

Product profile

Part number	1808-0506
Article name	BioShake iQ
Description	The BioShake iQ is a high-speed lab shaker, heater that lets you perform all your standard runs with a minimum of adjustments, and offers outstanding performance to handle a wide range of applications across biotechnology, pharmaceutical and academic research.
Recommended use	Lab Bench Shaking Heating Tubes, Vials, Microplates
Scope of delivery	BioShake iQ External power supply Power cords Europe & US Calibration certificate Operation manual
Conforming use	System is operated by qualified and trained research and laboratory personnel. Applicable safety standards or rules need always be fulfilled.
Country of origin	DE
Customs tariff code	8479 82 00

Mixing

Mixing frequency range*	200 to 3000 rpm with 50 rpm increment resolution
Mixing orbit	constant 2.0 mm diameter
Mixing regulation accuracy	± 25 rpm
Short-Mix function	Yes

* Feasible frequency heavily depends on load weight and height

Temperature control

Temperature range*	RT to 99 °C (RT to 211.82 F) with 1 °C increment resolution
Temperature accuracy	± 0.1 °C
Temperature uniformity*	±0.5 °C at 45 °C ±0.7 °C at 75 °C ±1.0 °C at 95 °C
Heating speed above RT*	~ 7 K/min (10 min from 21 °C to 95 °C)

* Value depends on the used thermo-adapter. Given value conditions: RT = 21 °C, Adapter = 2016-1041, 96-well PCR, adapter temperature

Thermo-adapter plates for different labware

Description	An adapter is required for optimal temperature transfer to and/or optimal fixation of labware and needs to be purchased separately. The adapter can be exchanged by the user.
Microplates	All microplates according ANSI-SLAS format 4-, 6-, 8-, 12-, 24-, 48-, 96-, 384-, and 1536-well microplates, deep well plates, PCR plates
Tubes and Vials	0.2, 0.5, 1.5, 2.0 ml standard tubes 2.0, 4.0, 6.0, 8.0, 10.0 ml cylindrical shaped vials
Others	Custom made adapter on request

Device control

Operation control	Device control is realized via a 10 button keypad. The parameters Time Mixing frequency Temperature can be set directly.
Display	2x 16 digits blue LCD with backlight
Status	All status information are shown on the LCD
Timer setting	1 min - 99 h with automatic switch to stand-by with optional audible alarm at the end of the process
Programming	2 separate programs with 3 steps each can be defined and saved in the internal memory

Electrical

Operating voltages	24 V DC I _{max} : 4.5 A P _{eff} : 85 Watt P _{max} : 108 Watt
Power supply	Input: 100 - 240 V AC 50 - 60 Hz Output: 24 V DC I _{max} : 5.0 A P _{max} : 120 Watt External power supply unit (CE/UL/CSA approved, 85-264 V AC, 47-63 Hz, IEC/EN60320-1 C14 Degree of protection: IP20)
Power connection*	Barrel connector ID 2.5 mm x OD 5.5 mm

*Only use the device with the delivered power cord. If another power cord is used ensure the wire diameter is adequate.

Operating, transport and storage conditions

Operating range	5 °C - 45 °C (41 - 113 F) 10 - 80 % RH up to 2000 m above sea level non-condensing
Floor base requirements	stable (resonance free) horizontal dry inside buildings even well ventilated and no direct exp. to sunlight
Transportation and storage	-10 °C - 60 °C (14 - 140 F) 10 - 80 % RH non-condensing

General properties

Housing material	Aluminum anodized
Degree of protection	IP20 (Protected against solid objects up to 12 mm No protection against water)
Pollution degree	1 (no contamination or only dry, non-conductive contamination, whereby the contamination has no influence)
Airborne sound emission	< 70 db (A)

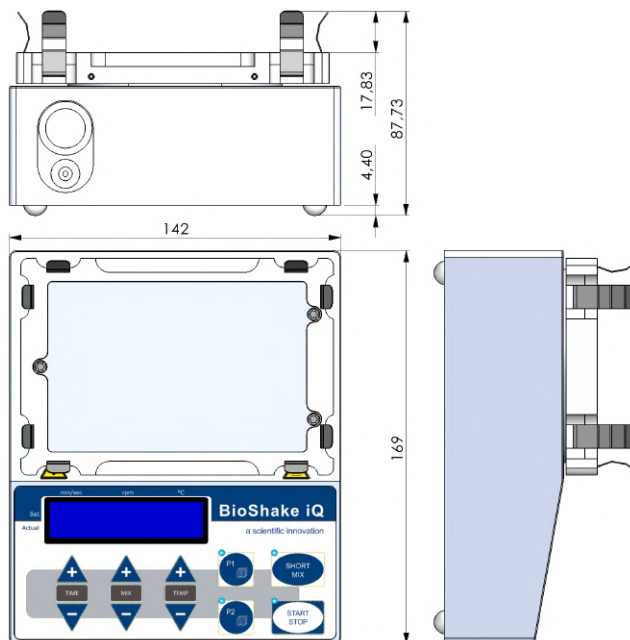
Dimension and weight

Dimensions	(W x D x H) 142 x 169 x 88 mm 5.59 x 6.65 x 3.46 inch
Weight	2.8 kg 6.2 lbs
Packaging size	(W x D x H) 495 x 260 x 100 mm 19.49 x 10.24 x 3.94 inch cardboard box
Packaging weight	3 kg 6.61 lbs

Certifications

Regulatory compliance	2014/30/EU, 2015/863/EU, 2011/65/EU, DIN EN 61010-1:2020-03, DIN EN 61010-2-010:2015-05, DIN EN 61010-2-051:2016-02, DIN EN 61326-1:2013-07, DIN EN 55011:2017-03, DIN EN 50581:2013-02 (based on)
Patents pending	WO2008135565, US8323588, EP2144716, WO2011113858, US9126162, EP2547431, WO2013113847, US10052598, EP2809436, WO2013113849, US9371889, EP2809435, WO2014207243, US20160368003, EP3013480, WO002022128814A1, WO002022128809A2 Please notify us or our designated agent, if you believe that a user has infringed our intellectual property rights.

Drawing



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