      |      |     |
| F208B0063<br>VTF Digital Thermoregulator                  |              | •      |      |     |
| A00000421<br>IQ/OQ AREC Connect Manual                    | •            |        |      |     |
| E00010012<br>VELP Ermes 1 Year Connection                 | •            |        |      |     |
| E00010036<br>VELP Ermes 3 Years Connection                | •            |        |      |     |



### MULTI-HS 15 Digital

Digital multi-position magnetic stirrer with heating designed to guarantee excellent stirring and heating performance for application with 15 positions working under identical conditions. The MULTI-HS presents exclusive features such as timer, autoreverse, safety lock, SpeedServo™ technology and CerAlTop™ plate.

#### EXCELLENT PERFORMANCE

The brushless motors ensure longevity and guarantee constant speed in all positions.

#### SAFE AND PROGRAMMABLE

Safe hot plate warnings when the plate temperature is above 50 °C. Lock feature to prevent unintentional modifications. Unattended stirring from 1 minute to 99 h : 59 minutes.

#### EASY TO USE

Easy to operate digital interface with icons. An acoustic signal/sound informs you when the countdown is over.









Volume (H₂O) 250 ml (x15)

Stirring speed From 100 to 1000 rpm



Temperature range From room temperature to 120 °C



Timer & Auto-reverse

00:00



| MULTI-HS 15 Digital | 230 V / 50-60 Hz | F20500531 |
|---------------------|------------------|-----------|
| MULTI-HS 15 Digital | 115 V / 60 Hz    | F20510531 |
|                     |                  |           |



### MULTI-HS 6 Digital

Digital multi-position magnetic stirrer with heating designed to guarantee excellent stirring and heating performance for application with 6 positions working under identical conditions. The MULTI-HS presents exclusive features such as timer, autoreverse, safety lock, SpeedServo™ technology and CerAlTop™ plate.

#### EXCELLENT PERFORMANCE

The brushless motors ensure longevity and guarantee constant speed in all positions.

#### SAFE AND PROGRAMMABLE

Safe hot plate warnings when the plate temperature is above 50 °C. Lock feature to prevent unintentional modifications. Unattended stirring from 1 minute to 99 h : 59 minutes.

#### EASY TO USE

Easy to operate digital interface with icons. An acoustic signal/sound informs you when the countdown is over.

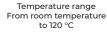






Volume (H<sub>2</sub>O) 400 ml (x6)

Stirring speed From 100 to 1000 rpm





Timer & Auto-reverse

00:00



#### **INSTRUMENT** - CODE

| MULTI-HS 6 Digital | 230 V / 50-60 Hz | F20500530 |
|--------------------|------------------|-----------|
| MULTI-HS 6 Digital | 115 V / 60 Hz    | F20510530 |
|                    |                  |           |

#### **ACCESSORIES** - MULTI-HS Series

|   | MULTI_HS 6 Digital |      | MULTI_HS 15 Digital |  |
|---|--------------------|------|---------------------|--|
| A00001056<br>Magnetic stir bar Ø6x35 mm |                    |      |                     |  |
| A00001057<br>Magnetic stir bar Ø6x20 mm |                    |      | •                   |  |
|   |                    | 1    | 5                   |  |
|   |                    |      |                     |  |
|   |                    |      |                     |  |
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|   |                    |      |                     |  |

#### Laboratory Equipment | Heating Magnetic Stirrers

### VTF

The VTF thermoregulator guarantees premium performance in terms of temperature control with an accuracy of  $\pm$  0.5 °C. It automatically adjusts the thermoregulation to different factors such as power, load and thermal dispersion.

#### EASY TO USE

The VTF is equipped with a unique and innovative integrated system to simplify installation on the support rod.



Temperature range From -10 °C to 300 °C

Timer From 0 minute to 24:59 hours



#### **INSTRUMENT** - CODE

VTF

12 V dc



#### ACCESSORIES - VTF

|  | VTF |
|--|-----|
| A0000001<br>Derivation element PW10    |     |
| A0000002<br>Probe extension cable, 1 m | •   |
| A0000003<br>Glass probe                | •   |
| A00000280<br>Clamp for Pt100 Probe     | •   |
| A00001069<br>Support rod               | •   |

## **Heating Plates**

### RC

Single-position heating plate with aluminum top and temperature regulation. It is designed for the longest lifespan and guarantees excellent resistance to chemicals. It accepts different combinations of AluBlocks™ that can maximize temperature control and save handling time.

#### SAFETY AND RESISTANCE

Control panel is protected from liquid spills with run-off groove. IP 42 Certified.

#### EASY TO USE AND UNIVERSAL

Inclined control panel for easy access and visibility. Choice of mains voltage/frequency model.



Volume (H<sub>2</sub>O)

15 L



Temperature range From room temperature to 370 °C



#### **INSTRUMENT** - CODE

| RC | 230 V / 50-60 Hz | F20700431 |
|----|------------------|-----------|
| RC | 115 V / 60 Hz    | F20710431 |
|    |                  |           |



Two-position heating plate with aluminum top and temperature regulation. It is designed for the longest lifespan and guarantees excellent resistance to chemicals. It accepts different combinations of AluBlocks™ that can maximize temperature control and save handling time.

#### SAFETY AND RESISTANCE

Control panel shielded against spillage



| RC2 | 230 V / 50-60 Hz | F20700430 |
|-----|------------------|-----------|
| RC2 | 115 V / 60 Hz    | F20710430 |
|     |                  |           |



### REC

The VELP REC is the laboratory digital heating plate with ceramic top ensuring high resistance to corrosion, and precise temperature setting.

#### SAFETY AND RESISTANCE

The high-quality ceramic top and technopolymer structure ensure premium resistance to chemicals. The Ceramic heating plate guarantees optimum heat transfer on the entire surface and resistance to chemicals.

#### EASY TO USE

The bright digital display guarantees a precise temperature setting and showing actual and setpoint temperature. The Hot Surface Safety message displayed when the temperature is above 50 °C.



Volume (H<sub>2</sub>O) 15 L

Temperature range From room temperature to 550 °C



| REC | 230 V / 50-60 Hz | F20700553 |
|-----|------------------|-----------|
| REC | 115 V / 60 Hz    | F20710553 |
|     |                  |           |

### ACCESSORIES - HEATING PLATES

|  | RC | RC2 | REC |
|--|----|-----|-----|
| A00000373<br>Hemispheric bowl for 25 ml flasks             | •  | •   |     |
| A00000330<br>Hemispheric bowl for 50 ml flasks             | •  | •   |     |
| A00000273<br>Hemispheric bowl for 50 ml flasks             |    |     | •   |
| A00000331<br>Hemispheric bowl for 100 ml flasks            | •  | •   |     |
| A00000258<br>Hemispheric bowl for 100 ml flasks            |    |     | •   |
| A00000332<br>Hemispheric bowl for 250 ml flasks            | •  | •   |     |
| A00001071<br>Hemispheric bowl for 250 ml flasks            |    |     |     |
| A00000333<br>Hemispheric bowl for 500 ml flasks            | •  | •   |     |
| A00001072<br>Hemispheric bowl for 500 ml flasks            |    |     | •   |
| A00001073<br>Hemispheric bowl for 1000 ml flasks           |    |     | •   |
| A00000334<br>Hemispheric bowl for 1000 ml flasks           | •  | •   |     |
| A00000374<br>Hemispheric bowl for 3 L flasks               | •  | •   |     |
| A00000375<br>Hemispheric bowl for 5 L flasks               | •  |     |     |
| <b>A00000323</b><br>MultiAluBlock™ Base Ø135 mm            | •  | •   |     |
| <b>A00000324</b><br>MultiAluBlock™, 4 pos. Ø 28 x h 43 mm  | •  | •   |     |
| <b>A00000325</b><br>MultiAluBlock™, 4 pos. Ø 28 x h 30 mm  | •  | •   |     |
| <b>A00000326</b><br>MultiAluBlock™, 4 pos. Ø 28 x h 24 mm  | •  | •   |     |
| <b>A00000327</b><br>MultiAluBlock™, 4 pos. Ø 21 x h 31 mm  | •  | •   |     |
| <b>A00000328</b><br>MultiAluBlock™, 8 pos. Ø 17 x h 26 mm  | •  |     |     |
| <b>A00000329</b><br>MultiAluBlock™, 11 pos. Ø 15 x h 20 mm | •  | •   |     |
| <b>A00000337</b><br>MultiAluBlock™, 11 pos. Ø 12 x h 14 mm | •  | •   |     |
| <b>A00000340</b><br>MonoAluBlock, 17 pos. Ø 28 x h 43 mm   | •  | •   |     |
| <b>A00000339</b><br>MonoAluBlock, 17 pos. Ø 28 x h 30 mm   | •  | •   |     |
| <b>A00000338</b><br>MonoAluBlock, 17 pos. Ø 28 x h 24 mm   | •  | •   |     |
| <b>A00000341</b><br>MonoAluBlock, 40 pos. Ø 12 x h 14 mm   | •  | •   |     |
| A00000342<br>PTFE Safety cover for bowl 50 ml              | •  | •   |     |
| A00000343<br>PTFE Safety cover for bowl 100 ml             | •  | •   |     |
| A00000344<br>PTFE Safety cover for bowl 250 ml             | •  | •   |     |
| A00000345<br>PTFE Safety cover for bowl 500 ml             | •  | •   |     |
| A00000346<br>PTFE Safety cover for bowl 1000 ml            | •  | •   |     |
| A00001069<br>Support rod                                   | •  | •   | •   |
| A00000382<br>Extension for support rod                     |    |     | •   |
| A00000351<br>Handle for AluBlock removal                   | •  | •   |     |
|  |    |     |     |

# **Overhead Stirrers**

### OHS 200 Advance

Powerful Wi-Fi Enabled Laboratory overhead stirrer with a TFT 3.5" Display that shows all setting information at a glance. Wi-Fi Connection to VELP Ermes Platform allows remote monitoring and control of operations in real-time. USB interface for use with optional PC software to data log, monitor, turn off/on. Pt100 probe included allowing real-time temperature monitoring.

#### CONSTANT TORQUE AT ANY SPEED

The powerful brushless motor and electronic control guarantee 200 Ncm torque (speed gear 1) at any speed. Double speed gear for an excellent performance for high volumes and high viscosities

#### EASY TO USE

Smartchuck™ system simplifies the shaft accommodation without tools and with one hand only.

#### SAFE AND RESISTANT

The resistant sealed housing guarantees durability in the most aggressive environments. IP 54 certified.















6

Volume (H<sub>2</sub>O) 1001

Viscosity Up to 100.000 mPa\*s

Torque GEAR 1: 200 Ncm GEAR 1: 6-400 rpm GEAR 2: 30-2000 rpm





#### ermes enabled

**INSTRUMENT - CODE** 

OHS 200 Advance

OHS 200 Advance

230 V / 50-60 Hz 115 V / 60 Hz

F20110480 

F20100480

### OHS 100 Advance

Powerful Wi-Fi Enabled Laboratory overhead stirrer with a TFT 3.5" Display that shows all setting information at a glance. Wi-Fi Connection to VELP Ermes Platform allows remote monitoring and control of operations in real-time. USB interface for use with optional PC software to data log, monitor, turn off/on. Pt100 probe included allowing real-time temperature monitoring.

#### CONSTANT TORQUE AT ANY SPEED

The powerful brushless motor and electronic control guarantee 100 Ncm torque at any speed.

#### EASY TO USE

Smartchuck™ system simplifies the shaft accommodation without tools and with one hand only.

#### SAFE AND RESISTANT

The resistant sealed housing guarantees durability in the most aggressive environments. IP 54 certified.



Volume (H<sub>2</sub>O)

100 L



Up to 70.000 mPa\*s



100 Ncm





Timer and

programmable methods







ermes enabled

#### **INSTRUMENT - CODE**

OHS 100 Advance 230 V / 50-60 Hz F20100481 OHS 100 Advance 115 V / 60 Hz F20110481







### OHS 60 Advance

Powerful Wi-Fi Enabled Laboratory overhead stirrer with a TFT 3.5" Display that shows all setting information at a glance. Wi-Fi Connection to VELP Ermes Platform allows remote monitoring and control of operations in real-time. USB interface for use with optional PC software to data log, monitor, turn off/on. Pt100 probe included allowing real-time temperature monitoring.

#### CONSTANT TORQUE AT ANY SPEED

The powerful brushless motor and electronic control guarantee 60 Ncm torque at any speed.

#### EASY TO USE

Smartchuck™ system simplifies the shaft accommodation without tools and with one hand only.

#### SAFE AND RESISTANT

The resistant sealed housing guarantees durability in the most aggressive environments. IP 54 certified.







60 Ncm









ermes enabled

#### Volume (H<sub>2</sub>O) 401

Viscosity Up to 50.000 mPa\*s



Stirring speed From 30 to 2000 rpm



#### **INSTRUMENT** - CODE

OHS 60 Advance

OHS 60 Advance





### OHS 200 Digital

Powerful overhead stirrer with digital display to precisely set stirring speed and timer. Dedicated 4 segment LED display showing the torque trend. Intuitive knob to navigate the menu and start stop operations.

#### CONSTANT TORQUE AT ANY SPEED

The powerful brushless motor and electronic control guarantee 200 Ncm torque (speed gear 1) at any speed. Double speed gear for an excellent performance for high volumes and high viscosities.

#### EASY TO USE

Smartchuck™ system simplifies the shaft accommodation without tools and with one hand only.

#### SAFE AND RESISTANT

The resistant sealed housing guarantees durability in the most aggressive environments. IP 54 certified.



100 L



Up to 100.000 mPa\*s



GEAR 1: 200 Ncm



GEAR 1: 6-400 rpm

GEAR 2: 30-2000 rpm



Timer





#### **INSTRUMENT - CODE**

| OHS 200 Digital | 230 V / 50-60 Hz | F20100490 |
|-----------------|------------------|-----------|
| OHS 200 Digital | 115 V / 60 Hz    | F20110490 |



#### Laboratory Equipment | Overhead Stirrers

### OHS 100 Digital

Powerful overhead stirrer with digital display to precisely set stirring speed and timer. Dedicated 4 segment LED display showing the torque trend. Intuitive knob to navigate the menu and start stop operations.

#### CONSTANT TORQUE AT ANY SPEED

The powerful brushless motor and electronic control guarantee 100 Ncm torque at any speed.

#### EASY TO USE

Smartchuck™ system simplifies the shaft accommodation without tools and with one hand only.

#### SAFE AND RESISTANT

The resistant sealed housing guarantees durability in the most aggressive environments. IP 54 certified.



Volume (H₂O)

100 L



Viscosity

Up to 70.000 mPa\*s



Torque

. 100 Ncm



From 30 to 1300 rpm



Safety Lock



#### **INSTRUMENT** - CODE

| OHS 100 Digital | 230 V/50-60 Hz | F20100491 |
|-----------------|----------------|-----------|
| OHS 100 Digital | 115 V / 60 Hz  | F20110491 |
|                 |                |           |

### OHS 60 Digital

Powerful overhead stirrer with digital display to precisely set stirring speed and timer. Dedicated 4 segment LED display showing the torque trend. Intuitive knob to navigate the menu and start stop operations.

#### CONSTANT TORQUE AT ANY SPEED

The powerful brushless motor and electronic control guarantee 60 Ncm torque at any speed.

#### EASY TO USE

Smartchuck™ system simplifies the shaft accommodation without tools and with one hand only.

#### SAFE AND RESISTANT

The resistant sealed housing guarantees durability in the most aggressive environments. IP 54 certified.

Torque

60 Ncm



Volume (H<sub>2</sub>O)

40 L





Up to 50.000 mPa\*s



From 30 to 2000 rpm



Timer





#### **INSTRUMENT** - CODE

 OHS 60 Digital
 230 V / 50-60 Hz
 F20100492

 OHS 60 Digital
 115 V / 60 Hz
 F20110492



### OHS 40 Digital

Powerful overhead stirrer with digital display to precisely set stirring speed and timer. Dedicated 4 segment LED display showing the torque trend. Intuitive knob to navigate the menu and start stop operations.

#### CONSTANT TORQUE AT ANY SPEED

The powerful brushless motor and electronic control guarantee 40 Ncm torgue at any speed.

#### EASY TO USE

Smartchuck™ system simplifies the shaft accommodation without tools and with one hand only.

#### SAFE AND RESISTANT

The resistant sealed housing guarantees durability in the most aggressive environments. IP 54 certified.



Volume (H₂O)

25 L



Viscosity

Up to 25.000 mPa\*s



40 Ncm



From 30 to 2000 rpm



Timer

R Safety Lock



#### **INSTRUMENT** - CODE

| OHS 40 Digital | 230 V / 50-60 Hz | F20100493 |
|----------------|------------------|-----------|
| OHS 40 Digital | 115 V / 60 Hz    | F20110493 |
|                |                  |           |

### OHS 20 Digital

Powerful overhead stirrer with digital display to precisely set stirring speed and timer. Dedicated 4 segment LED display showing the torque trend. Intuitive knob to navigate the menu and start stop operations.

#### CONSTANT TORQUE AT ANY SPEED

The powerful brushless motor and electronic control guarantee 20 Ncm torque at any speed.

#### EASY TO USE

Smartchuck™ system simplifies the shaft accommodation without tools and with one hand only.

#### SAFE AND RESISTANT

The resistant sealed housing guarantees durability in the most aggressive environments. IP 54 certified.



Volume (H<sub>2</sub>O)

25 L





Up to 10.000 mPa\*s

Torque

20 Ncm



From 30 to 2000 rpm



Timer





#### **INSTRUMENT** - CODE

| OHS 20 Digital | 230 V / 50-60 Hz | F20100494 |
|----------------|------------------|-----------|
| OHS 20 Digital | 115 V / 60 Hz    | F20110494 |



#### Laboratory Equipment | Overhead Stirrers

### DLH

Digital overhead stirrer suitable for all medium to high-viscosity mixing tasks. The bright display provides easy-to-read details of four important parameters: set speed, actual speed, torque and time.

#### SAFETY AND EASY TO USE

The DLH is an intuitive overhead stirrer ensuring safety with overload, over-current and overheating protection.

#### COMPACT AND LIGHTWEIGHT

The special technopolymer structure and the IP 40 Protection Rating guarantee chemical resistance and easy handling, being among the lightest overhead stirrer on the market.



Volume (H<sub>2</sub>O)

401













Up to 50.000 mPa\*s 80 Ncm

Stirring speed From 50 to 2000 rpm



#### **INSTRUMENT - CODE**

DLH

110-230 V / 50-60 Hz



#### DIS

Digital overhead stirrer suitable for all medium viscosity mixing tasks. The bright display provides easy-to-read details of four important parameters: set speed, actual speed, torque and time.

#### SAFETY AND EASY TO USE

The DLS is an intuitive overhead stirrer ensuring safety with overload, over-current and overheating protection.

40 Ncm

#### COMPACT AND LIGHTWEIGHT

The special technopolymer structure and the IP 40 Protection Rating guarantee chemical resistance and easy handling, being among the lightest overhead stirrer on the market.



Volume (H<sub>2</sub>O)

25 L









#### **INSTRUMENT** - CODE

DLS DLS - System

\* Universal H-Stand, Double Clamp, Stirring Shaft with Propeller included.

Up to 25.000 mPa\*s

Stirring speed From 50 to 2000 rpm



110-230 V / 50-60 Hz

110-230 V / 50-60 Hz



F201A0155

3 YEARS

SA201A0155\*

### PW

Laboratory overhead stirrer with analog control suitable for high viscosity mixing applications. Easy to install and to operate thanks to the hand-tightened chuck requiring no tools.

#### SAFETY AND EASY TO USE

The PW ensures safety with overload, over-current and overheating protection.

#### COMPACT AND LIGHTWEIGHT

The special technopolymer structure and the IP 40 Protection Rating guarantee chemical resistance and easy handling, being among the lightest overhead stirrer on the market.





Volume (H<sub>2</sub>O)

701



Viscosity

Up to 100.000 mPa\*s



Torque 120 Ncm



#### **INSTRUMENT** - CODE

PW

110-230 V / 50-60 Hz



#### ΙH

Laboratory overhead stirrer with analog control suitable for high viscosity mixing applications. Easy to install and to operate thanks to the hand-tightened chuck requiring no tools.

#### SAFETY AND EASY TO USE

The LH ensures safety with overload, over-current and overheating protection.

Toraue

80 Ncm

#### COMPACT AND LIGHTWEIGHT

The special technopolymer structure and the IP 40 Protection Rating guarantee chemical resistance and easy handling, being among the lightest overhead stirrer on the market.





Volume (H<sub>2</sub>O)

40 È





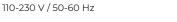
Viscositv Up to 50.000 mPa\*s





**INSTRUMENT** - CODE

LH





#### Laboratory Equipment | Overhead Stirrers

### LS

Laboratory overhead stirrer with analog control suitable for high viscosity mixing applications. Easy to install and to operate thanks to the hand-tightened chuck requiring no tools.

#### SAFETY AND EASY TO USE

The LS ensures safety with overload, over-current and overheating protection.

#### COMPACT AND LIGHTWEIGHT

The special technopolymer structure and the IP 40 Protection Rating guarantee chemical resistance and easy handling, being among the lightest overhead stirrer on the market.





Volume (H<sub>2</sub>O)

251



Up to 25,000 mPa\*s



40 Ncm

Stirring speed From 50 to 2000 rpm

#### **INSTRUMENT** - CODE

| LS   | 110-230 V / 50-60 Hz | F201A0151   |
|--|----------------------|-------------|
| LS - System  | 110-230 V / 50-60 Hz | SA201A0151* |
| * Universal H-Stand, Double Clamp, Stirring Shaft with Fixed Blade included. |                      |             |



Laboratory overhead stirrer with analog control suitable for low viscosity mixing applications. Easy to install and to operate thanks to the hand-tightened chuck requiring no tools.

#### SAFETY AND EASY TO USE

The ES ensures safety with overload, over-current and overheating protection.

#### COMPACT AND LIGHTWEIGHT

The special technopolymer structure and the IP 40 Protection Rating guarantee chemical resistance and easy handling, being among the lightest overhead stirrer on the market.





Volume (H<sub>2</sub>O)

15 L



Viscositv

Up to 1.000 mPa\*s



. 15 Ncm



Stirring speed From 50 to 1300 rpm





110-230 V / 50-60 Hz



#### ACCESSORIES - OVERHEAD STIRRERS

|  |             |             | 5   | DI G |    |    |    | 50 |
|--|-------------|-------------|-----|------|----|----|----|----|
|  | OHS Advance | OHS Digital | DLH | DLS  | PW | LH | LS | ES |
| A00001301<br>Double clamp                      | •           | •           | •   | •    | •  | •  | •  | •  |
| A00001302<br>Ribbon clamp                      | •           | •           | •   | •    | •  | •  | •  | •  |
| A00001312<br>Chuck guard OHS                   | •           | •           |     |      |    |    |    |    |
| A00000372<br>Support rod for probe             | •           |             |     |      |    |    |    |    |
| A00000002<br>Probe extension cable, length 1 m | •           |             |     |      |    |    |    |    |
| A0000003<br>Glass probe for VTF                | •           |             |     |      |    |    |    |    |
| TA00000394<br>Kit Pt100 probe XL for OHS       | •           |             |     |      |    |    |    |    |
| A00000381<br>IQ/OQ Manual OHS Digital          |             | •           |     |      |    |    |    |    |
| A00000380<br>IQ/OQ Manual OHS Advance          | •           |             |     |      |    |    |    |    |
| A00000391<br>OHS/ControllerSoft                | •           |             |     |      |    |    |    |    |
| E00010012<br>VELP Ermes 1 Year Connection      | •           |             |     |      |    |    |    |    |
| E00010036<br>VELP Ermes 3 Year Connection      | •           |             |     |      |    |    |    |    |

#### **STIRRING SHAFTS** - ACCESSORIES

VELP H-Stands are the ideal solution when the overhead stirrer is working on laboratory benches.

We have designed our H-Stand to guarantee the maximum stability thanks to the H-shape of the base and the maximum resistance choosing premium materials such as aluminum and stainless steel, properly treated in order to resist to chemicals and corrosion.

The Telescopic H-Stand facilitates the daily operations being easy-to-use when raising and lowering the overhead stirrer from your sample.



#### **STIRRING SHAFTS** - ACCESSORIES

Overhead stirrers require stirring shaft for precise working. Choosing the correct stirring shaft is an important step to obtain the best stirring performance.

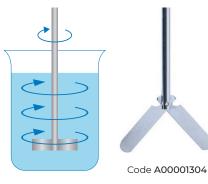
It is important to evaluate the characteristics and the effects on the fluid of the stirring shaft, together with the volume and viscosity:

STIRRING SHAFT WITH 6-HOLE PADDLE

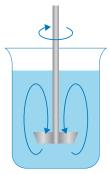
(L - M)

- Desired type of flow: Axial, Tangential, Radial;
- Speed range of your application.

STIRRING SHAFT WITH FLOATING BLADES (VL - L)

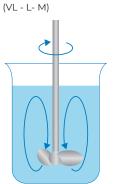


#### STIRRING SHAFT WITH TURBO PROPELLER (M - H)





#### STIRRING SHAFT WITH PROPELLER





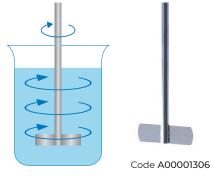
Code A00001307

### STIRRING SHAFT WITH FOLDING BLADE

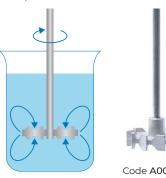
Code A00001308

# (VL - L) Code A00001305

STIRRING SHAFT WITH FIXED BLADE (VL - L- M)

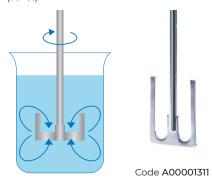


#### STIRRING SHAFT WITH TURBINE (M - H)





STIRRING SHAFT WITH ANCHOR (M - H)



#### VISCOSITY RANGE

| Viscosity Range |                  |
|-----------------|------------------|
| Very Low (VL)   | 0 - 100          |
| Low (L)         | 100 - 1,000      |
| Medium (M)      | 1,000 - 10,000   |
| High (H)        | 10,000 - 100,000 |

#### SAMPLE VISCOSITY

| Sample                | mPa*s |
|-----------------------|-------|
| Water                 | 1     |
| Kerosene              | 10    |
| Lubricating oil       | 100   |
| Castrol oil, Glycerin | 1,000 |

| Shampoo       | 3,000  | Choccolate syrup  | 25,000  |
|---------------|--------|-------------------|---------|
| Refined honey | 7,000  | Ketchup           | 50,000  |
| Body cream    | 8,000  | Toothpaste        | 70,000  |
| Honey         | 10,000 | Molasess, Asphalt | 100,000 |

### CONTROLLER Advance (not available in USA, Mexico and Canada)

Powerful and innovative solution designed to control brushless motors of Reaction Systems of up to 100 L volume. The Controller Advance features a TFT 3.5" Display that shows all setting information at a glance. Wi-Fi Connection to Velp Ermes Platform to monitor status and data logging on the cloud. USB interface for use with optional PC software to data log, monitor, turn off/on. USB also allow Software Updates.

- Timer for unattended operations
- Real time torque, speed and temperature graph monitoring
- Intuitive knob to navigate the menu and start stop operations
- Programmable methods to setup to 4 Time/Speed Ramps.



**INSTRUMENT** - CODE

Controller Advance

115-230 V / 50-60 Hz



IN

200

6

### CONTROLLER Digital (not available in USA, Mexico and Canada)

Powerful and innovative solution designed to control brushless motors of Reaction Systems of up to 100 L volume. The Controller Digital features a digital display to set the speed and a 4 segment LED display to monitor torque.

- Timer for unattended operations
- Intuitive knob to navigate the menu and start stop operations
- Clockwise and counterclockwise direction changes.



#### **INSTRUMENT** - CODE

Controller Digital

115-230 V / 50-60 Hz



#### 

#### ACCESSORIES - CONTROLLER

|  | CONTROLLER ADVANCE | CONTROLLER DIGITAL |
|--|--------------------|--------------------|
| A00000391<br>OHS/ControllerSoft                      | •                  |                    |
| <b>A00000394</b><br>Pt100 Probe XL Ø6 500mm          | •                  |                    |
| A00000415<br>Motor 10 lb*in, 471 rpm , 1/11 HP - 24V | •                  | •                  |
| A00000416<br>Motor 28 lb*in, 500 rpm , 1/11 HP - 24V | •                  | •                  |
| A00000417<br>Motor 55 lb*in, 250 rpm , 1/11 HP - 24V | •                  | •                  |
| E00010012<br>VELP Ermes 1 year Connection            | •                  |                    |
| E00010036<br>VELP Ermes 3 year Connection            | •                  |                    |

# **Vortex Mixers**

### Wizard IR

Vortex mixer featuring the highly innovative and patented IR technology to reduce repetitive strains. IR sensor and Continuous mode available. Large choice of complementary accessories to accommodate tubes, plates and flasks.

#### EXCLUSIVE ERGONOMICS

The VELP IR sensor uses an infrared system (IR) to detect the presence of the tube and automatically starts vibrating. No pressure is required to maintain vibration, drastically reducing arm stress.

#### STABLE AND ROBUST

Robust low profile design provides exceptional stability. The technopolymer housing and zinc base ensure optimum chemical resistance and excellent stability on the bench.





Stirring speed Up to 3000 rpm

Patented IR Sensor



#### **INSTRUMENT** - CODE

Wizard

100÷240 V / 50-60 Hz



### Classic

Compact vortex mixer suitable for different mixing requirements, with touch or continuous mode. It is highly resistant to chemicals and has 3 anti-slip rubber feet for stability.

#### ROBUST AND CONVENIENT

The IP 42 Protection Rating and the technopolymer casing guarantee good chemical resistance against particles and liquids. It uses universal voltage/frequency.

#### VERSATILE

Large choice of accessories to suit tubes, plates and flasks. Accessories fit by simple pressure.







100÷240 V / 50-60 Hz



### ■ TX4

Exclusive digital vortex mixer featuring the highly innovative and patented IR technology to reduce repetitive strains. The bright digital display ensures precision and reproducibility. The integrated timer allows programming the vortex for unattended operations. Large choice of complementary accessories to accommodate tubes, plates and flasks.

#### **EXCLUSIVE ERGONOMICS**

The VELP IR sensor uses an infrared system (IR) to detect the presence of the tube and automatically starts vibrating. No pressure is required to maintain vibration, drastically reducing arm stress.

#### STABLE AND ROBUST

The technopolymer housing and zinc base ensure optimum chemical resistance and excellent stability on the bench.





#### **INSTRUMENT - CODE**

TX4

100÷240 V / 50-60 Hz



### ■ 7X4

ZX4 Vortex mixer featuring the highly innovative and patented IR technology to reduce repetitive strains. IR sensor and Continuous mode available. Large choice of complementary accessories to accommodate tubes, plates and flasks.

#### EXCLUSIVE ERGONOMICS

The VELP IR sensor uses an infrared system (IR) to detect the presence of the tube and automatically starts vibrating. No pressure is required to maintain vibration, drastically reducing arm stress.

#### STABLE AND ROBUST

The technopolymer housing and zinc base ensure optimum chemical resistance and excellent stability on the bench.





Stirring speed Patented Up to 3000 rpm IR Sensor



#### **INSTRUMENT** - CODE

| ZX4   | 100÷240 V / 50-60 Hz                                  | F202A0280   |
|---|---|-------------|
| ZX4 and Foam Stands   | 80÷260 V / 50-60 Hz                                   | SA202A0280* |
| * Stand for 10 microvials Enpanderf 1 Eml. Ousternizable coff form to | an and Small rubbar curporting plate (2 50mm included |             |

Stand for 19 microvials Eppendorf 1,5 ml, Customizable soft foam top and Small rubber supporting plate Ø 50mm included



### ZX3

Reliable vortex mixer with adjustable stirring speed, touch or continuous mode. ZX3 features large, anti-slip rubber feet to ensure maximum stability. It is also highly resistant to chemicals.

#### ROBUST AND CONVENIENT

The IP 42 Protection Rating and the technopolymer casing guarantee good chemical resistance against particles and liquids. It uses universal voltage/frequency.

#### VERSATILE

Large choice of accessories to suit tubes, plates and flasks. Accessories fit by simple pressure.







#### **INSTRUMENT** - CODE

| ZX3  | 100÷240 V / 50-60 Hz                          | F202A0176   |
|--|---|-------------|
| ZX3 and Foam Stands  | 100÷240 V / 50-60 Hz                          | SA202A0176* |
| * Stand for 19 microvials Eppendorf 1,5 ml, Customizable soft foam top and S | Small rubber supporting plate Ø 50mm included |             |

### RX3

Basic vortex mixer with fixed stirring speed and touch mode. RX3 features large, anti-slip rubber feet to ensure maximum stability. It is also highly resistant to chemicals.

#### ROBUST AND CONVENIENT

The IP 42 Protection Rating and the technopolymer casing guarantee high-grade chemical resistance.





#### **INSTRUMENT** - CODE

100÷240 V / 50-60 Hz



#### ACCESSORIES - VORTEX MIXERS

|  | Wizard | Classic | TX4 | ZX4 | ZX3 | RX3 |
|--|--------|---------|-----|-----|-----|-----|
| A00000012<br>Foam stand for 19 microvials<br>Eppendorf, 1.5 ml | •      | •       | •   | •   | •   |     |
| A00000013<br>Customizable soft foam top                        | •      | •       | •   | •   | •   |     |
| A00000014<br>Foam stand for 5 test tubes<br>Ø 16 mm            | •      | •       | •   | •   | •   |     |
| A00000015<br>Foam stand for microtiter                         | •      | •       | •   | •   | •   |     |
| A00000016<br>Small rubber supporting plate<br>Ø 50 mm          | •      | •       | •   | •   | •   | •   |
| A00000017<br>Rubber supporting plate<br>Ø 94 mm                |        | •       |     |     | •   |     |
| A00000019<br>Foam stand for 4 tubes Ø 29 mm                    | •      | •       | •   | •   | •   |     |
| A00000389<br>Foam stand for 5 test-tubes<br>Ø 24 mm            | •      | •       | •   | •   | •   |     |
| 10002021<br>Mixing cup head                                    | •      | •       |     |     |     |     |
| 10005195<br>Mixing cup head                                    |        |         | •   | •   | •   | •   |
| A000003083<br>Plug USA for power supply                        | •      | •       | ٠   | ٠   | ٠   | •   |
| 10003084<br>Plug UK for power supply                           | •      | •       | •   | ٠   | •   | •   |
| 10003085<br>Plug AU for power supply                           | •      | •       | •   | •   | •   | •   |

#### ACCESSORIES - FOAM STAND

VELP vortex mixers can be connected to the dedicated platforms ensuring versatility for a variety of applications. VELP accessories are easy to fix on the vortex with a simple pressure and ensure excellent mixing performance of different types of tubes and containers.

#### CUSTOMIZABLE SOFT FOAM TOP Code A00000013



FOAM STAND FOR 4 TEST-TUBES Ø 29 mm Code A00000019



FOAM STAND FOR 5 TEST-TUBES Ø 16 mm Code A00000014



FOAM STAND FOR N° 19 MICROVIALS 1,5 ml Code A00000012



FOAM STAND FOR 5 TEST-TUBES Ø 24 mm Code A00000389



FOAM STAND FOR MICROTITER Code A00000015



### ■ MULTI-TX5

The MULTI-TX5 Digital is the exclusive solution for all the multi-tube mixing tasks, even the most challenging ones. The MULTI-TX5 Digital supports various foam racks for different vortexing tubes being an extremely versatile multi-tube vortex mixer to emulsify, disintegrate, mix, or homogenize samples.

#### SAFE AND PROGRAMMABLE

Lock feature to prevent unintentional modifications. Unattended stirring from 1 minute to 99 h : 59 minutes.

#### EASY TO USE

Easy to operate digital interface with icons. An acoustic signal/sound informs you when the countdown is over.

#### SIMPLIFIED OPERATION

With the MULTI-TX5 Digital you can perform any mixing tasks and then change the foam rack for your next application in just a few simple steps.





Stirring speed From 100 to 2500 rpm

**INSTRUMENT - CODE** 

MULTI-TX5 Digital Vortex

Timer & Auto-reverse





100÷240 V / 50-60 Hz

F202A0460

### ACCESSORIES - SAMPLE RACK

Various foam racks for vortexing tubes with different dimensions ensure premium versatility in the lab and make the MULTI-TX5 Digital ideal for a wide variety of mixing applications.

### SAMPLE RACK FOR TEST TUBE Ø 10 mm, 44 POSITIONS

Code A00000449



SAMPLE RACK FOR TEST TUBE Ø 16 mm, 44 POSITIONS

Code A00000452



SAMPLE RACK FOR TEST TUBE Ø 12 mm, 44 POSITIONS

Code A00000450



SAMPLE RACK FOR TEST TUBE Ø 25 mm, 14 POSITIONS

Code A00000453



SAMPLE RACK FOR TEST TUBE Ø 13 mm, 44 POSITIONS

Code A00000451



SAMPLE RACK FOR TEST TUBE Ø 29 mm, 14 POSITIONS

Code A00000454



# Homogenizer

### OV5

Versatile homogenizer ideal for dispersing, homogenizing and mixing biological tissues, pharmaceutical products, cosmetics and food products. Wide selection of rotors and stators to match the application.

#### ROBUST AND CONVENIENT

The stainless steel shafts, with PTFE seals, can be easily and quickly connected through a snap hook. OV5 has a smooth start and safety switch.

#### VERSATILE

OV5 has a wide selection of rotors and stators to match the application.





Volume (H<sub>2</sub>O) 8 L

Stirring speed Up to 3000 rpm

#### **OPTIONAL** - ACCESSORIES

| Stator rotor release kit    | A00000279 |
|-----------------------------|-----------|
| Double Rod Mini H-Stand Set | A00000383 |
| Double clamp                | A00001301 |
| Strap clamp                 | A00000044 |



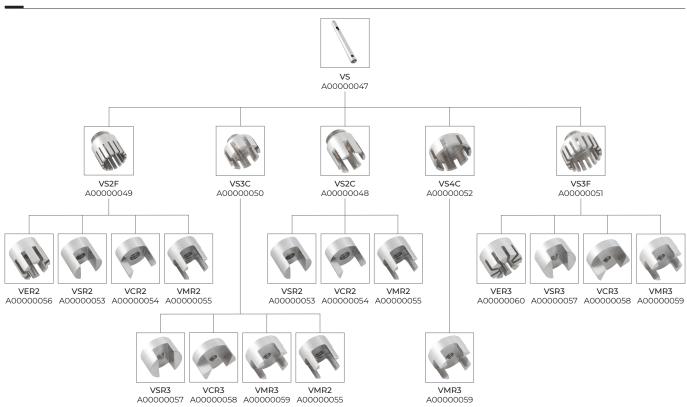
#### **INSTRUMENT** - CODE

| OV5  | 230 V / 50 Hz | R20900010   |
|--|---------------|-------------|
| OV5 - System   | 230 V / 50 Hz | SA20900010* |
| * Double Rod Mini H-Stand Set, VSS2CSR2 Dispersing tool included |               |             |

#### CHOOSE THE MOST SUITABLE DISPERSING TOOL - COMPOSITION



#### **POSSIBLE COMBINATIONS - COMPOSITION**



#### A STAND ALONE SOLUTION FOR A WIDE RANGE OF APPLICATIONS

OV5 Homogenizer is the right solution for dispersing, homogenizing and mixing biological tissue samples (cells, animal and vegetal tissues), pharmaceutical pro-ducts, cosmetics and food products. It is a versatile instrument: the same model of shaft suitable for all the applications and configurable with different models of rotor and stator, for the specific application of the customer.

#### **POSSIBLE COMBINATIONS - AVAILABLE CONFIGURATIONS**

|            |           |                        |          | Treatable      | Max circum. | Ø     | Ø      | Tool   | Min/max         | Ultimate fir |          |
|------------|-----------|------------------------|----------|----------------|-------------|-------|--------|--------|-----------------|--------------|----------|
|            | Code No   | Application field      | Function | volume (water) | speed       | Rotor | Stator | lenght | immersion depth | Suspension   |          |
| * VSS2CCR2 | A0000026  | CE, IF, PC, SI         | А        | 100-5000       | 22,7        | 15 mm | 20 mm  | 220 mm | 40/175 mm       | 10-50        | 1-10     |
| VSS2CCR2   | A0000027  | CT, IA, M, SI          | В        | 100-5000       | 22,7        | 15 mm | 20 mm  | 220 mm | 40/175 mm       | 10-50        | 1-10     |
| VSS2CMR2   | A0000028  | CE, VE                 | А        | 100-5000       | 22,7        | 15 mm | 20 mm  | 220 mm | 40/175 mm       | 10-50        | 1-10     |
| *VSS2FER2  | A0000029  | CT, IF, SI, VE         | С        | 100-5000       | 22,7        | 15 mm | 20 mm  | 220 mm | 40/175 mm       | 10-50        | 1-10     |
| VSS2FCR2   | A0000031  | BT, CT,IA, IT, M, SI   | В        | 100-5000       | 22,7        | 15 mm | 20 mm  | 220 mm | 40/175 mm       | 10-150       | 1-10     |
| VSS2FMR2   | A0000032  | CE, CT, IA, IC, PC, VE | А        | 100-5000       | 22,7        | 15 mm | 20 mm  | 220 mm | 40/175 mm       | 10-150       | 1-10     |
| *VSS3CSR3  | A0000033  | CT, IA, IF, M, SI      | А        | 100-8000       | 34,9        | 23 mm | 30 mm  | 220 mm | 40/175 mm       | 5-25         | 1-5      |
| VSS3CCR3   | A0000034  | CT, IA, IF, M, SI      | В        | 100-8000       | 34,9        | 23 mm | 30 mm  | 220 mm | 40/175 mm       | 5-25         | 1-5      |
| VSS3CMR3   | A0000035  | CE, VE                 | А        | 100-8000       | 34,9        | 23 mm | 30 mm  | 220 mm | 40/175 mm       | 5-25         | 1-5      |
| VSS3CMR2   | A0000036  | CE, IA, SI             | D        | 250-2000       | 34,9        | 15 mm | 30 mm  | 220 mm | 40/175 mm       | High spee    | ed mixer |
| *VSS3FER3  | A0000037  | CT, IF, SI, VE         | С        | 100-8000       | 34,9        | 23 mm | 30 mm  | 220 mm | 40/175 mm       | 5-25         | 1-5      |
| VSS3FSR3   | A0000038  | CT, IF, SI, VE         | А        | 100-8000       | 34,9        | 23 mm | 30 mm  | 220 mm | 40/175 mm       | 5-25         | 1-5      |
| VSS3FMR3   | A0000040  | CE, IA, IC, IF, IT     | А        | 100-8000       | 34,9        | 23 mm | 30 mm  | 220 mm | 40/175 mm       | 5-25         | 1-5      |
| *VSS4CMR3  | A00000041 | CE, IA, SI             | D        | 1000-4000      | 34,9        | 23 mm | 40 mm  | 220 mm | 40/175 mm       | High spee    | ed mixer |
| **VSS5CSR4 | A0000046  | BT, M                  | А        | 0,2-50         | 6,3         | 4 mm  | 5 mm   | 128 mm | 10/60 mm        | 10-50        | 1-10     |

Most used model

w.w The dispersing tool works with Ø 4 mm rotor and Ø 5 mm stator for microbiological applications (e.g. suitable for Eppendorf, cuvettes,etc.)

\*\*\*\* A = dispersing tool for solid/liquid media, B = dispersing tool with blades for fibrous/stringy materials, C = dispersing tool for water/oil or oil/water emulsions, D = stirring shaft

# **COD Thermoreactors**

### ECO 16

Thermoreactor with 16 positions (14 pos. with Ø 16 mm and 2 pos. Ø 22 mm) that provide easy and intuitive programming of both time and temperature. The unit automatically shuts down when the analysis time expires. The aluminum heating block offers optimum thermal conditions and a high level of homogeneity at all temperatures

#### INTUITIVE AND DIGITAL

ECO 16 ensures a simple and easy programming of time (from 1 to 199 minutes or continuous) and temperature (from ambient to 160 °C).

#### FAST AND SAFE

ECO 16 is suitable for performing a short time COD analysis, in only 30 minutes with a high thermoreaction temperature (160 °C). It has also the transparent test tube cover that offers a constant visual control.



10:0

Timer

Temperature range From room temperature to 160 °C

#### **INSTRUMENT** - CODE

| ECO | 16 |
|-----|----|
|     |    |

ECO 16



| ECO | 6 |
|-----|---|

Intuitive and digital 6-position thermoreactor for Chemical Oxygen Demand (COD) with settable temperature and timer (up to 199 minutes). The unit automatically shuts down when the analysis time expires. The aluminum heating block offers optimum thermal conditions and a high level of homogeneity at all temperatures

#### INTUITIVE AND DIGITAL

ECO 6 ensures a simple programming of time (from 1 to 199 minutes or continuous) and temperature (from ambient to 200 °C).

#### VERSATILE

ECO 6 COD Thermoreactor has been originally designed to support Ø 42 mm tubes processing up to 6 x 200 ml, but thanks to smart reducer it can be used with 18 small tubes of 16 mm or 6 x 22 mm too.



Temperature range From room temperature to 200 °C



Timer



F10100126 F10110126

> R YEAF

#### **INSTRUMENT - CODE**

ECO 6

ECO 6

230 V / 50-60 Hz 115 V / 50-60 Hz

230 V / 50-60 Hz

115 V / 50-60 Hz

#### F10100120 F10110120

### ■ ECO 25

Thermoreactor with 25 positions for Ø16mm vials that provide easy and intuitive programming of both time and temperature. The unit automatically shuts down when the analysis time expires. The aluminum heating block offers optimum thermal conditions and a high level of homogeneity at all temperatures

#### INTUITIVE AND DIGITAL

ECO 25 ensure a simple programming of time, selectable between four different options (30, 60, 120 minutes or continuous) and five temperatures (70, 100, 120, 150 and 160  $^{\circ}$ C).

#### SAFE

ECO 25 have a transparent test tube cover and various temperature safety features. The test tube extractor simplifies tubes handling.





Timer

Temperature range 70, 100, 120, 150 & 160

#### **INSTRUMENT** - CODE

ECO 25

115-230 V / 50-60 Hz



### ECO 8

Thermoreactor with 8 positions for Ø16mm vials (plus 1 for Ø22mm vials) providing easy and intuitive programming of both time and temperature. The unit automatically shuts down when the analysis time expires. The aluminum heating block offers optimum thermal conditions and a high level of homogeneity at all temperatures

#### INTUITIVE AND DIGITAL

ECO 8 ensure a simple programming of time, selectable between four different options (30, 60, 120 minutes or continuous) and five temperatures (70, 100, 120, 150 and 160  $^{\circ}$ C).

#### SAFE

ECO 8 have a transparent test tube cover and various temperature safety features.





Temperature range 70, 100, 120, 150 & 160





#### **INSTRUMENT** - CODE

115-230 V / 50-60 Hz



#### ACCESSORIES - COD THERMOREACTORS

|   | ECO 6 | ECO 16 | ECO 8 | ECO 25 |
|---|-------|--------|-------|--------|
| A00000145<br>COD test tubes Ø 42x200 mm, 200 ml with cone NS 29/32,<br>3 pcs/box                            | •     |        |       |        |
| A00001041<br>Air condenser with ground cone   | •     |        |       |        |
| A00001042<br>PTFE sheaths for 29/32 cones   | •     |        |       |        |
| A00001043<br>Stainless steel handle for moving 6 test tubes Ø 42 mm<br>simultaneously                       | •     |        |       |        |
| A00001045<br>Antisplash bell  | •     |        |       |        |
| A00000362<br>Adapter for probe Ø 3 mm   | •     | •      | ٠     | •      |
| A00001044<br>Anticorodal reducer Ø 42 mm with 3 holes Ø 16 mm   | •     |        |       |        |
| A00001046<br>Articorodal reducer Ø 42 mm with 1 hole Ø 22 mm  | •     |        |       |        |
| A00001051<br>Safety shield  |       | •      |       |        |
| A00001039<br>ECO 25 Test tube extractor   |       |        |       | •      |
| 1000002<br>Absorption attachment for condenser NS 29/32 for<br>sludge analysis                              |       | •      | •     | •      |
| CA0091636<br>Holder for 12 round glass cells  |       | •      | •     | •      |
| CA0091666<br>Test tube for sample decomposition Ø 22mm, NS 19/26<br>cone with glass cap for sludge analysis |       | •      | •     | •      |
| CA0091667<br>Condenser 200 mm type KS with 3-meter polythylene<br>tube for sludge analysis                  |       | •      | •     | •      |
| CM0091680<br>Set of 20 glass test tubes with internal Ø 14 mm and<br>external Ø 16 mm                       |       | •      | •     | •      |

# **BOD and Respirometers**

### RESPIROMETRIC Sensor System 6 BOD

The RESPIROMETRIC Sensor System BOD is designed to be a versatile solution with minimum footprint for aerobic degradation tests for Industrial and Domestic water quality testing.

- Ideal for: BOD5, BOD7, BOD Ultimate, Assessment of disinfection on BOD.
- Biodegradation of monomers application to study the microbial activities involved in the production of plastics.
- Results reading in Pressure (millibar) and BOD (mg/l).
- Easy-to-use and powerful sensor with 4 digit LED Display.
- Unique wireless control from your PC and VELP Ermes cloud platform.



ĺ

Wireless DataBox™ and RESPIROSoft™

BOD Scales 90, 250, 600, 999, 4000 ppm



#### ermes enabled

| <b>INSTRUMENT</b> - | CODE |
|---------------------|------|
|---------------------|------|

| RESPIROMETRIC Sensor System 6                          | 230 V / 50-60 Hz | SA10200146 |
|--|------------------|------------|
| RESPIROMETRIC Sensor System 6                          | 115 V / 60 Hz    | SA10210146 |
| RESPIROMETRIC Sensor System 6 no Databox <sup>TM</sup> | 230 V / 50-60 Hz | SB10200146 |
| RESPIROMETRIC Sensor System 6 no Databox™              | 115 V / 60 Hz    | SB10210146 |
|  |                  |            |

Included in the system: Stirring station, 500 ml amber bottles, KOH containers, stirring bars, DataBox™ and RESPIROSoft™ software.

### RESPIROMETRIC Sensor System 6 Maxi BMP

The RESPIROMETRIC Sensor System Maxi BMP is designed to support anaerobic respiration studies to determine the Biochemical Methane Potential (BMP) of biomass. The BMP analysis studies the production of biogas from organic wastes mainly for Waste and Wastewater treatment and for Renewable Energy Production.

- Results reading in Pressure (millibar) and automatic conversion in BMP value (NmLCH4/gSV)
- The system is suitable also for other anaerobic studies such as Denitrification Tests (Requires 6 Denitrification glass bottles A00000410).
- Easy-to-use and powerful sensor with 4 digit LED Display.
- Unique wireless control from your PC and VELP Ermes cloud platform.



Wireless DataBox™ and RESPIROSoft™



#### **INSTRUMENT** - CODE

| DESDIDOMETRIC Songer System & Maxi             | 230 V / 50-60 Hz | SA10200156 |
|--|------------------|------------|
| RESPIROMETRIC Sensor System 6 Maxi             | 230 V / 50-60 Hz | SA10200156 |
| RESPIROMETRIC Sensor System 6 Maxi             | 115 V / 60 Hz    | SA10210156 |
| RESPIROMETRIC Sensor System 6 Maxi no Databox™ | 230 V / 50-60 Hz | SB10200156 |
| RESPIROMETRIC Sensor System 6 Maxi no Databox™ | 115 V / 60 Hz    | SB10210156 |
|  |                  |            |

Included in the system: Maxi stirring station, 1000 ml bottles, KOH containers, stirring bars, DataBox™ and RESPIROSoft™ software.

YEARS

### RESPIROMETRIC Sensor System 6 for Soil Analysis

The RESPIROMETRIC Sensor System for soil analysis is designed to support aerobic degradation tests on soil and compost. The analysis provides microbial soil respiration results from the mineralization of organic substances. A major application of these test is related to the detection and monitoring processes during decontaminations and clean-ups.

- The analysis is carried out directly on soil/compost in the 1000ml flask.
- Results reading in Pressure values (millibar).
- Easy-to-use and powerful sensor with 4 digit LED Display.
- Unique wireless control from your PC and VELP Ermes cloud platform.



Wireless DataBox™ and RESPIROSoft™



#### **INSTRUMENT** - CODE

| RESPIROMETRIC Sensor System for Soil Analysis                                     | - | SA102B0176 |
|---|---|------------|
| RESPIROMETRIC Sensor System for Soil Analysis no Databox™                         | - | SB102B0176 |
| Included in the system: 6 Kits soil analysis, DataBox™ and RESPIROSoft™ software. |   | 3 YEARS    |

### RESPIROMETRIC Sensor System 6 for Plastic Biodegradability

The RESPIROMETRIC Sensor System for plastic biodegradability is designed to support aerobic degradation test for the determination of the degree of aerobic biodegradability of plastic materials, including those containing formulation additives, in an aqueous medium.

- Multistirrer Digital 6-positions to precisely set stirring speed and enable the lock feature to avoid unintentional modification of the stirring speed.
- Results reading in Pressure values (millibar).
- Easy-to-use and powerful sensor with 4 digit LED Display.
- Unique wireless control from your PC and VELP Ermes cloud platform.



#### **INSTRUMENT** - CODE

Wireless DataBox™ and RESPIROSoft™

| RESPIROMETRIC Sensor System for Plastic Biodegradability             | 100-240 V / 50-60Hz | SA102A0166 |
|--|---------------------|------------|
| RESPIROMETRIC Sensor System for Plastic Biodegradability no Databox™ | 100-240 V / 50-60Hz | SB102A0166 |

Included in the system: Multistirrer Digital 6-positions, 6 Kits plastic biodegradability analysis, stirring bars, DataBox™ and RESPIROSoft™ software.



#### Laboratory Equipment | BOD and Respirometers

### BOD Sensor

Innovative, mercury-free and extremely reliable solution for BOD analysis. The 6 and 10 position systems include the BOD sensors, stirring station, stirring bars and KOH traps.

#### PRECISE AND EASY TO USE

It can measure on scales of 90, 250, 600 and 999 ppm BOD.

#### SAFE

The IP 54 Protection Rating guarantee durability even in the most aggressive environments. Class 3 IEC 1010 conformity.

#### COMPACT DESIGN

BOD System 6 is designed to optimize space consumption inside cooled incubators.



#### **INSTRUMENT** - CODE

| BOD Sensor     | - | F102B0133 |
|----------------|---|-----------|
| BOD Sensor Set | - | F102B0134 |
|                |   | 3 YEARS   |

### BOD Sensor System 6

Innovative, mercury-free and extremely reliable solution for BOD analysis. The 6 and 10 position systems include the BOD sensors, stirring station, stirring bars and KOH traps.

#### PRECISE AND EASY TO USE

It can measure on scales of 90, 250, 600, 999 and 4000 ppm BOD.

#### SAFE

The IP 54 Protection Rating guarantee durability even in the most aggressive environments. Class 3 IEC 1010 conformity.

#### COMPACT DESIGN

BOD Sensor System 6 is designed to optimize space consumption inside cooled incubators.



#### **INSTRUMENT** - CODE

BOD Scales 90, 250, 600, 999, 4000 ppm

| BOD Sensor System 6   | 230 V / 50-60 Hz                             | SA10200136 |
|---|--|------------|
| BOD Sensor System 6   | 115 V / 60 Hz                                | SA10210136 |
| Included in the system: Stirring station 6 positions, BOD Sensor, 500 ml ar | mber bottles, KOH containers, stirring bars. | 3 YEARS    |

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### BOD Sensor System 10

The VELP RESPIROMETRIC Sensor is designed to provide a smart and cloudenabled solution to laboratories of water and wastewater quality control, biological waste treatment plants, renewable energy production end environmental labs studying the effects of plastic and other pollutants in water and soils.

#### PRECISE AND CONVENIENT

It can measure on scales of 90, 250, 600, 999 and 4000 ppm BOD.

#### COMPACT DESIGN

BOD Sensor System 10 is designed to optimize space consumption inside cooled incubators.





BOD Scales 90, 250, 600, 999, 4000 ppm

#### **INSTRUMENT** - CODE

| BOD Sensor System 10 | 230 V / 50-60 Hz | SA10200137 |
|----------------------|------------------|------------|
| BOD Sensor System 10 | 115 V / 60 Hz    | SA10210137 |

Included in the system: Stirring station 10 positions, BOD Sensor, 500 ml amber bottles, KOH containers, stirring bars.

#### ACCESSORIES - BOD AND RESPIROMETERS

|   | RESPIROMETRIC<br>Sensor System 6<br>BOD | RESPIROMETRIC<br>Sensor System 6 Maxi<br>BMP | RESPIROMETRIC<br>Sensor System 6<br>for Soil Analysis | RESPIROMETRIC<br>Sensor System 6<br>for Plastic Biodegradability | BOD Sensor System |
|---|---|--|---|--|-------------------|
| A00000135<br>Sensor Check                     | •                                       | •  | •   | •  | •                 |
| A00000136<br>Control Test Tablets, 10 pcs/box | •                                       | •  | •   | •  | •                 |
| A00000221<br>Multi-socket extension cable EU  | •                                       | •  |   | •  |                   |
| A00000222<br>Multi-socket extension cable UK  | •                                       | •  |   | •  | •                 |
| A00000223<br>Multi-socket extension cable AU  | •                                       | •  |   | •  |                   |
| 10003083<br>Plug USA for power supply         | •                                       | •  |   | •  | •                 |
| 10003084<br>Plug UK for power supply          | •                                       | •  |   | •  | •                 |
| 10003085<br>Plug AU for power supply          | •                                       | •  |   | •  | •                 |
| A00000410<br>Denitrification glass bottle     |   | •  |   |  |                   |
| E00010012<br>VELP Ermes 1 year Connection     | •                                       | •  | •   | •  |                   |
| E00010036<br>VELP Ermes 3 year Connection     | •                                       | •  | •   | •  |                   |

# **Cooled Incubators**

### ■ FOC 2001L Connect (not available in USA, Mexico and Canada)

FOC 200IL Connect is the cloud-enabled iluminated cooled incubator ideal for plant growth, seed germination, cultivation, breeding of plants, insects and small animals, bacteria culturing, fermentation studies.

#### CONVENIENT AND EFFICIENT

FOC 200IL Connect is equipped with 2 lighted shelves and an internal transparent door. Cooling system in A+ class energy rate.

#### **EFFICIENT THERMOREGULATION**

FOC 200IL Connect guarantees a perfect thermoregulation and stability thanks to the Auto-Tuning system. The use of forced ventilation uniforms the internal temperature.

#### **EXCLUSIVE CONNECTVITY**

Premium Wi-Fi connectivity to VELP Ermes Cloud Platform. TEMPSoft™ software with 485 cable connection to constant monitor the instrument. MODBUS communications for PLC connection.





technology ± 0.5°C



Total volume Temperature range 1691

From 3 to 50 °C

Timer Lighting Cycles

#### **INSTRUMENT - CODE**

FOC 200IL Connect

\* The cooled incubator is supplied with 2 shelves 40002722 and 1 shelf 10008039

### ■ FOC 2001 Connect (not available in USA, Mexico and Canada)

FOC 2001 Connect is the cloud-enabled cooled incubator with internal transparent door ensuring excellent temperature stability and homogeneity.

#### CONVENIENT AND EFFICIENT

FOC 2001 Connect is equipped with an internal trasnparent door allowing sample monitoring with no temperature alteration. Cooling system in A+ class energy rate.

#### **EFFICIENT THERMOREGULATION**

FOC 200I Connect guarantees a perfect thermoregulation and stability thanks to the Auto-Tuning system. The use of forced ventilation uniforms the internal temperature.

#### EXCLUSIVE CONNECTVITY

Premium Wi-Fi connectivity to VELP Ermes Cloud Platform. TEMPSoft™ software with 485 cable connection to constant monitor the instrument. MODBUS communications for PLC connection.



Total volume

169 L





technology ± 0.5°C



230 V / 50-60 Hz





#### ermes enabled

**INSTRUMENT - CODE** 

FOC 200I Connect

\* The cooled incubator is supplied with 3 shelves 10008039

From 3 to 50 °C



### ■ FOC 200E Connect (not available in USA, Mexico and Canada)

FOC 200E Connect is the cloud-enabled cooled incubator ensuring excellent temperature stability and homogeneity.

#### CONVENIENT AND EFFICIENT

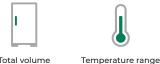
FOC 200E Connect is asy to use thanks to the intuitive digital interface. Cooling system in A+ class energy rate.

#### **EFFICIENT THERMOREGULATION**

FOC 200E Connect guarantees a perfect thermoregulation and stability thanks to the Auto-Tuning system. The use of forced ventilation uniforms the internal temperature.

#### EXCLUSIVE CONNECTVITY

Premium Wi-Fi connectivity to VELP Ermes Cloud Platform. TEMPSoft™ software with 485 cable connection to constant monitor the instrument. MODBUS communications for PLC connection.





Total volume 1691

From 3 to 50 °C

Auto-Tuning technology ± 0.5°C

#### **INSTRUMENT - CODE**

FOC 200F Connect

\* The cooled incubator is supplied with 3 shelves 10008039



230 V / 50-60 Hz

C



ermes enabled

### ■ FOC 1201 Connect (not available in USA, Mexico and Canada)

FOC 120I Connect is the cloud-enabled cooled incubator with internal transparent door ensuring excellent temperature stability and homogeneity.

#### CONVENIENT AND EFFICIENT

FOC 120I Connect is equipped with an internal trasnparent door allowing sample monitoring with no temperature alteration. Cooling system in A+ class energy rate.

#### **EFFICIENT THERMOREGULATION**

FOC 120I Connect guarantees a perfect thermoregulation and stability thanks to the Auto-Tuning system. The use of forced ventilation uniforms the internal temperature.

#### EXCLUSIVE CONNECTVITY

Premium Wi-Fi connectivity to VELP Ermes Cloud Platform. TEMPSoft™ software with 485 cable connection to constant monitor the instrument. MODBUS communications for PLC connection.



Total volume

109 L



Auto-Tuning From 3 to 50 °C technology ± 0.5°C



#### ermes enabled

#### **INSTRUMENT - CODE**

FOC 1201 Connect

\* The cooled incubator is supplied with 2 shelves





### ■ FOC 120E Connect (not available in USA, Mexico and Canada)

FOC 120E Connect is the cloud-enabled cooled incubator ensuring excellent temperature stability and homogeneity.

#### CONVENIENT AND EFFICIENT

FOC 120E Connect is asy to use thanks to the intuitive digital interface. Cooling system in A+ class energy rate.

#### EFFICIENT THERMOREGULATION

FOC 120E Connect guarantees a perfect thermoregulation and stability thanks to the Auto-Tuning system. The use of forced ventilation uniforms the internal temperature.

#### EXCLUSIVE CONNECTVITY

Premium Wi-Fi connectivity to VELP Ermes Cloud Platform. TEMPSoft<sup>TM</sup> software with 485 cable connection to constant monitor the instrument. MODBUS communications for PLC connection.



Auto-Tuning technology ± 0.5°C

#### **INSTRUMENT** - CODE

FOC 120E Connect

\* The cooled incubator is supplied with 2 shelves



#### ermes enabled

230 V / 50-60 Hz



### ■ FTC 120 (not available in USA, Mexico and Canada)

Compact and efficient incubator specially designed for BOD respirometric measurement ensuring a costant 20°C temperature. FTC 120 is equipped with 2 internal sockets.

#### EFFICIENT THERMOREGULATION

The use of forced ventilation uniforms the internal temperature. Cooling system in A+ class energy rate.



Total volume

109 L

Temperature

. 20 °C



± 0.5°C



#### **INSTRUMENT** - CODE

FTC 120

\* The cooled incubator is supplied with 2 shelves



#### ACCESSORIES - COOLED INCUBATORS

|   | I                    | I                   | 1                   | I                   | I                   | I       |
|---|----------------------|---------------------|---------------------|---------------------|---------------------|---------|
|   | FOC 200IL<br>Connect | FOC 2001<br>Connect | FOC 200E<br>Connect | FOC 1201<br>Connect | FOC 120E<br>Connect | FTC 120 |
| A00000404<br>TEMPSoft with RS485 cable            | •                    | •                   | •                   | •                   | •                   |         |
| A00000405<br>Interconnection cable FOC Connect    | •                    | •                   | •                   | •                   | •                   |         |
| A00000406<br>IQ/OQ FOC Connect and FTC 120 Manual | •                    | •                   | •                   | •                   | •                   | •       |
| A00000221<br>Multi-socket extension cable EU      | •                    | •                   | •                   | •                   | •                   | •       |
| A00000222<br>Multi-socket extension cable UK      | •                    | •                   | •                   | •                   | •                   | •       |
| A00000223<br>Multi-socket extension cable AU      | •                    | •                   | •                   | •                   | •                   | •       |
| 10008039<br>Shelf for FOC 200, FOC 120, FTC 120   | •                    | •                   | •                   | •                   | •                   | •       |
| 10008040<br>Bottom Shelf FOC 120, FTC 120         |                      |                     |                     | •                   | •                   | •       |
| 40002722<br>Lighted shelf for FOC 200 IL          | •                    |                     |                     |                     |                     |         |
| E00010012<br>VELP Ermes 1 year Connection         | •                    | •                   | •                   | •                   | •                   |         |
| E00010036<br>VELP Ermes 3 year Connection         | •                    | •                   | •                   | •                   | •                   |         |



# Flocculators

### JLT 6

Easy to use and reliable digital flocculators with 6 positions, timer and illuminated back panel. JLT 6 is the ideal solution for Jar Testing 6 samples with the same speed and time settings.

#### RELIABLE

JLT guarantees a precise speed thanks to the electronically controlled motor. It also ensures a strong resistance to chemical and mechanical corrosion.

#### PRACTICAL

JLT has an illuminated back panel that simplifies the observation of the samples. All the stirring rods are adjustable in height without tools.





Stirring speed From 10 to 300 rpm

Timer From 0 to 999 min From 0 to 99 hours



#### **INSTRUMENT** - CODE

JLT 6

100-240 V / 50-60 Hz

F105A0109

### JLT 4

Easy to use and reliable digital flocculators with 4 positions, timer and illuminated back panel. JLT 4 is the ideal solution for Jar Testing 4 samples with the same speed and time settings.

#### RELIABLE

JLT guarantees a precise speed thanks to the electronically controlled motor. It also ensures a strong resistance to chemical and mechanical corrosion.

#### PRACTICAL

JLT has an illuminated back panel that simplifies the observation of the samples. All the stirring rods are adjustable in height without tools.





Stirring speed From 10 to 300 rpm From From





#### **INSTRUMENT** - CODE

JLT 4

100-240 V / 50-60 Hz



### ■ FC6S

Precise and easy to use flocculators with 6 independent positions that allow standard conditions to be adopted for Jar Test. FC6S has an illuminated back panel and adjustable stirring rods.

#### RESISTANT

Strong resistance to chemical and mechanical corrosion. Precise speed setting with the electronically controlled motor.

#### VERSATILE

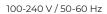
With the FC6S, the same product can be submitted to different conditions in parallel, while the speed can be changed during the run.



Stirring speed steps 10 - 15 - 30 - 45 - 60 - 90 120 - 150 - 200 - 300 rpm

#### **INSTRUMENT** - CODE

FC6S





### ■ FC4S

Precise and easy to use flocculators with 4 independent positions that allow standard conditions to be adopted for Jar Test. FC4S has an illuminated back panel and adjustable stirring rods.

#### RESISTANT

Strong resistance to chemical and mechanical corrosion. Precise speed setting with the electronically controlled motor.

#### VERSATILE

With the FC4S, the same product can be submitted to different conditions in parallel, while the speed can be changed during the run.



Stirring speed steps 10 - 15 - 30 - 45 - 60 - 90 120 - 150 - 200 - 300 rpm



#### **INSTRUMENT** - CODE

100-240 V / 50-60 Hz



### ■ FP4

Portable flocculator with anti-skid base for stability, that allows standard conditions to be adopted for Jar Test. FP4 allows 4 samples to be processed in parallel. FP4 can be connected to a battery or a car cigarette lighter (12V).

#### RELIABLE

FP4 guarantees a precise speed thanks to an electronically controlled DC gear motor. It also ensures a strong resistance to chemical and mechanical corrosion.

#### PRACTICAL

FP4 is designed to be used on-site for immediate results. All the stirring rods are adjustable in height without tools.





Stirring speed steps 20 - 40 - 50 - 100 - 200 rpm

Timer From 0 to 30 min



#### **INSTRUMENT** - CODE

FP 4

100-240 V / 50-60 Hz



#### **ACCESSORIES** - FLOCCULATORS

|  | JLT 6 | JLT 4 | FC6S | FC4S | FP4 |
|--|-------|-------|------|------|-----|
| A00001000<br>Plastic beaker 1000 ml          | •     | •     | •    | •    | •   |
| A00001001<br>Glass beaker 1000 ml            | •     | •     | •    | •    | •   |
| A00001002<br>Transparent plastic Imhoff cone | •     | •     | •    | •    |     |
| A00001003<br>Glass graduated Imhoff cone     | •     | •     | •    | •    |     |
| A00001004<br>Stand for 2 Imhoff cones        | •     | •     | •    | •    |     |
| A00001005<br>Carrying case                   |       |       |      |      | •   |
| A00000319<br>IQ/OQ Manual JLT                | •     | •     |      |      |     |
| <b>A00000379</b><br>IQ/OQ FC4S - FC6S Manual |       |       | •    | •    |     |
| 10003722<br>Power supply cord, US plug       | •     | •     | •    | •    |     |
| 10003723<br>Power supply cord, UK plug       | •     | •     | •    | •    |     |
| 10003724<br>Power supply cord, AU plug       | •     | •     | •    | •    |     |
| 10003083<br>Plug USA for power supply        |       |       |      |      | •   |
| 10003084<br>Plug UK for power supply         |       |       |      |      | •   |
| 10003085<br>Plug AU for power supply         |       |       |      |      | •   |

# **Other Solutions**

### ROTAX 6.8 Overhead Mixer

Overhead mixer with LCD speed display, that offers excellent per applications where rotating, shaking and mixing are required. Rotax 6.8 and mechanical corrosion.

#### ACCURATE AND SAFE

Rotax 6.8 is designed to automatically stop if blocked. Moreover it is com with UNI 10802 and DIN 38414 standards.



Stirring speed Up to 30 rpm



#### **INSTRUMENT** - CODE

| ROTAX 6.8                                 | 230 V / 50–60 Hz | F10600118 |
|---|------------------|-----------|
| ROTAX 6.8                                 | 115 V / 50–60 Hz | F10610118 |
| For accessories visit online www.velp.com |                  | 3 YEARS   |

### OCB Open Circulating Baths

Efficient and precise open circulating bath that ensures excellent temperature homogeneity (±1°C), accurate control and thermostating of testing materials.

#### EASY TO USE

LCD display ensures a precise temperature setting. A wide choice of test tube racks is available.





Timer From 0 to 24:59 hours



#### **INSTRUMENT** - CODE

| ОСВ                                       | 230 V / 50-60 Hz | F40300240 |
|---|------------------|-----------|
| OCB                                       | 115 V / 50-60 Hz | F40310240 |
| For accessories visit online www.velp.com |                  | 3 YEARS   |

### Radiation Detector (not available in USA, Mexico and Canada)

Standard model of a Geiger-Müller tube with mica output window, able to detect a, ß, y and x-rays. Results are shown by a graduated scale, flashing LED and acoustic signal

#### EASY TO USE AND MULTIPURPOSE

It ensures an operating time of up to 2000 hours with one set of batteries and gives results in milliroentgens/hour and counts/minute (cpm) in 3 periods.

#### RELIABLE

The anti-saturation circuit reaches a value equivalent to 100 times the maximum reading in the maximum range.



#### **INSTRUMENT** - CODE

#### Radiation detector

For accessories visit online www.velp.com



### SP 311 Peristaltic Pumps

An easy to use and reliable peristaltic pump, ideal for transferring gas, liquids, mixtures and emulsions in various industries, able to pump from 10 meters depth.

#### EASY TO USE AND RELIABLE

Tubing resists most chemicals and ensures minimum maintenance. The electronic speed control makes simple the control of the instrument.



| SP 311/2                                  | 230 V / 50-60 Hz | F40200002                  |
|---|------------------|----------------------------|
| SP 311/6                                  | 230 V / 50-60 Hz | F40200006                  |
| SP 311/12                                 | 230 V / 50-60 Hz | F40200012                  |
| SP 311/60                                 | 230 V / 50-60 Hz | F40200060                  |
| For accessories visit online www.velp.com |                  | <b>3 YEARS</b><br>WARBANTY |



### ■ TB1 Turbidimeter (not available in USA, Mexico and Canada)

Waterproof, precise and easy to calibrate portable turbidimeter that measures the turbidity of aqueous samples simply and accurately with nephelometric method.

#### **RELIABLE AND PRECISE**

Tb1 is supplied with 4 calibration standards (800, 100, 20 and 0.02 NTU) and can test up to 1200 samples with one set of batteries.

#### RESISTANT

IP 67 protection against ingress of particles and water.



#### **INSTRUMENT** - CODE

TB1

For accessories visit online www.velp.com



### JPV Recirculating Water Vacuum Pump

JPV pump ensures constant water recirculation and reduced water consumption. JPV resists to chemical corrosion and is ideal for applications where non-pulsing suction is needed.

#### QUALITY AND USABILITY

JPV provides vacuum where no reliable water supply is available and guarantees the absence of noise and vibrations. ABS structure guarantees high resistance to chemical corrosion.

#### EASY TO USE

The instrument has inset handles to simplify lifting and the stopcock for emptying the tank.



#### **INSTRUMENT - CODE**

JPV JPV

For accessories visit online www.velp.com

F40100541

230 V / 50-60 Hz 115 V / 50-60 Hz

F40110541



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