DAMP HEAT CHAMBER

Humidity chamber for corrosion tests in constant and alternate humidity saturated atmosphere

Available in 4 models: vertical and horizontal, standard and automatic **KESTERNICH** (with SO2 addition)

DAMP HEAT CHAMBER AUTOMATIC with SO2 - 300L (D200)

Damp heat chamber AUTOMATIC for high humidity tests in Constant (CH) and Alternate (AHT, AT) atmosphere to simulates rain and dew by condensing liquid water directly onto the test specimen (high humidity 95% to 100% saturated atmosphere). Suitable for performing **Kesternich** test with addition of SO2 (Sulphur Dioxide) gas and in ambient atmosphere. *Also available without SO2 gas unit option.* The test chamber has an internal capacity of 300L and it is built completely in plastic material. Completely automatic execution of cycle. Phase with gas saturated atmosphere: loading of water dosage and SO2 gas every 8 hours at 40°C, unloading of chamber. Ambient phase: 16 hours of chamber ventilation with compressed air. The cycle is repeated constantly. Supplied with 4 bars specimen and 2 panel rack holders. Shipped completely wired and assembled. In accordance with following norms:
ASTM D1735, ASTM D2247, BS 3900/F9, DIN 50017, DIN 55958, DIN 55991, ISO 11503, ISO 6270, ISO 4541, ISO3231, NFT 30-077, DIN 50017-KFW, DIN 50017, EN ISO 6988 DIN 50018, DIN 53771, NFT 30-055, SFW 2,0 S, VDA 621-421, VCS 1027.

DAMP HEAT CHAMBER Standard VERTICAL model 300L (D100)

Damp heat chamber for high humidity tests in constant humidity saturated atmosphere built completely in plastic material. The test chamber has an internal capacity of 300L. Constant (CH) high humidity 95% to 100% saturated atmosphere. Internal temperature up to 55°C. Supplied with 4 bars specimen and 2 panel rack holders. Shipped completely wired and assembled. It is able to perform humidity tests in accordance with the following norm:
ASTM D1735, ASTM D2247, BS 3900/F9, DIN 50017, DIN 55958, DIN 55991, ISO 11503, ISO 6270-1, ISO 4541, ISO3231, NFT 30-077.

DAMP HEAT CHAMBER Standard HORIZONTAL model 600L (D600)

Damp heat chamber rectangular design 600 liter volume for high humidity tests in constant humidity saturated atmosphere built completely in plastic material. Constant (CH) high humidity 95% to 100% saturated atmosphere. Internal temperature up to 55°C. Cover dome in Polypropylene with pneumatic opening system. Supplied with 4 bars specimen and 2 panel rack holders. Shipped completely wired and assembled. It is able to perform humidity tests in accordance with the following norm:
ASTM D1735, ASTM D2247, BS 3900/F9, DIN 50017, DIN 55958, DIN 55991, ISO 11503, ISO 6270-1, ISO 4541, ISO3231, NFT 30-077.

DAMP HEAT CHAMBER Standard HORIZONTAL model 1000L(D1000)

Damp heat chamber rectangular design 1000 liter volume for high humidity tests in constant humidity saturated atmosphere built completely in plastic material. Constant (CH) high humidity 95% to 100% saturated atmosphere. Internal temperature up to 55°C. Cover dome in Polypropylene with pneumatic opening system. Supplied with 6 bars specimen and 4 panel rack holders. Shipped completely wired and assembled. It is able to perform humidity tests in accordance with the following norms:
ASTM D1735, ASTM D2247, BS 3900/F9, DIN 50017, DIN 55958, DIN 55991, ISO 11503, ISO 6270-1, ISO 4541, ISO3231, NFT 30-077.

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DAMP HEAT CHAMBER MODEL	D200	D100	D600	D1000
Dimensions	(W x D x H)	(W x D x H)	(W x D x H)	(W x D x H)
External mm.	940x540x1370	760x540x1370	1420x950x1400	1920x1100x1450
Internal (without cover) mm.	740x520x700	740x520x700	1300 x 650 x 720	1700x900x690
Volume (without cover) litres	300L	300L	600L	1000L
Weight Kg.	90	80	320	350
Electrical supply				
Type of connection	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Voltage	230 Vac +/-10% 50-60 Hz	230 Vac +/-10% 50-60 Hz	230 Vac +/-10% 50-60 Hz	230 Vac +/-10% 50-60 Hz
Current consumption (max)	4 A	2,5 A	10 A	10 A
Water supply				
Type of water	Demineralised	N.A.	N.A.	N.A.
Water pressure (BAR)	2	N.A.	N.A.	N.A.
Water consumption (indicative) (litres/day)	2-4	N.A.	N.A.	N.A.
Air supply				
Type of air	Filtred / oil free	N.A.	N.A.	N.A.
Air pressure (BAR)	2	N.A.	N.A.	N.A.
Air consumption (indicative) (Nm3/h)	6	N.A.	N.A.	N.A.
Temperature range				
Test chamber temperature range	Ambient up to 55°C	Ambient up to 55°C	Ambient up to 55°C	Ambient up to 55°C
Supplied accessories				
Rods	4	4	4	6
Test panel racks	2	2	2	4
Air filter and pipe (4 m)	YES	N.A.	N.A.	N.A.
Water filter and pipe (4 m)	YES	N.A.	N.A.	N.A.
GAS supply				
Type of GAS	SO2	N.A.	N.A.	N.A.
GAS pressure (BAR)	0,2	N.A.	N.A.	N.A.
GAS consumption (indicative) (litres/day)	0,2 -2	N.A.	N.A.	N.A.

D200 PANEL for Kesternich Test with SO_2

1. Test cycle timer.
2. Start push button.
3. Reset push button.
4. Chamber temperature regulator.
5. Alarms.
6. Selection key for choosing the functioning mode.
7. Rotary switch for manual dosing system operation.
8. Push button to perform operation selected on rotary switch 7.
9. Pilot lamps.
10. Main and safety switch.

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