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Ultra-violet radiation test equipment

Description

Comprises a 1m diameter by 750mm high sheet steel "tank". The xenon arc lamp is located vertically on the central axis, so that the direction of radiation is radially outwards.

A fan is located in the lid of the tank, above the lamp. This draws ambient air into the tank to keep the lamp and test specimens cool.

The lamp is either an XBO/450 W/4 or an XBO/450 OFR and is powered by an appropriate power supply and control gear.

Specimens are held in "finger" clamps (which are supported on a number of concentric hoops positioned at various heights), so that the specimens are facing inwards towards the radiation.

Up to about six helmets or sixty single oculars can be accommodated at once.

Services required

Floor mounted
110/230 Volts AC, 50/60Hz, mains electricity
Because ozone is produced by the lamp, an extraction fan and ducting to the outside of the building is needed.

Approximate size & weight

120 x 120 x 75 cm : 200 kg

Relevant standards

Helmets
EN 397:2012, clause 6.2.6.1
EN 443:2008, clause 5.3.2
EN 12492:2012, clause 5.3.2
EN 13087-1:2000, clause 4.7.2
EN 14052:2012, clause 6.2.5

Eye protectors
EN 168:2001, clause 6.1
EN 174:2001, clause 6.4
EN 207:2009, clause 4.7.1
EN 208:1999, clause 4.6
EN 1378:2000, clause 5.8
EN 1836:2007, clause 6.7
EN 1938:2010, clause 5.7
EN 12254:2008, clause 5.3
ISO 4855:1981, clause 5
ISO 12311:2013, clause 9.8.2
ISO 12312-1:2013, Part 1
BS 4110:1999, clause 6.6.1

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