

ascott

Corrosion Test Chambers & Accessories



OETP
VCS
STD
ISO
ASTM
DEF/MIL
JEC
GIV
P-VII
SAE
VDA
JIS

CC₀₀₀

testing climate resistance to the limit

ascott

Testing climate
resistance to the limit



For more than 25 years Ascott has been leading the way in the design, manufacture and delivery of innovative and high quality corrosion test chambers. During this time we have been selected to supply many well-known customers throughout the world and, in doing so, have established an international reputation for ourselves as the brand to be trusted.

Salt Spray Corrosion Test Chambers

Salt spray (also known as salt fog or salt mist) continues to be the corrosion test of choice for comparing actual product performance with expectations – usually in accordance with international test standards. This is, therefore, a very popular test for quality auditing.

Cyclic Corrosion Test (CCT) Chambers

CCT combines traditional exposure to salt spray with a variety of other controlled climates, including variable temperature & humidity, to create an accelerated simulation of service life conditions, according to customer requirements. CCT is, therefore, particularly well suited to predicting product service life expectancy.

Atmosfär Corrosion Test Chambers

Based on the Ascott CCT chamber, the Atmosfär is equipped with additional features to enable it to comply with the specific automotive test requirements of Ford and Volvo. Most notably this includes the application of salt spray from a high-level 'swaying' spray bar, vertical high velocity air drying and refrigerated dehumidification.

Free choice of canopy color

All Ascott chambers are offered with a choice of canopy color at no extra cost. The standard range of colors are shown. Colors are a representation only.



Salt Spray Corrosion Test Chambers

Ascott salt spray test chambers are offered in two model ranges: *Standard* & *Premium*.

Standard models are designed for continuous salt spray tests, conducted at a single user-adjustable temperature, such as ASTM B117, ISO 9227, JIS Z 2371 etc. They may be used with pH neutral salt solutions (NSS) or test solutions acidified by the addition of Acetic Acid (ASS) or Cupric Acid (CASS).

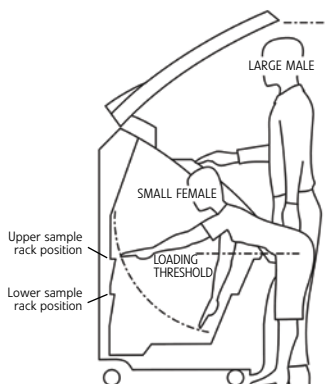
Premium models can perform the same basic salt spray tests as *Standard* models, but in addition are equipped with extra features which enable them to undertake 'modified' tests such as ASTM G85. Here conventional salt spray is usually combined with one other climate, in a two-part cycle. For example: salt spray and condensation humidity (SWAAT) or salt spray and drying (PROHESION).



Premium 120 Ltr salt spray chamber



Standard 1000 Ltr salt spray chamber



Salt Spray Corrosion Test Chambers

Performance

Temperature range

Adjustable from ambient to +50°C/+122°F

Salt spray fall-out rates

Adjustable from 0.5 to 2.5 ml per 80 cm² per hour

Wetting mode (Premium chambers only)

Adjustable from ambient to +50°C/+122°F

Drying mode (Premium chambers only)

Adjustable from ambient to +50°C/+122°F

Features

Standard models

- 'Easy Open' pneumatically operated canopy.
- Touch-screen monochrome operator control interface.
- Dry seal gasket prevents wetting operator's clothes, etc.
- Low loading threshold for loading and unloading.
- Canopy color choice.
- Interior viewing window.
- Automatic purge of the chamber interior before opening.
- Salt solution reservoir.
- Set of sample racks.

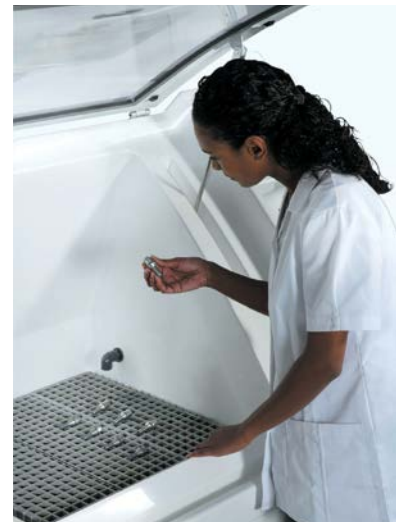
Premium models

Premium models have the same features as Standard models plus:

- Touch-screen, full color user control interface, using intuitive icons for ease of programming and use.
- RJ45 communications port for connection to a local area network (LAN) for logging and remote programming via a computer running optional Ascott software (ACC120).
- A real-time, user configurable 'clock' to enable different test samples to have their exposure time monitored separately, with alarms to warn when preset test times have been completed.
- Immersion heater housed in the base of chamber enables high humidity condensation conditions to be created, if required.



Premium 2000 Ltr salt spray chamber



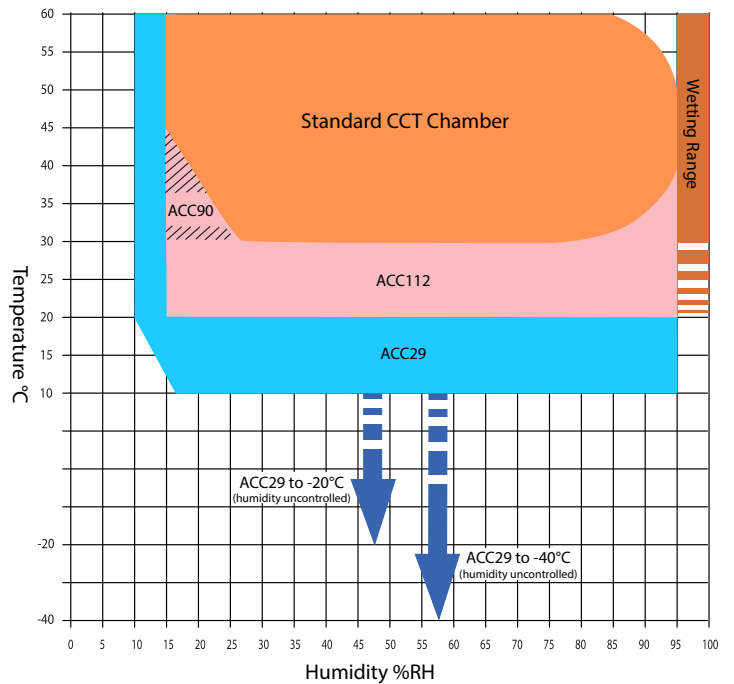
Cyclic Corrosion Test (CCT) Chambers

Ascott CCT chambers are designed to be flexible enough to comply with as many different CCT specifications as possible. As standard they come with the ability to create 4 distinct climates:

1. Salt spray
2. Condensation humidity (wetting)
3. Air drying
4. Controlled humidity.

These may be programmed to occur in any sequence and be repeated automatically. A wide range of optional accessories enable additional climates to be added to further extend the number of climates and conditions that can be created.

Graph showing standard range of temperature/humidity control for a CCT chamber and how this may be extended by the addition of optional accessories.



1000 Ltr CCT chamber



CCT chamber control panel

Cyclic Corrosion Test (CCT) Chambers

Performance

| | | |
|--------------------------|--|---|
| Wetting mode | Temperature range Humidity range | Adjustable from ambient to +70°C/+158°F Fixed at 95% - 100% RH |
| Salt spray mode | Temperature range Salt spray fall-out rates | Adjustable from ambient to +50°C/+122°F Adjustable from 0.5 to 2.5 ml per 80 cm ² per hour* |
| Drying mode | Temperature range Humidity range | Adjustable from ambient to +70°C/+158°F Uncontrolled |
| Controlled humidity mode | Temperature/humidity range | See graph on page 6 |

* Option ACC01 increases fallout rate up to 5.5 ml per 80 cm² per hour.

Features

All Ascott cyclic corrosion test chambers feature:

- 'Easy Open' pneumatically operated canopy.
- Dry seal gasket prevents wetting operator's clothes, etc.
- Low loading threshold for loading and unloading.
- Canopy color choice.
- Interior viewing window (unless refrigeration option is supplied).
- Automatic purge of the chamber interior before opening.
- Set of sample racks and a separate salt solution reservoir.
- Touch-screen, full color user control interface, using intuitive icons for ease of programming and use.
- RJ45 communications port for connection to a local area network (LAN) for logging and remote programming via a computer running optional Ascott software (ACC120).
- A real-time, user configurable 'clock' to enable different test samples to have their exposure time monitored separately, with alarms to warn when preset test times have been completed.
- A large capacity memory for complex multi-step test programmes to be programmed and stored, so that a wide range of different test profiles can be undertaken.



2000 Ltr CCT chamber



Atmosfär Test Chambers



Atmosfär chambers have been specifically designed for fully automatic testing in accordance with highly demanding laboratory-accelerated corrosion tests which have become increasingly popular in some sectors of the automotive industry. These tests are cyclic in nature and comprise of exposure under controlled and varying conditions of temperature and humidity, with intermittent spraying of a salt solution directly on to the samples under test, from a high level swaying spray bar.

Such tests include:

- Ford CETP 00.00-L-467
- Volvo VCS 1027,149 (ACT-1)
- Volvo VCS 1027,1449 (ACT-2)
- Volvo STD 423-0014
- Volvo STD 1027,1375
- ISO 16701
- Scania STD 4319

For added flexibility, Atmosfär chambers also retain the ability to perform conventional salt spray tests and Cyclic Corrosion Tests (CCT) in accordance with a wide range of international test standards.



1 The air system collection tube is easily removed.



2 The combined air dispersal and oscillating spray bar unit simply lifts out.

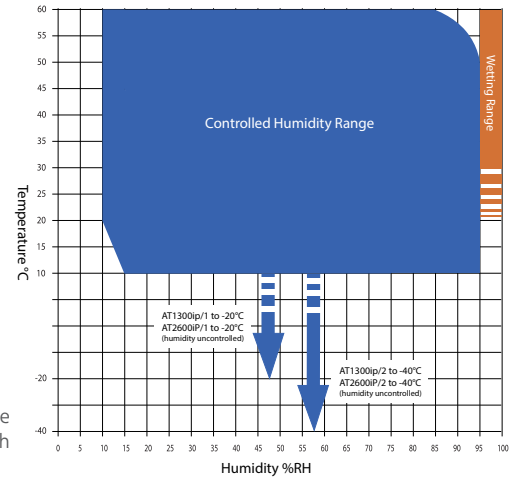


3 The Atmosfär chamber is now ready for other types of corrosion testing.

Atmosfär Test Chambers

Performance

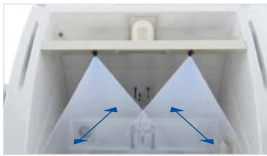
| | | |
|------------------------------|--|---|
| Wetting mode | Temperature range Humidity range | Adjustable from ambient to +70°C/+158°F Fixed at 95% - 100% RH |
| Oscillating salt spray mode | Temperature range Salt spray fall-out rates | Adjustable from ambient to +50°C/+122°F Adjustable from 5 to 10 Ltrs/m ² per hour |
| Conventional salt spray mode | Temperature range Salt spray fall-out rates | Adjustable from ambient to +50°C/+122°F Adjustable 0.5 to 2.5 ml per 80 cm ² per hour |
| Drying mode | Temperature range Humidity range | Adjustable from ambient to +70°C/+158°F Uncontrolled |
| Climatic mode | Temperature/humidity range | See adjacent graph |



Features

Swaying spray bar

Set high in the chamber, spray nozzles oscillate backwards and forwards to produce a fan shaped spray pattern that ensures test samples are 'swept' uniformly with spray of salt solution.



Separate air conditioning unit

Combines refrigeration and dehumidification to extend the range of temperature and humidity control (down to -20°C/-4°F or -40°C/-40°F depending on the model) under programmable control.

High velocity vertical air-flow

High velocity air, from the separate air conditioning unit, passes vertically through the test samples, evenly from top to bottom, during the climate controlled testing phase.



MAG-DRIVE™ - magnetically coupled spray bar drive system

Enables quick spray bar removal from the chamber if conventional salt spray testing is required. With no drive shaft passing through the chamber wall, there is no risk of salt solution leakage and it is safe as it will stall if the spray nozzles are obstructed.

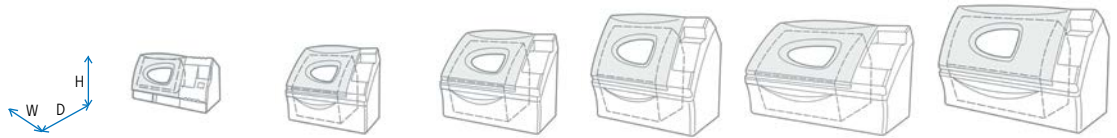
Adjustable sample racks

Accommodates variable thickness test panels up to 6mm/0.25" thick. Angle adjustment from vertical to up to 20° from vertical depending on test panel thickness. Design minimizes standing moisture accumulation.



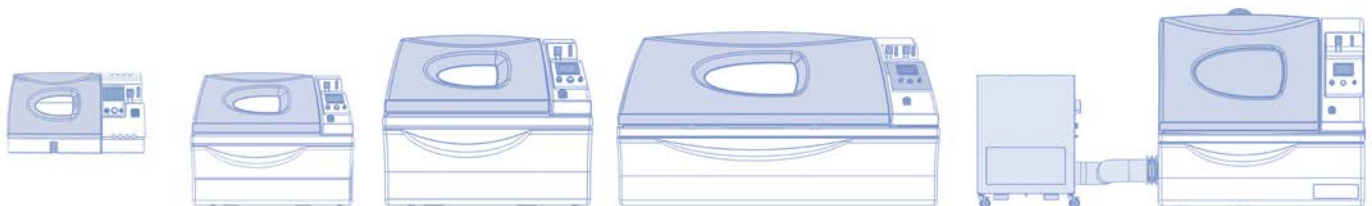
Test Chamber Specifications

Salt Spray & Cyclic Corrosion Test (CCT) Chambers



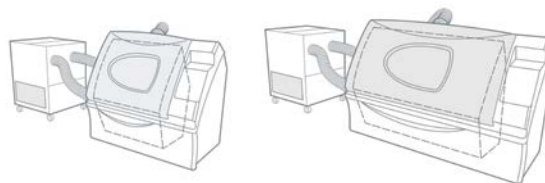
Product code:

| Standard salt spray chambers | S120iS | S450iS | S1000iS | S1300iS | S2000iS | S2600iS |
|---|---|---|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|
| Premium salt spray chambers | S120iP | S450iP | S1000iP | S1300iP | S2000iP | S2600iP |
| Cyclic corrosion test chambers | - | CC450iP | CC1000iP | CC1300iP | CC2000iP | CC2600iP |
| Chamber capacity | 120 Ltrs./4.2 cu.ft | 450 Ltrs./15.8 cu.ft | 1000 Ltrs/35.3 cu.ft | 1300 Ltrs/45.9 cu.ft | 2000 Ltrs/70.6 cu.ft | 2600 Ltrs/91.8 cu.ft |
| Chamber weight <small>(estimated, without optional accessories)</small> | 76 kg | 190 kg | 255 kg | 285 kg | 330 kg | 355 kg |
| Mounting format | Bench top | Floor standing | Floor standing | Floor standing | Floor standing | Floor standing |
| Loading threshold | 280mm/11" | 800mm/31.5" | 800mm/31.5" | 800mm/31.5" | 800mm/31.5" | 800mm/31.5" |
| Chamber external dimensions, max | | | | | | |
| W | 1315mm/51.8" | 1660mm/65.4" | 2025mm/80.0" | 2025mm/80.0" | 2885mm/113.6" | 2885mm/113.6" |
| D | 680mm/26.8" | 840mm/33.1" | 1145mm/45.0" | 1156mm/45.5" | 1145mm/45.0" | 1156mm/45.5" |
| H | 800mm/31.5" | 1510mm/59.5" | 1720mm/67.5" | 1906mm/75.0" | 1720mm/67.5" | 1906mm/75.0" |
| Chamber internal dimensions, max | | | | | | |
| W | 715mm/28.2" | 1010mm/39.5" | 1300mm/51.2" | 1300mm/51.2" | 2160mm/85.0" | 2160mm/85.0" |
| D | 490mm/19.3" | 640mm/25.0" | 980mm/38.5" | 980mm/38.5" | 980mm/38.5" | 980mm/38.5" |
| H | 490mm/19.3" | 1140mm/45.0" | 1320mm/52.0" | 1528mm/60.2" | 1320mm/52.0" | 1528mm/60.2" |
| Salt solution reservoir ext. dimensions | | | | | | |
| W | integral | 460mm/18.1" | 560mm/22.0" | 560mm/22.0" | 560mm/22.0" | 560mm/22.0" |
| D | integral | 620mm/24.5" | 620mm/24.5" | 620mm/24.5" | 620mm/24.5" | 620mm/24.5" |
| H | integral | 675mm/26.6" | 675mm/26.6" | 675mm/26.6" | 675mm/26.6" | 675mm/26.6" |
| Salt solution reservoir capacity <small>(for extra capacity, see optional accessory ACC02)</small> | 40 Ltrs/10.5 US gal | 80 Ltrs/21 US gal | 115 Ltrs/30.4 US gal | 115 Ltrs/30.4 US gal | 115 Ltrs/30.4 US gal | 115 Ltrs/30.4 US gal |
| Removable slotted sample racks to suit upper mounting position. | 4 racks each with 23 angled slots | 6 racks each with 28 angled slots | 8 racks each with 46 angled slots | 8 racks each with 46 angled slots | 16 racks each with 46 angled slots | 16 racks each with 46 angled slots |
| | | Each with 3mm (1/8") wide slots, angled at 15 degrees from vertical | | | | |
| Chamber construction | Glass reinforced plastic, Polypropylene & PVC parts. | | | | | |
| Color | 9 standard colors to choose from. | | | | | |
| Electricity supply | | | | | | |
| Standard salt spray models | 1 phase | 1 phase | 1 phase | 1 phase | 1 phase | 1 phase |
| Premium salt spray models | 1 phase | 1 phase | 1 phase | 1 phase | 3 phase | 3 phase |
| CCT models | - | 3 phase | 3 phase | 3 phase | 3 phase | 3 phase |
| | Voltage (VAC) and frequency (Hz) dependant on country/region of installation. | | | | | |
| Water | The air saturator, humidity generator and salt solution reservoir all require separate connections to a continuous, pressurized deionized/distilled water supply of 0.5–5.0 bar (7.3–73 psi). | | | | | |
| Air | Clean dry & oil free, 4.0 to 6.0 bar (58-87psi) with 240 Ltrs (8.5cu.ft) per minute flow. | | | | | |
| Exhaust | 3m (10ft) exhaust pipe is provided which should be terminated outside building. | | | | | |
| Drain | 3m (10ft) drain pipe provided which should be terminated into floor level drain. | | | | | |
| Operating environment conditions | Indoors, with ambient maintained at +18 to +23°C (+64 to 73°F), 85% max RH (non-condensing). | | | | | |



Test Chamber Specifications

Atmosfär Test Chambers



| Atmosfär test chambers | Product code: | AT1300iP/1 | AT1300iP/2 | AT2600iP/1 | AT2600iP/2 |
|--|---------------|--|--|---|---|
| Minimum controlled temperature | | -20°C/-4°F | -40°C/-40°F | -20°C/-4°F | -40°C/-40°F |
| Chamber capacity | | 1300 Ltrs/45.9 cu.ft | 1300 Ltrs/45.9 cu.ft | 2600 Ltrs/91.8 cu.ft | 2600 Ltrs/91.8 cu.ft |
| Chamber weight (estimated, without optional accessories) | | 340 kg | 340 kg | 440 kg | 440kg |
| Mounting format | | Floor standing | Floor standing | Floor standing | Floor standing |
| Loading threshold | | 800mm/31.5" | 800mm/31.5" | 800mm/31.5" | 800mm/31.5" |
| Chamber external dimensions, max | W | 2025mm/80.0" | 2025mm/80.0" | 2885mm/113.6" | 2885mm/113.6" |
| | D | 1316mm/51.8" | 1316mm/51.8" | 1316mm/51.8" | 1316mm/51.8" |
| | H | 1965mm/77.4" | 1965mm/77.4" | 1965mm/77.4" | 1965mm/77.4" |
| Chamber internal dimensions, max | W | 1300mm/51.2" | 1300mm/51.2" | 2160mm/85.0" | 2160mm/85.0" |
| | D | 980mm/38.5" | 980mm/38.5" | 980mm/38.5" | 980mm/38.5" |
| | H | 1500mm/59.0" | 1500mm/59.0" | 1500mm/59.0" | 1500mm/59.0" |
| Refrigeration unit | W | 1510mm/59.4" | 1510mm/59.4" | 1510mm/59.4" | 1510mm/59.4" |
| Separate unit, one supplied, to be located to the rear or left hand side of the Atmosfär chamber | D | 1550mm/60.0" | 1550mm/60.0" | 1550mm/60.0" | 1550mm/60.0" |
| | H | 1055mm/41.5" | 1055mm/41.5" | 1055mm/41.5" | 1055mm/41.5" |
| Salt solution reservoir 115 Ltrs/30.4 US gal | W | 560mm/22.0" | 560mm/22.0" | 560mm/22.0" | 560mm/22.0" |
| Separate unit, one supplied to deliver salt water to the conventional salt spray atomizer | D | 620mm/24.5" | 620mm/24.5" | 620mm/24.5" | 620mm/24.5" |
| | H | 675mm/26.6" | 675mm/26.6" | 675mm/26.6" | 675mm/26.6" |
| Salt solution reservoir 160 Ltrs/42.2 US gal | W | 840mm/34.0" | 840mm/34.0" | 840mm/34.0" | 840mm/34.0" |
| Separate unit, one supplied to deliver salt water to the spray bar | D | 500mm/19.7" | 500mm/19.7" | 500mm/19.7" | 500mm/19.7" |
| | H | 790mm/31.1" | 790mm/31.1" | 790mm/31.1" | 790mm/31.1" |
| Removable slotted sample racks to suit lower rack mounting position | | 1 set of 8 racks each with 24 slots | 1 set of 8 racks each with 24 slots | 1 set of 16 racks each with 24 slots | 1 set of 16 racks each with 24 slots |
| | | Each with variable width slots (up to 6mm/0.25") & variable angle (up to 20° from vertical) & carrying handle. | | | |
| Chamber construction | | Glass reinforced plastic, Polypropylene & PVC parts. | | | |
| Color | | 9 standard colors to choose from. | | | |
| Electricity supply | | Two 3-phase electrical supplies are required (one for the chamber and one for the separate air conditioning unit). The voltage (VAC) and frequency (Hz) are dependent on country/region of installation (to be confirmed at the time of ordering). | | | |
| Water | | The air saturator, humidity generator and salt solution reservoir all require separate connections to a continuous, pressurized deionized/distilled water supply of 0.5–5.0 bar (7.3–73 psi). | | | |
| Air | | Clean dry & oil free compressed air, 4.0 to 6.0 bar (58-87psi) with 240 Ltrs (8.5cu.ft) per minute flow. Two separate supplies are required, one for the chamber and one for the separate salt solution reservoir. | | | |
| Exhaust | | 3m (10ft) exhaust pipe is provided which should be terminated outside building. | | | |
| Drain | | 3m (10ft) drain pipe provided which should be terminated into floor level drain. | | | |
| Operating environment conditions | | Indoors, with ambient maintained at +18 to +23°C (+64 to 73°F), 85% max RH (non-condensing). | | | |

Test Chamber Optional Accessories

Optional facilities required for some CCT test standards

- Standard salt spray chambers
- Premium salt spray chambers
- Cyclic corrosion test chambers
- Atmosfär chambers

F Factory fitted only
A Available separately

□ Available in a variety of sizes/ configurations – further details available on request.

◆ Accessories separate to the chamber, require their own space and require connection to the chamber and/or other external services. Details available upon request.



ACC90



ACC112



ACC29



ACC31



ACC42







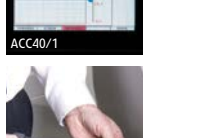


ACC46







| Facility | Product code | Description | Notes |
|---|---|--|---|
| For testing to Renault D17 2028 (ECC-1) Control at ambient Control to 0°C/32°F Control to -20°C/-4°F Control to -40°C/-40°F | ACC01/see below ● F ◆ ACC01/1 ACC01/2 ACC01/3 ACC01/4 | A kit of all necessary items to equip the chamber for compliance with ECC-1. Includes options ACC80/2 and ACC90/2 Includes options ACC112/2 and ACC112/INT/2 Includes options ACC29/3 (-20°C/-4°F option) and ACC29/INT/2 Includes options ACC29/4 (-40°C/-40°F option) and ACC29/INT/2 | Only suitable for the 1000 Ltr chamber as approved by Renault. Not suitable for use with option ACC46. This option dissipates heat which will need to be accounted for on installation. |
| Interface for ACC90 | ACC80/see below ● F ACC80/1 ACC80/2 ACC80/3 ACC80/4 ACC80/5 | Pre-equips the chamber for connection to an ACC90 dehumidification unit (available separately). For 450 Ltr chamber For 1000 Ltr chamber For 1300 Ltr chamber For 2000 Ltr chamber For 2600 Ltr chamber | |
| To extend the range of humidity control (only) below ambient | ACC90/see below ● A ◆ ACC90/1 ACC90/2 ACC90/3 | Delivers dehumidified air to enable humidity control at, or just below ambient conditions, Refer to graph on page 6. For 450 Ltr chamber For 1000/1300 Ltr chambers For 2000/2600 Ltr chambers | Requires the chamber to be pre-equipped with option ACC80. |
| Interface for ACC112 | ACC112/INT/see below ● F ACC112/INT/1 ACC112/INT/2 ACC112/INT/3 ACC112/INT/4 ACC112/INT/5 | Pre-equips the chamber for connection to an ACC112 midi dehumidification unit (available separately). For 450 Ltr chamber For 1000 Ltr chamber For 1300 Ltr chamber For 2000 Ltr chamber For 2600 Ltr chamber | |
| To extend the range of humidity and temperature control below ambient | ACC112/see below ● A ◆ ACC112/1 ACC112/2 ACC112/3 | A freestanding, mid-size, air conditioning unit, to enable controlled climates to be created within the chamber below the ambient conditions of the room in which it is located. Refer to graph on page 6. For 450 Ltr chamber For 1000/1300 Ltr chambers For 2000/2600 Ltr chambers | This option dissipates heat which will need to be accounted for on installation. All versions require the chamber to be pre-equipped with option ACC112/INT. |
| Interface for ACC29 | ACC29/INT/see below ● F ACC29/INT/1 ACC29/INT/2 ACC29/INT/3 ACC29/INT/4 ACC29/INT/5 | Pre-equips the chamber for connection to an ACC29 air conditioning unit (available separately). For 450 Ltr chamber For 1000 Ltr chamber For 1300 Ltr chamber For 2000 Ltr chamber For 2600 Ltr chamber | Chambers equipped with this option are not fitted with canopy windows. |
| To extend the range of humidity and temperature control below freezing | ACC29/see below ● A ◆ ACC29/1 ACC29/2 ACC29/3 ACC29/4 ACC29/5 ACC29/6 | A freestanding air conditioning unit to extend the range of humidity and temperature control. Refer to graph on page 6. For 450 Ltr chamber to -20°C/-4°F For 450 Ltr chamber to -40°C/-40°F For 1000 - 1300 Ltr chambers to -20°C/-4°F For 1000 - 1300 Ltr chambers to -40°C/-40°F For 2000 - 2600 Ltr chambers to -20°C/-4°F For 2000 - 2600 Ltr chambers to -40°C/-40°F | Refer to graph on page 6. This option dissipates heat which will need to be accounted for on installation. All versions require the chamber to be pre-equipped with option: ACC29/INT. |
| For test to SAEJ2334 and some GM tests | ACC30 □ ● F ◆ | Fixed high level nozzles which spray salt water directly down onto the test samples under programmable control. A separate reservoir holds the salt water to be sprayed, at ambient temperature. | |
| For some Volvo & GM Tests | ACC31 □ ● F ◆ | Oscillating spray nozzles, set high in the chamber which sway backwards and forwards, to produce a fan shaped pattern of salt spray which 'sweeps' over the test samples located beneath, to wet them uniformly. A separate reservoir holds the salt water to be sprayed at ambient temperature | Only available for 1300 & 2600 Ltr CCT chambers. |
| For tests requiring water fog humidity | ACC32 □ ● F ◆ | Provides high humidity conditions (95 -100% RH) by spraying water as a fog. Includes an additional reservoir for the water to be sprayed, fog atomizer(s) and associated equipment. | |
| Interface for ACC34 | ACC34/INT □ ● F | Pre-equips the chamber for connection to an ACC34 liquid immersion facility (available separately). | Not suitable for use with option ACC46 or ACC10/110. |
| For tests requiring liquid immersion | ACC34 □ ● A ◆ | For automatically immersing test samples held at low level inside the chamber with salt water heated to a user adjustable temperature up to +50°C/+122°F. | Requires the chamber to be pre-equipped with option: ACC34/INT. |
| For tests requiring wall wash | ACC42 □ ● F | Comprises of a water spray rig to automatically wash the internal walls of the chamber with water. Both wash time and duration are user programmable. | |
| For testing to ASTM G85 annex A4 | ACC46 □ ● F | Designed to meet the requirements of ASTM G85 annex A4, this optional accessory comprises of a chamber-mounted dispersion tube, through which SO2 gas is introduced, at a user adjustable rate and for a programmable duration. | User must provide SO2 gas cylinder and connector. Not suitable for use with: ACC01, ACC10, ACC20, ACC34/INT and ACC92. |
| For tests requiring different salt spray solutions | ACC86 □ ● F ◆ | Enables different salt spray climates to be created which can be individually programmed to occur within any test program. | Additional salt solution reservoirs, atomizers etc, are included. |

Test Chamber Optional Accessories

Optional accessories providing external services

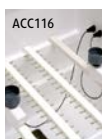


| Accessory | Product code | Description | Notes |
|--|---|--|--|
|  Additional salt solution reservoir | ACC02/ see below ●●●●● A ◆ ACC02/1 ACC02/2 ACC02/3 | Translucent with graduated scale for viewing contents, hinging lid for filling & cleaning, mounted on castors. For 80 Ltr/21 US gal capacity model For 115 Ltr/30 US gal capacity model For 160 Ltr/42 US gal capacity model | |
|  Air compressor | ACC04 ●●●●● A ◆ | Provides continuous supply of oil free compressed air to enable functioning without connection to a local compressed air supply. | |
|  Deionizer | ACC06/ see below ●●●●● A ◆ ACC06/1 ACC06/2 ACC06/3 | Provides high purity water for topping up chamber air saturator, humidity system and for making up salt solution. For small model For medium model For large model | Must be regenerated or replaced when exhausted. |
|  Waste water trough | ACC20 ●●●●● F ◆ | Where a local floor level drain is unavailable ACC20 provides a tank into which the chamber drain outlet is terminated. When full, waste water is automatically pumped to a remote drain located up to 10m/32ft horizontally & 3m/10ft vertically. | Not suitable for use with option ACC46. |
|  Trolley | ACC24 ●●●●● A ◆ | Converts the bench standing 120 Ltr size chamber to floor standing. Mounted on lockable castors. There is space underneath for 1 x ACC02/1 reservoir (available separately). | For use with 120 Ltr size chamber only. |
|  Exhaust salt scrubber | ACC92/ see below ●●●●● A ◆ ACC92/1 ACC92/2 ACC92/3 ACC92/4 | Removes the majority of highly corrosive salt fog from the chamber exhaust where it is not possible to vent this outside the building. <u>Non-recirculating</u> - total loss of water used to condense the salt fog - for salt spray chambers. <u>Non-recirculating</u> - total loss of water used to condense the salt fog - for CCT chambers. <u>Recirculating</u> - reuses some of the water used to condense the salt fog, to minimize waste - for salt spray chambers. <u>Recirculating</u> - reuses some of the water used to condense the salt fog, to minimize waste - for CCT chambers. | Not suitable for use with option ACC46. |
|  Air agitation of salt solution | ACC96 ●●●●● A ◆ | Uses compressed air bubbles to aid dissolving salt within the salt solution reservoir to create a thoroughly mixed salt solution. | Not available for 120 Ltr models. Can only be supplied fitted to ACC02. |

Optional accessories that provide data measurement and recording















| Accessory | Ascott ref. | Description | Notes |
|---|---|--|---|
|  Hand held pH meter | ACC11 ●●●●● A | Digital pH meter, for measuring the pH of salt solution fallout over range 0-14 pH with a resolution of 0.01 pH. | |
|  Hand held temperature & humidity probe | ACC28 ●●●●● A | A hand-held thermo-hygrometer for checking the chamber temperature and humidity. Range: -40 to +85°C & 0 to 100% RH. | Requires any size entry port (see ACC10). |
|  Re-transmission of temperature & humidity signals | ACC36 ●●●●● F | Re-transmission of chamber temperature & humidity as 2 x 0-10VDC signals via external socket. For remote data logging. | |
|  Paperless type chart recorder | ACC40/ see below ●●●●● F ACC40/1 ACC40/2 | Paperless chart recorder, coupled to a temperature and humidity sensor, for recording the chamber conditions. Data can be stored on integral USB drive and/or downloaded to a computer running appropriate software (see option ACC41). For 2 pen type For 12 pen type | Recorder is free-standing for 120 Ltr chambers, & chamber mounted for other models. |
|  Software for paperless chart recorder ACC40 | ACC41 ●●●●● A | Software for paperless chart recorder (separate option ACC40). Enables monitoring and graphical storage of chamber temperature and humidity profiles. | Requires a suitable computer. |
|  Temperature data logger | ACC50 ●●●●● F | A battery powered, chamber mounted temperature data logger. Continuously records chamber air temperature. Logs can be downloaded to a computer with appropriate software (provided). | |
| Temperature & humidity data logger | ACC52 ●●●●● A | A hand-held data logger for monitoring chamber temperature and humidity using a combined temperature/humidity sensor. | Requires any size entry port (see ACC10). |
| Salt solution reservoir low level alarm | ACC70 ●●●●● F | Operates if the salt solution level falls below requirement for approximately 18 hours testing at 1-2ml/hour fall-out rates. Sounds audible alarm and displays warning message. | |
| Hand-held salinity refractometer | ACC100 ●●●●● A | A drop of the salt solution is placed on the viewing window, and its salinity read against a scale, graduated in % sodium chloride, to give an accurate reading in the range 0 to 28%. | |
| Salt solution consumption sensor | ACC102 ●●●●● F | A liquid flow sensor to measure the flow of salt solution from the reservoir to the atomizer. Displays as instantaneous consumption in ml per min and total consumption in ml. | |
| Fallout measuring kit | ACC108 ●●●●● A | Comprises of 4 x 100ml measuring cylinders and 4 x 100mm funnels, for manually collecting and measuring salt spray fall-out inside the chamber, during salt spray testing. | |

Test Chamber Optional Accessories




Optional accessories providing automation

| Accessory | Product code | Description | Notes |
|---|-------------------|--|--|
|  SIM card connectivity | ACC114 ● ● ● F | A SIM card reader, integrated into the chamber. Can be configured to send SMS messages to user nominated cellular phones, when specified alarm conditions arise. | Excludes SIM card which user must procure and fit locally. |
|  Electronic Catchpots® | ACC116 ● ● ● A | Electronic Catchpots to collect and measure fall-out when salt spray testing. Can be displayed as a passive fall-out rate (ml/hour) or configured to control the salt spray delivery system automatically. Maximum per chamber : two for 120 to 1300L chambers and four for 2000 & 2600L chambers. | To be ordered singularly. |
|  Logging software | ACC120 ● ● ● A | When loaded on a suitable 'Class C' network connected computer, this allows logging of chamber variables, such as temperature and humidity, and editing of chamber programs. | Must be installed on a suitable computer (not supplied). |

Optional accessories that are additional chamber fittings

| Accessory | Product code | Description | Notes |
|---|---|---|---|
|  Entry ports | ACC10/ see below ● ● ● ● F ACC10/1 ACC10/2 | Sealable entry port through the chamber's left hand wall to enable the connection of external equipment. 35mm/1.37" diameter 110mm/4.33" diameter (see notes) | Not suitable for ACC46. ACC10/2 is not suitable for 120 Ltr or Atmosfär chambers or ACC34/INT. |
|  Variable angle slotted sample racks | ACC14 □ ● ● ● ● A | Accommodates variable thickness test panels up to 6mm/0.25" thick. Adjustable angles from vertical to 20° from vertical dependant on panel thickness). | Variable angle slotted sample racks are not available for 120 Ltr chambers. |
|  Mesh type racking | ACC15 □ ● ● ● ● A | Removable mesh type racking for testing small components. Locates on the shelf supports inside the chamber. | Lower level racks are not available for 120 Ltr chambers. |
|  Fixed angle slotted sample racks | ACC16 □ ● ● ● ● A | Each slot is 3mm/1/8" wide and a fixed angle of 15 degrees from vertical. Typically used for testing standard panels/coupons. | Lower level racks are not available for 120 Ltr chambers. |
|  General Motors Test Plate Kit | ACC16/6 □ ● ● ● ● A | 10 specially designed Polycarbonate test plate holders and nylon fixings, for mounting General Motors test plates in accordance with the requirements of GMW14872 - in an existing Ascott slotted sample rack, ref ACC16. | The slotted sample rack is not included. |
|  Rod type sample racks | ACC17 □ ● ● ● ● A | For suspending small test samples hung beneath, or supporting larger test samples placed on top. | Lower level racks are not available for 120 Ltr chambers. |
|  Spiked type sample racks | ACC18 □ ● ● ● ● A | For suspending test samples from the 10mm/0.4" dia x 55mm/2" long spikes, equally spaced on both sides of the rack. | Lower level racks are not available for 120 Ltr chambers. |
|  Reinforced false floor | ACC19 □ ● ● ● ● A | Removable reinforced false floor, providing a horizontal platform over the chamber base for supporting large/heavy test samples. | Note: only fits Atmosfär chambers if air collection duct is removed. |
|  Interior illumination | ACC26 □ ● ● ● F | Illuminates the chamber interior when a control panel push-button is pressed. | Not suitable for use with ACC29/INT. |
|  Manual filling air saturator | ACC66 ● ● ● ● F | Enables air saturator to be manually filled and periodically topped up with water by hand as an alternative to the automatic fill and top up provided as standard. | Note: adds 75mm/3" to chamber external width. |
|  Insulated window cover | ACC82 □ ● ● ● A | Removable insulated cover shaped to match the window aperture. Reduces condensation on the inside of the window during testing and improves thermal efficiency. | |
|  Compressed air coupling | ACC94 ● ● ● ● F | A control panel mounted, quick release coupling for connection of an air pressure gauge (not supplied) for checking/calibrating the chamber's air pressure gauge. | |
|  Atomizer airflow optimizer | ACC106 ● ● ● ● A | An airflow anemometer with adaptor, to enable the chamber atomizer airflow to be checked and optimized. | |
|  Vertically operating canopy | ACC110 □ ● ● ● ● F | Special design of canopy opens to a vertical position enabling access from above (e.g. by hoist) for large and/or heavy test samples. | |

Optional service and spares kits

| Accessory | Product code | Description | Notes |
|---|----------------------|---|-------|
|  1 year consumables spares kit | ACC12/1 ● ● ● ● A | A kit of consumables sufficient for up to 1 year. | |
|  3 year chamber service & spares kit | ACC12/2 ● ● ● ● A | Initial kit of spare parts for servicing & maintaining the chamber for up to 3 years from its first use, or its last service. | |
|  6 year chamber service & spares kit | ACC12/3 ● ● ● ● A | A comprehensive kit for servicing and maintaining the chamber for up to 6 years from its first use, or its last service. | |

Corro-Salt[®] salt for salt spray testing

- Highest purity salt for serious testing
- For all salt spray testing including the stringent ASTM B117
- Available in 25 kg drums or bags
- 25 kg drums are supplied with a scoop to maintain purity when handling

Despite the fact that salt is a commonly occurring compound, pure sodium chloride (NaCl) is much more difficult to come by. Because of its hygroscopic nature, which tends to make salt coagulate and solidify, most granulated salt has anti-caking agents added. However, the addition of these agents is prohibited by most salt spray test standards.

For example, the world's most popular salt spray test standard; ASTM B117, prohibits the addition of anti-caking agents, and also limits other impurities, as follows: total impurities < 0.3%, halides excluding chloride < 0.1%, copper < 0.3ppm - so the salt must be very pure indeed, with the limit for copper in particular set at an extremely low level. Other national and international test standards for corrosion testing are similarly demanding in their specifications.

To ensure compliance with the highest standards, Ascott has had Corro-Salt independently analysed by an UKAS* accredited laboratory.

*UKAS = United Kingdom Accreditation Service.



Specifications

Typical analysis

| | |
|------------------|-----------|
| Total impurities | < 0.1 % |
| Bromide | < 0.01 % |
| Fluoride | < 0.01 % |
| Iodide | < 0.01 % |
| Copper | < 0.3 ppm |

Ordering information

| Code | Description |
|---------|-------------------------------|
| SALA530 | 25 kg drum of salt with scoop |
| SALA500 | 25 kg bag of salt |

Bulk quantities available upon request.

Order
Corro-Salt

1 Ascott Shop website
www.ascottshop.com



2 By email:
sales@ascott-analytical.com

3 By telephone:
+44 (0) 1827 318040



Ascott Worldwide

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All Ascott chambers are  marked.

Catchpots[®] is a trademark of Ascott Analytical Equipment Limited

Prohesion[®] is a trademark of Croda Mebon Ltd

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Issue B

Local representative/supplier

ascott

North American Office

Ascott Analytical Equipment
37000 Plymouth Road
Livonia, MI 48150, USA
phone: +1 248-306-0394
fax: +1 248-306-0396
email: info@ascott-analytical.com
web: www.ascott-analytical.com

European Office

Ascott Analytical Equipment Limited
6-8 Gerard, Lichfield Road Industrial Estate
Tamworth, Staffordshire, B79 7UW, Great Britain
phone: +44 (0) 1827 318040
fax: +44 (0) 1827 318049
email: info@ascott-analytical.com
web: www.ascott-analytical.co.uk