

LABSOLUTIONS



STIRRING LINE

**MAGNETIC
STIRRERS**

**HEATING
MAGNETIC
STIRRERS**
ALUMINUM TOP
CERAMIC TOP

THERMOREGULATOR

HEATING PLATES
ALUMINUM TOP
CERAMIC TOP

**OVERHEAD
STIRRERS**

**VORTEX
MIXERS/SHAKERS**

HOMOGENIZER



MAGNETIC STIRRERS

MAGNETIC STIRRERS

Specially designed for chemical, biotechnological, pharmaceutical, microbiological and medical applications such as growing microorganisms, dissolving nutrients and solids and preventing suspended matter from settling during titration. VELP Scientifica's magnetic stirrers offer solutions for diversified laboratory applications and the **highest safety standards** available on the market, with sample volumes ranging from 250 ml to 25 liters.

MST

The **MST** magnetic stirrer with ABS structure is a **small, simple** and **efficient** stirrer. Extremely useful where a small but **reliable** instrument is needed, the white surface makes it particularly suitable for microtitrations. The MST magnetic stirrer **remains cold** even after several days of continuous use, a feature that is highly appreciated in microbiology and biochemistry.

Electronic speed regulation: up to 1100 rpm
Stirring volume (H₂O): up to 5 L

UK, AU and US adapter plugs are available on request.

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|----------------------|-----------|
| MST | 100÷240 V / 50-60 Hz | F203A0160 |



MICROSTIRRER

The **MICROSTIRRER** is a magnetic stirrer with epoxy painted metal structure that ensures a **high resistance** to chemical agents. A **small, simple** and **efficient** stirrer specially designed for microtitrations. The MICROSTIRRER **remains cold** even after several days of continuous use, a feature that is highly appreciated in microbiology and biochemistry.

Electronic speed regulation: up to 1100 rpm
Stirring volume (H₂O): up to 5 L

UK, AU and US adapter plugs are available on request.

| INSTRUMENT | POWER SUPPLY | CODE No |
|--------------|----------------------|-----------|
| MICROSTIRRER | 100÷240 V / 50-60 Hz | F203A0161 |



ESP

The **ESP** is an **ultraflat** magnetic stirrer with no moving mechanical components, it is therefore **maintenance-free**. The stirring system consists of coils that induce a rotating magnetic field. A gentle start-up ensures optimum progression of the stirring speed whilst its **modern, ergonomic structure** is made of materials that ensure a **high resistance** to chemical reagents.

Electronic speed regulation: up to 1100 rpm
Stirring volume (H₂O): up to 5 L

UK, AU and US adapter plugs are available on request.

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|----------------------|-----------|
| ESP | 100÷240 V / 50-60 Hz | F206A0179 |



MULTISTIRRER 6

The **MULTISTIRRER 6** is a 6-place magnetic stirrer for beakers with a maximum diameter of 85 mm. The MULTISTIRRER 6 **remains cold** even after several days of continuous operation, a feature that is highly appreciated in microbiology and biochemistry. It is possible to thermostat the samples using a recirculating water bath.

Electronic speed regulation: from 50 to 850 rpm
Stirring volume (H₂O): up to 400 ml per position
Distance between stirring position centres: 100 mm

UK, AU and US adapter plugs are available on request.

| INSTRUMENT | POWER SUPPLY | CODE No |
|----------------|----------------------|-----------|
| MULTISTIRRER 6 | 100÷240 V / 50-60 Hz | F203A0177 |



MULTISTIRRER 15



The **MULTISTIRRER 15** is a 15-place magnetic stirrer for beakers with a maximum diameter of 64 mm. The MULTISTIRRER 15 **remains cold** even after several days of continuous operation, a feature that is highly appreciated in microbiology and biochemistry. It is possible to thermostat the samples using a recirculating water bath.

Electronic speed regulation: from 50 to 850 rpm
Stirring volume (H₂O): up to 250 ml per position
Distance between stirring position centres: 74 mm

UK, AU and US adapter plugs are available on request.

| INSTRUMENT | POWER SUPPLY | CODE No |
|-----------------|----------------------|-----------|
| MULTISTIRRER 15 | 100÷240 V / 50-60 Hz | F203A0178 |



AGE AND ATE

AGE and **ATE** are **highly resistant** magnetic stirrers with epoxy painted metal structure.

Electronic speed regulation: up to 1200 rpm
Stirring volume (H₂O): up to 8 L

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|---------------|-----------|
| AGE | 230 V / 50 Hz | F20320164 |
| AGE | 230 V / 60 Hz | F20330164 |
| AGE | 115 V / 60 Hz | F20340164 |



Electronic speed regulation: up to 1200 rpm
Stirring volume (H₂O): up to 25 L

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|------------------|-----------|
| ATE | 230 V / 50-60 Hz | F20300165 |
| ATE | 115 V / 50-60 Hz | F20310165 |



AMI

The **AMI** is an **illuminated** single-position magnetic stirrer particularly useful for titrations where **optimum lighting conditions** are needed in order to identify the colorimetric end point. It is especially recommended for titrations that have slight color changes.

Electronic speed regulation: up to 1100 rpm
Stirring volume (H₂O): up to 5 L

UK, AU and US adapter plugs are available on request.

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|----------------------|-----------|
| AMI | 100÷240 V / 50-60 Hz | F204A0167 |



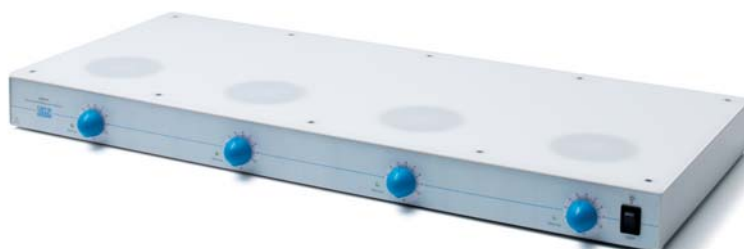
AMI 4

The **AMI 4** is an **illuminated** magnetic stirrer with 4 separately controlled positions. It is particularly useful for titrations where **optimum lighting conditions** are needed in order to identify the colorimetric end point. It is especially recommended for titrations that have slight color changes.

Electronic speed regulation: up to 1100 rpm
Stirring volume (H₂O): up to 5 L per position
Distance between stirring position centres: 150 mm

UK, AU and US adapter plugs are available on request.

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|----------------------|-----------|
| AMI 4 | 100÷240 V / 50-60 Hz | F204A0168 |



| | STIRRING SPEED rpm | STIRRING VOLUME L | DIMENSIONS (WxHxD) mm (in) | WEIGHT Kg (lb) | POWER SUPPLY | POWER |
|------------------------|--------------------|------------------------|-----------------------------|----------------|--------------|-------|
| MST | up to 1100 | up to 5 | 130x50x150 (5.1x2.0x5.9) | 0.4 (0.9) | 100÷240 V | 0.6 W |
| MICROSTIRRER | up to 1100 | up to 5 | 120x48x128 (4.7x1.9x5.0) | 0.55 (1.1) | 100÷240 V | 0.6 W |
| ESP | up to 1100 | up to 5 | 160x33x230 (6.3x1.3x9.0) | 0.9 (2.0) | 100÷240 V | 5 W |
| AGE | up to 1200 | up to 8 | 171x75x190 (6.7x2.9x7.5) | 1.8 (4.0) | 115 or 230 V | 40 W |
| ATE | up to 1200 | up to 25 | 250x120x285 (9.8x4.7x11.2) | 3.7 (8.1) | 115 or 230 V | 15 W |
| MULTISTIRRER 6 | from 50 to 850 | up to 0.4 (x 6 pos.) | 230x51.5x370 (9.0x2.0x14.5) | 1.75 (3.8) | 100÷240 V | 3.6 W |
| MULTISTIRRER 15 | from 50 to 850 | up to 0.25 (x 15 pos.) | 230x51.5x370 (9.0x2.0x14.5) | 2.1 (4.6) | 100÷240 V | 9 W |
| AMI | up to 1100 | up to 5 | 150x55x270 (5.9x2.2x10.6) | 1.2 (2.6) | 100÷240 V | 1.2 W |
| AMI 4 | up to 1100 | up to 5 (x 4 pos.) | 600x55x270 (23.6x2.2x10.6) | 4 (8.8) | 100÷240 V | 4.8 W |

MST, MICROSTIRRER, ESP, AGE, ATE, MULTISTIRRER 6, MULTISTIRRER 15, AMI, AMI 4 ACCESSORIES

| INTERCHANGEABLE PLUGS | CODE No |
|-----------------------|------------|
| US plug | 10003083 * |
| UK plug | 10003084 * |
| Australian plug | 10003085 * |

* for MST, MICROSTIRRER, MULTISTIRRER 6, MULTISTIRRER 15, AMI, AMI 4 and ESP

| OPTIONAL ACCESSORIES | CODE No |
|--|-----------------|
| Magnetic stirring bar, 6x20 mm | A00001057 * |
| Magnetic stirring bar, 6x35 mm | A00001056 ** |
| Magnetic stirring bar, 9.5x60 mm | A00001061 *** |
| Magnetic stirring bar, 10x40 mm | A00001060 **** |
| Thermostatic bath for samples, 408x240x85 mm | A00001055 ***** |

* for MST, MICROSTIRRER, AGE, MULTISTIRRER 15, AMI and AMI 4

** for MST, MICROSTIRRER, AGE, ATE, MULTISTIRRER 6, MULTISTIRRER 15, AMI and AMI 4

*** ATE only

**** ESP only

***** for MULTISTIRRER 6 and MULTISTIRRER 15

HEATING MAGNETIC STIRRERS



ALUMINUM TOP

VELP Scientifica offers a wide range of heating magnetic stirrers with aluminum top. Aluminum top ensures **excellent conductivity** and **temperature homogeneity** and **good resistance to chemicals**. As always VELP Scientifica ensures the **most advanced safety standards**.

Optimum Heat Transfer, Premium Homogeneity

Aluminum alloy top plate ensures outstanding temperature homogeneity and optimum heat transfer across the entire surface.

Intuitive Front Panel

With temperature and speed selector; the inclination of the front panel has been carefully studied to facilitate use.

Maximum Protection

High safety standard according to IP 42; overtemperature protection and dedicated run-off groove for leakages.

Eye-catching Design, Outstanding Comfort

Innovative low profile and attractive design for maximum comfort.

ARE

The **ARE** is widely used in research and development, industrial and university laboratories worldwide. It has an aluminum alloy heating plate coated with a protective coating in order to ensure **uniform heat distribution** and **excellent resistance** to chemicals.

The ARE is **designed to last** and equipped to ensure **maximum protection** against leakages with the elevated front panel and dedicated run-off groove.

The control panel is separated from the hot plate, this feature increases the **safety** rating during use and the **durability** of the instrument. The inclination of the front panel has been carefully studied to **facilitate use**.

Electronic speed regulation: up to 1200 rpm
Stirring volume (H₂O): up to 15 L per position
Temperature: up to 370 °C

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|---------------|-----------|
| ARE | 230 V / 50 Hz | F20520162 |
| ARE | 230 V / 60 Hz | F20530162 |
| ARE | 115 V / 60 Hz | F20540162 |



AM4

The **AM4** is a multiple-position heating magnetic stirrer with four separately controlled stirring plates. The **aluminum alloy heating plates** are coated with a special protective layer and ensure **uniform heat distribution** and **excellent resistance** to chemicals.

Electronic speed regulation: up to 1200 rpm
Stirring volume (H₂O): up to 15 L per position
Temperature: up to 370 °C
Distance between stirring position centres: 186 mm

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|---------------|-----------|
| AM4 | 230 V / 50 Hz | F20520166 |
| AM4 | 230 V / 60 Hz | F20530166 |



AREX

The **AREX** has an aluminum alloy heating plate to ensure **uniform heat distribution** over the entire surface, with a **special protective white ceramic coating** that ensures easiness of cleaning and excellent resistance to chemicals, scratches and surface abrasions. This hot plate stirrer ensures **precise thermoregulation** of the heating plate as well as a high degree of **reliability** and **safety**. The AREX is **designed to last** and equipped to ensure **maximum protection** against leakages with the elevated front panel and dedicated run-off groove. The control panel is separated from the hot plate, this feature increases the **safety** rating during use and the **durability** of the instrument. The inclination of the front panel has been carefully studied to **facilitate use**.

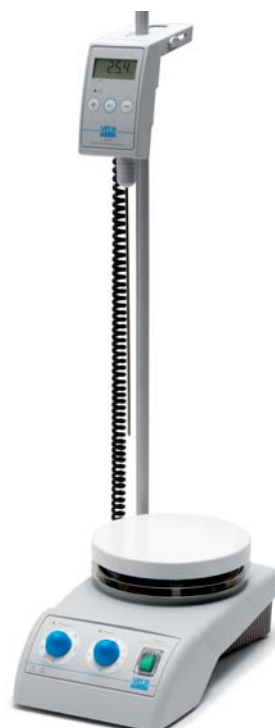
The **AREX** has a socket for the connection of a **VTF** Vertex digital thermoregulator for direct temperature control of the liquid.

Electronic speed regulation: up to 1200 rpm
Stirring volume (H₂O): up to 20 L
Temperature: up to 370 °C



| INSTRUMENT | POWER SUPPLY | CODE No |
|-------------------------|---------------|--------------|
| AREX | 230 V / 50 Hz | F20520163 |
| AREX | 230 V / 60 Hz | F20530163 |
| AREX | 115 V / 60 Hz | F20540163 |
| AREX with VTF - Package | 230 V / 50 Hz | SA20520163 * |
| AREX with VTF - Package | 230 V / 60 Hz | SA20530163 * |
| AREX with VTF - Package | 115 V / 60 Hz | SA20540163 * |

* Support rod included



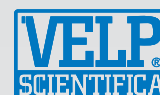
ALUBLOCKS™

AluBlocks™ can be mixed and matched to get any combination of vessel:
use different vessel types and sizes at the same time for clean, safe and reliable synthesis.

| OPTIONAL ACCESSORIES | CODE No |
|---|-----------|
| Green AluBlock™, 4 pos., Ø 28 x h 30 mm | A00000230 |
| Red AluBlock™, 4 pos., Ø 21.6 x h 31.7 mm | A00000232 |
| Black AluBlock™, 4 pos., Ø 28 x h 24 mm | A00000231 |
| Orange AluBlock™, 4 pos., Ø 28 x h 43 mm | A00000229 |
| Blue AluBlock™, 6 pos., Ø 17.8 x h 26 mm | A00000233 |
| Gold AluBlock™, 11 pos., Ø 15.2 x h 20 mm | A00000234 |
| AluBlocks™ Base | A00000228 |



AREX DIGITAL AND AREX DIGITAL PRO



The **AREX Digital** and **AREX Digital PRO** offers the most advanced technology, as they are equipped with **digital display** to **finely set** and monitor the stirring speed and the temperature.

The aluminum alloy heating plate provides **uniform heat distribution** over the entire surface, with a **special protective white ceramic coating** that ensures easiness of cleaning and excellent resistance to chemicals, scratches and surface abrasions.

The AREX Digital is designed to be combined with **external probe Pt100**, whilst **AREX Digital PRO** can even support **VTF Vertex digital thermoregulator** or to a temperature control probe. VTF offers maximum performance for a **perfect and precise** thermoregulation up to 300 °C (± 0.5 °C) with an **integrated timer**, whilst with the external probe up to 250 °C (± 1.0 °C).

Electronic speed regulation: up to 1500 rpm
Stirring volume (H₂O): up to 20 L
Temperature: up to 370 °C



AREX Digital with Probe



AREX Digital PRO with VTF

| INSTRUMENT | POWER SUPPLY CODE No | |
|-------------------------------------|----------------------|--------------|
| AREX Digital with Probe - Package | 230 V / 50-60 Hz | SA20500411 |
| AREX Digital with Probe - Package | 115 V / 50-60 Hz | SA20510411 |
| AREX Digital PRO with VTF - Package | 230 V / 50-60 Hz | SB20500410 * |
| AREX Digital PRO with VTF - Package | 115 V / 50-60 Hz | SB20510410 * |

* Support rod included

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| | HEATING PLATE | HEATING PLATE DIMENSIONS mm (in) | STIRRING SPEED rpm | STIRRING VOLUME L | TEMPERATURE REGULATION °C | DIMENSIONS (WxHxD) mm (in) | WEIGHT Kg (lb) | POWER SUPPLY | POWER |
|----------------------------------|-------------------------------------|----------------------------------|--------------------|---------------------|---------------------------|-----------------------------|----------------|--------------|--------|
| ARE | Aluminum alloy | Ø 155 (6.1) | up to 1200 | up to 15 | Ambient to 370 | 165x115x280 (6.5x4.5x11.0) | 2.6 (5.7) | 115 or 230 V | 630 W |
| AREX | Aluminum alloy with ceramic coating | Ø 155 (6.1) | up to 1200 | up to 20 | Ambient to 370 | 165x115x280 (6.5x4.5x11.0) | 2.6 (5.7) | 115 or 230 V | 630 W |
| AREX Digital with PROBE | Aluminum alloy with ceramic coating | Ø 155 (6.1) | up to 1500 | up to 20 | Ambient to 370 | 165x115x280 (6.5x4.5x11.0) | 2.6 (5.7) | 115 or 230 V | 630 W |
| AREX Digital PRO with VTF | Aluminum alloy with ceramic coating | Ø 155 (6.1) | up to 1500 | up to 20 | Ambient to 370 | 165x630x280 (6.5x24.8x11.0) | 2.6 (5.7) | 115 or 230 V | 630 W |
| AM4 | Aluminum alloy | Ø 155 (6.1) | up to 1200 | up to 15 (x 4 pos.) | Ambient to 370 | 715x115x220 (28.1x4.5x8.7) | 8.3 (18.2) | 230 V | 2550 W |

ARE, AREX, AREX Digital, AREX Digital PRO, AM4 ACCESSORIES

OPTIONAL ACCESSORIES

CODE No

| | |
|-------------------------------------|-----------|
| Hemispheric bowl for 100 ml flasks | A00000258 |
| Hemispheric bowl for 250 ml flasks | A00001071 |
| Hemispheric bowl for 500 ml flasks | A00001072 |
| Hemispheric bowl for 1000 ml flasks | A00001073 |
| Magnetic stirring bar, 6x35 mm | A00001056 |
| Magnetic stirring bar, 9.5x60 mm | A00001061 |

| | |
|---|-------------|
| Magnetic stirring bar, 9.5x60 mm | A00001061 |
| Magnetic stirring bar, 10x40 mm | A00001060 |
| VTF Vertex, digital Thermoregulator | F208B0063 * |
| Spiral cable for other Thermoregulators | 40000781 * |
| Support rod | A00001069 |
| External probe for AREX Digital | A00000227 * |

* AREX only

HEATING MAGNETIC STIRRERS

CERAMIC TOP

AREC Series is the first heating magnetic stirrer to have an innovative technopolymer body, ideal for **premium resistance to acids, bases and solvents**. AREC Series is **designed to last** and equipped to ensure **maximum protection** against leakages with the elevated front panel, dedicated run-off groove and the "Hot Plate Warning". The control panel is separated from the hot plate, this feature increases the **safety** rating during use and the **durability** of the instrument. The inclination of the front panel has been carefully studied to **facilitate use**.

HSC

The **HSC** is an **analog hot plate stirrer** with **white a ceramic heating plate**, that ensures **excellent resistance** to chemicals and scratches and is **extremely easy to clean**.

Electronic speed regulation: up to 1300 rpm

Stirring volume (H₂O): up to 15 L

Temperature: up to 400 °C

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|------------------|-----------|
| HSC | 230 V / 50-60 Hz | F20500101 |
| HSC | 115 V / 60 Hz | F20510101 |



AREC

The **AREC** is a **digital heating magnetic stirrer** with a **white ceramic hot plate**, that ensures **excellent resistance** to chemicals and scratches and is **extremely easy to clean**.

A microprocessor ensures constant speed even when the viscosity changes (**counter-reaction**). Microprocessor technology ensures **fast heating** and provides **precise speed and temperature setting**, as the digital display constantly shows set temperature.

The AREC has an **ergonomic and innovative design** with a **clear and bright digital display**.

Electronic speed regulation: up to 1500 rpm

Stirring volume (H₂O): up to 15 L

Temperature: up to 550 °C

Counter-reaction: constant speed even when the viscosity changes

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|------------------|-----------|
| AREC | 230 V / 50-60 Hz | F20500011 |
| AREC | 115 V / 60 Hz | F20510011 |



The **AREC.X** is a **digital heating magnetic stirrer** with a **white ceramic hot plate**, that ensures **excellent resistance** to chemicals and scratches and is **extremely easy to clean**.

A microprocessor ensures constant speed even when the viscosity changes (**counter-reaction**). Microprocessor technology ensures **fast heating** and provides **precise speed and temperature setting**, as the digital display constantly shows set temperature.

The AREC.X has an **ergonomic and innovative design** with a clear and **bright digital display**.

AREC.X can also be used **stand-alone**, or for precise thermoregulation of the liquid, it **can be connected to VTF** Vertex digital thermoregulator or to a temperature control probe.

VTF offers maximum performance for a **perfect and precise** thermoregulation up to 300 °C (± 0.5 °C) with an **integrated timer**, whilst with the external probe up to 250 °C (± 1.0 °C).

Electronic speed regulation: up to 1500 rpm

Stirring volume (H₂O): up to 15 L

Temperature: up to 550 °C

Counter-reaction: constant speed even when the viscosity changes



| INSTRUMENT | POWER SUPPLY | CODE No |
|-----------------------------|------------------|---------------|
| AREC.X | 230 V / 50-60 Hz | F20500061 |
| AREC.X | 115 V / 60 Hz | F20510061 |
| AREC.X with Probe - Package | 230 V / 50-60 Hz | SA20500061 * |
| AREC.X with Probe - Package | 115 V / 60 Hz | SA20510061 * |
| AREC.X with VTF - Package | 230 V / 50-60 Hz | SB20500061 ** |
| AREC.X with VTF - Package | 115 V / 60 Hz | SB20510061 ** |

* Support rod and clamp for Pt100 probe included

** Support rod included



AREC.X with support rod and external probe



AREC.X with support rod and VTF

AREC.T

The **AREC.T** is a **digital heating magnetic stirrer** with a **white ceramic hot plate**, that ensures **excellent resistance** to chemicals and scratches and is **extremely easy to clean**.

A microprocessor ensures constant speed even when the viscosity changes (**counter-reaction**).

Microprocessor technology ensures **fast heating** and provides **precise speed and temperature setting**, as the digital display constantly shows set temperature.

The AREC.T has an **ergonomic and innovative design** with a clear and **bright digital display**.

The digital heating magnetic stirrer AREC.T has an **integrated programmable timer** up to 999 minutes with **automatic switch off** of the heating and stirring phases.

Electronic speed regulation: up to 1500 rpm

Stirring volume (H₂O): up to 15 L

Temperature: up to 550 °C

Counter-reaction: constant speed even when the viscosity changes

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|------------------|-----------|
| AREC.T | 230 V / 50-60 Hz | F20500051 |
| AREC.T | 115 V / 60 Hz | F20510051 |



AREC SERIES BENEFITS

Powerful Motor, Counter-reaction

Able to stir volumes at very high speeds; counter-reaction technology provides constant speed even when the viscosity changes.

Innovative Technopolymer Body

Technopolymer structure ensures premium resistance to acids, bases and solvents. New premium materials for innovative solutions.

Remarkable Resistance, Extremely Easy to Clean

Ceramic, which is an inert and very hard material, offers outstanding resistance to almost any type of chemical or mechanical aggression.

Intuitive Front Panel, Bright Digital Display

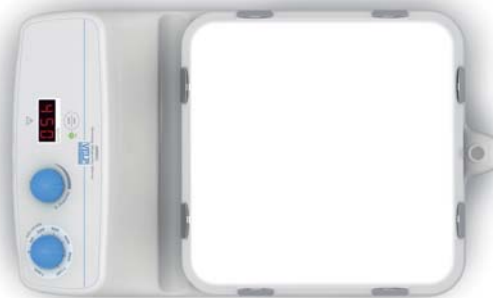
Repeatable and precise results; the inclination of the front panel has been carefully studied to facilitate use.

Maximum Protection, "Hot Plate Warning"

High safety standard according to IP 42; dedicated run-off groove for leakages and high temperature digital warning, that remains displayed until the plate has cooled down to 50 °C.

Eye-catching Design, Outstanding Comfort

Highly innovative low profile and attractive design for maximum comfort.



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| | HEATING PLATE | HEATING PLATE DIMENSIONS mm (in) | STIRRING SPEED rpm | STIRRING VOLUME L | TEMPERATURE REGULATION °C | COUNTER REACTION | OVERTEMP. PROTECTION | DIMENSIONS (WxHxD) mm (in) | WEIGHT Kg (lb) | POWER SUPPLY | POWER |
|---------------|---------------|----------------------------------|--------------------|-------------------|---------------------------|------------------|----------------------|----------------------------|----------------|--------------|-------|
| AREC | Ceramic | 180x180 (7.1x7.1) | up to 1500 | up to 15 | Ambient to 550 | • | • | 203x94x344 (8.0x3.7x13.5) | 3.3 (7.3) | 115 or 230 V | 800 W |
| HSC | Ceramic | 180x180 (7.1x7.1) | up to 1300 | up to 15 | Ambient to 400 | • | • | 203x94x344 (8.0x3.7x13.5) | 3.3 (7.3) | 115 or 230 V | 800 W |
| AREC.X | Ceramic | 180x180 (7.1x7.1) | up to 1500 | up to 15 | Ambient to 550 | • | • | 203x94x344 (8.0x3.7x13.5) | 3.3 (7.3) | 115 or 230 V | 800 W |
| AREC.T | Ceramic | 180x180 (7.1x7.1) | up to 1500 | up to 15 | Ambient to 550 | • | • | 203x94x344 (8.0x3.7x13.5) | 3.3 (7.3) | 115 or 230 V | 800 W |

AREC, HSC, AREC.X, AREC.T ACCESSORIES

| OPTIONAL ACCESSORIES | CODE No |
|-------------------------------------|-----------|
| Hemispheric bowl for 100 ml flasks | A00000258 |
| Hemispheric bowl for 250 ml flasks | A00001071 |
| Hemispheric bowl for 500 ml flasks | A00001072 |
| Hemispheric bowl for 1000 ml flasks | A00001073 |



A00000258



A00001071



A00001072



A00001073

| OPTIONAL ACCESSORIES | CODE No |
|---|-------------|
| Magnetic stirring bar, 6x35 mm | A00001056 |
| Magnetic stirring bar, 9.5x60 mm | A00001061 |
| Magnetic stirring bar, 10x40 mm | A00001060 |
| VTF Vertex, digital Thermoregulator | F208B0063 * |
| Spiral cable for other Thermoregulators | 40000781 * |
| Support rod | A00001069 |
| Clamp for PT100 probe | A00000004 * |
| External probe for AREC.X | A00000227 * |

* AREC.X only

THERMOREGULATOR



THERMOREGULATOR

The VELP Scientifica thermoregulator uses electronic "Fuzzy Logic" meaning that thermoregulation is **automatically** adapted to various factors such as power, load and thermal dispersion.

VTF VERTEX DIGITAL THERMOREGULATOR WITH FUZZY LOGIC TECHNOLOGY

The **VTF** uses **Fuzzy Logic technology** and is suitable for many applications where precise thermoregulation is required. The instrument can be combined with the most common hot plate stirrers and is ready for use.

A **user-friendly** probe positioning system allows the operator to adjust the position of the probe **easily** and **quickly**.

Thanks to the derivation element PW 10, the VTF can be used with all types of heating devices such as water and oil baths, heating plates, etc.

The VTF Vertex comes complete with temperature probe and power cable for direct connection to the hot plate stirrers **AREX** and **AREC.X**.

VTF offers the **highest standards on the market**, in terms of accuracy and performance: **perfect and precise thermoregulation** up to 350 °C, with premium accuracy of ± 0.5 °C, and **exclusive timer**, which means that the thermoregulation time can be pre-set.

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|--------------|-----------|
| VTF | 12 V dc | F208B0063 |

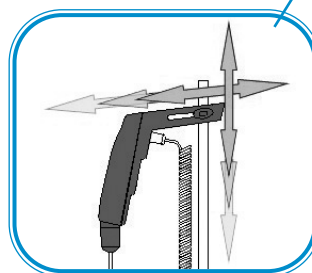
GENERAL FEATURES AND PERFORMANCE

| | |
|--------------------------------|-----------------------------------|
| THERMOREGULATION RANGE °C | from -10 to +300 |
| RESOLUTION °C | 0.2 |
| ACCURACY °C | ± 0.5 |
| TIMER HH:MM | from 00:00 to 24:59 |
| PROTECTION RATING CEI EN 60529 | IP54 |
| DIMENSIONS (WxHxD) | 75x145x120 mm (3.0x5.7x4.7 in) |
| WEIGHT Kg (lb) | 0.3 (0.7) |

| OPTIONAL ACCESSORIES | CODE No |
|----------------------------|-----------|
| Derivation element PW 10 | A00000001 |
| Probe extension cable, 1 m | A00000002 |
| Glass probe | A00000003 |
| Probe clamp | A00000004 |



EQUIPPED
WITH TIMER



AREX with VTF



AREX Digital PRO
with VTF



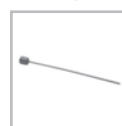
AREC.X with VTF



A00000001



A00000002



A00000003



A00000004

HEATING PLATES

ALUMINUM AND CERAMIC TOP

HEATING PLATES

VELP Scientifica's heating plates are extremely **safe**, **simple** and **affordable** instruments with a **long life-span**. They are designed for every day laboratory requirements where the heating of liquid samples is required.

RC AND RC2

Single (**RC**) and double (**RC2**) heating plates with **temperature regulation**. The **aluminum alloy heating plates** are coated with a special protective layer that ensures **uniform heat distribution** over the entire surface and **excellent resistance** to chemicals.

Temperature: up to 370 °C

Distance between stirring position centres (RC2): 180 mm

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|------------------|-----------|
| RC | 230 V / 50-60 Hz | F20700174 |
| RC | 115 V / 50-60 Hz | F20710174 |
| RC2 | 230 V / 50-60 Hz | F20700172 |
| RC2 | 115 V / 50-60 Hz | F20710172 |



REC

The **REC** is a **digital hot plate** with **white ceramic heating plate**, that ensures **excellent resistance** to chemicals and scratches and is **extremely easy to clean**. REC has an innovative technopolymer body, ideal for **premium resistance to acids, bases and solvents**. The REC is **designed to last** and equipped to ensure **maximum protection** against leakages with the elevated front panel, dedicated run-off groove and **"Hot Plate Warning"**. Microprocessor technology ensures **fast heating** and provides **precise temperature setting**.

Temperature: up to 550 °C

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|------------------|-----------|
| REC | 230 V / 50-60 Hz | F20700081 |
| REC | 115 V / 60 Hz | F20710081 |



| | HEATING PLATE | HEATING PLATE DIMENSIONS mm (in) | TEMPERATURE REGULATION °C | OVERTEMP. PROTECTION | DIMENSIONS (WxHxD) mm (in) | WEIGHT Kg (lb) | POWER SUPPLY |
|------------|----------------|----------------------------------|---------------------------|----------------------|----------------------------|----------------|---------------------|
| RC | Aluminum alloy | Ø 155 (6.1) | Ambient to 370 | • | 165x115x280 (6.5x4.5x11.0) | 1.4 (3.1) | 115 or 230 V 600 W |
| RC2 | Aluminum alloy | Ø 155 (6.1) | Ambient to 370 | • | 340x90x190 (13.4x3.5x7.5) | 3.3 (7.3) | 115 or 230 V 1200 W |
| REC | Ceramic | 180 x 180 (7.1 x 7.1) | Ambient to 550 | • | 203x94x344 (8.0x3.7x13.5) | 3.3 (7.3) | 115 or 230 V 800 W |

RC, RC2, REC ACCESSORIES

| OPTIONAL ACCESSORIES | CODE No |
|-------------------------------------|-----------|
| Hemispheric bowl for 100 ml flasks | A00000258 |
| Hemispheric bowl for 250 ml flasks | A00001071 |
| Hemispheric bowl for 500 ml flasks | A00001072 |
| Hemispheric bowl for 1000 ml flasks | A00001073 |



A00000258 A00001071 A00001072 A00001073

| OPTIONAL ACCESSORIES | CODE No |
|----------------------|-------------|
| Support rod | A00001069 * |

* for REC and RC

OVERHEAD STIRRERS



ES

ES is the entry-level solution, ideal for **low volumes and low/medium viscosity**.

Electronic speed regulation: from 50 up to 1300 rpm
Stirring volume (H₂O): up to 15 L
Viscosity: up to 1,000 mPa*s

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|---------------------|-----------|
| ES | 80÷260 V / 50-60 Hz | F201A0152 |



LS

LS offers reliable performance on **medium viscosity and low volumes**.

Electronic speed regulation: from 50 up to 2000 rpm
Stirring volume (H₂O): up to 25 L
Viscosity: up to 10,000 mPa*s

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|---------------------|-----------|
| LS | 80÷260 V / 50-60 Hz | F201A0151 |



LH

LH offers excellent performance on **medium viscosity liquids and medium volumes**.

Electronic speed regulation: from 50 to 2000 rpm
Stirring volume (H₂O): up to 40 L
Viscosity: up to 50,000 mPa*s

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|---------------------|-----------|
| LH | 80÷260 V / 50-60 Hz | F201A0156 |



PW

PW is suggested for **high viscosity** and it is able to process **high volumes**.

Electronic speed regulation: from 20 to 1200 rpm
Stirring volume (H₂O): up to 70 L
Viscosity: up to 100,000 mPa*s

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|---------------------|-----------|
| PW | 80÷260 V / 50-60 Hz | F201A0150 |



DLS

The **DLS** is a digital overhead stirrer for **medium viscosity** liquids.

A **bright and easy-to-read display** shows current speed set speed, torque and time.

The **digital timer** offers the possibility of unattended operation.

Electronic speed regulation: from 50 up to 2000 rpm
Stirring volume (H₂O): up to 25 L
Viscosity: up to 25,000 mPa*s
Counter-reaction: constant speed even when the viscosity changes

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|---------------------|-----------|
| DLS | 80÷260 V / 50-60 Hz | F201A0155 |



DLH

The **DLH** is a digital overhead stirrer for **medium viscosity** liquids.

A **bright and easy-to-read display** shows current speed set speed, torque and time.

The **digital timer** offers the possibility of unattended operation.

Electronic speed regulation: from 50 up to 2000 rpm
Stirring volume (H₂O): up to 40 L
Viscosity: up to 50,000 mPa*s
Counter-reaction: constant speed even when the viscosity changes

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|---------------------|-----------|
| DLH | 80÷260 V / 50-60 Hz | F201A0157 |



VELP Scientifica offers a complete range of overhead stirrers with a technopolymer structure, ideal for premium resistance to acids, bases and solvents. **Many reliable solutions are available, according to different requirements in terms of viscosity and volume.** All the models are equipped with a **user-friendly self-locking chuck**, that simplifies assembly and the gentle start-up ensures **optimum progression of the stirring speed**. As always VELP Scientifica ensures the **most advanced safety standards**.

| | STIRRING SPEED rpm | STIRRING VOLUME L | MAXIMUM VISCOSITY mPa*s | MAXIMUM TORQUE Ncm | MAX. SHAFT Ø THROUGH MEMBRANE mm | MAX. SHAFT Ø CHUCK mm | DIGITAL TIMER | COUNTER-REACTION | DIMENSIONS (WxHxD) mm (in) | WEIGHT Kg (lb) | POWER SUPPLY | POWER |
|------------|--------------------|-------------------|-------------------------|--------------------|----------------------------------|-----------------------|---------------|------------------|----------------------------|----------------|--------------|-------|
| ES | from 50 to 1300 | up to 15 | 1,000 | 15 | 8.5 | 10 | | | 80x160x200 (3.1x6.3x7.9) | 1.3 (2.8) | 80 ÷ 260 V | 30 W |
| LS | from 50 to 2000 | up to 25 | 10,000 | 40 | 8.5 | 10 | | | 80x215x196 (3.1x8.5x7.7) | 2.3 (5.0) | 80 ÷ 260 V | 120 W |
| DLS | from 50 to 2000 | up to 25 | 25,000 | 40 | 8.5 | 10 | • | • | 80x215x196 (3.1x8.5x7.7) | 2.5 (5.5) | 80 ÷ 260 V | 120 W |
| LH | from 50 to 2000 | up to 40 | 50,000 | 80 | 8.5 | 10 | | | 80x230x196 (3.1x9.0x7.7) | 2.9 (6.4) | 80 ÷ 260 V | 190 W |
| DLH | from 50 to 2000 | up to 40 | 50,000 | 80 | 8.5 | 10 | • | • | 80x230x196 (3.1x9.0x7.7) | 3.0 (6.6) | 80 ÷ 260 V | 190 W |
| PW | from 20 to 1200 | up to 70 | 100,000 | 120 | 8.5 | 10 | | | 80x230x196 (3.1x9.0x7.7) | 2.9 (6.4) | 80 ÷ 260 V | 190 W |

ES, LS, DLS, LH, DLH, PW ACCESSORIES

| OPTIONAL ACCESSORIES | CODE No |
|----------------------|-----------|
| Support rod and base | A00001300 |
| Double clamp | A00001301 |
| Ribbon clamp | A00001302 |



A00001300



A00001301



A00001302



STIRRING SHAFTS



Stirring shaft with floating blades

Code No A00001304

Characteristics: The two blades that open as the speed rises generate an axial flow in the container, from the top towards the bottom. Particularly recommended for stirring in narrow-neck containers, e.g. flasks.



Stirring shaft with folding blade

Code No A00001305

Characteristics: The blade that automatically falls into line during rotation generates an axial flow in the container, from the top towards the bottom. Particularly recommended for stirring in narrow-neck containers.



Stirring shaft with fixed blade

Code No A00001306

Characteristics: It generates an axial flow in the container, from the top towards the bottom. Employment: Use at medium-high speed for whirling light solids, for flocculations, mixing thickening agents, stirring sludge, etc.



Stirring shaft with propeller

Code No A00001307

Characteristics: Standard stirring shaft. It generates an axial flow in the container with suction of the substance from the bottom towards the top and localized occurrence of shearing forces.



Stirring shaft with 6-hole paddle

Code No A00001308

Characteristics: It generates a tangential flow with reduced turbulence and with gentle mixing of the product.



Stirring shaft with turbine blade

Code No A00001309

Characteristics: It generates a radial flow with suction of the product from the top towards the bottom, with high turbulence and high shearing forces.



Stirring shaft with turbo propeller

Code No A00001310

Characteristics: It generates an axial flow in the container with suction of the substance from the top towards the bottom with low shearing forces. Limited danger of any contact of the blade with the walls of the product's container.



Stirring shaft with anchor

Code No A00001311

Characteristics: It generates a tangential flow with high shearing forces on the ends. The flow generated limits the possibility of sedimentation on the walls of the container.



| DESCRIPTION | CODE No | BLADES NUMBER | BLADES Ø mm | SHAFT Ø mm | LENGHT OF SHAFT mm | SPEED RANGE | VISCOSITY RANGE |
|--|-----------|---------------|-------------|------------|--------------------|-------------|-----------------|
| Stirring shaft with floating blades, stainless steel | A00001304 | 2 | 93 | 7 | 400 | M-H | VL-L |
| Stirring shaft with folding blade, stainless steel | A00001305 | 1 | 60 | 7 | 400 | M-H | VL-L |
| Stirring shaft with fixed blade, stainless steel | A00001306 | 1 | 50 | 7 | 400 | M-H | VL-L-M |
| Stirring shaft with propeller, stainless steel | A00001307 | 3 | 60 | 7 | 400 | M-H | VL-L-M |
| Stirring shaft with paddle, six holes, stainless steel | A00001308 | 1 | 69 | 7 | 450 | L-M | L-M |
| Stirring shaft with turbine, stainless steel | A00001309 | 10 | 49 | 7 | 450 | M-H | M-H |
| Stirring shaft with turbo propeller, stainless steel | A00001310 | 3 | 46 | 7 | 450 | M-H | M-H |
| Stirring shaft with anchor, stainless steel | A00001311 | 2 | 45 | 8 | 450 | L-M | M-H |

Choosing the correct shaft

Stirring shafts must be chosen bearing in mind the stirrer power, the volume of substances to be stirred and its viscosity. The technical features and the application fields of the stirring shafts are summarized in the following tables:

| SPEED RANGE | rpm |
|-------------|-----------|
| Low (L) | < 250 |
| Medium (M) | 250 – 800 |
| High (H) | > 800 |

| VISCOSITY RANGE | mPa*s |
|-----------------|------------------|
| Very low (VL) | 0 – 100 |
| Low (L) | 100 – 1,000 |
| Medium (M) | 1,000 – 10,000 |
| High (H) | 10,000 – 100,000 |

| VISCOSITY mPa*s | SUBSTANCE |
|-----------------|-----------------------|
| 1 | Water |
| 5 | Milk |
| 10 | Kerosene |
| 100 | Lubricating oil |
| 1,000 | Castor oil, Glycerine |
| 7,000 | Refined honey |
| 25,000 | Chocolate syrup |
| 50,000 | Ketchup |
| 100,000 | Molasses |

VORTEX MIXERS/SHAKERS

VORTEX MIXERS/SHAKERS

Vortex mixers are suitable for mixing substances in any shape or size of test tube thanks to the orbital movement of the rubber cup **manual, continuous or IR sensor operating modes** in order to meet the multiple needs of every laboratory with **high safety standards**. VELP Scientifica is the first company in the world to manufacture and market the unique and **patented INFRARED vortex mixer** which uses a **special IR sensor system** to activate vibration **without the need to apply pressure**. The ergonomic and highly innovative design along with the zinc base ensure an **excellent stability** on the bench, usable on many surfaces.

RX3

The **RX3** is a **modern basic vortex mixer** that runs at a **single, fixed stirring speed in touch mode**.
RX3, a **long-lasting mixer for basic mixing requirements**.

Electronic speed regulation: constant, 3000 rpm
Operating mode: touch

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|----------------------|-----------|
| RX3 | 100÷240 V / 50-60 Hz | F202A0171 |



ZX3

The **ZX3** is a **modern and universal vortex mixer with variable stirring speed** and two operating modes, **touch or continuous**. The **best-seller ZX3** offers an **excellent flexibility**, thanks to the **broad range of accessories**.
Incredibly adjustable and long-lasting, ZX3 offers **the highest performance for an excellent mixing**.

Electronic speed regulation: up to 3000 rpm
Operating modes: touch, continuous

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|----------------------|-----------|
| ZX3 | 100÷240 V / 50-60 Hz | F202A0176 |



ZX4

PATENTED

The **ZX4** is an **advanced vortex mixer with adjustable stirring speed** and two operating modes, **sensor or continuous**. Thanks to the revolutionary IR sensor mode, an **infrared system (IR) detects the presence of the test tube** and the vortex mixer automatically **starts vibrating! No press, No stress!**
Thanks to a **broad range of accessories**, ZX4 is ideal for many applications including mixing of many kind of tubes/containers. **Incredibly versatile, long-lasting and unique**, ZX4 offers **the highest performance for an excellent mixing**.

Electronic speed regulation: up to 3000 rpm
Operating modes: IR sensor, continuous

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|----------------------|-----------|
| ZX4 | 100÷240 V / 50-60 HZ | F202A0280 |



The **TX4** is a **digital vortex mixer** with **adjustable stirring speed** and two operating modes, **sensor or continuous**, for an outstanding repeatability. Thanks to the revolutionary IR sensor mode, **an infrared system (IR)** detects the presence of the test tube and the vortex mixer automatically starts vibrating! **No press, No stress!**

Thanks to the **timer**, the user can set the operating time and much more. The **bright display** constantly shows the most important info and ensures a **simple setting** of different parameters, such as time and speed.

Thanks to a **broad range of accessories**, TX4 is ideal for many applications including mixing of many kind of tubes/containers. **Incredibly adjustable, long-lasting and unique**, TX4 offers the **highest performance for an excellent and precise mixing**. TX4, the state of the art vortex mixer.

Electronic speed regulation: up to 3000 rpm
Operating modes: IR sensor, continuous

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|----------------------|-----------|
| TX4 | 100÷240 V / 50-60 Hz | F202A0270 |



A00000012
ZX3, ZX4, TX4

A00000013
ZX3, ZX4, TX4

A00000014
ZX3, ZX4, TX4

A00000015
ZX3, ZX4, TX4

A00000016
for all the models

A00000017
ZX3

A00000019
ZX3, ZX4, TX4

CLASSIC

The **CLASSIC** offers the ideal solution for different mixing requirements and combines the **highest performance** ratings in terms of speed with **excellent reliability** and **safety**.

The two operating modes, the possibility to change the vibration frequency and a wide range of accessories makes this laboratory mixer the ideal solution for a large variety of needs.

Touch mode - mixing starts when a small amount of pressure is applied to the rubber cup.

Continuous mode - a wide range of accessories are available for use in continuous mode making CLASSIC the ideal solution for a large variety of needs.

A dedicated selector switch ensures maximum stability of the vortex mixer for the operating mode selected. Its advanced performance places this laboratory mixer at the high-end of the market.

Electronic speed regulation: from 0 to 3000 rpm
Operating modes: touch, continuous

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|----------------------|-----------|
| CLASSIC | 100÷240 V / 50-60 Hz | F202A0173 |



The **WIZARD** represents a **technological innovation** in the evolutionary process of vortex mixers. Optical technology provides an innovative operating mode that is **absolutely unique** on the laboratory mixer market.

Thanks to the **revolutionary IR sensor mode**, an infrared system (IR) detects the presence of the test tube and the instrument automatically starts vibrating!

The Wizard features a **highly innovative and ergonomic design** which, combined with the special materials used, ensures **high stability** and **increased user-comfort**. The instrument offers two operating modes as well as the possibility to regulate the speed of vibration:

Sensor mode - an infrared system automatically activates the vortex mixer so the laboratory technician does not have to apply any pressure!

Continuous mode - continuous operating mode that can be used with a wide range of accessories.

Electronic speed regulation: from 0 to 3000 rpm

Operating modes: continuous, IR sensor

| INSTRUMENT | POWER SUPPLY | CODE No |
|------------|----------------------|-----------|
| WIZARD | 100÷240 V / 50-60 Hz | F202A0175 |



| | | | | | | |
|--|--|--|--|--|-----------------------------|--|
| | | | | | | |
| A00000012 CLASSIC, WIZARD | A00000013 CLASSIC, WIZARD | A00000014 CLASSIC, WIZARD | A00000015 CLASSIC, WIZARD | A00000016 CLASSIC, WIZARD | A00000017 CLASSIC | A00000019 CLASSIC, WIZARD |

| | STIRRING SPEED rpm | ORBITAL DIAMETER mm | OPERATING MODE Touch | OPERATING MODE Continuous | OPERATING MODE IR Sensor | DIGITAL DISPLAY, TIMER | PROTECTION RATING CEI EN 60529 | SUPPORT SYSTEM | DIMENSIONS (WxHxD) mm (in) | WEIGHT Kg (lb) | POWER SUPPLY | POWER |
|----------------|-----------------------|---------------------------|----------------------------|---------------------------------|--------------------------------|------------------------------|--------------------------------------|---------------------|-------------------------------|-------------------|-----------------|-------|
| RX3 | 3000 | 4.5 | • | | | | IP 42 | 4 anti-sliding feet | 150x130x165 (5.9x5.1x6.5) | 2.7 (5.9) | 100÷240 V | 15 W |
| ZX3 | 0÷3000 | 4.5 | • | • | | | IP 42 | 4 anti-sliding feet | 150x130x165 (5.9x5.1x6.5) | 2.7 (5.9) | 100÷240 V | 15 W |
| ZX4 | 0÷3000 | 4.5 | | • | • | | IP 42 | 4 anti-sliding feet | 150x130x165 (5.9x5.1x6.5) | 2.7 (5.9) | 100÷240 V | 15 W |
| TX4 | 0÷3000 | 4.5 | | • | • | • | IP 42 | 4 anti-sliding feet | 150x130x165 (5.9x5.1x6.5) | 2.7 (5.9) | 100÷240 V | 15 W |
| CLASSIC | 0÷3000 | 4.5 | • | • | | | IP 42 | 3 anti-sliding feet | 180x70x220 (7.1x2.8x8.7) | 2.2 (4.9) | 100÷240 V | 15 W |
| WIZARD | 0÷3000 | 4.5 | | • | • | | IP 42 | 3 anti-sliding feet | 180x70x220 (7.1x2.8x8.7) | 2.2 (4.9) | 100÷240 V | 15 W |

RX3, ZX3, ZX4, TX4, CLASSIC, WIZARD ACCESSORIES

| INTERCHANGEABLE PLUG | CODE No |
|----------------------|----------|
| US plug | 10003083 |
| UK plug | 10003084 |
| Australian plug | 10003085 |

| OPTIONAL ACCESSORIES | CODE No |
|--|---------------|
| Foam stand for 19 microvials Eppendorf, 1.5 ml | A00000012 * |
| Customizable soft foam top | A00000013 * |
| Foam stand for 5 test tubes Ø 16 mm | A00000014 * |
| Foam stand for microtiter | A00000015 * |
| Foam stand for 4 tubes Ø 29 mm | A00000019 * |
| Small rubber supporting plate Ø 50 mm | A00000016 ** |
| Rubber supporting plate Ø 94 mm | A00000017 *** |

* for ZX3, ZX4, TX4, CLASSIC and WIZARD

** for RX3, ZX3, ZX4, TX4, CLASSIC and WIZARD

*** for ZX3 and CLASSIC

HOMOGENIZER



OV5

The **OV5** homogenizer is the ideal solution for dispersing, homogenizing, mixing and grinding biological tissue samples (cells, animal and plant tissues), pharmaceutical products, cosmetics and food products. The OV5 is characterized by a **high versatility** that makes it unique on the market. A single shaft can be combined with a wide selection of stator and rotor configurations according to the specific application for which it is to be used. **Flexible, easy-to-use, rapid and user-friendly** stator and rotor **interchangeability**: a single instrument for a wide range of uses that ensures **excellent performance and safety**.

The OV5 homogenizer has an **ergonomic design** for simple handling. A built-in electronic motor control offers the possibility to adjust the speed from 10,000 to **30,000 rpm**. The **soft start** prevents spillage whilst the automatic overload protection increases the life-span of the instrument.

The OV5 homogenizer has one shaft for all applications, simply configure it with the most suitable rotor and stator. The shaft ensures **high strength** and **excellent durability**. It connects easily and quickly to the drive body through a snap hook. The rotor/stator configuration can also be assembled in a few seconds and without the use of tools, consisting of a high-speed rotor with sharp blades lodged within a stationary stator with openings. The OV5 is suitable for the most diverse applications thanks to the wide range of rotor/stator configurations available.



LEGEND

Example composition:
VSS2CSR2

| VS | S2C | SR2 |
|-------|--------|-------|
| Shaft | Stator | Rotor |
| VS | VS2C | VSR2 |

| INSTRUMENT | POWER SUPPLY | CODE No |
|--|---------------|-----------|
| OV5 | 230 V / 50 Hz | R20900010 |
| OPTIONAL ACCESSORIES | | CODE No |
| H-stand with strap clamp, bosshead clamp | | A00000045 |
| Support rod and base | | A00001300 |
| Double clamp | | A00001301 |
| Strap clamp | | A00000044 |

CHOOSE THE MOST SUITABLE DISPERSING TOOL

ULTIMATE FINENESS μm

| MODEL | CODE No | APPLICATION FIELDS *** | FUNCTION **** | TREATABLE VOLUME (WATER) ml | MAX CIRCUM. SPEED m/s | Ø ROTOR mm | Ø STATOR mm | TOOL LENGTH mm | MIN/MAX EMERSION DEPTH mm | SUSPENSION | EMULSION |
|-----------|-----------|------------------------|---------------|-----------------------------|-----------------------|------------|-------------|----------------|---------------------------|------------------|----------|
| *VSS2CSR2 | A00000026 | CE,IF,PC,SI | A | 10 - 5000 | 22,7 | 15 | 20 | 220 | 40/175 | 10 - 50 | 1 - 10 |
| VSS2CCR2 | A00000027 | CT,IA,IT,M,SI | B | 10 - 5000 | 22,7 | 15 | 20 | 220 | 40/175 | 10 - 50 | 1 - 10 |
| VSS2CMR2 | A00000028 | CE,VE | A | 10 - 5000 | 22,7 | 15 | 20 | 220 | 40/175 | 10 - 50 | 1 - 10 |
| *VSS2FER2 | A00000029 | CT,IF,SI,VE | C | 10 - 5000 | 22,7 | 15 | 20 | 220 | 40/175 | 10 - 50 | 1 - 10 |
| VSS2FCR2 | A00000031 | BT,CT,IA,IT,M,SI | B | 10 - 5000 | 22,7 | 15 | 20 | 220 | 40/175 | 10 - 50 | 1 - 10 |
| VSS2FMR2 | A00000032 | CE,CT,IA,IC,PC,VE | A | 10 - 5000 | 22,7 | 15 | 20 | 220 | 40/175 | 10 - 50 | 1 - 10 |
| *VSS3CSR3 | A00000033 | CT,IA,IF,M,SI | A | 100-8000 | 34,9 | 23 | 30 | 220 | 40/175 | 5 - 25 | 1 - 5 |
| VSS3CCR3 | A00000034 | CT,IA,IF,M,SI | B | 100-8000 | 34,9 | 23 | 30 | 220 | 40/175 | 5 - 25 | 1 - 5 |
| VSS3CMR3 | A00000035 | CE,VE | A | 100-8000 | 34,9 | 23 | 30 | 220 | 40/175 | 5 - 25 | 1 - 5 |
| VSS3CMR2 | A00000036 | CE,IA,SI | D | 250-20000 | 34,9 | 15 | 30 | 220 | 40/175 | High speed mixer | |
| *VSS3FER3 | A00000037 | CT,IF,SI,VE | C | 100-8000 | 34,9 | 23 | 30 | 220 | 40/175 | 5 - 25 | 1 - 5 |
| VSS3FSR3 | A00000038 | CT,IF,SI,VE | A | 100-8000 | 34,9 | 23 | 30 | 220 | 40/175 | 5 - 25 | 1 - 5 |
| VSS3FMR3 | A00000040 | CE,IA,IC,IF,IT | A | 100-8000 | 34,9 | 23 | 30 | 220 | 40/175 | 5 - 25 | 1 - 5 |
| *VSS4CMR3 | A00000041 | CE,IA,SI | D | 1000-40000 | 34,9 | 23 | 40 | 220 | 40/175 | High speed mixer | |
| *VSS5CSR4 | A00000046 | BT,M | A | 0,2-50 | 6,3 | 4 | 5 | 128 | 10/60 | 10-50 | 1-10 |

* Most used model

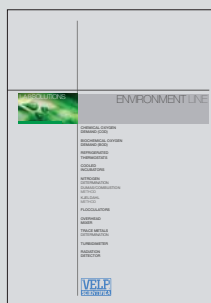
** The dispersing tool works with Ø 4 mm rotor and Ø 5 mm stator for microbiological applications (e.g. suitable for Eppendorf, cuvettes, etc.)

*** BT = biotechnology, CE = ceramic industry, CH = chemical industry, CT = paper & tissue industry, IA = food industry, IC = cosmetic industry, IF = pharmaceutical industry, IT = tobacco industry, M = medicine, PC = petrochemistry industry, SI = sewage pollution control, VE = paint industry

**** 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



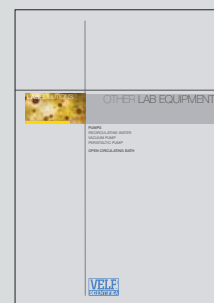
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