

# ORBITAL SHAKING INCUBATOR

## ORB-3689



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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## **MECHANICAL STRUCTURE :**

Three-axis off-center actuating structure has undergone strict mathematic analysis, and is a high-performance product proven by long-term stability operation which adopts axletrees with best abrasion resistance and maintenance-free, long service time, brushless actuating system with unidirectional flow, its base frame adopts vermicular casting technique which has the best stability. Advanced numerically controlled processing technique ensures high reliability and stability for the mechanical structure itself. Scientific off-center weight balancing data ensures long service time for the three-axis off-center actuating machine itself

Three-axis off-center actuating structure ensures stable start-up and half of the samples. No sudden dithering during operation which prevent cells sensitive to shearing force from dying or being harmed.

The error for mechanical processing of the machine is less than 0.005mm, and the general rigging error is less than 0.02mm of deviation, which ensures long service time, stability and non vibration for the machine.

## **OPERATING SYSTEM :**

Advanced fuzzy logic PID controlling system provides precise rotation speed, temperature control for product, and operating time.

Membrane touching keys are adopted in an operating system which also has large-scale liquid crystal display, Rs232 interface reserved, optional communication software.

Standard mode and program mode for operating system, the former one can be configured through menu with fixed temperature, rotation speed and time. Temperature, rotation speed and time can be configured as required by the users under program mode, which also has timed shutdown function.

Top and bottom temperature configuring limit alarm for temperature control system with independent mechanical overtemperature protection device.

## **AIR DUCT STRUCTURE :**

An unique air duct structure with top duct intake and bottom duct for return, high-quality axial flow fan, condenser and evaporator that transfer heat rapidly, together they ensure homogeneity and precision of temperature.

## **COOLING SYSTEM :**

Use environmental R134a cryogen, designed to contain overvoltage crowbar circuit and voltage relief circuit and has automatic defrosting function.

## PERFORMANCE :

Control manner	: PID intelligent controller (LED)
Vibrating manner	: Convolution and convolution
Rotation speed(Precision)	: 15 ~ 300 RPM + 1RPM and 15 ~ 500 RPM +1 RPM
Maximum load	: 1000ml x 9 maximum
Temperature precision	: + 0.1 (0~999h)
Temperature controlling	: 4°C ~ 60°C
Temperature homogeneity	: +1°C

## SPECIFICATION :

Size of shaking plate(mm)	: 460mm x 460mm
Container(mm)	: (W) x (L) x (H) - 520 x 550 x 450mm
Size of contour(mm)	: (W) x (L) x (H) - 620 x 840 x 630mm
Shaking Capacity	: -36x 100ml, 24 x 250 ml, 16 x 500 ml, 8 x 1000 ml, and 4 x 2000 ml flasks.

## PARAMETER :

Power capacity	: 220V 50/60Hz 800VA 200V 50/60Hz 800VA
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