

**LABSOLUTIONS**



# STIRRING LINE

**MAGNETIC  
STIRRERS**

**HEATING  
MAGNETIC  
STIRRERS**

**ALUMINUM TOP  
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**THERMOREGULATOR**

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**ALUMINUM TOP  
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**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 (H<sub>2</sub>O): up to 5 L

UK and AU 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 (H<sub>2</sub>O): up to 5 L

UK and AU 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 (H<sub>2</sub>O): up to 5 L

UK and AU adapter adapter plugs are available on request.

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



## MULTISTIRRER

The **MULTISTIRRER** is multi-position magnetic stirrer available in 6 or 15 positions for beakers with a maximum diameter of 85 mm and 64 mm, respectively. The MULTISTIRRER **remains cold** even after several days of continuous operation and is ideal for thermostating the samples when used with a recirculating water bath.

Electronic speed regulation: from 50 to 850 rpm  
SpeedServo™: constant speed even when the viscosity changes

### MULTISTIRRER 6

Stirring volume (H<sub>2</sub>O): up to 400 ml per position  
Distance between stirring position centres: 100 mm

### MULTISTIRRER 15

Stirring volume (H<sub>2</sub>O): up to 250 ml per position  
Distance between stirring position centres: 74 mm

UK and AU adapter adapter plugs are available on request.

INSTRUMENT	POWER SUPPLY	CODE No
MULTISTIRRER 6	100÷240 V / 50-60 Hz	F203A0177
MULTISTIRRER 15	100÷240 V / 50-60 Hz	F203A0178



## MULTISTIRRER DIGITAL



The **MULTISTIRRER Digital** provides synchronized stirring on 6 or 15 samples. A **digital display** ensures a precise setting of stirring speed, constantly. One of its most appreciated features, in microbiology and biochemistry, is that it **remains cold**. Its versatility is extended by the possibility to be combined with a recirculating water bath to thermostate the samples.

Electronic speed regulation: from 80 to 1500 rpm  
SpeedServo™: constant speed even when the viscosity changes  
**Adjustable auto-reverse function** ensures enhanced mixing

### MULTISTIRRER 6 Digital

Stirring volume (H<sub>2</sub>O): up to 400 ml per position  
Distance between stirring position centres: 100 mm

### MULTISTIRRER 15 Digital

Stirring volume (H<sub>2</sub>O): up to 250 ml per position  
Distance between stirring position centres: 74 mm

UK and AU adapter adapter plugs are available on request.

INSTRUMENT	POWER SUPPLY	CODE No
MULTISTIRRER 6 Digital	100÷240 V / 50-60 Hz	F203A0179
MULTISTIRRER 15 Digital	100÷240 V / 50-60 Hz	F203A0180



## 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 (H<sub>2</sub>O): 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 (H<sub>2</sub>O): 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 (H<sub>2</sub>O): up to 5 L

UK and AU adapter adapter plugs are available on request.

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

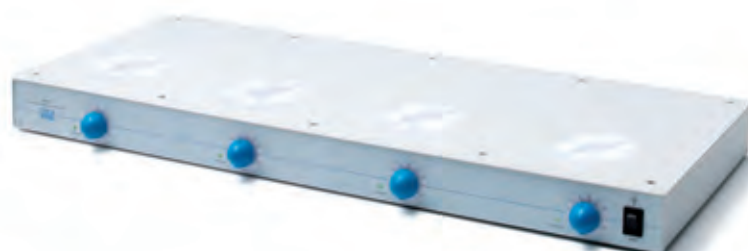
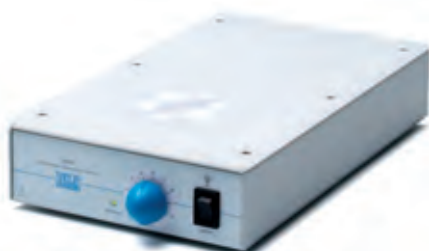
## AMI 4

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 (H<sub>2</sub>O): up to 5 L per position  
Distance between stirring position centres: 150 mm

UK and AU adapter 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
<b>MST</b>	up to 1100	up to 5	130x50x150 (5.1x2.0x5.9)	0.4 (0.9)	100÷240 V	0.6 W
<b>MICROSTIRRER</b>	up to 1100	up to 5	120x48x128 (4.7x1.9x5.0)	0.55 (1.1)	100÷240 V	0.6 W
<b>ESP</b>	up to 1100	up to 5	160x33x230 (6.3x1.3x9.0)	0.9 (2.0)	100÷240 V	5 W
<b>AGE</b>	up to 1200	up to 8	171x75x190 (6.7x2.9x7.5)	1.8 (4.0)	115 or 230 V	40 W
<b>ATE</b>	up to 1200	up to 25	250x120x285 (9.8x4.7x11.2)	3.7 (8.1)	115 or 230 V	15 W
<b>MULTISTIRRER</b>	from 50 to 850	up to 0.4 (x 6) / 0.25 (x 15)	230x51.5x370 (9.0x2.0x14.5)	1.75 (3.8) / 2.1 (4.6)	100÷240 V	3.6 / 9 W
<b>MULTISTIRRER Digital</b>	from 80 to 1500	up to 0.4 (x 6) / 0.25 (x 15)	230x51.5x370 (9.0x2.0x14.5)	1.75 (3.8) / 2.1 (4.6)	100÷240 V	3.6 / 9 W
<b>AMI</b>	up to 1100	up to 5	150x55x270 (5.9x2.2x10.6)	1.2 (2.6)	100÷240 V	1.2 W
<b>AMI 4</b>	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
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 1500 rpm

Stirring volume (H<sub>2</sub>O): up to 15 L

Temperature: up to 370 °C

SpeedServo™: constant speed even when the viscosity changes

INSTRUMENT	POWER SUPPLY	CODE No
ARE	230 V / 50-60 Hz	F20500162
ARE	115 V / 60 Hz	F20510162



## AM4 AND AM4X

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.

The **AM4X** is designed to be combined with **VTF Vertex digital thermoregulator**, with integrated **timer**, for a precise temperature control of the liquid up to 300 °C (± 0.5 °C).

Electronic speed regulation: up to 1500 rpm

Stirring volume (H<sub>2</sub>O): up to 15 L per position

Temperature: up to 370 °C

Distance between stirring position centres: 186 mm

SpeedServo™: constant speed even when the viscosity changes

INSTRUMENT	POWER SUPPLY	CODE No
AM4	230 V / 50-60 Hz	F20500420
AM4X	230 V / 50-60 Hz	F20500421





# 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 1500 rpm

Stirring volume (H<sub>2</sub>O): up to 20 L

Temperature: up to 370 °C

SpeedServo™: constant speed even when the viscosity changes



INSTRUMENT	POWER SUPPLY	CODE No
AREX	230 V / 50-60 Hz	F20500413
AREX	115 V / 60 Hz	F20510413
AREX with VTF - Package	230 V / 50-60 Hz	SA20500413 *
AREX with VTF - Package	115 V / 60 Hz	SA20510413 *

\* 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 24 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 **precisely 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 (H<sub>2</sub>O): up to 20 L  
 Temperature: up to 370 °C  
 SpeedServo™:  
 constant speed even when the viscosity changes



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 / 60 Hz	SA20510411
AREX Digital PRO with VTF - Package	230 V / 50-60 Hz	SB20500410 *
AREX Digital PRO with VTF - Package	115 V / 60 Hz	SB20510410 *

\* Support rod included



	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
<b>ARE</b>	Aluminum alloy	Ø 155 (6.1)	up to 1500	up to 15	Ambient to 370	165x115x280 (6.5x4.5x11.0)	2.6 (5.7)	115 or 230 V	630 W
<b>AREX</b>	Aluminum alloy with ceramic coating	Ø 155 (6.1)	up to 1500	up to 20	Ambient to 370	165x115x280 (6.5x4.5x11.0)	2.7 (5.9)	115 or 230 V	630 W
<b>AREX Digital with PROBE</b>									
	Aluminum alloy with ceramic coating	Ø155 (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
<b>AREX Digital PRO with VTF</b>									
	Aluminum alloy with ceramic coating	Ø155 (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
<b>AM4</b>	Aluminum alloy	Ø 155 (6.1)	up to 1500	up to 15 (x 4 pos.)	Ambient to 370	715x115x246 (28.1x4.5x9.7)	8.6 (18.9)	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	A00000268

\* AREX and AREX Digital PRO

# 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**.

### 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.

## 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 (H<sub>2</sub>O): up to 15 L

Temperature: up to 400 °C

INSTRUMENT	POWER SUPPLY	CODE No
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HSC	230 V / 50-60 Hz	F20500101
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HSC	115 V / 60 Hz	F20510101
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## 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 (H<sub>2</sub>O): up to 15 L

Temperature: up to 550 °C

SpeedServo™: constant speed even when the viscosity changes

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



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 ( $\pm 0.5$  °C) with an **integrated timer**, whilst with the external probe up to 250 °C ( $\pm 1.0$  °C).

Electronic speed regulation: up to 1500 rpm

Stirring volume (H<sub>2</sub>O): up to 15 L

Temperature: up to 550 °C

SpeedServo™: 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 (H<sub>2</sub>O): up to 15 L

Temperature: up to 550 °C

SpeedServo™: 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





	HEATING PLATE	HEATING PLATE DIMENSIONS mm (in)	STIRRING SPEED rpm	STIRRING VOLUME L	TEMPERATURE REGULATION °C	SPEEDSERVO™	OVERTEMP. PROTECTION	DIMENSIONS (WxHxD) mm (in)	WEIGHT Kg (lb)	POWER SUPPLY	POWER
<b>AREC</b>	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
<b>HSC</b>	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
<b>AREC.X</b>	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
<b>AREC.T</b>	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	A0000258
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, 10x40 mm	A00001060

### OPTIONAL ACCESSORIES

### CODE No

VTF Vertex, digital Thermoregulator	F208B0063 *
Spiral cable for other Thermoregulators	40000781 *
Support rod	A00001069
Clamp for PT100 probe	A00000004 *
External probe for AREC.X	A00000268 *

\* AREC.X only

# HEATING PLATES

## ALUMINUM AND CERAMIC TOP

## 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): 186 mm

INSTRUMENT	POWER SUPPLY	CODE No
RC	230 V / 50-60 Hz	F20700431
RC	115 V / 50-60 Hz	F20710431
RC2	230 V / 50-60 Hz	F20700430
RC2	115 V / 50-60 Hz	F20710430



## 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 / 50-60 Hz	F20710081



## 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

### OPTIONAL ACCESSORIES

### CODE No

Support rod	A00001069 *
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\* for REC and RC

# 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 300 °C, with premium accuracy of  $\pm 0.5$  °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	$\pm 0.5$
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



AREX with VTF

AREX Digital PRO  
with VTF

AREC.X with VTF



A00000001



A00000002



A00000003



A00000004

# OVERHEAD STIRRERS

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**.

## 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 (H<sub>2</sub>O): 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 (H<sub>2</sub>O): up to 25 L  
Viscosity: up to 25,000 mPa\*s

INSTRUMENT	POWER SUPPLY	CODE No
LS	80÷260 V / 50-60 Hz	F201A0151
LS - Package	80÷260 V / 50-60 Hz	SA201A0151*

\* Support rod and base, double clamp and stirring shaft with fixed blade included



## LH

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

Electronic speed regulation: from 50 to 2000 rpm  
Stirring volume (H<sub>2</sub>O): 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 (H<sub>2</sub>O): 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 (H<sub>2</sub>O): up to 25 L  
 Viscosity: up to 25,000 mPa\*s  
 SpeedServo™: constant speed even when the viscosity changes

INSTRUMENT	POWER SUPPLY	CODE No
DLS	80÷260 V / 50-60 Hz	F201A0155
DLS - Package	80÷260 V / 50-60 Hz	SA201A0155*

\* Support rod and base, double clamp and stirring shaft with propeller included



# 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 (H<sub>2</sub>O): up to 40 L  
 Viscosity: up to 50,000 mPa\*s  
 SpeedServo™: constant speed even when the viscosity changes

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



	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	SPEEDSERVO™	DIMENSIONS (WxHxD) mm (in)	WEIGHT Kg (lb)	POWER SUPPLY	POWER
<b>ES</b>	from 50 to 1300	up to 15	1,000	15	8	10			80x160x200 (3.1x6.3x7.9)	1.3 (2.8)	80 ÷ 260 V	30 W
<b>LS</b>	from 50 to 2000	up to 25	25,000	40	8	10			80x215x196 (3.1x8.5x7.7)	2.3 (5.0)	80 ÷ 260 V	120 W
<b>DLS</b>	from 50 to 2000	up to 25	25,000	40	8	10	•	•	80x215x196 (3.1x8.5x7.7)	2.5 (5.5)	80 ÷ 260 V	120 W
<b>LH</b>	from 50 to 2000	up to 40	50,000	80	8	10			80x230x196 (3.1x9.0x7.7)	2.9 (6.4)	80 ÷ 260 V	190 W
<b>DLH</b>	from 50 to 2000	up to 40	50,000	80	8	10	•	•	80x230x196 (3.1x9.0x7.7)	3.0 (6.6)	80 ÷ 260 V	190 W
<b>PW</b>	from 20 to 1200	up to 70	100,000	120	8	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 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 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 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 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 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 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 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	VISCOSITY RANGE	mPa*s	VISCOSITY mPa*s	SUBSTANCE
Low (L)	< 250	Very low (VL)	0 – 100	1	Water
Medium (M)	250 – 800	Low (L)	100 – 1,000	5	Milk
High (H)	> 800	Medium (M)	1,000 – 10,000	10	Kerosene
		High (H)	10,000 – 100,000	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 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
ZX4 - Package	80÷260 V / 50-60 Hz	SA202A0280*

\* A00000012, A00000013, A00000016 included



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. 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



EQUIPPED WITH TIMER



**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



<b>A0000012</b> CLASSIC, WIZARD	<b>A0000013</b> CLASSIC, WIZARD	<b>A0000014</b> CLASSIC, WIZARD	<b>A0000015</b> CLASSIC, WIZARD	<b>A0000016</b> CLASSIC, WIZARD	<b>A0000017</b> CLASSIC	<b>A0000019</b> 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
<b>RX3</b>	3000	4,5	•				IP 42	4 anti-sliding feet	150x130x165 (5.9x5.1x6.5)	2.7 (5.9)	100÷240 V	15 W
<b>ZX3</b>	0÷3000	4,5	•	•			IP 42	4 anti-sliding feet	150x130x165 (5.9x5.1x6.5)	2.7 (5.9)	100÷240 V	15 W
<b>ZX4</b>	0÷3000	4,5		•	•		IP 42	4 anti-sliding feet	150x130x165 (5.9x5.1x6.5)	2.7 (5.9)	100÷240 V	15 W
<b>TX4</b>	0÷3000	4,5		•	•	•	IP 42	4 anti-sliding feet	150x130x165 (5.9x5.1x6.5)	2.7 (5.9)	100÷240 V	15 W
<b>CLASSIC</b>	0÷3000	4,5	•	•			IP 42	3 anti-sliding feet	180x70x220 (7.1x2.8x8.7)	2.2 (4.9)	100÷240 V	15 W
<b>WIZARD</b>	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
UK plug	10003084
Australian plug	10003085

OPTIONAL ACCESSORIES	CODE No
Foam stand for 19 microvials Eppendorf, 1,5 ml	A0000012 *
Customizable soft foam top	A0000013 *
Foam stand for 5 test tubes Ø 16 mm	A0000014 *
Foam stand for microtiter	A0000015 *
Foam stand for 4 tubes Ø 29 mm	A0000019 *
Small rubber supporting plate Ø 50 mm	A0000016 **
Rubber supporting plate Ø 94 mm	A0000017 ***

\* 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.



INSTRUMENT	POWER SUPPLY	CODE No
OV5	230 V / 50 Hz	R20900010
OV5 - Package	230 V / 50 Hz	SA20900010*

\* H-stand, strap clamp, bosshead clamp and VSS2CSR2 dispersing tool included



Shaft



Stator



Rotor

### LEGEND

Example composition:  
VSS2CSR2

**VS S2C SR2**

Shaft      Stator      Rotor  
VS      VS2C      VSR2

### OPTIONAL ACCESSORIES

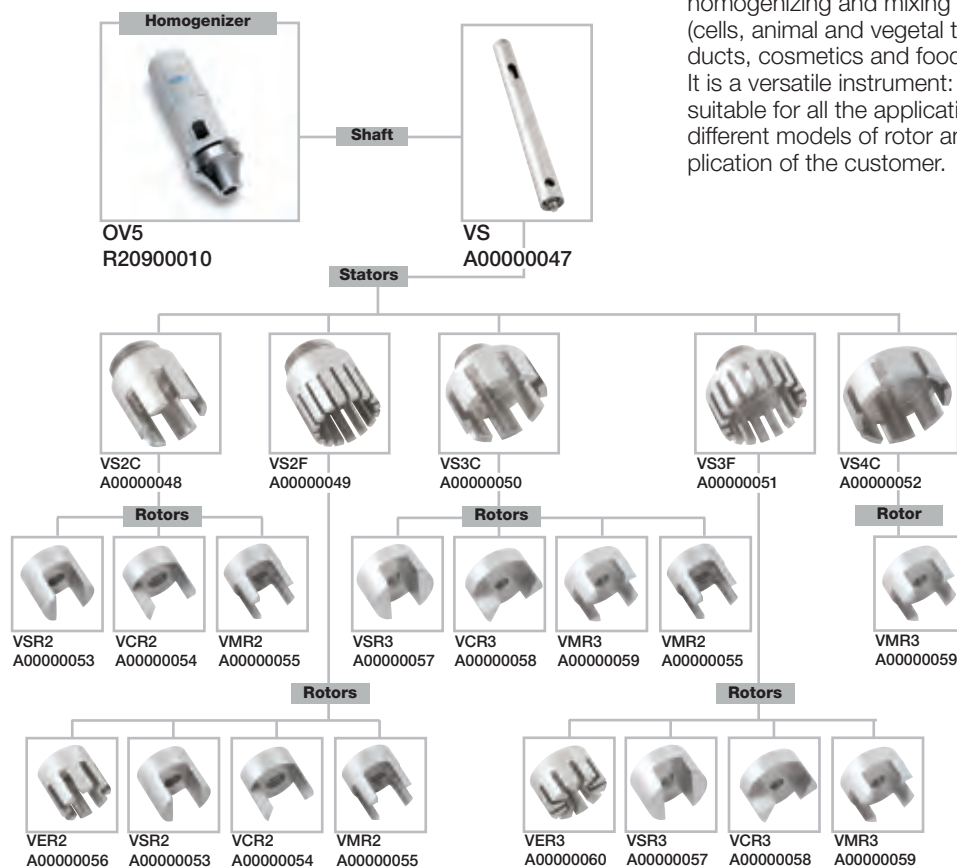
### CODE No

H-stand with strap clamp, bosshead clamp	A00000045
Support rod and base	A00001300
Double clamp	A00001301
Strap clamp	A00000044
Stator rotor release kit	A00000279



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

### POSSIBLE COMBINATIONS



**OV5 Homogenizer** is the right solution for dispersing, homogenizing and mixing biological tissue samples (cells, animal and vegetal tissues), pharmaceutical products, 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.

## CHOOSE THE MOST SUITABLE DISPERSING TOOL



MODEL	CODE No	APPLICATION FIELDS ***	FUNCTION ****	TREATABLE VOLUME (WATER) ml	MAX CIRCUM. SPEED m/s	Ø ROTOR mm	Ø STATOR mm	TOOL LENGHT mm	MIN/MAX IMMERSION DEPTH mm	SUSPENSION	EMULSION
*VSS2CSR2	A00000026	CE,IF,PC,SI	A	100-5000	22,7	15	20	220	40/175	10 - 50	1 - 10
VSS2CCR2	A00000027	CT,IA,IT,M,SI	B	100-5000	22,7	15	20	220	40/175	10 - 50	1 - 10
VSS2CMR2	A00000028	CE,VE	A	100-5000	22,7	15	20	220	40/175	10 - 50	1 - 10
*VSS2FER2	A00000029	CT,IF,SI,VE	C	100-5000	22,7	15	20	220	40/175	10 - 50	1 - 10
VSS2FCR2	A00000031	BT,CT,IA,IC,PC,SI	B	100-5000	22,7	15	20	220	40/175	10 - 50	1 - 10
VSS2FMR2	A00000032	CE,CT,IA,IC,PC,VE	A	100-5000	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

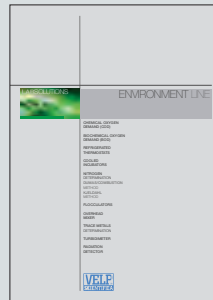
\*\* The dispersing tool works with Ø 4 mm rotor and Ø 5 mm stator for microbiological applications (e.g. suitable for Eppendorf, cuvettes, etc.)

\*\*\* BT = biotechnology, CE = ceramic industry, 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



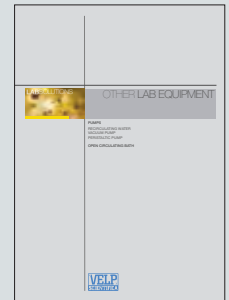
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Knowledge Development



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