Kuhner shaker x manual

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Compact size incubator with high performance: LS-y Kelvin gas volume395 lWeight (cooled)210 kgIlluminationLEDOperation menu inGerman, French, English, Italian, SpanishInterface, standardCAN-BusInterface, OptionalUSB, Ethernet, digital, analogueAmbient temperature10 degrees Celsius to 35 degrees Celsius Left side wallCabel feedthrough: PG 16 (ID 20mm)Optional: 2nd cable feedthrough Setting, digital0. 1 CAccuracy, absolute± 0.30 degrees Celsius (37 degrees Celsius) ± 0.25 degrees Celsius (37 degrees Celsius) Principle sensorPt-100Power heating1000WPower cooling 155... 270W Air Circulation300m3/h (SMX1503)max. при 25..55'C85% r.h. Установка, цифровой 1% р.ч. Точность, абсолютный ± 2% р.ч. Принцип датчика емкостного пополнения воды автоматическим водонагревателем 300W Дверной обогреватель 100W (SMX1034)Принцип датчикаВяленный, Диапазон NDIRMeasuring 0...20% CO2Setting, цифровая точность 0,1%, абсолютная (включая нелинейность, неопределенность калибровки, повторяемость) ± 0,40% при диапазоне 5% CO2Temperature 5...60 градусов по Цельсию CO2-поставка макс. 2 бар переутомлить SMX1021:220 - 240 V / 50-60 Гц SMX1022: 190 - 210 V / 50-60 Гц SMX1023: 110 - 120 V / 50-50-50-Гц SMX1023: 110 - 120 V / 50-50-50 60 Гц SMX1024: 95 - 105 V / 50-60 Гц Tray, sizeF (800x420mm) Загрузка, максимум 25kgSetting, цифровой 1rpm Точность, абсолютный ± 0.1 rpm Таймер 1s ... 999h Acceleration control active braking adjustable stop at positionally-adjustable speed orbital, 12.5 mm20... 500 rpm and orbital, 25.0 mm 20...400 rpm - orbital, 50.0 mm 20...300 rpm - linear, ↔ 12.5 mm 20...400 rpm - linear, ↔ 25.0 mm 20...300 rpm - linear, ↔ 50.0 mm 20... 200 r/min . . . . . He said . . . . . Ethernet, digital, analogue Ambient temperature 10 degrees Celsius to 35 degrees Celsius Left sideCable feedthrough: PG 16 (ID 20mm)Optional: 2nd feedthrough cable Installation, Digital0.1 C Precision, absolute ± 0.30 degrees Celsius (37 degrees Celsius) ± 0.25 degrees Celsius (37 degrees Celsius) Pt-100 Heat 500 watt Cooling Power 90...155 W Air Circulation 160 m3/h (SMX1703). at 25.55'C85% r.h. Installation, digital 1% p.h. Installation, digital 1% p.h. Precision, absolute ± 2% p.h. Principle of capacitive water recharge sensor automatic water heater 180 W Door heater 90 W (SMX1034)Principle of touch, NDIR Measurement range 0...20% CO2 Installation, digital 0.1% Precision, absolute (including non-linear, uncertainty ± 0.40% with 5% CO2 Temperature range 5...60'C2-supply. 2 bar re-imaging (SMX1738)O2 sensorysion oxidizer range prepared 0% to ambient O2 (20.95% in dry air) Precision, Absolute±0.40% with O2 O2 ±0.5% full-scale/year installation, digital ± 0.1% O2 PID control, digital temperature range -10...80 degrees Celsius N2-supplymax. 0.5...0.8 Bar Overwork SMX1021:220 - 240 B/50-60 Hz SMX1022: 190 - 210 B/50-60 Hz SMX1023: 110 - 120 B/50-60 Hz Hz Hz 95 - 105 V / 50-60 Hz Tray sizeEX (500 x 420 mm) Download, maximum 25 kg Setting, digital 1 rpm Precision, absolute ± 0.1 rpm Timer 1s... 999h Acceleration SteerAble Active Brake Adjustable Stop at An Adjustable Orbital Speed Position, 12.5 mm20... 500 rpm and orbital, 25.0 mm 20...400 rpm - orbital, 50.0 mm 20...300 rpm - linear, ↔ 12.5 mm 20...400 rpm - linear, ↔ 25.0 mm 20...300 rpm - linear, ↔ 50.0 mm 20... 200 rpm can be changed All Kuhner incubator shakers can be equipped with cooling. The cooling system is regulated entirely by digital control of PID, which provides minimal energy consumption. Cooling is only activated if necessary in accordance with the temperature of the camera and the set point. More information can be found on kuhner technology. Controlling the humidity of the upper humidity is an important factor in successful fermentation. Evaporation from microtitle plates or when grown in flasks for long periods of time (e.g. cell crops) can be significantly reduced with hydration. More information can be found on kuhner technology. Top CO2 control of CO2 is important when dealing with mammalian cell cultures. Kuhner became the first company to produce and supply CO2-controlled incubator shakers more than a decade ago and continues to offer this option. More information can be found on kuhner technology. The top retractable table retractable table is designed for isF1-X and ISF4-X incubator shakers, as well as the rack system. This wonderful device makes it much easier to load and unload trays. The Top Double Table Double Table is a simple and economical way of doubling the shaking ability. The double shake table consists of two levels. Each level will take an E, EX or F tray size. However, with a double table, the shaking speed is limited to a maximum of 200 rpm. The control module allows you to fully program night/day cycles and variable intensity of light. The upper UV lamp, as in the biological security cabinet, the Kuhner incubator shaker camera can also be sterilized using an integrated UV lamp. The lamp is located for maximum camera exposure and table shaking. The UV lamp has a clearly marked external switch, and when the door is open, the UV light automatically shuts down. The upper black window is available for light-sensitive environments or organisms. Any Kuhner incubator shaker can be delivered with blackened windows to prevent unwanted daylight or UV radiation inside the incubator. Upper Cover Perspex To Prevent Accidental Work The panel can be protected by a perspex lid. The top documentation for IR-Oz (installation qualification and operational qualification) is the qualification of the equipment according to the Procedures. Kuhner offers this service, which can also be carried out in the client's premises. Top BPM-60 BPM-60 (Bioprocess monitoring) is a non-invasive online measurement of dissolved oxygen and pH in Erlenmeyer flask. Continuous recording of dissolved oxygen and pH of dissolved oxygen and pH can be easily measured online with BPM-60. The system allows you to record one or both of the parameters in the same flask. The values of dissolved oxygen and/or pH can be controlled simultaneously in eight different flasks. Continuous data log, compared to the usual sampling, is automatic and consistent. The recorded data can be analyzed to detect oxygen restriction or inhibition and therefore optimize yields in shaken flasks. In addition, BPM-60 helps in the production of reproducible start-up crops for use in enzymes (see FDA PAT initiative). Not on battery mode The Integrated Outlet at the front of the shake table makes simple data transfer and power possible without the risk of wiring rupture. This technology does not require a battery. ISIS software to record data Kuhner ISIS Software is able to record data. In addition to recording dissolved oxygen and pH, you can also record all other shaker parameters, such as shaking rate and CO2 concentration. A full audit trail is also stored for each connected shaker. Top Clear FilterShakersOrbital rocked by bioreactors (OSB)AccessoriesAdd-ons New heating and cooling concept with an innovative ISF1-i Peltier incubator shakerA compact-sized shaker incubator with excellent temperature distribution and a reliable laboratory shakerStackable incubator for germs, Mammal and plant cells applicationsLarge incubator shaker with a minimum footprint and up to five independent shakers unitsSpace saving stackable incubator shaker available with options, Including CO2 and O2Orbital shaken bench bioreactor for disposable bagsOrbital shaken bioreactor for disposable bagsOrbital shaken bioreactor for disposable bagsExtent rack system with integrated shaking units suitable for temperature suitable for temperature controlled numbersFlexible shaking machine for heavy loads, Which can be customized to your requirements Being first on the market with products requires a more productive lab - the heart of a productive lab is the growing phase. From shakers with benches to large industrial shakers, Kuhner AG manufactures high-quality machines for customers around the world. Here's the Kuhner Shaker X EMI-60 External interface of the SMX856030Item has some very small traces of scuffs - apparently not used. The part was kept as a good spare in the local while the equipment it was for decommissioned. Please feel free to contact us if you have any questions. New features Shaker X EMI-60 External Machine InterfaceIneator description and specification:: Documentation: Documentation: kuhner shaker isf1-x manual. kuhner shaker ltx manual

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