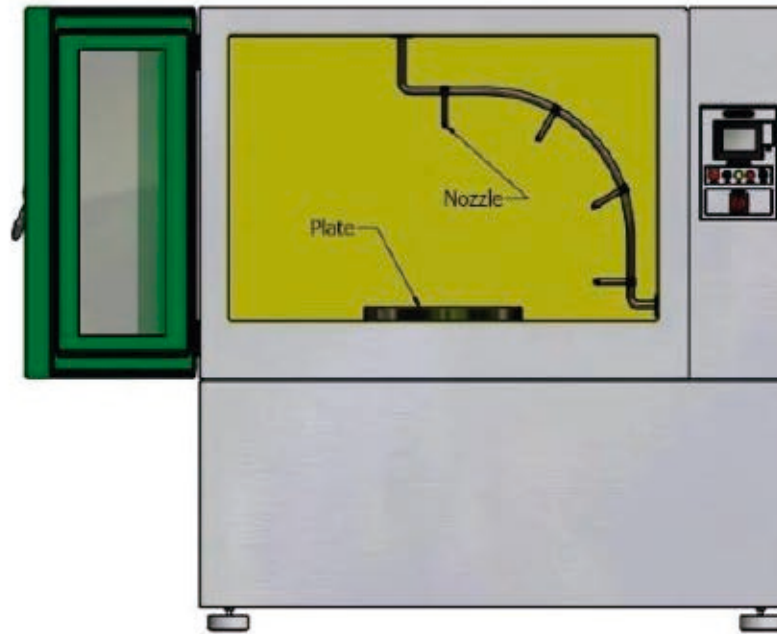


Device to Degree of Protection – IPX9

Device manufactured according with the requirements of the International and National Technical Standards for full service of the test's specifications and characteristics for Degree of Protection (IP-Code) on enclosure of the electrical equipment.



The device installation according to the customer's needed, being that, the use of the Walk-In and/or Drive-In Chamber are required to specimens of the bigger dimensions (samples larger dimension than 3,9").

The test of protection degree IPX9 rate the protection efficient of enclosure for electrical device submit against water to water jet in different angles under the enclosure at high pressure and temperature.

Strictly meet the characteristics of built and test specification of the Technical Standards and their derivations:

IEC 60529
ISO 20653
<i>Others (On request)</i>

Technical Descriptions

- The IPX9 device, , Equilam NA brand, has it's built structure in stainless steel and high strength materials to meeting your test needs;
- Has a reservoir of 92 gal and/or according the need for design, with hydrostatic certificated and water system to heating and pressure;
- Jet nozzle according with the requirements and dimensions requested by IEC 60529 standard;
- Spray nozzle angle as per requirements of IEC 60529 standard, four positions (0°, 30°, 60° and 90°) for samples with dimensions smaller than 9,8". In case of samples with dimensions bigger than 9,8", the positions and quantify of spray nozzle must be in accordance with total wettability of enclosure surface;
- The device meets NR12 requirements;
- Pressure regulator valve;
- Gauge with pressure indication in the units:
(bar;kgf/cm²; psi)
(0 ~ 10kgf/cm² +/- 0,1 Kgf/cm²)
- All electrical components with UL register;
- Supply voltage at 220 +/- 10% Vac +/- 10% - 50/60 Hz;
- Security automatic system of operator with visual LED indication;
- Cleaning and pressure adjustment system – pre-test;

Techical Specifications

Specifications	Model - IPX9 Test
Water temperature	176°F ± 9°F (80°C ± 5°C)
Room temperature	77°F ± 14°F (25°C ± 8°C)
Recommended relative humidity	50% ± 5
Temperature units	°C - °F
Water flow rate	14l/min - 16l/min
Spray distance	<p style="text-align: center;">0°, 30°, 60° e 90° (for samples with smaller dimension than 9,8")</p> <p style="text-align: center;">On request (for samples with the bigger dimension than 9,8") – According requested IEC 60529</p>
Water pressure	100 ± 5 bar (1450,38 ± 72,52 psi)
Test capability	30s per nozzle (15l/min)
Device dimensions	On request (according to the needs of the project)
Water tank dimensions (L x W x H)	63" x 33" x 38" (1600 x 830 x 960 mm)
Net Weight	On request (according to the needs of the project)
Gross Weight (with box)	On request (according to the needs of the project)
Necessary distance between enclosure and device	<ul style="list-style-type: none"> • 7,9" ± 2" (200 ± 50 mm) - for samples smaller than 9,8". • 6,9" ± 1" (175 ± 25 mm) – for samples with dimension bigger or equal than 9,8" - a para amostras com a dimensão maior ou igual a 250mm) – as requested IEC 60529.
Supplying	220 VAC – 60 Hz – 16 A – Single-phase or accordance the needs of project
Water quality	ASTM D 1193 Tipo IV
DI Water – Spray mode	14l/min - 16l/min
Spray nozzle connection	1/4"

Customer reference list

AUTO INDUSTRY	APPLIANCE	PAINT ELECTROPLATING	UNIVERSITIES RESEARCH CENTERS	METALLURGY
Fiat	Multibras	Anjo Química	ALAC	Allevard
Ford	Bosch	Akzo Nobel	CTA S.J Campos	Castrol
General Motors	BSH Continental	Basf – Glasurit	Falcão Bauer	Cebrace
Honda	Electrolux	Chemetall	FEI IPEN	Continental Teves
Iveco Fiat	GE – OSI	Dorken	IPEN - SP	COSIPA
Marcopolo		Killing	IPT – SP	CSN
Mercedes Benz		Magni América	ITAL	Keko
Peugeot Citroen		Metalcoating	PUC – Labelo	Metagal
Renault		Niquelação Brasil	SENAI	Petrobras
Scania		PPG	Erichsen – França	Sachs
Volkswagen			Erichsen – Itália	Shell
Volvo				Siemens
Volkswagen				Tramontina
Ferrari – Itália				Tenneco
Honda – Tailândia				Tower

1 (One) Year Parts Warranty against manufacturing defects from date of delivery at customer's site. This assumes equipment is used under normal operating conditions in accordance to the instruction manual. This warranty does not apply to glassware (lamps). In case of non-warranty issues during warranty period, actual expenses shall apply.

Note 1: All our equipment is delivered with Installation, Maintenance, and User Manuals. We believe this material is enough for the correct use of the equipment. We are available for further questions and clarifications. If necessary, we provide the service of assembling and staff training at client's site (Cost for this service available upon request).

Note 2: Appearance and specifications of equipment are subject to *change without prior notice*.