

## Product profile

Part number	1808-0505
Article name	BioShake XP
Description	The BioShake XP is a high-speed lab shaker 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   Tubes, Vials, Microplates
Scope of delivery	BioShake XP   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.

## Adapter plates for different labware

Description	An adapter is required for fixation of tubes and vials and recommended for some microplates. The adapter needs to be purchased separately and 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 8 button keypad. The parameters Time   Mixing frequency 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   audible alarm at process end
Programming	2 separate programs with 3 steps each can be defined and saved in the internal memory

## Electrical

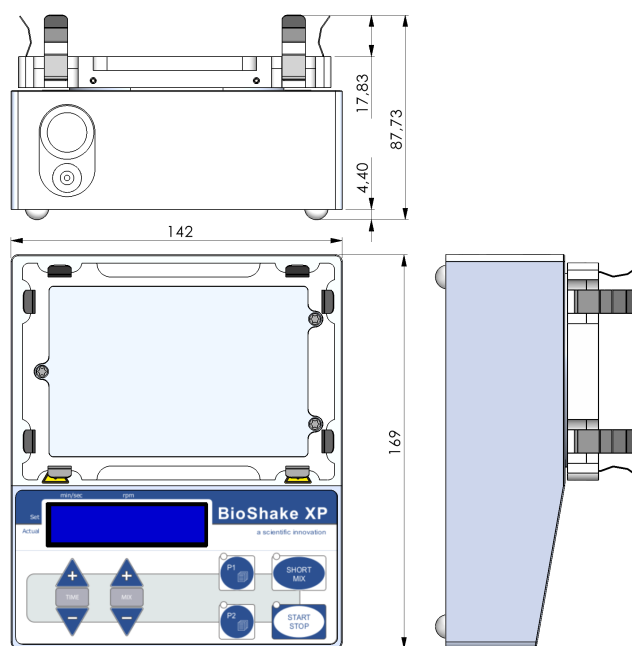
Operating voltage	24 V DC   Imax: 3.1 A   Peff: 15 Watt   Pmax: 75 Watt
Power supply	Input: 100 - 240 V AC   50 - 60 Hz
	Output: 24 V DC   Imax: 5.0 A   Pmax: 120 Watt External power supply unit (CE/UL/CSA approved, 85-264 V AC, 47-63 Hz, IEC/EN60320-1 C14   Degree of protection: IP20)
Power connection*	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
Transportation and storage	-10 °C - 60 °C (14 - 140 F)   10 - 80 % RH   non-condensing

<b>General properties</b>	
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)
<b>Dimension and weight</b>	
Dimensions	(W x D x H) 142 x 169 x 88 mm   5.59 x 6.65 x 3.46 inch
Weight	2.7 kg   5.95 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
<b>Certifications</b>	
Regulatory compliance	2014/30/EU, 2015/863/EU, 2011/65/EU, DIN EN 61010-1:2020-03, 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.
<b>Drawing</b>	



TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE!