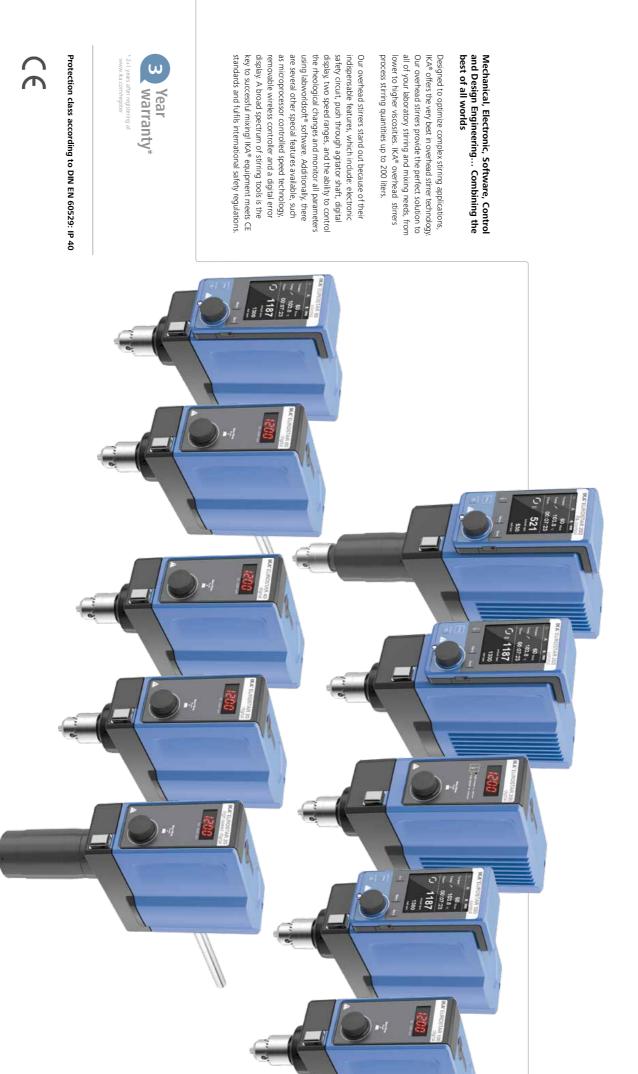


Tel. 051 501153 - Fax 051 6336182 www.favs.it - info@favs.it Overhead Stirrers







EUROSTAR series | Future Perfect MECHATRONICS!





exposure in addition to preserving sample integrity. which in turn helps protect the user from toxic material

6











RH 5 Strap clamp

For securing vessels during stirring. RH 3 Strap clamp

R 270 Boss head clamp

]}

R 271 Boss head clamp

extensions with Ø 16 mm. Specialized clamp with openings for the stands R 2722 and R 2723 as well as

ances.



0002657800 Ident. No.

Required for stirring tasks using glass stirring rods. The flexible coupling compensates for any structural vari-

R 182 Boss head clamp



Ident. No.

0002664000

Ident. No. 0002657700



Electrically adjustable telescopic floor stand, specially designed for RW 47 digital and

R 4765 Floor stand

NEW

Height: 1014 - 1588 mm

Þ

0003160100 0003160200

R 1826 R 1827 R 1825

0003160000

0001412000

0004035000 Ident. No. T 65 basic/digital

> tipping backwards. R 2722 H-Stand

which prevents the stand from Stable stand with H-shaped base

raising of the dispersing unit. equipped with a pneumatic spring, which enables effortless Similar to R 2722, additionally R 2723 Telescopic stand

' Option available only for control units

0002735600 Ident. No.

R 474 Telescopic stand RW 47 D/digital. Specially designed for



R 472 Floor stand

Mobile floor stand, specially designed for RW 47 D/digital.









R 60 keyless chuck

* Option available only for control units

H 66.51 Stainless steel sensor

glass-coated

Ident. No.

0002735451

non-aggressive media.

Temperature sensor for working with

H 62.51 Stainless steel sensor

remove the stirring elements without any tools. series. It allows you to quickly and easily Available for EUROSTAR 20 / 40 / 60 / 100

0003889500 Ident. No.

H 66.53 Temperature sensor

* Option available only for control units

Ident. No. solutions.

0002735551

media such as acid and alkaline

Temperature sensor for working with

H 70 Extension cable

temperature sensor.

To connect EUROSTAR control with the

Ident. No. Chemical resistant coated sensor.

' Option available only for control units 0004499900



More stand options for optimal stability! COMING SOON: IKA°+

Available for all overhead stirrers for pre-venting potential injuries at rotating shafts

Stirring shaft protection

and stirring elements

6

17

Height: 2020 mm Stroke: 980 – 1860 mm

16

Height R 1825: 560 mm R 1826: 800 mm R 1827: 1000 mm

Ξ

Height: 1010 mm

Height: 620 – 1010 mm Stroke: 390 mm

Height: 1200 mm Stroke: 500 – 1000 mm

(v)

ω

 (\mathbf{N})

Knowledge | Torque & Viscosity

Quality standards | Integrated Safety

Torque

rotation to the line of action of the force. based on the perpendicular distance from the axis of arm and F is the force. The magnitude of the force is as M = F * r , where M is the torque, r is the lever duct of force and lever arm. It is therefore calculated Torque is mathematically defined as the vector pro-

then to the mixing tool. The torque acts on the mixing tool at the drill chuck as shown in the brochure. between the mixing tool geometry, viscosity of the mixing tool. Torque is the key to the relationship power is transferred from the motor to the shaft and medium to be mixed and the speed of rotation. The is the transfer of power in the drive to the rotating drill chuck fixed to the mixing tool. What matters ple, in mixing systems, the drive power of an electric The unit of measurement of torque is Nm. For exammotor is delivered to the rotating drive shaft or the

(Range 1 – 100,000 mPa*s)

Typical Dynamic viscosity values

Viscosity

cream Milk

Coffee whipped

10

Water

Substance

in mPa*s Viscosity ŋ

Olive oil

100

Lubricant oil

200

650 - 900to the dynamic viscosity n. Viscosity is a measure of transter of fluids from one location to another. sions by mixing and homogenizing or merely in the is required to create product emulsions and suspenis an important parameter to be considered when it to internal friction between the molecules. If a fluid the fluid's resistance to flow or change in shape due The "viscosity" shown in our brochure always refers has high viscosity, then it strongly resists flow. This

20°C and atmospheric pressure values refer to the viscosity at

8000 3000

Hand cream Toothpaste (40°C) 100,000 70,000 50,000 10,000

Ketchup

Honey

Shampoo Motor oil

Asphalt

Unless otherwise stated, the

$1N = [n] \cdot (m^2 m / m s) => [n] = Ns / m^2 = Pa^*s$

Fluids are either Newtonian or Non-Newtonian. stant viscosity). Fluids whose viscosity is not constant Fluids whose viscosity is constant at all shear rates asphalt cement, etc.). (e.g., blood, sand-water mixtures, dough, puddings at all shear rates are called Non-Newtonian fluids fluids / water, oil and most gases which have a conare called Newtonian fluids (e.g., pure fluids, ideal

pump efficiency and friction losses in pipes. motors, gear units, leakage losses in the hydraulics Oil is a good example of a highly viscous liquid. It as the thickness of the lubricating film in bearings, does not flow easily and affects parameters such

Applications and Industries

Inks and Coatings: Printing ink, coating paint. hydroxide, glycerin.. Pharmaceutical industry: Pills, tablets, suppositories.. Cosmetics: Creams, shampoo, soap. Abrasives: Silicon carbide, crystals, sand. Chemical industry: Aluminum oxide, calcium Food: Butter, mayonnaise, ketchup..

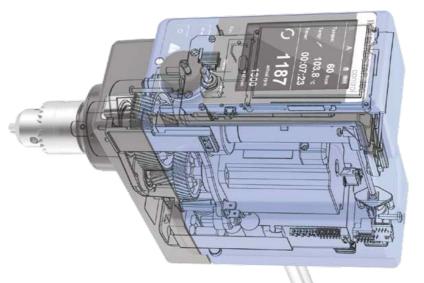
two-component glue.. Glues and Adhesives: Adhesive mixture, Vaseline,

polyester resin. Plastics and Polymers: PVC powder, pre-polymer,

loam.. Cement and Construction: Concrete, mineral clay, suspension, dyes for adhesive plasters.. Paints and Pigments: Metallic paints, color pigment







the requirements set forth by the DIN EN IEC 61010-2-051 All IKA® overhead stirrers adhere to norms DIN EN IEC 61010-1 and

and fulfil International safety regula-They meet and exceed CE standards

tions.



IKA[®] offers more



labworldsoft®

processes may be run independently. Long waits of your laboratory experiments. Measurements and can be documented ensuring complete automation laboratory devices via one PC. All test parameters the help of this software, you can network up to 64 IKA® laboratory software labworldsoft® is an adand processing times are reduced, which increases vanced software for all your laboratory needs. With

productivity





Comprehensive Worldwide Service!

devices and spare parts: to contact your dealers or IKA[®] directly in case of any hensive worldwide technical service. Please feel free Our dedicated team of engineers provides comprecall 00 8000 4524357 (00 8000 IKAHELP) ment malfunction or technical questions regarding service queries. Hotline: In the event of an equip-





IKA® Application Support

own devices and to develop new models. it also further extends the opportunity to test your grinding, heating, analyzing and distilling. In addition processes that involve stirring, shaking, dispersing, prospective buyers and customers can test out to our customers and improves our service. Here, devices and processes. This brings us even closer modern facilities for presenting and testing lab Our Application Center spans 400 sqm and offers



Does IKA[®] supply an explosion-proof stirrer system?

systems for larger volumes upon request. IKA[®] does supply custom-made explosion-proof

of the EUROSTAR control range – can they measure What does torque trend display mean in the case

in torque. Normally, this is associated with a change however, be directly calculated from the data. In in the viscosity of the medium. The viscosity cannot The EUROSTAR control units only display the change viscosity?

order to do so, one can use a viscometer. IKA® stirrers?

ity ranges from 1 mPas to 150,000 mPas. ranges from 20 ml to 200 liters. Similarly, the viscos-

What should be the diameter of the vessel in relation

In the case of water, the diameter of the vessel to the stirrer tool? should be twice the diameter of the stirrer element

counter clockwise direction can be incorporated. Additionally, upon request for special applications clockwise and counter clockwise direction. for EUROSTAR 100 control which rotates in both All IKA[®] stirrers rotate in clockwise direction exception directions?

Are there any stirrers which rotate in different can be operated without interruption. All IKA® stirrers have a 100% duty cycle, i.e. they interruption?

How long can a stirrer be operated without

operation of IKA[®] stirrers?

exceed 80%

Application Support!

IKA°+

E-Mail: applicati 00 8000 4522777 (00 8000 IKAAPPS)* processes, you can call our hotline numbe For questions regarding applications and

* Monday – Thursday from 8:30 - 16:30 Friday from 8:30 - 15:30

What is the difference between the electronic and mechanical versions of the stirrers?

range by altering the transmission ratio of the actuain viscosity. tor. Whereas in electronic stirrers, the power output ensures a constant speed range even with changes is monitored and controlled by a processor. This can be made available directly in the lower speed continuously variable transmission. A higher torque In mechanical stirrers, the speed is set by means of a

What quantities and viscosities can be processed with

Depending on the unit, maximum stirring quantity

stirrer element should be closer to the vessel wall. element. In the case of high viscosity material, the and the height two or three times that of the stirrer

What ambient conditions are required for the

tween 5 °C and 40 °C and the humidity should not The ambient temperature should be consistent be-

20

FAQ

Ordering made easy! For more information about our products and to place your order, please visit: www.ika.com

IKA°+



201306_Overhead_Stirrers_Brochure_EN_IWS_wop

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