

# alpha+

by ascott

Saturated humidity cabinets from the  
company you can trust



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Easy to install – minimal number of external service connections



Simple to operate – intuitive touch screen interface



Reliable – uncomplicated design backed by 25 years manufacturing experience

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## design features

- Manufactured from a robust glass reinforced plastic (GRP) construction, combined with other non-corroding materials, to guarantee a trouble free long life.
- Visually striking, transparent domed roof providing unimpeded 360 degree viewing of the cabinet interior.
- Latching roof stay for ease of loading.
- Self-regenerating water trap seal.
- Ergonomically positioned menu driven touch screen programmer for comfortable and intuitive control.
- Timed stop facility and hours run counter.
- Maximised cross-sectional load area, enabling a large number of samples to be tested at any one time, without compromising ergonomics.
- Supplied with complimentary corrosion proof sample holders.
- Platform available as an optional accessory for large/heavy objects to be located in the base of the cabinet.



# alpha+

## basic corrosion test cabinets

**models:  
H500 & H1000 saturated humidity  
cabinets**



### key features

- Precise temperature controlled, high humidity environment. Water held in a sump located in the cabinet base, is heated by an immersion heater to generate water vapour.
- As water vapour evaporates, it saturates the cabinet atmosphere with moisture. Test samples in the cabinet, below the dew-point temperature of the saturated air, will develop surface condensation.
- By careful design the high humidity environment is achieved without the need for a circulation fan, which would otherwise have to endure the hostile, high humidity environment.
- Safety cut-outs ensure the immersion heater is automatically isolated if the water reservoir runs dry.
- User can program either a single set temperature, or automatically cycle the cabinet temperature between two different temperatures for user defined periods of time.
- Automatic filling and topping up of the humidity water reservoir if connected to a pressurised water supply.



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## installation requirements



Developed with ease of installation in mind, the Alpha+ features integral runners to enable a fork lift truck to lift the cabinet from behind.

Once transported, the cabinets are floor standing with lockable castors so that they can be manoeuvred into the test facility and positioned with ease.



A connection to a low level waste water drain is required, to allow the combined exhaust and drain to remove waste water from the cabinet.

All Alpha+ cabinets can be installed with minimal disruption in as little as 30 minutes.



## technical support

Ascott has a wealth of knowledge and highly experienced technical support staff, internally and externally amongst our many distributors. So wherever you are in the World we can help keep your Alpha+ test cabinet in excellent working condition.

## international standards compliance

The Alpha+ range complies with the most popular international standards for corrosion testing, including:

### *Humidity standards*

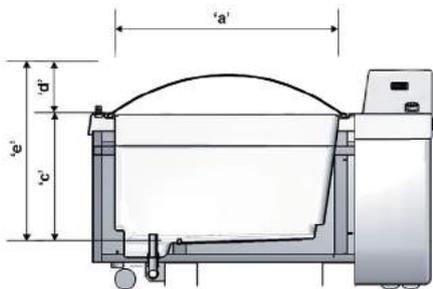
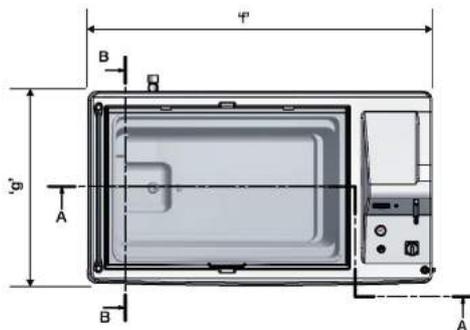
DIN 50 017-KK  
DIN 50 017-KFW  
DIN 50 017-KTW  
ISO 6270-2  
VDA 621-421  
ASTM D2247  
BS 3900 Part F2

All cabinets are CE marked as your assurance of their quality and compliance with European directives.

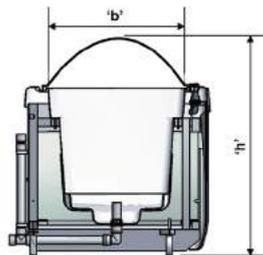
# alpha+

## technical specifications

Product Details		H500	H1000
Workspace capacity	Ltrs (cu ft)	500 (17.6)	1000 (35.3)
Workspace internal dimensions	width 'a'	mm (inches)	1076 (42.4)
	depth 'b'	mm (inches)	683 (26.9)
	cabinet height 'c'	mm (inches)	616 (24.3)
	roof height 'd'	mm (inches)	250 (9.9)
	total height 'e'	mm (inches)	866 (34.2)
Cabinet external dimensions	width 'f'	mm (inches)	1650 (65.0)
	depth 'g'	mm (inches)	934 (36.8)
	height 'h'	mm (inches)	1102 (43.4)
Cabinet weight	kg (lbs)	130 (287)	190 (419)
Cabinet load capacity	kg (lbs)	80 (176)	150 (330)
Cabinet colour		White	White
Voltage <sup>#</sup>	Volts (50/60 Hz, 1 ph)	220-240	220-240
Max current <sup>##</sup>	Amps	10	10
Sample holders included	per cabinet	5	7
Slots*	per sample holder	30	38
Max number of test coupons**	per cabinet	150	266
Cabinet temperature	°C (°F)	Adjustable from ambient plus 10 (50) to +55 (+131)	



Section on A-A



Section on B-B

# Other voltages available on request.

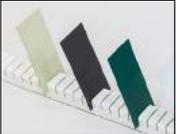
## For other voltages the current will vary.

\* Sample holders are pre-cut with 3mm (1/8inch) wide slots, angled 15 degrees from vertical, to accommodate test coupons - but will support other test samples as well. All but one of the holders can be removed.

\*\*The maximum number of test coupons that can be accommodated assumes that all sample holders are fully loaded with test coupons of nominal dimensions; 100mm (4 inches) wide by 150mm (6 inches) high.

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## optional accessories

		<b>500 L 1000 L</b>			
		Option reference			
Internal base loading platform	ACC15/8 ACC15/9	Horizontal removable loading platform, covering the internal base of cabinet, to enable large/heavy test samples to be accommodated directly on the internal base of the cabinet.		Internal base loading platform ACC15/8 , ACC15/9	
Extra sample holders	ACC16/7 ACC16/8	Additional sample holders.		Extra sample holders ACC16/7, ACC16/8	
Rod type sample holders	ACC17/6 ACC17/7	For suspending small test samples hung beneath, or supporting larger test samples placed on top.		Rod type sample holders ACC17/6, ACC17/7	
Spiked type sample holders	ACC18/4 ACC18/5	For suspending test samples from 10mm/0.4" dia x 55mm/2" long spikes, equally spaced on both sides.		Spiked type sample holders ACC18/4, ACC18/5	
Transformer	ACC33	Converts the Alpha + cabinet to operate on 110 Volts.		Transformer ACC33	
Height increase kit	ACC56	Kit of components for raising the height of a cabinet by 138mm ±10mm.		Height increase kit ACC56	
Installation kit	ACC23	A U-trap to connect between the drain outlet of the cabinet and local drain facility, to prevent any smells from entering the cabinet via the drain. Also 3m of drain/exhaust tubing with a selection of couplers, and 3m compressed air hose with hose clips.			

## Other Ascott corrosion cabinets

The company also manufactures a range of Cyclic Corrosion Test (CCT) cabinets. Ascott CCT cabinets can be programmed to link together a variety of environments, in a sequence, which can be automatically cycled within the cabinet. This technique can be used to simulate naturally occurring corrosive conditions, which often combine synergistically to bring about a corrosion failure. Combining environments within a CCT cabinet produce more realistic corrosive conditions, than exposure to a single environment alone. This is a useful method for predicting service life expectancy, under laboratory conditions. For further information on cyclic corrosion cabinets contact Ascott.

All Ascott cabinets are CE marked.

It is the policy of Ascott Analytical Equipment Ltd to protect its products by means of patents and registered designs. The information contained herein was correct at time of going to press and is subject to change without notice.

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Issue A

Local representative/supplier

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