

Angelantoni ACS DM600E Environmental Chamber



Stock No	OF2682J
Manufacturer	Angelantoni
Model	DM600 E
Year of Manufacture	2023
Serial	TT05401
Condition	Excellent Condition, Unused, Current Model
Internal Size (WxDxH mm)	840 x 720 x 880mm, 553 Litres Capacity
Max Temp	-20°C to +180°C
Other Info	Temp. & Humidity Environmental Chamber
Location	Our Central Warehouse, Aldridge, UK
Weight (kgs)	875kg
External Dimensions (WxDxH mm)	1101 x 1750 x 2050mm

Description

The DM600 E Environmental Chambers, from Angelantoni Test Technologies' Discovery My "E" Series, is designed for reliable general purpose environmental testing where stable climatic conditions and moderate temperature change rates are required.

Suitable for a wide range of industries, including pharmaceuticals, plastics, rubber, paper, electronics and semiconductor applications, it provides a versatile solution for product evaluation and qualification testing.

Benefits

- **Wide temperature capability** – Test products across a broad -20°C to $+180^{\circ}\text{C}$ range for a wide range of temperature testing.
- **Advanced humidity simulation** – Achieve accurate moisture testing with 10–98% RH control.
- **Efficient temperature transitions** – Benefit from reliable $1.5^{\circ}\text{C}/\text{min}$ heating and cooling rates for effective test cycles.
- **Exceptional test accuracy** – Maintain consistent conditions with excellent temperature stability of ± 0.1 – 0.3°C .
- **Built for industrial testing** – Deliver dependable environmental qualification and product validation in demanding laboratory and production environments.
- **Easy to use** - 10" touchscreen panel with an intuitive, user-friendly interface.
- **Easy maintenance** - Automatic reporting, self-diagnosis, preventive maintenance.
- **Wide temperature capability** – Test products across a broad -20°C to $+180^{\circ}\text{C}$ range for a wide range of temperature testing.

Features

The Discovery My E standard series includes:

- Programmable touchscreen controller
- Temperature and humidity profiling
- Data logging capability
- Stainless steel test workspace
- Forced-air circulation system
- Refrigeration system for low temperature testing
- Safety over-temperature protection
- Access port for instrumentation cables
- Automatic humidity generation and control system

Specification

- Model: DM600 E
- Series: Discovery My E
- Chamber Type: Temperature & Humidity Environmental Chamber
- Useful Volume: 553 L
- Internal Dimensions (W×D×H): 840 x 720 x 880mm
- External Dimensions (W×D×H): 1101 × 1750 × 2050mm
- Temperature Range: -20°C to $+180^{\circ}\text{C}$
- Climatic Test Temperature Range: $+10^{\circ}\text{C}$ to $+95^{\circ}\text{C}$
- Humidity Range: 10% to 98% RH
- Temperature Fluctuation: ± 0.1 to ± 0.3 K
- Humidity Fluctuation: ± 1 to ± 3 %RH
- Heating Rate ($0^{\circ}\text{C} \rightarrow +100^{\circ}\text{C}$): 1.5 K/min
- Cooling Rate ($+100^{\circ}\text{C} \rightarrow 0^{\circ}\text{C}$): 1.5 K/min



- Maximum Thermal Load at +25°C: 850 W
- Rated Power: 10.5 kW
- Rated Current: 19 A
- Power Supply : 400 V $\pm 10\%$, 50 Hz, 3-Phase + Neutral + Ground
- Weight: 875kg
- Noise Level: 61 dB(A)

Temperature Control

Stable temperature control from -20°C to $+180^{\circ}\text{C}$ makes this environmental chamber ideal for aging and thermal endurance testing, material conditioning, storage simulation, and product qualification across a wide range of applications.

Humidity Control

With a 10–98% RH humidity range and climatic operation from $+10^{\circ}\text{C}$ to $+95^{\circ}\text{C}$, this chamber supports tropical exposure testing, moisture resistance evaluation, corrosion and degradation studies, and packaging validation to assess product performance in challenging environments.

Environmental Stability

High-precision environmental control ensures temperature uniformity and fluctuation within ± 0.1 – 0.3°C and humidity stability of ± 1 – 3% RH, meeting the stringent climatic testing requirements defined by IEC 60068 environmental testing standards.

Typical Applications

Designed for laboratories and production environments requiring dependable temperature and humidity testing, this chamber delivers accurate climatic simulation without the need for the higher ramp-rate capabilities associated with premium environmental test systems.

- Pharmaceutical stability studies
- Electronic component reliability testing
- Semiconductor qualification
- Automotive component validation
- Plastic and rubber aging tests
- Packaging and transportation simulation
- Material research and development
- Quality assurance testing

Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.