Ultra Compact
Front loading Test Chambers
Maximum Performance, Minimal Footprint

The **Ultra Compact** front loading chamber range from Ascott is the perfect choice for customers who have limited floor area, and who only wish to test small or few components, in full compliance with many international test standards.

The Ultra Compact CCT Chamber complies with the following test standards:

• JASO M 609 • CCT-2 • IEC 60068-2-52 • DIN 50 017 • CCT-4 • ISO 11997-1 • ASTM B117 • CCT-1 • ISO 6270-2 • ISO 14993 • ISO 9227 • JIS Z2371 • JIS H8502 • JIS C60068-2-11

...plus many more see our website for full details.

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Testing climate resistance **to the limit**

Available in 2 sizes across 3 models

S300IS/S400IS

Standard Salt Spray Chamber

Designed for continuous salt spray tests, such as ASTM B117, ISO 9227, JIS Z 2371 etc. They can also be used with pH neutral salt solutions (NSS) or test solutions acidified by the addition of Acetic Acid (ASS) or Cupric Acid (CASS).

S300IP/S400IP

Premium Salt Spray Chamber

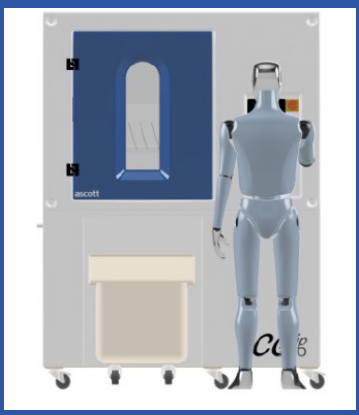
Can perform the same basic salt spray tests as Standard models, but in addition are equipped with extra features which enable them to undertake 'modified' tests such as ASTM G85, Where salt spray is usually combined with one other function, in a two-part cycle. For example: salt spray and condensation humidity, or salt spray and drying.

CC300IP/CC400IP

Cyclic Corrosion Test Chamber

Designed to be flexible enough to comply with as many different CCT Specifications as possible. The chamber is designed to cycle between salt spray, wetting, drying, ambient drying, temperature only and controlled humidity modes in any sequence for any period of time.

Key features to all models



- Front loading system for ease of loading test samples in a wide range of shapes and sizes.
- Chamber designed with angled interior roof to avoid condensation droplets onto samples below.
- High strength GRP panel front door available in 9 standard colours with windows for viewing samples during testing.
- Pneumatically operated door for ease of opening and closing
- 115L / 30US Gallon portable salt solution tank with wheels, for ease of access to a water source, and an integral drain system for ease of cleaning.
- Exterior shell is fully resistant to corrosion.
- Compact design which will pass through an 950mm /37" wide door aperture for ease of installation.

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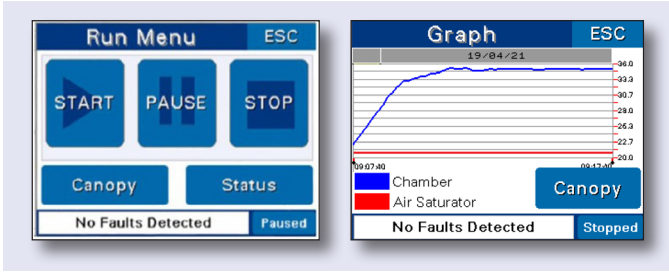
S300IS / S400IS – Key Features

- True colour 3.5" Touch-screen controller interface, for ease of programming and control, with graphical display of temperature.

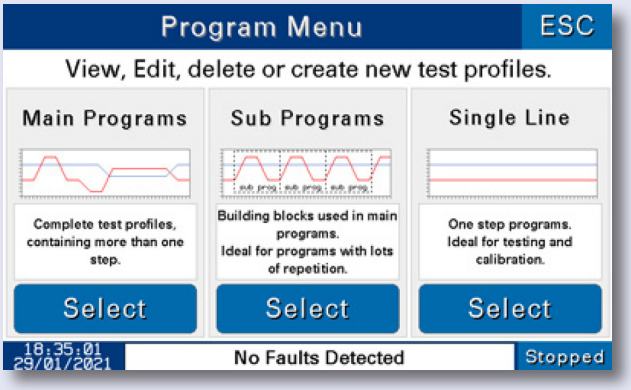


- Centrally located viewing window/s for good visual access to chamber interior and test samples when door closed.
- Timed canopy lock and purge of the chamber interior with fresh air after testing and before the chamber is opened, preventing corrosive salt fog escaping.
- Peristaltic pumping system for precise control and delivery of the salt solution.
- Chamber heated by externally mounted heater mats, protecting them against damage from the corrosive climate inside the chamber, and ensuring uniform heat distribution inside the chamber.
- Base castors and integrated fork lift truck runners, for ease of transportation.
- Calibration certificate.
- 12 month Consumables spares kit.
- Easily accessible salt spray atomizer(s) in transparent, durable acrylic with integral filter, for ease of maintenance.

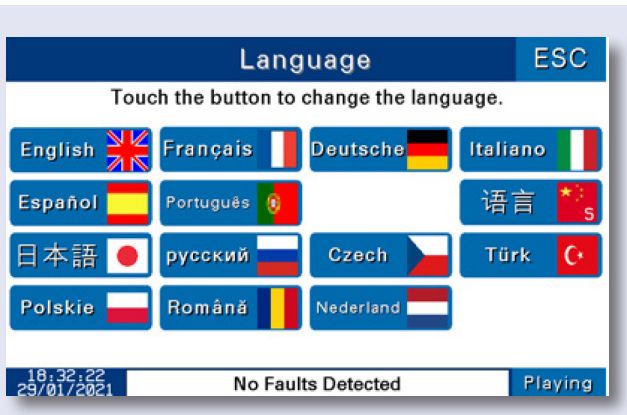
S300IP / S400IP – Key Features

Premium models have the same features as Standard models plus:

- Upgraded True colour, 7" wide screen WVGA Screen user control interface, using the latest version of our highly intuitive operating software.



- 480p (0.38 megapixel) high resolution icon based interface available in multiple languages for ease of understanding and use.



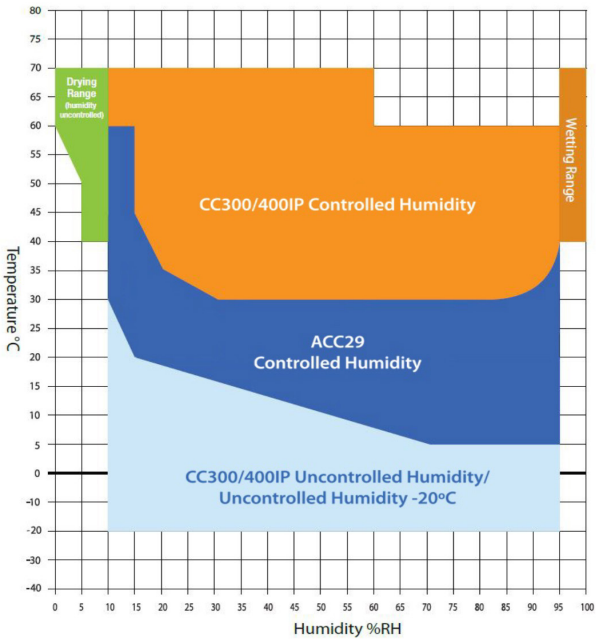
- Large capacity memory, allowing for extensive customer programs to be stored, 254 main programs of up to 200 steps, 100 sub programmes and 254 single line programs.
- Integrated titanium immersion heater to create condensation humidity, for testing to a wider range of 'modified' salt spray tests.
- Chamber can perform two-part test profiles, Salt Spray and drying, or Salt Spray and Wetting
- RJ45 communications port enabling the chamber to be wire or wirelessly connected to a local area network (LAN) for logging and remote programming via a computer running optional software (Ref ACC121)
- A real-time, user configurable 'clock' to enable different test samples to be batched and have their exposure time monitored separately, with alarms to warn when a pre-set test period has been completed.

CC300IP / CC400IP – Key Features

CCT models have the same features as Standard & Premium Salt Spray chambers plus:

- State of the art capacitive Humidity Measuring Sensor with %RH Display on the Touchscreen controller
- User adjustable Controlled Humidity for atmospheres up to 94%RH, at temperature-controlled atmospheres from ambient to +70°C / 158°F (see graph below)
- Temperature & Humidity Graphical Logging Facility on chamber touchscreen with 168 hours playback
- Interior Viewing Window (unless refrigeration ACC29 option is supplied)
- Temperature and Humidity monitoring in SCADA using OPC-UA.
- As standard the chamber comes with the ability to create 6 distinct climates:
  - Salt Spray
  - Condensation Humidity (wetting)
  - Controlled Temperature & Humidity
  - Forced Air Drying
  - Ambient Drying
  - Temperature only

  These can be programmed to occur in any sequence, for any period of time and can be programmed to reoccur automatically
- Wide range of optional accessories available to further extend the chambers test conditions



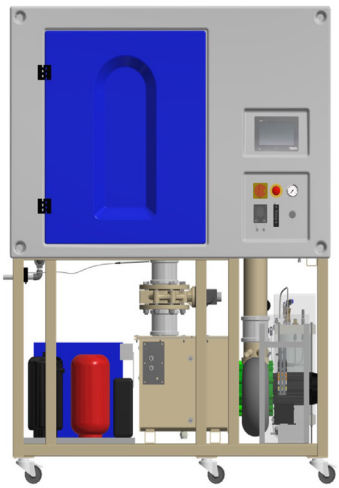
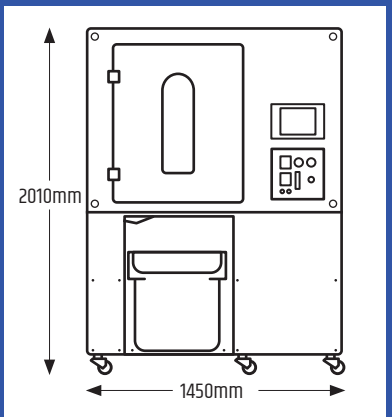
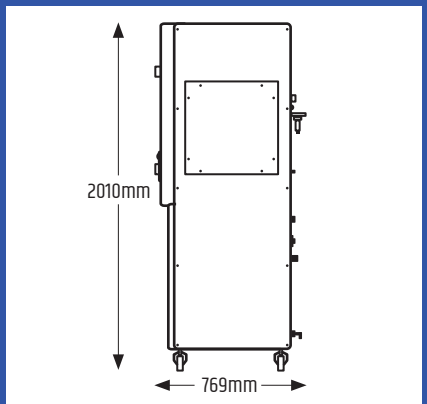
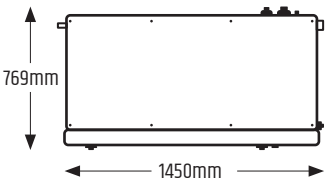


Image shows compact design with refrigeration unit housed underneath the chamber.

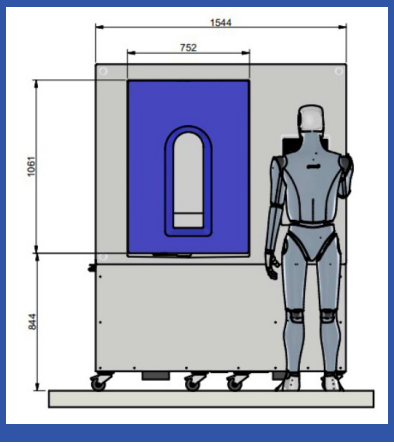
300L Small Compact Footprint 1450 x 769 x 2010mm / 57 x 30 x 80" (w x d x h)

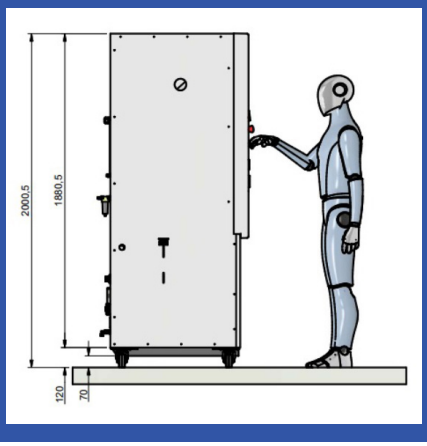


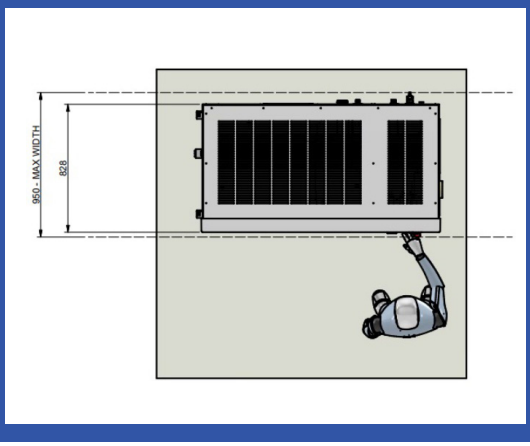




400L Small Compact Footprint 1544 X 950 X 2000mm / 60 x 37 x 79" (w x d x h)







Specifications

S300IS / S400IS Test Chamber Performance

	Temperature Range	Humidity Range	Salt Spray Fallout Rates
Salt Spray Mode	Adjustable from Ambient to +50°C / +122°F	N/A	Adjustable from 0.5 to 2.5ml per 80cm² per hour

S300IP / S400IP Test Chamber Performance

	Temperature Range	Humidity Range	Salt Spray Fallout Rates
Salt Spray Mode	Adjustable from Ambient to +50°C / +122°F	N/A	Adjustable from 0.5 to 2.5ml per 80cm² per hour
Wetting Mode	Adjustable from Ambient to +50°C / +122°F	Fixed at 95% - 100% RH	N/A
Drying Mode	Adjustable from Ambient to +50°C / +122°F	Uncontrolled	N/A
Ambient Air Drying Mode	Alters to laboratory ambient conditions	Alters to laboratory ambient conditions	N/A
Temperature Only Mode	Adjustable from Ambient to +50°C / +122°F	N/A	N/A

CC300IP / CC400IP Test Chamber Performance

	Temperature Range	Humidity Range	Salt Spray Fallout Rates
Salt Spray Mode	Adjustable from Ambient to +60°C / +140°F	N/A	Adjustable from 0.5 to 2.5ml per 80cm² per hour
Wetting Mode	Adjustable from Ambient to +70°C / +158°F	Fixed at 95% - 100% RH	N/A
Drying Mode	Adjustable from Ambient to +70°C / +158°F	Uncontrolled	N/A
Ambient Air Drying Mode	Alters to laboratory ambient conditions	Alters to laboratory ambient conditions	N/A
Climatic Mode	See graph on page 4	See graph on page 4	N/A
Temperature Only Mode	Adjustable from Ambient to +60°C / +140°F	N/A	N/A

Technical Specification

Item	300L	400L
Chamber Capacity	300Ltrs	400Ltrs / 14.1cu ft
Chamber Weight	340kg / 750lbs	517kg / 1140lbs
Mounting Format	Floor Standing	Floor Standing
Chamber Load Threshold	1100mm / 43"	844mm / 33"
Chamber External Dimensions (w x d x h)	1450 x 769 x 2010mm / 57 x 30 x 80"	1544 X 950 X 2000mm / 60 x 37 x 79"
Chamber Internal Dimensions (w x d x h)	855 x 601 x 711mm reducing to 407mm (w x d x h) 34" x 24" x 27" reducing to 16"	912 x 589 x 554mm / 36 x 24 x 22"
Salt Solution Reservoir	1 x 115L/30 US Gal	
Chamber Construction	Glass Reinforced Plastic, Polypropylene, PVC Parts	
Canopy Colour	9 Standard colours to choose from, others available on request	
Electricity Supply	Voltage (VAC) and frequency (Hz) dependant on country/region of installation	
Water	Deionized/distilled for topping up air saturator and making salt solution. Air saturator requires a continuous water connection 2.5-5.0 bar (36-72 psi). If ACC42 is ordered the continuous water supply must be pressuried 4.0 – 5.0 bar (58-72 psi). If air saturator is topped up manually option ACC66 must be ordered	
Air	Clean dry & oil free compressed air, 4.0 to 6.0 bar (58-87psi) with 240 Ltrs (8.5cu.ft) per minute flow	
Exhaust	3m (10ft) exhaust pipe is required which should be terminated outside building (see accessory ACC58)	
Drain	3m (10ft) drain pipe is required which should be terminated into floor level drain (see accessory ACC58)	
Operating Environment Conditions	Indoors, with ambient maintained at +18 to +23°C (+64 to 73°F), 85% max RH (non-condensing)	

Blue - RAL5005

Turquoise - BS16-E-56

Grey - RAL7035

Mauve - RAL4005

Red - RAL3003

Yellow - RAL1028

Green - RAL6027

Orange - RAL2009

Red/Violet - RAL4002

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