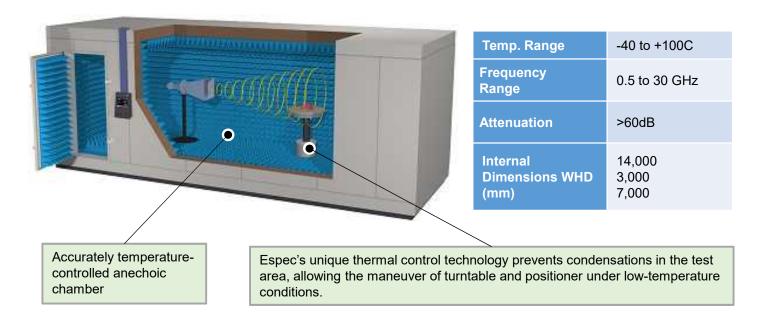


Chambers optimized for evaluations of temperature characteristics and of high heat-dissipations of 5G base station components by over-the-air measurements

The commercialization of 5G has begun, but base stations must continue to improve throughput for future updates. In the antenna performance evaluation, it is necessary to prevent the radio wave interferences to surrounding devices and people caused by samples and require chamber to be powerful enough to compensate for the heat dissipated by the base station components.

Temperature-controlled anechoic chamber with turntable



Conditioned air supply unit for shielded box / anechoic chamber

The Precision conditioned air supply unit is to be connected to the shielded box or anechoic chamber to evaluate the antenna's performance under a temperature environment.

The duct is made of non-metal, and provided is a radio wave transmission box matching the specimen's size.

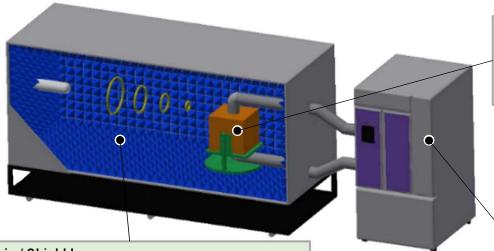
Precision Conditioned Air Supply Unit



Temperature Range: -40 to +100C

Runs on AC power.

Application



Transmission box

Made of permeable material. Maintain the specimen temperature at set conditions.

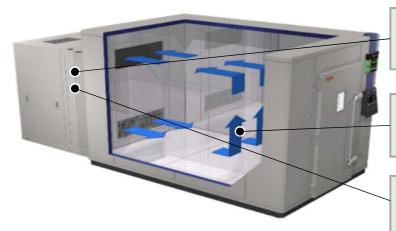
Air supply unit

Provide conditioned air to the box through a duct.

Anechoic / Shield box

Consult ESPEC representative for connection to alreadyinstalled anechoic/shield box. ESPEC can provide both anechoic/shield box and an air supply unit as a package.

Walk-in for high heat load



Walk-in with high power refrigeration

Designed to handle high-heating components and systems for the base stations.

Selectable air-flow direction

The flexible design allows you to select the airflow between downflow and upflow. The left showing upflow.

Fast temperature change rate

The powerful refrigeration not only compensates the heat load but also can increase the ramp rate.

Temperature Range		-70 to +150C, 20 to 95%rh (+20 to +80C)		
Allowable Heat Load		13kW (at -40C)		
Temperature	Cooling	3C/min (-40 to +150C) 0.5C/min (-70 to +150C)		
Change Rate	Heating	3C/min (-70 to +150C)		
Size Variations		TYPE 1: 4.2m ³ (2.0m ²)	TYPE 2: 8.1m ³ (3.9m ²)	TYPE 3: 12.5m ³ (5.9m ²)
		TYPE 4: 16.8m ³ (8.0m ²)	TYPE 5: 25.8m ³ (12.3m ²)	TYPE 6: 34.8m ³ (16.6m ²)
		TYPE 7: 43.8m ³ (20.8m ²)	TYPE 8: 57.7m ³ (25.1m ²)	(): footprint

ESPEC CORP. https://www.espec.co.jp

3-5-6, Tenjinbashi, Kita-ku, Osaka 530-8550, Japan Tel:+81-6-6358-4785 Fax:+81-6-6358-4786