

# HYDROshield

## Water Fan Curtain

- Easily deployed
- Portable
- Corrosion resistant



The Angus Fire HYDROshield directs the flow of water into a flat fan shape. The fan, or water curtain, is used to protect fire fighters from smoke, flame, radiant heat and to stop the flow of gases at ground level.

Two sizes are available, 2" BSP (M) and 2½" BSP (M) inlet giving 1,075 l/min and 1,810 l/min flow at 8 bar respectively. NPT threads and 2½" instantaneous inlet adapters are available as options.

Material options are aluminium or gunmetal. Bodies manufactured from aluminium are easily portable. To aid deployment the units are fitted with convenient carrying handles and once placed on the ground the reaction force from the water holds the body firmly in place.

HYDROshield bodies manufactured from gunmetal are usually intended to be permanently sited and are suitable for locations subject to corrosive atmospheres.



### General fire fighting

The Angus Fire HYDROshield forms an essential part of the fire-fighters equipment. By deploying the water fan, or curtain, fire fighters can protect themselves or their equipment from radiant heat, flame, smoke or gases. As the fire moves, the light weight HYDROshield can be relocated to maintain optimum protection.

### Liquid Natural Gas

The fire risk presented by the storage or handling of LNG represents special challenges to fire fighters. Angus Fire has invested in research and testing to develop techniques for handling LNG fires.

The Angus Fire HYDROshield forms a critical component in any LNG protection system. HYDROshield units placed at set intervals around the LNG risk can be used to form a continuous heat and gas shield leaving fire fighters free to operate foam generators and other equipment from behind the wall of water.

LNG produces almost six times the heat of a petrol fire and unless a water curtain is used it rapidly becomes both difficult and dangerous to approach the fire.

All HYDROshield models are specifically designed to produce a full arc of water ensuring that there are no gaps in the water fan, especially at ground level.

Vaporising LNG gas will normally flow at ground level and unless the water curtain is continuous gas can escape from the control area and start a second fire.

### Technical specification:

Material options:

Aluminium

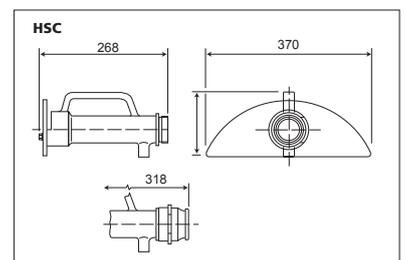
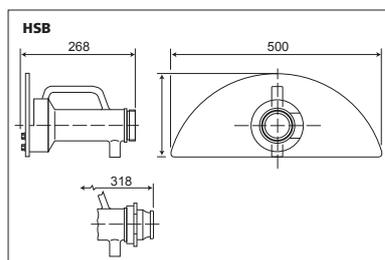
Gunmetal to CC491K (previously LG2) - equivalent to ASTM B30 C83 600

### Options:

NPT (M) threaded inlet

2½" British instantaneous male couplings to BS336 in aluminium or gunmetal

A wide range of other international hose coupling fittings is available on request

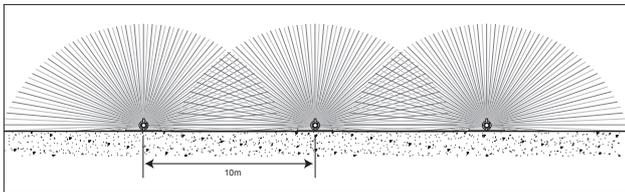


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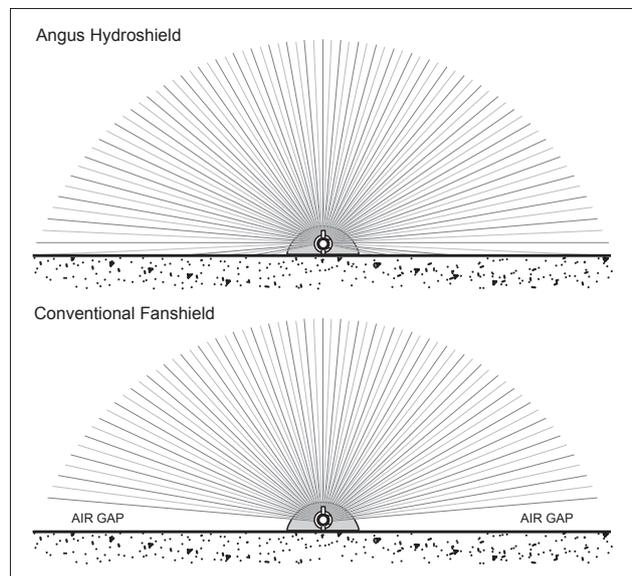
| Model                      | HSC         | HSB          |
|----------------------------|-------------|--------------|
| Inlet                      | 2" BSP male | 2½" BSP male |
| Weight aluminium           | 2.5 kg      | 4.5 kg       |
| Weight gunmetal            | 7.0 kg      | 12.6 kg      |
| "K" factor                 | 380         | 640          |
| Performance at 4 bar inlet |             |              |
| Flow                       | 760 l/min   | 1,280 l/min  |
| Curtain width              | 16m         | 18m          |
| Curtain height             | 6m          | 7m           |
| Performance at 8 bar inlet |             |              |
| Flow                       | 1,075 l/min | 1,810 l/min  |
| Curtain width              | 21m         | 22m          |
| Curtain height             | 7m          | 9m           |

**Note:** all fan curtain widths and heights are approximate and can vary widely under operational conditions. Wind can have a significant effect on the width and height of the water fan.



### Spacing:

It is recommended that where a continuous water wall is required the units should be spaced no further than 10m apart.



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Angus Fire operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and Angus Fire should be contacted to ensure that the current issues of all technical data sheets are used.