

# TO SUPPORT SCIENTIFIC INNOVATION IN YOUR LAB

For comparable results of your assays, having identical conditions across the campaign is important. Choosing the right equipment for the tasks is a key element to success.

# With our products we enable:

- Comparable results and identical conditions across a campaign/run
- Reduce costs and time while increasing quality

# WHY THESE ASPECTS ARE IMPORTANT

# **ORBITAL SHAKING supports**

- Mixing liquids
- Gentle and reliable processing
- Dis-solving
- Reduce cycle time

### **TEMPERATURE CONTROL allows**

- Evaporation option extraction protocol
- Reduce cycle time
- Constant and controlled parameter
- Activate / deactivate

### **POSITIONING** enables

- Exact positioning of labware on shaker
- Homogeneous force transfer into sample

- Keep material (cells, beads) in suspension
- Homogenization of samples
- Avoid cross contamination and reduce consumable usage
- Avoid losing reagent activity or degradation
- Optimal temperature for reagents such as cell media, enzymes, antibody, proteins, PCR mastermix
- Optimal thermal transfer via adapter
- Pipette while shaking
- Plate transfer and pipetting on exact position

# ORDERING INFORMATION

ORDER NO.	FEATURE	INSTRUMENT	
2016-0100*	Heat	HeatPlate	Professional heater thermoblock (RT to 99°C)
2016-0110*	Heat+Cool	ColdPlate	Professional heater-cooler thermoblock (-10 to 99°C, 25 K below RT)
2016-0111*	Heat+Cool	ColdPlate slim	Professional heater-cooler thermoblock, low construction (-10 to 99°C, 25 K below RT)
2016-0015*	Shake	BioShake D30	3.0 mm orbital shaker (200 - 2,000 rpm, orbit <b>3.0 mm</b> )
2016-0025	Shake	BioShake D30 elm	3.0 mm orbital shaker with ELM (200 - 2,000 rpm, orbit 3.0 mm)
2016-0016*	Shake	BioShake 3000	Universal orbital shaker (200 - 3,000 rpm, orbit 2.0 mm)
2016-0017	Shake	BioShake 3000 elm	High-End microplate shaker with ELM (200 - 3,000 rpm, orbit 2.0 mm)
2016-0018	Shake	BioShake 3000 elm DWP	Ideal shaker for heavy deep well plates with ELM (200 - 3,000 rpm, orbit 2.0 mm)
2016-0022	Shake	BioShake 5000 elm	384/1536 well plate shaker with ELM (200 - 5,000 rpm, orbit 1.2 mm)
2016-0519*	Shake+Heat	BioShake D30-T	3.0 mm orbital thermoshaker (RT to 99 °C, 200 - 2,000 rpm, orbit <b>3.0 mm</b> )
2016-0518*	Shake+Heat	BioShake D30-T elm	3.0 mm orbital thermoshaker with ELM (RT to 99 °C, 200 - 2,000 rpm, orbit <b>3.0 mm</b> )
2016-0516*	Shake+Heat	BioShake 3000-T	Universal Thermoshaker (RT to 99°C, 200 - 3,000 rpm, orbit 2.0 mm)
2016-0517*	Shake+Heat	BioShake 3000-T elm	High-End Microplate Thermoshaker with ELM (RT to 99 °C, 200 - 3,000 rpm, orbit 2.0 mm)
2014.0400*	Chalandan Cad	D: Cl. I . O1	Defended by the standard by the 120 to 00 0°C 24 K below DT 200 2 000 to 20
2016-0600*	Shake+Heat+Cool	BioShake Q1	Professional heater-cooler shaker (-20 to 99.9°C, 24 K below RT, 200 - 3,000 rpm, orbit 2.0 mm)
2016-0601*	Shake+Heat+Cool	BioShake Q1 3.0mm	Professional heater-cooler shaker (-20 to 99.9°C, 24 K below RT, 200 - 2,000 rpm, orbit 3.0 mm)
2016-0620*	Shake+Heat+Cool	BioShake Q2	Vials/Tubes heater-cooler shaker (-20 to 99.9°C, 24 K below RT, 200 - 2,000 rpm, orbit <b>3.0 mm</b> )

<sup>\*</sup> Adapters are required but not included in delivery and have to be ordered separately

# A VARIETY OF STANDARDIZED THERMAL ADAPTER PLATES

For all automation units QINSTRUMENTS offers high precision adapter plates to allow a perfect fit for all kinds of standard tubes, vials, microplates and other different disposables. The adapter plates are optimized for an excellent heat transfer to the disposables and enhance the uniformity over all wells and the heat up or cool down time. The exchange of adapter plates can be performed very easily within one minute.

https://www.ginstruments.com/automation/adapter/

QINSTRUMENTS is owner of numerous patents worldwide. Please respect our intellectual property.

WO2008135565, US8323588, EP2144716: Sample handling device for and methods of handling a sample WO2011113858, US9126162, EP2547431: Positioning unit for a functional unit WO2013113847, US10052598, EP2809436: Cog-based mechanism for generating an orbital shaking motion WO2013113849, US9371889, EP2809435: Mechanism for generating an orbital motion or a rotation motion by inversing a drive direction of a drive unit WO2014207243, US20160368003, EP3013480: Application-specific sample processing by modules surrounding a rotor mechanism for sample mixing and

WO002022128809A2: Laboratory apparatus comprising a mixing mechanism for mixing a medium of a slide

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Technical specifications are subject to change without notice















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#### THE RIGHT PRODUCT IS JUST 3 QUESTIONS AWAY! Where is the system used? Which feature is required? What labware is used? Shake Shake Heat **Shake** Heat +Cool + Heat Heat +Cool BioShake 5000 elm Microplate - High Density 384 low volume | 1536 BioShake BioShake 2016-0022 3000-T elm Q1 BioShake 2016-0517 2016-0600 Microplate - Medium Density 3000 elm Shallow well 96 | 384 2016-0017 BioShake D30 elm ColdPlate Microplate - Low Density 24 | 48 | 96 | Microplate Reservoir BioShake D30-T elm BioShake 2016-0025 HeatPlate Q13.0mm 2016-0100 **BioShake** ColdPlate sli 2016-0601 2016-0518 Deep Well Plates 3000 elm DWP 48 | 96 | 384 2016-0018 neight reduced BioShake Tubes | Vials - Small 3000-T 0.5 - 2.0 ml Tubes | PCR Tubes BioShake 2016-0016 2016-0516 Q2 BioShake D30 BioShake 2016-0620 Tubes | Vials -Large D30-T > 2.0 ml Tubes | FALCON® Tubes 2016-0015 2016-0519 BioShake BioShake Tubes | Vials 808-0505 1808-0506 BioShake BioShake Microplates 1808-0506 308-0505 OEM | please get in contact for more details **INTEGRATED INTO DEVICE** NO adapter required Shake Heat Heat + Cool Precise temperature control and unifor-Large-area heating elements The unique and patented technique mity in the range of 24 K below RT up to and sensors realize a uniform of planar orbital motion offers an heating surface and enable 99°C is achieved by using the novel peltier ultra-efficient, 2-dimensional shakina heating from abmient to 99°C. technology in combination with minimized elecprocess with a constant orbit, indetronics and reliable control algorithms.

pendent from the shaking speed.

