TECHNICAL DATA

MODEL
WC-15 & WC-20
in Brass IS319 / ASTM B16
WC-15S & WC-20S
in S.S. construction

MAXIMUM WORKING PRESSURE 12.3 Bar (175 PSI)

EFFECTIVE WORKING PRESSURE 1.4 to 3.5 Bar
(20 - 50 PSI)

END CONNECTION
WC-15 & WC-15S with ½” BSPT (NPT optional)
WC-20 & WC-20S with ¾” BSPT (NPT optional)

K-FACTOR
Model : WC-15 / WC-15S K23, K30, K37, K45, K53 & K72
Model : WC-20 / WC-20S K98, K120, K140

WEIGHT (Approx)
Model WC-15 - 0.180Kg
Model WC-20 - 0.250Kg

FINISH Natural Brass finish, chrome plated brass or electroleless brass finish (optional)
Natural finish for WC-15S & WC-20S

ORDERING INFORMATION Specify Model, K factor and Finish

DESCRIPTION
Water Curtain Nozzle distributes water in a flat curtain extending all the way to the ground.

Water Curtain Nozzle when mounted in pendent position acts as a window spray nozzle to protect interior walls, windows and other openings of the building which are affected by fire.

The nozzles when mounted in horizontal position with flow towards ground, a flat water curtain is produced to segregate the area which is under fire.

Water Curtain Nozzles are available in Brass and Stainless Steel construction with different flow rate.

The main pipeline strainer as per NFPA-15 is required for system utilizing nozzle orifice diameter less than 9.5mm (3/8 inch).

MAINTENANCE

The spray nozzle must be handled with due care. For best results, the storage as well as any further shipment be made in original packing only.

Nozzle which is visibly damaged should not be installed.

Use Teflon tape or soft thread sealant on male thread of the nozzle. The nozzles must be tightened in to the fitting. Excessive tightening torque may result into serious damage to nozzle arms and the deflector which may affect spray pattern of the nozzle and its performance.

It is recommended that water spray system be inspected regularly by authorised technical personnel. The nozzle must be checked for atmospheric effects, external and internal obstruction, blockage if any. The nozzles should be cleaned or replaced if required. The system must be operated with optimum water flow at least twice in a year or as per the provisions of NFPA/TAC or local authority having jurisdiction.

The owner is solely responsible for maintaining the water spray system and the components therein so that it performs properly when required.
**LIMITED WARRANTY**

HD FIRE PROTECT PVT. LTD. hereby referred to as HD FIRE warrants to the original purchaser of the fire protection products manufactured by HD FIRE and to any other person to whom such equipment is transferred, that such products will be free from defect in material and workmanship under normal use and care, for two (2) years from the date of shipment by HD FIRE. Products or Components supplied or used by HD FIRE, but manufactured by others, are warranted only to the extent of the manufacturer’s warranty. No warranty is given for product or components which have been subject to misuse, improper installation, corrosion, unauthorized repair, alteration or un-maintained. HD FIRE shall not be responsible for system design errors or improper installation or inaccurate or incomplete information supplied by buyer or buyer’s representatives. HD FIRE will repair or replace defective material free of charge, which is returned to our factory, transportation charge prepaid, provided after our inspection the material is found to have been defective at the time of initial shipment from our works. HD FIRE shall not be liable for any incidental or consequential loss, damage or expense arising directly or indirectly from the use of the product including damages for injury to person, damages to property and penalties resulting from any products and components manufactured by HD FIRE. HD FIRE shall not be liable for any damages or labour charges or expense in making repair or adjustment to the product. HD FIRE shall not be liable for any damages or charges sustained in the adaptation or use of its engineering data & services. In no event shall HD Fire’s product liability exceed an amount equal to the sale price. The foregoing warranty is exclusive and in lieu of all other warranties and representations whether expressed, implied, oral or written, including but not limited to, any implied warranties of merchantability or fitness for a particular purpose. All such other warranties and representations are hereby cancelled.

**NOTICE :**

The equipment presented in this bulletin is to be installed in accordance with the latest publication standards of NFPA or other similar organisations and also with the provision of government codes or ordinances wherever applicable. The distance between two nozzles should be 2.5 meters (maximum) for better performance. The distribution profile indicates approximate (maximum) trajectory and no specific density is implied through above patterns. Note: The spray data is obtained from the tests carried out in still air.

**SPRAY PATTERN**

**DIMENSION in millimetre (Approximate)**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>T</th>
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<tbody>
<tr>
<td>WC-15 &amp; WC-15 S</td>
<td>1/2” BSPT</td>
<td>42</td>
</tr>
<tr>
<td>WC-20 &amp; WC-20 S</td>
<td>3/4” BSPT</td>
<td>46</td>
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**DIMENSION in metres (Approximate)**

<table>
<thead>
<tr>
<th>K23 K30 K37 K45 K53 K72 K98 K120 K140</th>
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<tr>
<td>A 10.0 10.0 11.0 11.0 12.2 13.8 14.0 14.4 14.6</td>
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<tr>
<td>B 11.0 11.0 12.0 12.0 13.3 14.2 14.4 15.0 15.1</td>
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<tr>
<td>C 01.8 01.8 02.2 02.2 03.0 04.4 04.2 04.4 04.5</td>
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<tr>
<td>D 02.2 02.2 02.4 02.4 03.6 04.8 05.2 05.4 05.5</td>
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<tr>
<td>E 5.0 5.0 5.3 5.3 5.5 5.9 6.2 6.4 6.6</td>
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