



# Shaking Incubators

Antech unique technology on the motor driving and tray balance controlled by the PID microprocessor enable the shaking more smooth, stable and safe.

Scope of application: Bacterial suspension preparation/Solubility test

Extraction experiment/Sample mixing/Dyeing and decoloring

Hybridization experiment/Diagnostic test/Elution process

Protein/Plasmid purification

## Features

- Up to three units can be superimposed, and they can also be placed on or under the stage independently.
- In order to improve the cultivation effect, it can be switched to oscillate and reciprocate.
- 7-inch large-screen color touch screen, easy to operate.
- The front door design is more ergonomic and easy to operate.
- 304 stainless steel mirror arc corners in the working chamber.
- Original single-axis balanced drive technology, ultra-low mute.
- Intelligent acousto-optic alarm environment scanning micro-processing controller.
- The operating parameters are encrypted and locked to avoid human misoperation.
- Run parameter memory function to avoid tedious operation.



## General Control

P.I.D microprocessor with LCD display shows icons and logical menus.  
Automatic run is available with non-volatile set point memory after power interruption.

## Shaking Control

Speed range: 30 to 300 rpm. Stroke : 25mm. Timer range: 0 to 999 hours 59 min.  
Audible/Visible alarm for shaking speed deviation.  
Automatic shaking speed adjustment in case of excessive workload such as unbalanced load placement, unusual vibrations caused from unstable floor or external shock.

## Temperature Control

Min. +4) to 60°C (for ATS-2019)  
Microprocessor PID control and auto-tuning.  
Temperature adjustment is 0.1°C,  
Audible and visible alarm for high and low temperature

## Accessories

UV germicidal light keeps the chamber contamination free.  
LED light for users easy to observe shaking condition



## Flask Capacity

Flask Capacity	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml	3000ml	5000ml
ATS-2019	25	25	16	9	9	9	5	—	—



## Specification

<b>Product model</b>	<b>ATS-2019</b>
Chamber volume	80L
Shaking mode	Orbital/Reciprocal
Shaking Speed	30-300RPM
Stoke	25mm
Temperature Range	4 ℃~60 ℃
Performance	Heated and Refrigerated
Tray size (W*D)	420*400mm
Control	3
Control mode	P. I. D Microprocessor
Display	Fixed value or program (upto 8 segment)
Air Convection	7" LCD touch screen
Ambient temperature	Forced Air
Temperature Accuracy	10-35 ℃
Temperature uniformity	0.1 ℃
Shaking Speed	≤± 1 ℃ (at 37 ℃)
Stroke Accuracy	±1RPM
Timer	0-999hour 59 minutes
Tray Quantity	1
Net weight	100KGs
Interior size	495*455*370mm
Exterior size	580*720*580mm
Accessory	LED light/UV lamp
Power	580W
Voltage	AC 200~240V 50H or AC 200~240V 60Hz
Interior material	High-quality 304 stainless steel Mirror type
Exterior material	High-quality cold rolled steel with electrostatic powder spraying
Safety	"Audible and visible: High/low temperature, high/low shaking speed Electrical overload protection, Electrical leakage protection, Compressor overload protection"

## Order information

<b>FT001</b>	T clamp,S/S,with spring retainer for 50mL flask	<b>FT007</b>	T clamp,S/S,with spring retainer for 750ml flask
<b>FT002</b>	T clamp,S/S,with spring retainer for 100mL flask	<b>FT008</b>	T clamp,S/S,with spring retainer for 1000ml flask
<b>FT003</b>	T clamp,S/S,with spring retainer for 150ml flask	<b>FT009</b>	T clamp,S/S,with spring retainer for2000ml flask
<b>FT004</b>	T clamp,S/S,with spring retainer for 250ml flask	<b>FT010</b>	T clamp,S/S,with spring retainer for 3000ml flask
<b>FT005</b>	T clamp,S/S,with spring retainer for 300ml flask	<b>FT011</b>	T clamp,S/S,with spring retainer for 5000ml flask
<b>FT006</b>	T clamp,S/S,with spring retainer for 500ml flask		

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## Features

- Up to three units can be superimposed, and they can also be placed on or under the stage independently.
- In order to improve the cultivation effect, it can be switched to oscillate and reciprocate.
- 7-inch large-screen color touch screen, easy to operate.
- The front door design is more ergonomic and easy to operate.
- 304 stainless steel mirror arc corners in the working chamber.
- Original single-axis balanced drive technology, ultra-low mute.
- Intelligent acousto-optic alarm environment scanning micro-processing controller.
- The operating parameters are encrypted and locked to avoid human misoperation.
- Running parameter memory function to avoid tedious operation



## General Control

P.I.D microprocessor with LCD display shows icons and logical menus.  
Automatic run is available with non-volatile set point memory after power interruption.

## Shaking Control

Speed range: 30 to 300 rpm. Stroke : 25mm. Timer range: 0 to 999 hours 59 min.  
Audible/Visible alarm for shaking speed deviation.  
Automatic shaking speed adjustment in case of excessive workload such as unbalanced load placement, unusual vibrations caused from unstable floor or external shock.

## Temperature Control

Ambinet. +5°C to 60 °C (forATS-2020)  
Min. +4) to 60°C (for ATS-2020R)  
Microprocessor PID control and auto-tuning.  
Temperature adjustment is 0.1°C,  
Audible and visible alarm for high and low temperature

## Accessories

UV germicidal light keeps the chamber contamination free.  
LED light for users easy to observe shaking condition



## Flask Capacity

Flask Capacity	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml	3000ml	5000ml
ATS-2020	42	42	30	20	12	12	6	5	—
ATS-2020R	42	42	30	20	12	12	6	5	—



## Specification

Product model	ATS-2020	ATS-2020R
Chamber volume	122L	
Shaking mode	Orbital/Reciprocal	Orbital/Reciprocal
Shaking Speed	30-300RPM	
Stoke	25mm	
Temperature Range	Ambient +5 C ~60 C	4~60 C
Performance	Heated	Heated and Refrigerated
Tray size (W*D)	1	1
Control	542*445mm	
Control mode	3	3
Display	P. I. D Microprocessor	
Air Convection	Fixed value or program (upto 8 segment)	
Ambient temperature	7" LCD Touch screen	
Temperature Accuracy	Forced Air	
Temperature uniformity	10-35 C	
Shaking Speed	0.1 C	
Stroke Accuracy	≤± 1 C (at 37 C )	
Timer	±1RPM	
Tray Quantity	0-999hour 59 minutes	
Net weight	105KGs	
Interior size	610*505*395mm	
Exterior size	910*710*630mm	
Accessory	LED light/UV lamp	
Power	600W	800W
Voltage	AC 200~240V 50H or AC 200~240V 60Hz	
Interior material	High-quality 304 stainless steel Mirror type	
Exterior material	High-quality cold rolled steel with electrostatic powder spraying	
Safety	"Audible and visible: High/low temperature, high/low shaking speed Electrical overload protection, Electrical leakage protection, Compressor overload protection"	

## Order information

<b>FT001</b>	T clamp,S/S,with spring retainer for 50mL flask	<b>FT007</b>	T clamp,S/S,with spring retainer for 750ml flask
<b>FT002</b>	T clamp,S/S,with spring retainer for 100mL flask	<b>FT008</b>	T clamp,S/S,with spring retainer for 1000ml flask
<b>FT003</b>	T clamp,S/S,with spring retainer for 150ml flask	<b>FT009</b>	T clamp,S/S,with spring retainer for2000ml flask
<b>FT004</b>	T clamp,S/S,with spring retainer for 250ml flask	<b>FT010</b>	T clamp,S/S,with spring retainer for 3000ml flask
<b>FT005</b>	T clamp,S/S,with spring retainer for 300ml flask	<b>FT011</b>	T clamp,S/S,with spring retainer for 5000ml flask
<b>FT006</b>	T clamp,S/S,with spring retainer for 500ml flask		

# Shaking Incubators

Antech unique technology on the motor driving and tray balance controlled by the PID microprocessor enable the shaking more smooth, stable and safe.

Scope of application: Cell culture/Extraction experiment

Sample mixing/Hybridization experiment/Solubility test

Plasmid purification/Bacterial suspension preparation/Elution process



## Features

- At most three units can be superimposed and still only occupy the area of one shaker.
- The downturn door design, convenient pull-out pallet, easy to operate.
- 304 stainless steel mirror arc corners in the working chamber.
- Original single-axis balanced drive technology, ultra-low mute.
- Intelligent acousto-optic alarm environment scanning micro-processing controller.
- The large LCD screen displays the set parameters and measured parameters.
- The operating parameters are encrypted and locked to avoid human misoperation.
- Run parameter memory function to avoid tedious operation.



## General Control

P.I.D microprocessor with LCD display shows icons and logical menus.  
Automatic run is available with non-volatile set point memory after power interruption.

## Shaking Control

Speed range: 30 to 300 rpm. Stroke : 25mm. Timer range: 0 to 999 hours 59 min.  
Audible/Visible alarm for shaking speed deviation.  
Automatic shaking speed adjustment in case of excessive workload such as unbalanced load placement, unusual vibrations caused from unstable floor or external shock.

## Temperature Control

Ambinet. +5°C to 60 °C (forATS-2012/D2012/F2012)  
Min. +4) to 60°C (for ATS-2012R/D2012R/F2012R)  
Microprocessor PID control and auto-tuning.  
Temperature adjustment is 0.1°C,  
Audible and visible alarm for high and low temperature

## Accessories

UV germicidal light keeps the chamber contamination free.  
LED light for users easy to observe shaking condition



## Flask Capacity

Flask Capacity	50ml	100ml	250ml	500ml	750ml	1000ml	2000ml	3000ml	5000ml
ATS-2012 Series	54	54	40	28	15	15	12	—	—





## Specification

Product model	ATS-2012	ATS-D2012	ATS-F2012	ATS-2012R	ATS-D2012R	ATS-F2012R
Control	189L	189L	189L	189L	189L	189L
Control mode	Orbital	Orbital	Reciprocal	Orbital	Orbital	Reciprocal
Display	30-300RPM	30-300RPM	30-300RPM	30-300RPM	30-300RPM	30-300RPM
Air Convection	25mm	50mm	25mm	25mm	50mm	25mm
Shaking mode	+5 C ~60 C			4~60 C		
Chamber volume	Heated			Heated and Refrigerated		
Ambient temperature	800*500mm					
Performance	P. I. D Microprocessor					
Temperature Range	Fixed value or program (upto 8 segment)					
Temperature Accuracy	7" LCD Touch screen					
Temperature uniformity	Forced Air					
Shaking Speed	10-35 C					
Stroke Accuracy	0.1 C					
Stoke	≤± 1 C (at 37 C )					
Timer	±1RPM					
Tray size (W*D)	0-999hour 59 minutes					
Tray Quantity	1	1	1	1	1	1
Net weight	160KGs	160KGs	160KGs	180KGs	180KGs	180KGs
Interior size	920×550×395mm					
Exterior size	1410*785*1280mm					
Accessory	LED light/UV lamp					
Power	980W			1200W		
Voltage	AC 200~240V 50H or AC 200~240V 60Hz					
Interior material	High-quality 304 stainless steel Mirror type					
Exterior material	High-quality cold rolled steel with electrostatic powder spraying					
Safety	"Audible and visible: High/low temperature, high/low shaking speed Electrical overload protection, Electrical leakage protection, Compressor overload protection"					

## Order information

<b>FT001</b>	T clamp,S/S,with spring retainer for 50mL flask	<b>FT007</b>	T clamp,S/S,with spring retainer for 750ml flask
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