

ENVSIN INSTRUMENT EQUIPEMNT CO., LTD

Factory Address: Gongye 2nd Road , Langzhou Industry Area, Changping Town, Dongguan City, Guangdong, China
Headquarter: 1412 Hecheng Century Building, Wuhe Road, Bantian District, Shenzhen, China 518129
Web: www.envsin.com

Envsin is a provider of Integrated Testing Solution Involving Humidity, Temperature, Altitude, Light, Vibration, Mechanics, Dustproof and Waterproof. The products manufactured are widely applied in areas of aerospace, electronics, automotive, pharmacy and chemistry industry, machinery equipment, defense, etc. At present Envsin is a nominated supplier for Foxconn, Cisco, ABB, Apple Inc., Dupont, etc.

We are searching for distributors or agents around the world. If you are interested to our products or in need of special industry solution, please contact us for more details.



Product Catalogue

1. Temperature Test Chambers
2. Temperature and Climate Test Chambers
3. Walk-In Temperature and Climate Test Chambers
4. Temperature Shock Test Chambers -2 zones
5. Temperature Shock Test Chambers -3 zones
6. Pharmaceutical stability Test Chambers and Rooms
7. High Temperature Aging Chambers and Rooms
8. Robot Intelligent Climate Test Chambers
9. Vibration Combined with Temperature and Climate Test Chambers
10. Temperature/Humidity/Altitude/Light/Ventilation Weathering Resistance Combined Test Chambers
11. Rapid Temperature Change and Climate Test Chambers
12. Spray and Rain Test Chambers
13. Sand Dust Test Chamber Series
14. Thermal Shock Test Chambers
15. Liquid to Liquid Thermal Shock Test Chambers
16. Environmental Stress Screening Test Chambers
17. Material Tensile Tester Series (Brochure available when required)

Temperature Test Chambers



| Model | ET4008 | ET7008 | ET4018 | ET7018 | ET4034 | ET7034 | ET4060 | ET7060 | ET4100 | ET7100 |
|------------------------|------------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|
| Test Area Volume (L) | 80 | | 190 | | 335 | | 600 | | 1000 | |
| Temp. Range (°C) | -40/+180 | -70/+180 | -40/+180 | -70/+180 | -40/+180 | -70/+180 | -40/+180 | -70/+180 | -40/+180 | -70/+180 |
| Temp. Fluctuation (°C) | ±0.1-±0.5 | | | | ±0.1-±0.5 | | | | | |
| Temp. Uniformity (°C) | ±0.5-±2.0 | | | | ±0.5-±2.0 | | | | | |
| Heating Rate (°C/min) | 3.3 | 3.3 | 4.1 | 3.5 | 3.5 | 3.0 | 4.0 | 4.0 | 3.2 | 3.5 |
| Cooling Rate (°C/min) | 3.0 | 2.7 | 3.5 | 3.0 | 3.0 | 3.3 | 2.5 | 2.5 | 2.5 | 2.3 |
| Test Area Dimension | 400 | | 580 | | 580 | | 800 | | 1100 | |
| W×D×H (mm) | 400 | | 450 | | 765 | | 800 | | 950 | |
| | 500 | | 750 | | 750 | | 950 | | 950 | |
| Exterior Dimension | 650 | | 870 | | 870 | | 1090 | | 1390 | |
| W×D×H (mm) | 1000 | | 1550 | | 1860 | | 1960 | | 2155 | |
| | 1750 | | 1800 | | 1800 | | 1995 | | 1995 | |
| Max. Load (KG) | 5 | | 20 | | 50 | | 70 | | 100 | |
| Cooling Methods | Air-Cooled | | | | | | | | | |

*Notes: The products are customized according to customers' requirement

Temperature and Climate Test Chambers



| Model | EC4018 | EC7018 | EC4034 | EC7034 | EC4060 | EC7060 | EC4100 | EC7100 | EC4150 | EC7150 |
|---|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Test Area Volume (L) | 190 | | 335 | | 600 | | 990 | | 1540 | |
| Temperature Test Parameters: | | | | | | | | | | |
| Temp. Range (°C) | -42/+180 | -72/+180 | -42/+180 | -72/+180 | -45/+180 | -72/+180 | -45/+180 | -73/+180 | -42/+180 | -73/+180 |
| Temp. Accuracy (°C) | ±0.1-±0.5, Temp. Uniformity (°C): ±0.5-±2.0 | | | | | | | | | |
| Heating Rate (°C/min) | 4.0 | 4.0 | 3.2 | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 3.5 | 3.5 |
| Cooling Rate (°C/min) | 4.0 | 3.0 | 4.0 | 3.0 | 3.0 | 2.5 | 3.0 | 2.5 | 2.5 | 2.3 |
| Temp. Max. Thermal Compensation (W) | 2800 | 1500 | 2800 | 1500 | 2500 | 2500 | 4500 | 3000 | 4200 | 3000 |
| Climate Test Parameters: | | | | | | | | | | |
| Dew point Temp. Rate (°C) | +4(-3°C)-+94 | | | | | | | | | |
| Humid. Range (%RH) | 10-98 | | | | | | | | | |
| Humid. Fluctuation (%RH) | ±1.0-±3.0 | | | | | | | | | |
| Temp. Accuracy (°C) | ±0.1-±0.3, Temp. Uniformity (°C): ±0.5-±2.0 | | | | | | | | | |
| Heat and Humid. Max. Thermal Compensation (W) | 400 | 400 | 400 | 400 | 500 | 500 | 500 | 500 | 500 | 500 |
| Test Area Dimension | 580 | | 580 | | 800 | | 1100 | | 1100 | |
| W×D×H (mm) | 450 | | 765 | | 800 | | 950 | | 1475 | |
| | 750 | | 750 | | 950 | | 950 | | 950 | |
| Exterior Dimension | 870 | | 870 | | 1090 | | 1390 | | 1390 | |
| W×D×H (mm) | 1550 | | 1860 | | 1960 | | 2155 | | 2680 | |
| | 1800 | | 1800 | | 1995 | | 1995 | | 1995 | |
| Power | AC380V±10%, 50HZ, 3/N/PE | | | | | | | | | |
| Cooling Methods | Air-Cooled | | | | | | | | | |

*Notes: The products are customized according to customers' requirements

Walk-In Temperature and Climate Test Chambers



| | | ETZ8/4010 | ETZ12/4010 | ETZ17/4010 | ETZ22/4010 | ETZ28/4010 | | | | |
|---------------------------------------|------------------|--|-------------|-------------|-------------|-------------|-----|-----|-----|-----|
| ETZ High and Low Temperature Chambers | | | | | | | | | | |
| ECZ Humidity Cycling Chambers | | ECZ8/010 | ECZ12/010 | ECZ17/010 | ECZ22/010 | ECZ28/010 | | | | |
| ETCZ Climate Cycling Chambers | | ETCZ8/4010 | ETCZ12/4010 | ETCZ17/4010 | ETCZ22/4010 | ETCZ28/4010 | | | | |
| Test Area Volume | m ³ | 8.0 | 12.0 | 17.0 | 22.0 | 28.0 | | | | |
| Test Area Dimension | | | | | | | | | | |
| W×D×H | mm | 2,000 | 2,000 | 2,250 | 2,250 | 2,250 | | | | |
| | | 2,056 | 3,040 | 3,032 | 4,016 | 5,000 | | | | |
| Exterior Dimension | | | | | | | | | | |
| W×D×H | mm | 2,240 | 2,240 | 2,490 | 2,490 | 2,490 | | | | |
| | | 2,240 | 2,240 | 2,740 | 2,740 | 2,740 | | | | |
| | | 3,800 | 4,780 | 4,900 | 5,880 | 6,860 | | | | |
| Floor Load-bearing Capacity | N/m ² | 30000 | | | | | | | | |
| Temp. Range (No Load) | °C | ETZ Series (608,6010,6015,6018,408,4010,4015,4018) -60,-40°C / +80°C,+100°C,+150°C+180°C optional ECZ Series (08,010) 0°C / +80°C,+100°C optional ETCZ Series (608,6010,6015,408,4010,4015) -60°C,-40°C / +80°C,+100°C,+150°C optional | | | | | | | | |
| Humid. Range | %RH | 15~95 (ETZ、ETCZ Series) | | | | | | | | |
| Dew point Temp. Range | °C | +4~+59 +4~+95 | | | | | | | | |
| | | Heat Up/Cool Down Temp. Rate (IEC60068-3-5) | | | | | | | | |
| Level 1 | K/min | 4.5 | 4.5 | 3.7 | 3.7 | 2.7 | 2.1 | 2.1 | 1.7 | 1.7 |
| Level 2 | K/min | 5.5 | 5.5 | 4.5 | 4.5 | 3.2 | 3.2 | 2.6 | 2.6 | 2.0 |
| Temp. Fluctuation | K | ±0.1~±0.5 (IEC60068-3-5) | | | | | | | | |

*Notes: The products are customized according to customers' requirement

Temperature Shock Test Chambers- 2-Zones



Specifications

| Model | | ET450S2 ET550S2 ET650S2 | ET4100S2 ET5100S2 ET6100S2 | ET4200S2 ET5200S2 ET6200S2 |
|--------------------------|-----|-------------------------------|----------------------------------|----------------------------------|
| Test Area Volume | L | 50 | 100 | 200 |
| Test Zone | | 2 | 2 | 2 |
| H.T. Chamber Temp. Range | °C | +50/+200 | +50/+200 | +50/+200 |
| L.T. Chamber Temp. Range | °C | -80/+70 | -80/+70 | -75/+70 |
| Temp. Fluctuation | °C | ±0.3±1.0 | ±0.3±1.0 | ±0.3±1.0 |
| Temp. Uniformity | °C | ±0.5±2.0 | ±0.5±2.0 | ±1.0±2.0 |
| Recovery Time | min | Less than 1min(Air Outlet) | Less than 5min(Air Outlet) | Less than 5min(Air Outlet) |
| Test Area Dimension | | | | |
| W×D×H | mm | 400 400 310 | 500 500 400 | 600 550 600 |
| Exterior Dimension | | | | |
| W×D×H | mm | 900 2300 2160 | 1000 2400 2250 | 1200 2500 2200 |
| 2-Cased Type | °C | -40/+150 | -40/+150 | -40/+150 |
| 2-Cased Type | °C | -55/+150 | -55/+150 | -55/+150 |
| 2-Cased Type | °C | -65/+150 | -65/+150 | -65/+150 |

*Notes: The products are customized according to customers' requirement

Temperature Shock Test Chambers - 3 Zones



Specifications

| Model | | ET4100S3 ET5100S3 ET6100S3 | ET4200S3 ET5200S3 ET6200S3 | ET4300S3 ET5300S3 ET6300S3 |
|--------------------------|-----|----------------------------------|----------------------------------|----------------------------------|
| Test Area Volume | L | 100 | 200 | 300 |
| Test Zone | | 3 | 3 | 3 |
| H.T. Chamber Temp. Range | °C | +50/+200 | +50/+200 | +50/+200 |
| R.T. Chamber Temp. Range | °C | R.T | R.T | R.T |
| R.T. Chamber Temp. Range | °C | -70/+70 | -75/+70 | -75/+70 |
| Temp. Fluctuation | °C | ±0.3±1.0 | ±0.3±1.0 | ±0.3±1.0 |
| Temp. Uniformity | °C | ±0.5±2.0 | ±0.5±2.0 | ±1.0±2.0 |
| Recovery Time | min | Less than 5min (on Air Outlet) | Less than 5min (on Air Outlet) | Less than 5min (on Air Outlet) |
| Test Area Dimension | mm | 500 575 350 | 650 585 450 | 700 710 600 |
| Exterior Dimension | mm | 1100 2300 | 1150 2450 | 1200 2550 |
| | | 2070 | 2170 | 2320 |
| 3-Cased Type (2-Cased) | °C | -55/+150(-40/+150) | -55/+150(-40/+150) | -55/+150(-40/+150) |
| 3-Cased Type (2-Cased) | °C | -55/+150(-55/+150) | -55/+150(-55/+150) | -55/+150(-55/+150) |

*Notes: The products are customized according to customers' requirement

Temperature and Climate and Low Air Pressure Test Chambers



| High and Low Temperature Chambers | ETQ7025 | ETQ7050 | ETQ7100 | ETQ7200 |
|--|---|----------------|---------------------------|----------------|
| High and Low Temperature (Humidity) Chambers | ECQ7025 | ECQ7050 | ECQ7100 | ECQ7200 |
| Test Area Volume (L) | 250 | 500 | 1000 | 2000 |
| Temp. Test Parameters: | | | | |
| Temp. Range (°C) | -70~+150 | | | |
| Temp. Fluctuation (°C) | ±0.1±0.8(Atmospheric Pressure No Load) | | | |
| Temp. Uniformity (°C) | ±0.5±2.0 (Atmospheric Pressure No Load) | | | |
| Temp. Accuracy (°C) | ±2.0 (Atmospheric Pressure No Load) | | | |
| Heat Up Time (min) (+ 20°C to +150°C) | ≤60 | ≤60 | ≤50 | ≤60 |
| Cool Down Time (min) (+ 20°C to -60°C) | ≤90 | ≤80 | ≤60 | ≤80 |
| Pressure Range (KPa) | Atmospheric Pressure ~1.0 | | Atmospheric Pressure ~0.5 | |
| Pressure Accuracy (KPa) | ±2 (Atmospheric Pressure ~40KPa); ±5%(40KPa~4KPa); ±0.1(4KPa~1KPa) | | | |
| Pressure Release Time (min) | ≤45 (Atmospheric Pressure→1KPa) | | | |
| Expand Rapid Release of Pressure Function (optional) | Pressure Release Range: 75.2KPa → 18.8KPa; Pressure Release Time: 15sec | | | |
| Climate Test Parameters for ECQ series: | | | | |
| Temp. Range (°C) | +10~+95 | | | |
| Temp. Fluctuation (°C) | ±0.1±0.8(Atmospheric Pressure No Load) | | | |
| Temp. Uniformity (°C) | ±0.1±2.0(Atmospheric Pressure No Load) | | | |
| Humid. Range (%RH) | (10) 20~98(Atmospheric Pressure No Load) | | | |
| Humid. Fluctuation(%RH) | ±1~±3 (Atmospheric Pressure No Load) | | | |
| Test Area Dimension W×D×H (mm) | 600×600×700 | 800×700×900 | 1000×1000×1000 | 1400×1200×1200 |
| Exterior Dimension W×D×H (mm) | 1000×1800×1880 | 1500×2750×1900 | 1400×3250×2000 | 1810×3710×2310 |
| Power | AC380V±10%, 50HZ, 3/N/PE | | | |

*Notes: The products are customized according to customers' requirement

Temperature Aging Chambers and Rooms



| | | | | | | |
|------------------------------------|--|---------------------|-------------|----------------------|--------------|--------------|
| Aging Chambers Model | EWG2003 | EWG3003 | EWG2006 | EWG3006 | EWG2010 | EWG3010 |
| Test Area Volume (L) | 270 | | 600 | | 1000 | |
| Temp. Range (°C) | R.T+20~200 | R.T+20~300 | R.T+20~200 | R.T+20~300 | R.T+20~200 | R.T+20~300 |
| Temp. Fluctuation (°C) | ±0.1~±0.8 | | | | | |
| Temp. Uniformity (°C) | ±0.5~±2.0(RT+20°C~+200°C), ±1.5~±3.5(200°C~+300°C) | | | | | |
| Temp. Deviation(°C) | ±0.5~±2.0(RT+20°C~+200°C), ±0.5~±2.0(200°C~+300°C) | | | | | |
| Heat Up Time (min) | 50(RT→+200°C), 90(RT→+300°C) | | | | | |
| Test Area Dimension W×D×H (mm) | 600 500 900 | 850 700 1000 | | 1000 1000 1000 | | |
| Exterior Dimension W×D×H (mm) | 1000 780 1710 | 1250 980 1850 | | 1690 1280 1850 | | |
| Power | AC380V±10%, 50HZ, 3/N/PE | | | | | |
| Aging Rooms Model | EWG25Series | EWG45Series | EWG65Series | EWG85Series | EWG100Series | EWG120Series |
| Test Area Volume (m ³) | 25 | 45 | 65 | 85 | 100 | 120 |
| Temp. Range (°C) | RT+10~85 | | | | | |
| Temp.Fluctuation(°C) | ±0.5~±1.0 | | | | | |

*Notes: The products are customized according to customers' requirement

Robot Intelligent Climate Test Chambers



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | EDE/EHE 4080-5 4080-10 4080-15 | EDE/EHE 7080-5 7080-10 7080-15 | EDE/EHE 4140-5 4140-10 4140-15 | EDE/EHE 7140-5 7140-10 7140-15 | EDE/EHE 4180-5 4180-10 4180-15 | EDE/EHE 7180-5 7180-10 7180-15 | EDE/EHE 4240-5 4240-10 4240-15 | EDE/EHE 7240-5 7240-10 7240-15 | EDE/EHE 4360-5 4360-10 4360-15 | EDE/EHE 7360-5 7360-10 7360-15 |
| Test Area Volume (L) | 775 | | 1400 | | 1800 | | 2400 | | 3550 | |
| Parameters of Temp. Chambers: | | | | | | | | | | |
| Temp. Range (°C) | -40/+150 | -70/+150 | -40/+150 | -70/+150 | -40/+150 | -70/+150 | -40/+150 | -70/+150 | -40/+150 | -70/+150 |
| Temp. Rapid Change Rang °C | -20/+150 | -40/+150 | -20/+150 | -40/+150 | -20/+150 | -40/+150 | -20/+150 | -40/+150 | -20/+150 | -40/+150 |
| Temp. Rapid Change Rate (°C/min) | 5, 10, 15, 20 (No Load) | | | | | | | | | |
| Temp. p. C h a nge (°C) | Fluctuation: ±0.1~±0.8 ; Uniformity:±0.5~±2.0 (No Load) | | | | | | | | | |
| Parameters for EHE Series Climate Chambers: | | | | | | | | | | |
| Temp. Range (°C) | 10~95 | | | | | | | | | |
| Humid. Range (%RH) | 15~98 | | | | | | | | | |
| Humid. Fluctuation (%RH) | ±1.0~±3.0 (No Load) | | | | | | | | | |
| Temp. Range (°C) | Fluctuation:±0.1~±0.8, Uniformity:±0.5~±2.0 (No Load) | | | | | | | | | |
| Test Area Dimension W×D×H (mm) | 660 660 1778 | 950 960 1550 | 890 1068 1905 | 1143 1321 1778 | 1220 1524 1905 | | | | | |
| Exterior Dimension W×D×H (mm) | 1560 2000 2750 | 1700 2200 2750 | 1790 2400 2850 | 2250 2700 2750 | 3950 1980 3000 | | | | | |

*Notes: The products are customized according to customers' requirement

Vibration Combined with Temperature and Climate Test Chambers



| | | | | | | |
|--|--|----------|----------------|----------|----------------|----------|
| ETE Temperature/Vibration Chambers | 4060-5 | 7060-5 | 4120-5 | 7120-5 | 4220-5 | 7220-5 |
| ECE Climate/Vibration Chambers | 4060-10 | 7060-10 | 4120-10 | 7120-10 | 4220-10 | 7220-10 |
| | 4060-15 | 7060-15 | 4120-15 | 7120-15 | 4220-15 | 7220-15 |
| Test Area Volume (L) | 600 | | 1200 | | 2200 | |
| Parameters of Temp. Test: | | | | | | |
| Temp. Range (°C) Temp. | -40/+180 | -70/+180 | -40/+180 | -70/+180 | -40/+180 | -70/+180 |
| Fluctuation (°C) | ±0.1~±0.8 | | | | | |
| Temp. Uniformity (°C) | ±0.5~±2.0 | | | | | |
| Temp. Change Rate (°C/min) | 5, 10, 15, 20, 25, 30, 35, 40 (on Air Outlet) (Further info. available upon request) | | | | | |
| Parameters of Climate Test (ECE series): | | | | | | |
| Temp. Range (°C) | +10~+95 | | | | | |
| Temp. Fluctuation (°C) | ±0.1~±0.5 | | | | | |
| Temp. Uniformity (°C) | ±0.1~±2.0 | | | | | |
| Humid. Range (%RH) | 10~96 (98%RH working with blind plate) | | | | | |
| Humid. Fluctuation (%RH) | ±1~±3 | | | | | |
| Dew point Temp. Range (°C) | +4~+94(working with blind plate)/+4~+59(with vertical bottom plate with hole)/+4~+40(with horizontal bottom plate with hole) | | | | | |
| Vertical Bottom Plate Size (mm) | max.φ710 | | max.φ1000 | | max.φ1280 | |
| Horizontal Bottom Plate Size (mm) | max.700×700 | | max.1000×1000 | | max.1200×1200 | |
| Test Area Dimension W×D×H (mm) | 800×800×950 | | 1100×1100×950 | | 1400×1400×1100 | |
| Exterior Dimension W×D×H (mm) | 1220×2890×2150 | | 1525×3590×2150 | | 1825×3950×2300 | |
| Power | AC380V±10%, 50HZ, 3/N/PE | | | | | |

*Notes: The products are customized according to customers' requirement

Temperature/Humidity/Altitude/Light/ Ventilation Weathering Resistance Combined Test Chambers



| | | |
|--------------------------------------|----------------------------------|---------------------|
| Model | EZH3 Series | EZH6 Series |
| Test Area Volume (m ³) | 3.3 | 6 |
| Test Environment | Temp.: 0°C~+35°C, Humid.: ≤85%RH | |
| Test Conditions | Atmospheric Pressure No Load | |
| Temp. Range (°C) | -70 ~ +150 | -50 ~ +150 |
| Temp. Fluctuation (°C) | ±0.1~±0.8 | ±0.1~±0.8 |
| Temp. Uniformity (°C) | ±2.0 | ±2.0 |
| Temp. Accuracy (°C) | ±2.0 | ±2.0 |
| Humid. Range (%RH) | 15~98 | 15~98 |
| Low Pressure Ultimate Range (KPa) | ≤7.6 | ≤7.6 |
| Radiation Intensity W/m ² | 1000~1200 | 1000~1200 |
| Fresh Air Ventilation Rate (L/Min) | 500~2000 adjustable | 500~2000 adjustable |
| Test Area Dimension | | |
| W×D×H (mm) | 1500×1500×1500 | 1500×2000×2000 |
| Power | AC380V±10%, 50HZ, 3/N/PE | |
| Cooling Methods | Water-Cooled | |

*Notes: The products are customized according to customers' requirement

Rapid Temperature Change and Climate Test Chambers



| Chamber Model (5°C/min) | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS |
|---------------------------------|---------------|-----------|-------------|-----------|-------------|-----------|--------------|-----------|---------------|----------|
| | 4018-5 | 7018-5 | 4034-5 | 7034-5 | 4060-5 | 7060-5 | 4100-5 | 7100-5 | 4150-5 | 7150-5 |
| Test Area Volume (L) | 190 | | 335 | | 600 | | 990 | | 1540 | |
| Temperature Test Parameters: | | | | | | | | | | |
| Temp. Range (°C) | -40/+180 | -70/+180 | -40/+180 | -70/+180 | -40/+180 | -70/+180 | -40/+180 | -70/+180 | -40/+180 | -70/+180 |
| Temp. Fluctuation (°C) | ±0.1°C~±0.5°C | | | | | | | | | |
| Temp. Uniformity (°C) | ±0.5°C~±2.0°C | | | | | | | | | |
| Heat up/Cool down Rate(°C/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 Area Dimension W×D×H (mm) | 580×450×750 | | 580×765×750 | | 800×800×950 | | 1100×950×950 | | 1100×1475×950 | |
| Chamber Model (10°C/min) | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS |
| | S | 7034-10 | 7034-10 | 7060-10 | 7060-10 | 7100-10 | 7100-10 | 7130-10 | 7130-10 | 7130-10 |
| Chamber Model (15°C/min) | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS | ETS/ECS |
| | S | 7034-15 | 7034-15 | 7060-15 | 7060-15 | 7100-15 | 7100-15 | 7130-15 | 7130-15 | 7130-15 |
| Test Area Volume (L) | 335 | | 600 | | 990 | | 1300 | | | |
| Temp. Test Parameters: | | | | | | | | | | |
| Temp. Range (°C) | -40/+180 | -70/+180 | -40/+180 | -70/+180 | -40/+180 | | -40/+180 | -70/+180 | | |
| Temp. Fluctuation (°C) | ±0.3~±0.8 | | | | | | | | | |
| Temp. Uniformity (°C) | ±0.5~±2.0 | | | | | | | | | |
| Heat up/Cool down Rate (°C/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 | | |
| Heat up/Cool down Rate (°C/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 | | |

*Notes: The products are customized according to customers' requirement

Water and Rain Test Chambers



| Model | EFS-PRO Series | |
|--------------------------------|---|--|
| Standards | Compliant with GJB-150.8-2009 | |
| Test Zones | 2 | |
| Operation Mode | Horizontal and vertical automatic movement system between specimen basket and liquid bath | |
| Liquid Media | Fluorocarbon Oil | |
| Hot Bath Temp. Range (°C) | +70~+200 | +70~+200 |
| Cold Bath Temp. Range (°C) | -80~0 | -80~0 |
| Temp. Fluctuation(°C) | ±0.3~±1.0 | ±0.3~±1.0 |
| Temp. Uniformity(°C) | ±0.5~±2.0 | ±0.5~±2.0 |
| Test Area Temp. Range(°C) | -65~0 / +70~+150 | -65~0 / +70~+150 |
| Specimen Transfer Time(sec) | About 10 sec(Time of transfer between hot and cold bath) | About 10 sec(Time of transfer between hot and cold bath) |
| Temp. Recovery Time(min) | Within 5 mins | Within 5 mins |
| Test Area DimensionW×D×H (mm) | 120×120×180 | 150×150×200 |
| Inside Bath DimensionW×D×H(mm) | 250×350×400 | 280×380×420 |
| Outside DimensionW×D×H (mm) | 1100×1400×2000 | |
| Power | AC380V±10%, 50HZ, 3/N/PE | |
| Cooling Methods | Water-cooled | |

*Notes: The products are customized according to customers' requirement

Sand Dust Test Chambers



| Model | ESC500 | ESC800 | ESC1000 | ESC1500 |
|-------------------------------|--|---------------|----------------|----------------|
| Sample holder Dimension | 785×785 | 790×990 | 980×980 | 980×1480 |
| Exterior Dimension W×D×H (mm) | 800×800×800 | 800×1000×1000 | 1000×1000×1000 | 1000×1500×1000 |
| Temp. Range (°C) | RT+20 ~ +80 adjustable | | | |
| Selective Dustproof Test | IP5X (Dustproof Test, increase or not negative pressure) ; IP6X Seal Test, increase negative pressure) | | | |
| Compliant with Standards | GB4208-2008 / IEC60529:2001 | | | |
| Power | AC230V±10%, 50HZ, 1/N/PE | | | |

| Model | ESC-PRO Series | | |
|--|-----------------------------|--|--|
| Temp. Range (°C) | RT+20 ~ +80 Adjustable | | |
| Humid. Range (%RH) | 10~30 | | |
| Blowing method | Up and Down, Gyrotory Cycle | | |
| Time control | 0~99H59M59S Adjustable | | |
| Dust Blowing Test | GJB-150.12-2009 | | |
| Dust Concentration (g/m ³) | 10.6±7 | | |
| Speed of Dust Blowing (m/s) | 1.5~8.9 | | |
| Dust Composition | 97%~99%SiO ₂ | | |
| Sand Blowing Test | GJB-150.12-2009 | | |
| Sand Concentration (g/m ³) | 2.2g±0.5; 1.1g±0.3; 0.18; | | |
| Speed of Sand Blowing (m/s) | 18~30 | | |
| Sand Diameter (um) | 150≤Sand Diameters≤850 | | |
| Dust-Falling Test | GJB-150.12-2009 | | |

*Notes: The products are customized according to customers' requirement

Thermal Shock Test Chambers



Specifications

| Model | ETS450S2 ETS550S2 | ETS4100S2 ETS5100S2 |
|----------------------------------|--------------------------------|---------------------------------|
| Test Area Volume (L) | 50 | 100 |
| Test Zone | 2 | 2 |
| H.T. Chamber Tem p . R ange (°C) | +50/+200 | +50/+200 |
| L.T. Chamber Tem p . R ange (°C) | -80/+70 | -80/+70 |
| Temp. Fluctuation (°C) | ±0.3-±1.0 | ±0.3-±1.0 |
| Temp. Uniformity (°C) | ±0.5-±2.0 | ±0.5-±2.0 |
| Stress Change time (sec) | than 10sec (on Air Outlet) | less than 10sec (on Air Outlet) |
| Recovery Time (min) | less than 1min (on Air Outlet) | less than 2min (on Air Outlet) |
| Test Area Dimension | 400 | 500 |
| W×D×H (mm) | 400 | 500 |
| | 310 | 400 |
| Exterior Dimension | 900 | 1000 |
| W×D×H (mm) | 2300 | 2400 |
| | 2160 | 2250 |
| Stress Change Temp. Range (°C) | -20/+100 (Customizable) | |
| 2-Cased Type (°C) | -40/+150 | -40/+150 |
| 2-Cased Type (°C) | -55/+150 | -55/+150 |
| Max. Load (KG) | 15 | 30 |
| Power | AC380V±10%, 50Hz, 3/N/PE | |

*Notes: The products are customized according to customers' requirement

Liquid To Liquid Thermal Shock Chamber



| | | |
|--------------------------------|---|--|
| Model | EYC603S2 | EYC605S2 |
| Test Space Volume(L) | 2.6 | 4.5 |
| Test Zones | 2 | |
| Operation Mode | Horizontal and vertical automatic movement system between specimen basket and liquid bath | |
| Liquid Media | Fluorocarbon Oil | |
| Hot Bath Temp. Range (°C) | +70~+200 | +70~+200 |
| Cold Bath Temp. Range (°C) | -80~0 | -80~0 |
| Temp. Fluctuation(°C) | ±0.3~±1.0 | ±0.3~±1.0 |
| Temp. Uniformity(°C) | ±0.5~±2.0 | ±0.5~±2.0 |
| Test Area Temp. Range(°C) | -65~0 / +70~+150 | -65~0 / +70~+150 |
| Specimen Transfer Time(sec) | About 10 sec(Time of transfer between hot and cold bath) | About 10 sec(Time of transfer between hot and cold bath) |
| Temp. Recovery Time(min) | Within 5 mins | Within 5 mins |
| Test Area DimensionW×D×H (mm) | 120×120×180 | 150×150×200 |
| Inside Bath DimensionW×D×H(mm) | 250×350×400 | 280×380×420 |
| Outside DimensionW×D×H (mm) | 1100×1400×2000 | |
| Power | AC380V±10%, 50HZ, 3/N/PE | |
| Cooling Methods | Water-cooled | |
| Test Standard | GJB 150-86 GB 2423-22 MIL-STD-883 | |

*Notes: The products are customized according to customers' requirement

Environmental Stress Screening Test Chambers



| | | | | |
|--------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Model | ETS580S3 ETS680S3 | ETS5150S3 ETS6150S3 | ETS5250S3 ETS6250S3 | ETS5340S3 ETS6340S3 |
| Test Area Volume (L) | 80 | 150 | 252 | 335 |
| Test Zone | 3 | 3 | 3 | 3 |
| H.T. Chamber Temp. Range (°C) | 50/+220 | +50/+220 | +50/+220 | +50/+220 |
| R.T. Chamber Temp. Range (°C) | R.T | R.T | R.T | R.T |
| L.T. Chamber Temp. Range (°C) | -70/+70 | -75/+70 | -75/+70 | -75/+70 |
| Temp. Fluctuation (°C) | ±0.3~±1.0 | ±0.3~±1.0 | ±0.3~±1.0 | ±0.3~±1.0 |
| Temp.Uniformity (°C) | ±0.5~±2.0 | ±0.5~±2.0 | ±1.0~±2.0 | ±1.0~±2.0 |
| Recovery Time (min) | less than 15 min | less than 15 min | less than 15 min | less than 15 min |
| ESS Temp. Range(°C) | -40/+125 | -55/+125 | -55/+125 | -55/+125 |
| ESS Temp. Rate(°C) | 3~15/15~30(on specimen) | 3~15/15~30(on specimen) | 3~15/15~30(on specimen) | 3~15/15~30(on specimen) |
| Test Area Dimension W×D×H (mm) | 500 400 400 | 600 500 500 | 700 600 600 | 800 650 650 |
| Exterior Dimension W×D×H (mm) | 1460 1900 2050 | 1560 2100 2150 | 1700 2300 2250 | 1800 2500 2300 |

*Notes: The products are customized according to customers' requirement