

The UBC rotating spray head projects sheets of water in a variety of spray patterns, using low volumes of water with considerably higher fluid impact values when compared to conventional static spray balls.

**In Application**

The Type UBC device can be used in hygienic and non-hygienic applications. The device is 100% self-rinsing and is typically used in tanks ranging from 20-5,000 gallons (0.08 - 19 m<sup>3</sup>). A variety of connection types are available and typically are installed permanently in a given tank or vessel. The UBC device can also be used on a portable basis when desired.

Typical Applications Include but not limited to...

- Soup cookers
- Yeast brinks
- Batch processing vessels
- Fluid bed dryers
- Ink and paint mixing vats
- Brew kettles (small)
- Storage tanks
- Spray dryers
- Commercial ovens

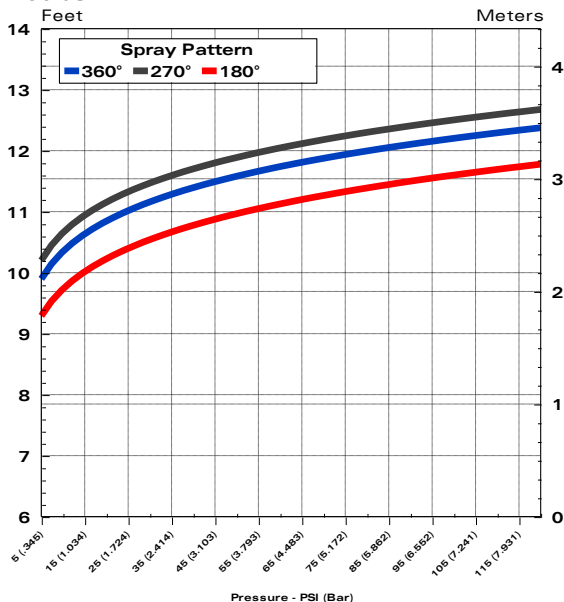
**Operation**

The flow of fluid through the UBC device will cause the projection of fluid through the fluid slots on the unit. This flow of fluid is at a slight angle to the radius of the ball and causes a transitional reaction. This reaction sets the ball in rotation. Rotation speed of the ball is relative to the fluid pressure exerted at the inlet of the device.

**Spray Patterns**



**Spray Radius**



**Specifications**

**Materials**

|                  |   |  |
|------------------|---|--|
| Race housing     | : | <b>SAF2205 - Standard</b><br>Hastelloy - Optional<br>AISI 303 - Optional                                   |
| Bearings         | : | <b>AISI 316 - Standard</b><br>PTFE (Alternating) - Optional<br>Hastelloy - Optional<br>AISI 303 - Optional |
| Other Components | : | <b>AISI 316 - Standard</b><br>Hastelloy - Optional<br>AISI 303 - Optional                                  |

See model number table (request from ScanJet representative) for additional information on materials, or you may request an AutoCAD specification drawing from your ScanJet Sales Engineer for the selected model.

**Weight (Net) - 2629, 2630, 2899, 2900, 3120, & 3135**

|          |   |                     |
|----------|---|---------------------|
| Clip-on  | : | 0.70 lbs (0.320 kg) |
| Threaded | : | 1.10 lbs (0.500 kg) |
| Weld     | : | 0.65 lbs (0.290 kg) |

**Weight (Net) - 3300**

|          |   |                     |
|----------|---|---------------------|
| Clip-on  | : | 1.25 lbs (0.570 kg) |
| Threaded | : | 1.50 lbs (0.680 kg) |
| Weld     | : | 1.25 lbs (0.570 kg) |

**Lubrication**

Lubricated by fluid flowing through the device

**Pressure**

|                 |   |                           |
|-----------------|---|---------------------------|
| Range (Nominal) | : | 15-60 PSI (1.03-3.44 bar) |
| Optimal         | : | 30 PSI (2.06 bar)         |

**Temperature**

|                 |   |                 |
|-----------------|---|-----------------|
| Maximum working | : | 205° F (96° C)  |
| Maximum static  | : | 300° F (149° C) |

**Spray Radius (See curve for details)**

|               |   |                       |
|---------------|---|-----------------------|
| Maximum       | : | 11 feet (3.35 meters) |
| Higher Impact | : | 7 feet (2.13 meters)  |

**Connection Types (As Standard)**

0.500", 0.750", 1.00" & 1.250" threaded, clip-on, & weld  
Others as non-standard and with installation assemblies on request.

**Surface Finish**

|          |   |                 |
|----------|---|-----------------|
| Standard | : | ≤25-35 Ra $\mu$ |
|----------|---|-----------------|

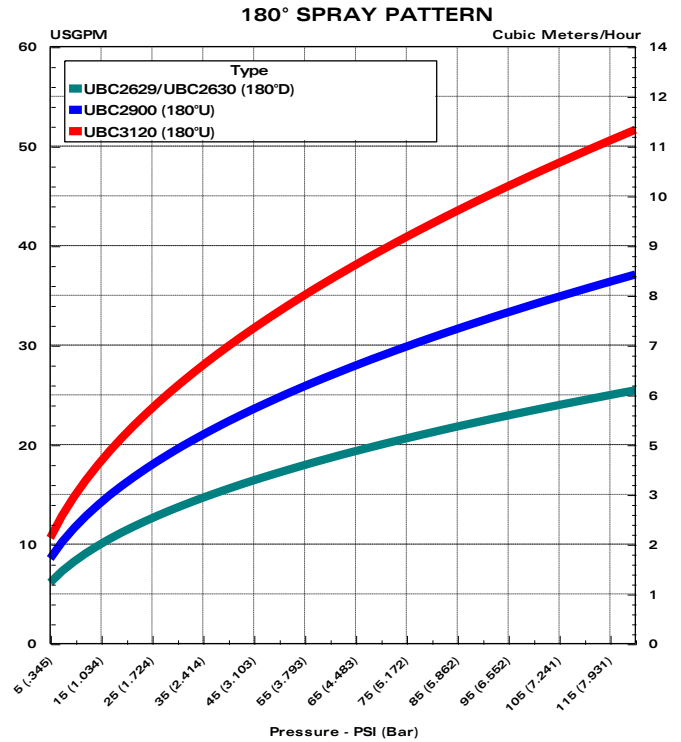
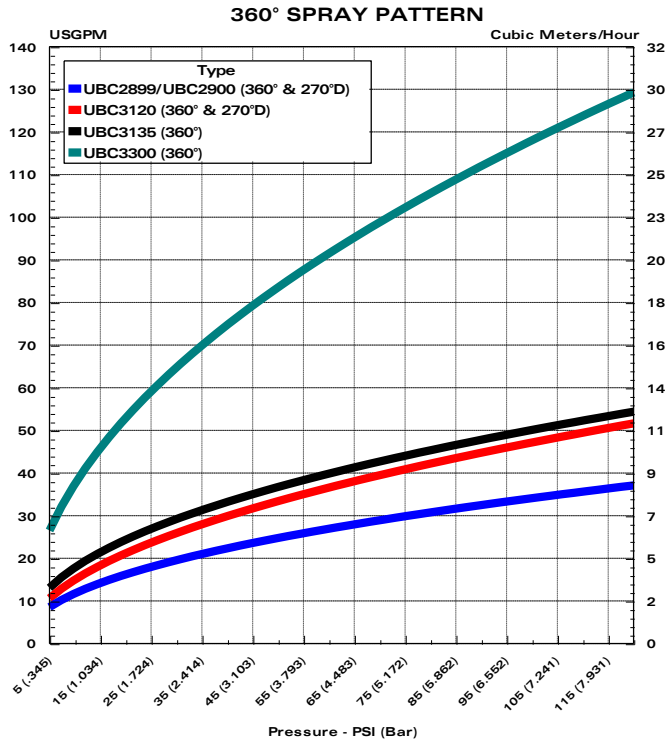
**Materials Conformity**

Traceability certificates are available on this product on request; along with 3B.1 certificates in conformity with the FDA and cGMP requirements.

**Quality Control/Assurance**

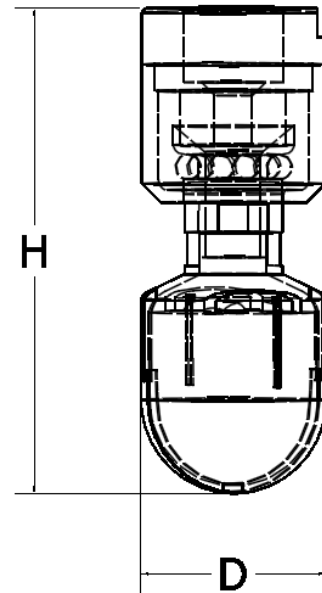
- ISO9001 Certified Production
- EHEDG Conformity

Performance Curves - Pressure/Flow



General Dimensions - Type 2629, 2630, 2899, 2900, 3120, 3135 and 3300

| Model   | Dimensions          |                    |
|---------|---------------------|--------------------|
|         | H                   | D                  |
| UBC2629 | 115mm (4.52 inches) | 45mm (1.77 inches) |
| UBC2630 |                     |                    |
| UBC2899 |                     |                    |
| UBC2900 |                     |                    |
| UBC3120 |                     |                    |
| UBC3135 | 130mm (5.12 inches) | 65mm (2.56 inches) |
| UBC3300 |                     |                    |



Specification and product offerings are subject to change without notice

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