

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		
Maximum frequency*	< 80 g: 3000 rpm	< 120 g: 2500 rpm	< 150 g: 2200 rpm
	< 300 g: 1800 rpm	< 500 g: 1500 rpm	> 500 g: 1000 rpm
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. **Always** start with low frequencies and iterate upwards.

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 K at 45 °C	±0.7 K at 75 °C	±1.0 K at 95 °C
Heating speed above RT*	~ 7 K/min (10 min from 21 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

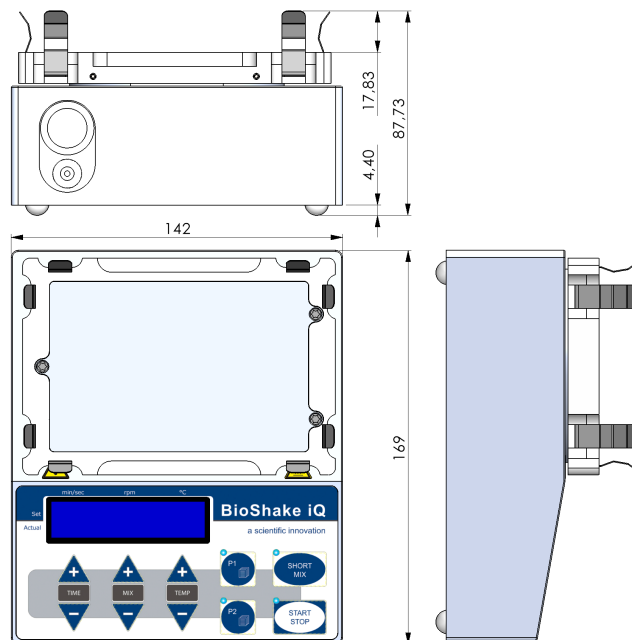
Operation control	Device control is realized via a 10 button keypad. The parameters Time Mixing frequency Temperature can be set directly.
Display	2x 16 digits blue LCD with backlight
Status	All status information are shown on the LCD
Timer setting	1 min - 99 h automatic switch to stand-by optional audible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

Electrical

Operating voltage	24 V DC Imax: 4.5 A Peff: 85 Watt Pmax: 108 Watt
Power supply	Input: 100 - 240 V AC 50 - 60 Hz Output: 24 V DC Imax: 5.0 A Pmax: 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) 347 x 252 x 131 mm 13.66 x 9.92 x 5.16 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 IEC 63000:2019-05
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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