

AQUA

Rain Chambers

Aqua - Rain Chambers



Aqua - Rain Chambers are specially designed for simulating actual and accelerated rain conditions as per various International test specifications and standards.

The Aqua Series of Rain or Water Spray Chambers is an outcome of the continual improvement of CM EnviroSystems over twenty-five years in meeting the expectations of variety of requirements of various customers.

Developed with best engineering practices enhancing the inherent reliability in the system Aqua - Rain Chambers are uniquely designed to perform various tests of IEC, JIS, SAE, IS etc. Various proprietary standards also can be combined with our chambers

Aqua Series - Rain Chambers are available in different ranges of parameters and capacities as per specific testing requirements and all standard sizes are available in stock to meet the just-in-time testing needs of various industries.

A mono-block construction completely made of non-magnetic stainless steel of high grade. Lockable double jacketed front door with viewing window / transparent acrylic inner door with gasket for leak tight sealing.

The chamber is capable of moving easily to different locations using castor wheels. modular design with mono-block construction.

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Spray nozzle as per JIS standard

A nozzle shaft is fixed at an angle of 45 degree at the top center of the panel. It contains one rain simulation arm and one spray nozzle arm. The arms are made of SS. They are at right angles to each other and are connected to nozzle shaft, which in turn is connected to a motor. The arms can be made to rotate at a variable speed of 5 to 30 RPM. Suitable glands are provided in the nozzle shaft for connection to the water line. Each nozzle will have hand operated shut-off valves.



Test Table

The motorized test table will be located at the center of the cabinet with variable rotation provision facilitating the direction of the water spray on all sides of the test specimen.

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Spray nozzle as per IS standard

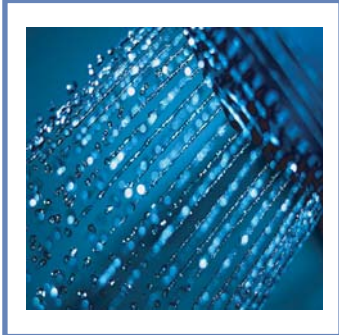
Four Nozzles as per IS standard are fixed at an angle of 45 degree at the top four corners of the test space and four nozzles at the center of each four sides. The nozzles are provided with a manually operated shut valve. During the operation of all nozzles the combined flow rate will be 450 L/hr at static pressure of 200 kPa.



Water circulation system

Water is circulated in a closed loop arrangement. The water is stored in a tank with an inlet connected to regular water line and a float valve to maintain the level of water. A suitable water pump with a discharge pressure of 1-3 Kg per sq. cm and flow rate of about 25-40 liters/ minute will pump water into the centrally located cylinder. A pressure control valve with a pressure indicator, flow meter and suitable bypass system will be provided. The tank will have a drain valve

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Water Spray as per IEC standard

·To verify the protection against vertical falling drops of water, a tank with level control shall be provided with water filling facility as per Numeral 1&2.

·A spray shower with a flow of 10 l/min will be provided with a flexible hose, which can be directed towards the specimen as per Numeral 3&4



Control & Monitoring system

Suitable size of ergonomically designed and elegantly finished SS control panel will be provided at the right side of the chamber consisting of Electrical Switches, Indicators, Motor drive controllers, Timers, MCB'S, (Over load Protectors) gauges and control.

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MODEL	INTERNAL VOLUME	INTERNAL DIMENSION	EXTERNAL DIMENSION	IEC	JIS	BIS
RC1000-IXX RC3500-IXX RC8000-IXX	1000 L 3500L 8000L	1000Wx1000Dx1000H 1500Wx1500Dx1500H 2000Wx2000Dx2000H	1200Wx1200Dx2000H 1700Wx1700Dx2500H 2200Wx2200Dx3000H	✓	✗	✗
RC1000-XJX RC3500-XJX RC8000-XJX	1000 L 3500L 8000L	1000Wx1000Dx1000H 1500Wx1500Dx1500H 2000Wx2000Dx2000H	1500Wx1200Dx2000H 2000Wx1700Dx2500H 2500Wx2200Dx3000H	✗	✓	✗
RC1000-XXB RC3500-XXB RC8000-XXB	1000 L 3500L 8000L	1000Wx1000Dx1000H 1500Wx1500Dx1500H 2000Wx2000Dx2000H	1200Wx1200Dx2000H 1700Wx1700Dx2500H 2200Wx2200Dx3000H	✗	✗	✓
RC1000-IJX RC3500-IJX RC8000-IJX	1000 L 3500L 8000L	1000Wx1000Dx1000H 1500Wx1500Dx1500H 2000Wx2000Dx2000H	1500Wx1200Dx2000H 2000Wx1700Dx2500H 2500Wx2200Dx3000H	✓	✓	✗
RC1000-IJB RC3500-IJB RC8000-IJB	1000 L 3500L 8000L	1000Wx1000Dx1000H 1500Wx1500Dx1500H 2000Wx2000Dx2000H	1500Wx1200Dx2000H 2000Wx1700Dx2500H 2500Wx2200Dx3000H	✓	✓	✓

Notes

Our presence across the globe.



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