



## Rapid Temperature Change and Climate Test Chambers

Global Leading Integrated Solution Provider for Environmental and Climatic Simulation Test

### Features

- Homogenous temperature linear changing rates: 5℃/min, 10℃/min, 15℃/min, 20℃/min.
- Dry air blowing system prevents specimen's surfaces from dewing in rapid temperature change.
- Fashionable design of modular construction.
- 7" colour touch screen display and 32 bit control system; interface Ethernet/USB.
- 4 load power outlets for specimens with programmable control for protection.
- Special air circulation system inside ensures testing accuracy. (Patented)
- Design with independent sensors to prevent specimens from damages caused by dewing, overheat, breezeless and smog.
- Special anti-condensation structures design to avoid misjudgment and improve testing accuracy in climate testing. (Patented) (ECS Series)
- Optional network video monitoring and data synchronization.
- Optional APP mobility management.
- Automatic water supply with ultrapure filter devices (optional) ; water shortage reminder function. (ECS Series)
- Strong control abilities of extreme-low humidity range 20℃/10% R.H.. (ECS Series)
- Environment-friendly refrigerating control technology : energy saving and rapid heating/cooling rate.
- Unique operation mode: make testing area's temperature back to room temperature after tests are finished.
- Automatic reminder of equipment maintenance plans and software of recording malfunction.
- Optional remote-assist service function and teaching CDs.

### Specifications

| Model (5℃/min)                   | ETS/ECS<br>4018-5 | ETS/ECS<br>7018-5 | ETS/ECS<br>4034-5 | ETS/ECS<br>7034-5 | ETS/ECS<br>4060-5 | ETS/ECS<br>7060-5 | ETS/ECS<br>4100-5 | ETS/ECS<br>7100-5 | ETS/ECS<br>4150-5 | ETS/ECS<br>7150-5 |
|----------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Test Space Volume (L)            | 190               |                   | 335               |                   | 600               |                   | 990               |                   | 1540              |                   |
| Temperature Test Parameters:     |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Temp. Range (℃)                  | -40/+180          | -70/+180          | -40/+180          | -70/+180          | -40/+180          | -70/+180          | -40/+180          | -70/+180          | -40/+180          | -70/+180          |
| Temp. Constancy (℃)              | ±0.1~±0.5         |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Temp. Homogeneity (℃)            | ±0.5~±2.0         |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Heating/Cooling down Rate(℃/min) | 7.0/8.0           | 7.5/7.5           | 6.5/6.8           | 6.8/6.7           | 6.0/6.5           | 6.0/6.0           | 6.1/6.7           | 6.1/6.0           | 6.0/6.3           | 6.0/5.0           |
| Test Space Dimension (mm)        | 580W×450D×750H    |                   | 580W×765D×750H    |                   | 800W×800D×950H    |                   | 1100W×950D×950H   |                   | 1100W×1475D×950H  |                   |

| Model (10℃/min) | ETS/ECS<br>4034-10 | ETS/ECS<br>7034-10 | ETS/ECS<br>4060-10 | ETS/ECS<br>7060-10 | ETS/ECS<br>4100-10 | ETS/ECS<br>7100-10 | ETS/ECS<br>4130-10 | ETS/ECS<br>7130-10 |
|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Model (15℃/min) | ETS/ECS<br>4034-15 | ETS/ECS<br>7034-15 | ETS/ECS<br>4060-15 | ETS/ECS<br>7060-15 | ETS/ECS<br>4100-15 | ETS/ECS<br>7100-15 | ETS/ECS<br>4130-15 | ETS/ECS<br>7130-15 |

| Temp. Test Parameters:       |                |           |                |           |                 |           |                  |           |          |          |
|------------------------------|----------------|-----------|----------------|-----------|-----------------|-----------|------------------|-----------|----------|----------|
| Temp. Range (℃)              | -40/+180       | -70/+180  | -40/+180       | -70/+180  | -40/+180        | -70/+180  | -40/+180         | -70/+180  | -40/+180 | -70/+180 |
| Temp. Constancy (℃)          | ±0.3~±0.8      |           |                |           |                 |           |                  |           |          |          |
| Temp. Homogeneity (℃)        | ±0.5~±2.0      |           |                |           |                 |           |                  |           |          |          |
| Heating/Cooling Rate (℃/min) | 10.0/12.5      | 10.0/14.5 | 10.0/12.5      | 10.0/11.0 | 12.0/12.0       | 12.0/12.0 | 12.0/11.5        | 11.0/10.5 |          |          |
| Heating/Cooling Rate (℃/min) | 16.0/16.0      | 17.0/18.0 | 16.0/18.0      | 17.0/15.0 | 16.0/18.0       | 16.0/15.5 | 16.0/17.5        | 16.0/14.5 |          |          |
| Test Space Dimension (mm)    | 580W×765D×750H |           | 800W×800D×950H |           | 1100W×950D×950H |           | 1100W×1300D×950H |           |          |          |

| Climate Test Parameters : (ECS Series) |                          |
|--|--------------------------|
| Temp. Range (℃)                        | +10~+95                  |
| Humid. Range (%RH)                     | 10~95                    |
| Dew Point Temp. Rate (℃)               | -3~+94                   |
| Humid. Constancy (%RH)                 | ±1.0~±3.0                |
| Temp. Constancy (℃)                    | ±0.1~±0.5                |
| Temp. Homogeneity (℃)                  | ±0.5~±2.0                |
| Power                                  | AC380V±10%, 50HZ, 3/N/PE |
| Cooling Methods                        | Water - Cooled           |

### Options

- Independent sensors for specimen protection (N E60519-2.1993)
- 1 Entry portΦ100mm Automatic water supply device
- Nitrogen gas auxiliary device
- Spare parts package
- E-management and cyber-software
- Video monitor system
- APP for mobility management

### Standard Version

- 3 Power outlets for test specimen
- Left and right entry ports Φ50mm
- 2 Silicon stoppers for entry ports
- 2 Stainless steel shelves
- Drier filter for compressing air
- 1 Water tank with 20L for ECS series
- 1 Water filter for ECS series

Envsin reserves the interpretation right to the products, which are subject to changing without notice!

Add: 1412 HeCheng Century Building, Wuhe Road, BanTian District, ShenZhen City, China. 518129

Tel: (86) 0755-84571566

Fax: (86) 0755-84571499

Email:sales@envsin.com

http://www.envsin.com