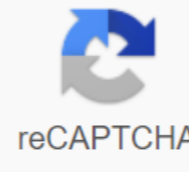




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Kuhner shaker isf-1-w manual

BPM-60 (Bioprocess monitoring) is a non-invasive, online measurement of dissolved oxygen and pH in the flask of Erlenmeyer. Continuously, the recording of dissolved oxygen and pH of oxygen and pH can be easily measured online using BPM-60. The system allows you to record one or both parameters in the same flask. Dissolved oxygen and/or pH values can be monitored simultaneously in eight different flasks. Continuous data recordings, compared to conventional sampling, are automatic and consistent. The recorded data can be analysed to determine oxygen limitation or inhibition and therefore optimise yields in shaken zucchini. Furthermore, BPM-60 helps produce repeatable starter cultures for use in fermenters (see FDA pat initiative). Gas volume 395 l Weight (with cooling) 210 kg Illumination LED Operation menu in German, French, English, Italian, Spanish Interface, standard CAN-Bus Interface, optional USB, Ethernet, digital, analog ambient temperature 10 ° C to 35 ° C Left side cable feedthrough: PG 16 (ID 20mm) Option: 2nd feed cable through high, Setting setting digital 0.1 ° C Accuracy, absolute ± 0.30 ° C (37 ° C) ± 0.25 ° C (37 ° C) Sensor principle Pt-100 Power heating 1000 W Power cooling 155... 270 W 300 m³/h (SMX1503) max. at 25.55 ° C 85% r.h. Setting, digital 1% r.h. Accuracy, absolute ± 2% r.h. Sensor capacity principle Automatic water filling water heater 300 W Door heater 100 W (SMX1034) Sensor principle Infrared, NDIR Measuring range 0...20% CO2 Setting, digital 0.1% Accuracy, absolute (including non-linearity, calibration uncertainty, recurrence capability) ± 0.40% to 5% CO2 Temperature range 5...60 ° C CO2-supply max. 2 bar overplay SMX1021: 220 - 240 V / 50-60 Hz SMX1022: 190 - 210 V / 50-60 Hz SMX1023: 110 - 120 V / 50-50 60 Hz SMX1024: 95 - 105 V / 50-60 Hz tray, size F (800x420mm) Loading, maximum 25kg Setting, digital accuracy 1rpm, absolute ± 0.1 rpm Timer 1s... 999h Acceleration controlled Active Brake Adjustable Stop at positional estimated speed* orbital, Ø 12.5mm 20... 500 rpm * orbital, Ø 25.0mm 20... 400 o/min * orbital, Ø 50.0mm 20... 300 rpm * linear, -- 12.5mm 20... 400 rpm * linear, -- 25.0mm 20... 300 rpm * linear, -- 50.0 mm 20... 200 rpm * can be modified We believe that expertise is invaluable. With more than 20 years of experience and top engineers on staff, we can help you solve or avoid problems that threaten your business. SPECIFICATIONS OF EQUIPMENT DESCRIPTION INCLUDED NOTES Kuhner cooling incubator Shaker ISF-1-W provides a stacking option that cools and heats with moisture control and digital precision. These shaking incubators are user-friendly, with digital control at a glance, separated into each parameter, temperature, humidity and speed. The Kuhner Shaker has a temperature range between 15 below ambient to 80 ° C, with humidity control of up to 85%, and variable orbital shaking speed allowing users to protocols to best suit their application. These incubators are powered by custom smooth operation and fast adjustments, with low power consumption. The interior of this incubator is built of easily pure stainless steel and has bright lighting that allows you to track the progress of the pattern, while efficient insulation maintains the temperature with uniformity throughout the chamber. When the chamber door of this shaking incubator opens, the shaking quickly comes to a stop to prevent injury. Kuhner Cooling Incubator Shaker Model ISF-1-W Specifications Temperature range 15 below ambient-80 ° C Relative humidity maximum 85% r.h. Shaking Motion @ 12.5 mm 20-500 RPM @ 25 mm 20-400 RPM @ 50 mm 20-20-20-20 300 RPM Inside Dimensions 36 x 25 x 24 Platform Dimensions 32 x 18 Volume of internal 354 liters (12.5 cu ft) Dimensions 50 x 34 x 58 tota Weight 1095 lbs Power 190-210v, 50/60Hz, 2300 watts, 10a Kuhner Cooling Incubator Shaker Model ISF-1-W Dual Stack Platform with Flask Holders Flasks as seen in photos 208V Power Cord 30-day warranty This Kuhner cooling incubator Shaker Model ISF-1-W Dual Stack are viewed individually and both have wonderful performance. All our laboratory equipment comes backed by our standard warranty. If you have any questions, do not hesitate to contact us. Being first on the market with products requires a more productive laboratory - the heart of a productive laboratory is a growing step. From bench-top shakers to large industrial shakers, Kuhner AG produces high-quality machinery for customers around the world. Compact size incubator with high performance: LS-Z & Kelvin+ All Kuhner incubators can be cooled. The cooling system is regulated by a fully digital PID control that ensures minimal energy consumption. The cooling shall be switched on only when necessary as determined by the chamber temperature and the set point. More information can be found under kuhner technology. Air humidity control is an important factor in successful fermentation. Evaporation from microtitre plates, or when growing in zucchini over long periods (e.g. cell cultures), can be significantly reduced by humidifying. More information can be found under kuhner technology. Top CO2 CO2 control is essential when working with mammalian cell cultures. Kuhner was the first company to produce and supply CO2-controlled incubators more than a decade ago and continues to offer this option. More information can be found under kuhner technology. The upper pull-out table extraction table is designed for ISF1-X and ISF4-X incubator shakers, as well as rack system. This remarkable device significantly facilitates the loading and unloading of drawers. The double table above Double Table is a simple and cost-effective way to double the shaking capacity. A double trembling table consists of two levels. Each level accepts a tray of size E, EX or F. However, with a double table, the shaking speed is limited to a maximum of 200 rpm. Top Illumination Unit for Photosynthesis The ceiling of each Kühner incubator shaker can be equipped with LED modules for the cultivation of phototrophic organisms. The control module enables full programming of night/day cycles and variable light intensity. Upper UV lamp As in the biological safety cabinet, the Kuhner chamber of the shaker incubator can also be sterilized with an integrated UV lamp. The lamp is located to increase the radiation of the chamber and shakes the table. The UV lamp has a clearly marked external switch and when the door opens, the UV illumination turns off automatically. Each Kuhner shaker incubator can be delivered with blackened windows to prevent unwanted daylight or UV radiation inside the incubator. Upper Perspex cover To prevent accidental operation of the controller, the plate can be protected by perspex cover. The superior IQ-OQ documentation IQ-OQ (Qualification of installation and qualification of operations) is the qualification of equipment according to the GMP procedure. Kuhner offers this service which can also be carried out on the customer's premises. Top BPM-60 BPM-60 (Bioprocess Monitoring) is a non-invasive, online measurement of dissolved oxygen and pH in Erlenmeyer's flask. Continuously, the recording of dissolved oxygen and pH of dissolved oxygen and pH can be easily measured online using BPM-60. The system allows you to record one or both parameters in the same flask. Dissolved oxygen and/or pH values can be monitored simultaneously in eight different flasks. Continuous data recordings, compared to conventional sampling, are automatic and consistent. The recorded data can be analysed to determine oxygen limitation or inhibition and therefore optimise yields in shaken zucchini. Furthermore, BPM-60 helps produce repeatable starter cultures for use in fermenters (see FDA pat initiative). Not in battery mode, the integrated socket at the front of the shaking table allows easy data communication and power without the risk of wiring cranking. With this technology, the battery is not required. ISIS's Kuhner ISIS Software is capable of recording data. In addition to recording dissolved oxygen and pH, it is possible to record all other shaker parameters such as shaking rate and CO2 concentration. A complete audit trace is also stored for each connected shaker. The top Enhanced direct drive ISF1-Z without maintenance is stronger, offers higher shaking frequencies and has a longer lifespan than ever. Guarantees accurate control and low energy consumption/heat wastage even at high speed. Kuhner's direct drive system and newly re-lazed shake table allow you to change the shaking diameter at any time -- quickly and easily. Adjustable are different fixed shaking diameters (3, 6, 9, 12.5, 19, 25, 50, 70 mm). Even step-free customization is available as an option. All ISF1-Z components are designed for durability and reliability. Kuhner shaker is a cost-effective investment in quality backed by a five-year warranty. Warranty.

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