



AGILE

FOUR 2



**PREMIUM SHAKERS**



ISO  
9001:2015

# Open Type Shakers



Agile open air shakers are designed to suit researchers application demand in cultivating microbial, tissue culture, and cell culture. The constant agitation with uniform amplitude provides the optimum oxygen transfer to the cultures resulting in better growth and homogenous yield.

## Features :

- Heavy duty Brushless motor with variable frequency Drive (VFD)
- Built in microprocessor based controller with audio visual alarm
- Orbital motion speed from 50 to 350 rpm.
- Maintenance free 5 Asyentric system

Models: **ATRS-124 | ATRS-136 | ATRS-148**

Size (WxDxH) mm: 700 x 700 x 500 | 995 x 995 x 500 | 1280 x 1280 x 800

Flask Capacity 1000 ml 25 | 49 | 81

Flask Capacity 500 ml 36 | 64 | 100

Flask Capacity 250 ml 49 | 64 | 81

Flask Capacity 150 ml 49 | 81 | 144

Weight (kg) 98 | 140 | 210

## ATRS-148 DX

Size (WxDxH) mm 1280 X 1280 X 800

Flask Capacity 5000 ml 5000 x 25

Weight 240 kg

## CLAMP HOLDING CONICAL FLASK

ASHC-5000 CAPACITY 5000 ML

ASHC-2000 CAPACITY 2000 ML

ASHC-1000 CAPACITY 1000 ML

ASHC-500 CAPACITY 500 ML

ASHC-250 CAPACITY 250 ML

ASHC-150 CAPACITY 150 / 100 ML



# Incubated & Large Volume Shakers

## Incubated Shakers

Agile incubator shakers provide very broad temperature capabilities for culturing a wide variety of organisms in flasks up to 150L and 200L total volume. Refrigeration module is built into the ATIS124 at any time. Large capacity floor standing incubated shakers provide up to five 6L flasks and offer heavy workload shaking with rapid heating and cooling performance.

### Features :

- Heavy duty Brushless motor with variable frequency Drive (VFD)
- Inner body made of stainless steel 304.
- Built in microprocessor/PLC based controller with audio visual alarm
- Orbital motion speed from 50 to 300 rpm.
- Maintenance free 5-pin essentric mechanism.
- Audio alarms

**Models:** ATIS-124A-150 | ATIS-124A-200 | ATIS-124C-150 | ATIS-124C-200

**Size (WxDxH) mm:** ATIS-124A-150: 700 x780 x 1000 ATIS-124A-200) 800 x780 x 1000 ATIS-124C-150 : 700 x780 x 1200 ATIS-124C-200 : 800 x780 x 1200

**Temp. range:** ATIS-124A: 5 degree above amb. to 60 Degree C. ATIS-124C: 4 Degree C to 60 Degree C

**Volume:** 150 & 200 Litres .

**Accuracy:** ± 0.5°C

**Weight:** 100 / 120 kgs

**Platform size:** 150L: 540x580mm/ 200L: 600x600mm

**Flask Holder Capacity:** 150L:1000mL(9nos.), 500mL(12Nos.), 250mL&150mL(24nos.)/ 200L: 1000mL(16nos.), 500mL(25nos.),250mL&150mL(36nos.)



## Large Incubated Shakers

- Temperature range: Ambient +5°C to 80 °C for AT LS-7100 . Ambient -20°C (Min. +4) to 80°C for AT LS-7100R
- Competitive high shaking speed up to 500 rpm. Orbital shaking motion in various diameter.
- Three point temperature calibration / Automatic tuning.
- Wide speed range even with heavy workload. Ideal DD (Direct Drive) brushless motor and triple cam system support heavy load, quiet, maintenance free operation and deliver high torque at high speeds and smooth rotation.
- Automatic shaking speed adjustment in case of excessive workload such as unbalanced load placement, unusual vibrations caused from unstable floor or external shock.
- Pleasant test environment by the smooth acceleration and deceleration control.
- Smooth start and smooth stop function prevents chemical spills from flasks or test tubes.
- High-velocity fan ensures uniform temperature distribution and rapid thermal recovery after door open.
- Touch screen PLC controller with easy icons and logical menus.
- Easy-set digital timer for shaking operation. (1 min. to 999 hr. 59 min.)

- Easy sample monitoring and convenient sample loading. The lid is inclined gently towards the front for easy observation of samples in the chamber.
- Repetitive task can be easily performed as the platform stops where it starts. Stopping the shaking platform always at the same position is highly beneficial for automated dosing or sampling process.
- Corrosion resistance stainless steel interior.
- Easy-access drain system with a quick disconnect valve offers great convenience to clean up of spills.
- Built-in RS-232 port and USB port for external control and data collection.
- Sturdy foot caster, beneficial for easy mobility during installation or relocation.
- Automatic run after power interruption.
- Temperature and shaking speed deviation alarm.
- Over-current protection.
- Triple independent temperature monitor system. Temperature deviation alarm (High/Low), Electronic temperature limiter (High/Low), Mechanical over-temperature limiter (High), Environment-friendly CFC-free refrigerant. (AT LR-7100R)



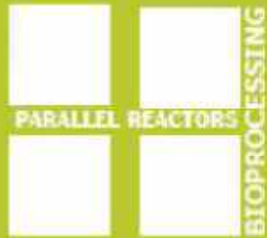
## Stackable Multilevel Shaker

Stackable shakers with optimum foot print with 3 levels  
Innerchamber can support maximum of upto 6litres flasks.  
Advanced color Touch screen PLC based control system for easy operations  
Complete stainless steel interiors with curved corners for easy cleanability.

See our [FOUR SQUARE PARALLEL PROCESSING](#) for advanced bioprocessing



**FOUR 2**



PARALLEL REACTORS

BIOPROCESSING

## Are you thinking of multi-deck shakers?

Why do you need a multi-deck shaker when you have equivalent and more advanced Parallel reactors that help to control temperature, RPM and various other parameters in individual reactors.

- Parallel operation of up to 16 glass bioreactors
- Advanced and user-friendly temperature control Suitable for both cell culture and microbial fermentation
- Control of agitation, temperature and optional pH level and DO (including customizable cascade modes) in each bioreactor
- Variable speed peristaltic pumps for accurate liquid addition and operation in batch, fed-batch, continuous and cyclic perfusion mode
- Optional individual gas mixing of air, N<sub>2</sub>, O<sub>2</sub> and CO<sub>2</sub>
- 7"/10" large touch screen to monitor the parameters of all the reactors

**Proven performance and scalability of stirred-tank design - User-friendly set-up for rapid turnaround, shorter development times and lower operating costs**



## Our Service Policy

Our aim is to provide quality after-sales service to our customers through our continuous pursuit of excellence in our processes and our people.

We are committed to professionalism, we are determined to deliver quality service while maintaining a high standard of integrity in our dealings with our customers.

We are committed to deliver the required spare parts and consumables on time with with a assured benchmark pricing on our consumables and spares.

We are continuously improving our response time and turn-around time to ensures customer delight.



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