

### Overview

The OrbiJet S-15 & X-15 is a rotating Jet-Head and provides 360° coverage. The unit is powered by flow through the inlet of the machine and via an integrated turbine design. The turbine is housed within the device itself. The flow of the cleaning media through the machine causes the machine base and nozzles to begin a geared rotation around the vertical and horizontal axis of the device. After 43.5 rotations, a complete pattern is accomplished and the device will begin the same pattern development as before, for a given X, Y, and Z-axis location.

### Market Applications

- Breweries
- Wineries
- Transportation
- Paper & Pulp
- Chemical Processing
- Power Plants
- Food
- Pharmaceutical
- Refineries

### Cleaning Pattern Development

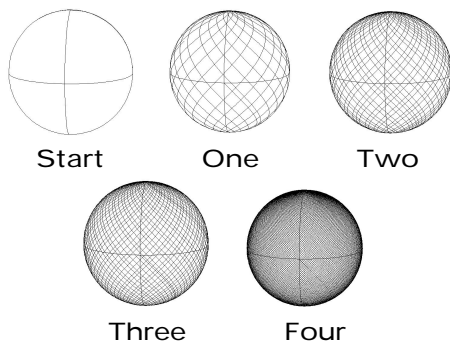
On each revolution of the machine body, the pattern will shift in accordance to the fixed and moving gear ratio. The density of the pattern is determined by a combination of this ratio and the number/location of the nozzles and nozzle hub. Upon completion of 43.5 axial revolutions, one complete pattern is accomplished.

### Pattern Density Table:

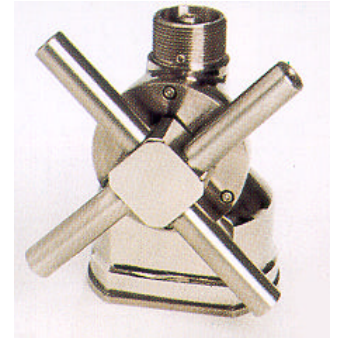
# of Nozzles	Density in Degrees
2	4.13
4	2.06
8	1.03

The lower the degrees the more dense the pattern.

### Cleaning Pattern Build-Out - 2 Nozzle Unit



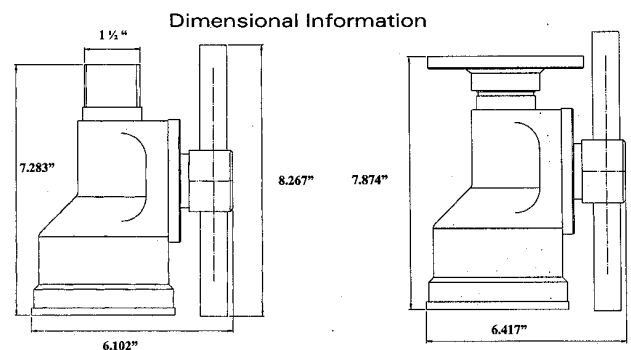
S-15

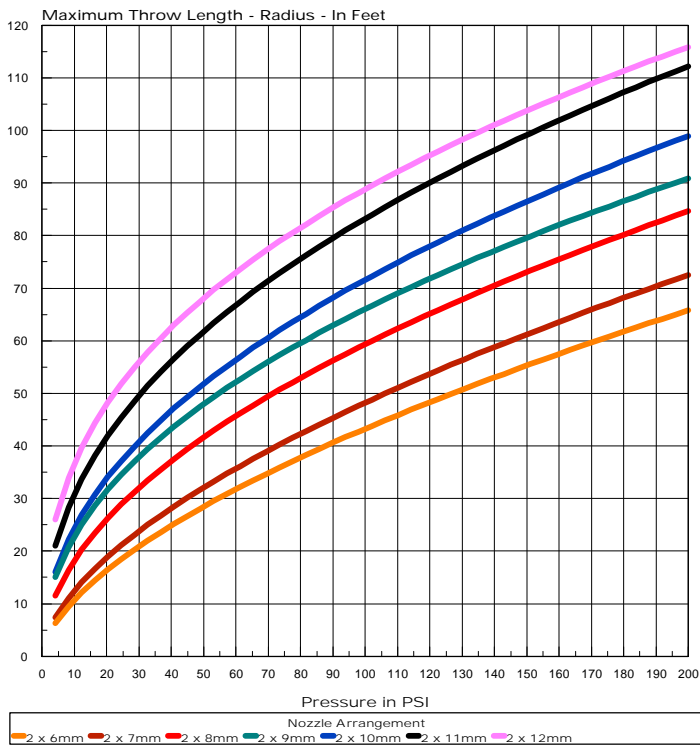
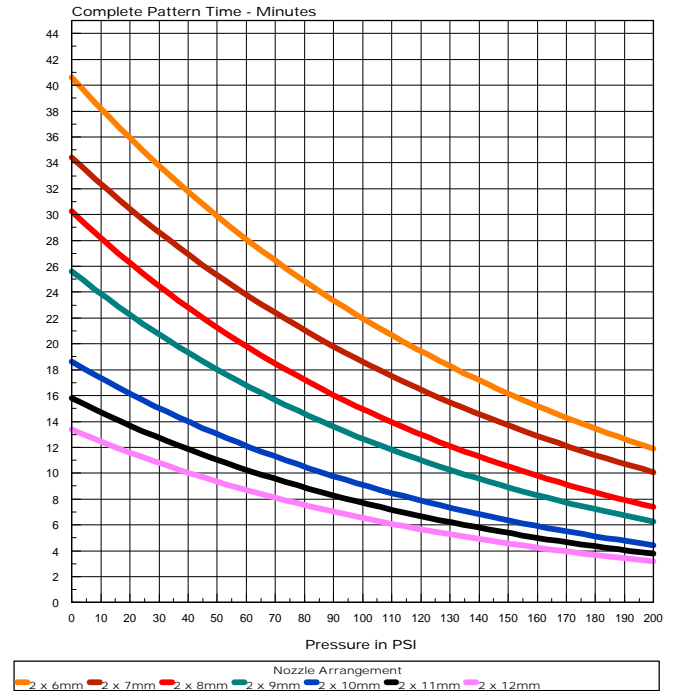
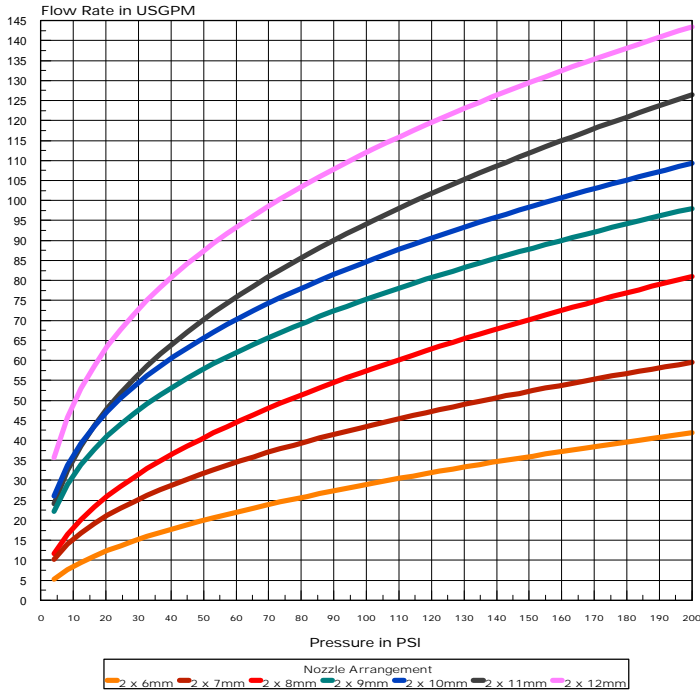


X-15

### General Specifications

Materials Of Construction	AISI 316L S/S; PEEK, PTFE, Tefzel
Weight	2 Nozzles: 15 lbs. 4 Nozzles: 16 lbs. 8 Nozzles: 17 lbs.
Lubrication	Media; flow-through gearbox.
Minimum Required Opening For Tank Entry	6.10"
Standard Connection Types	Threaded: 1.50" NPS(M) 1.50" BSP(M) Flanged: 1.50" ANSI 150# Flat Faced Others On Request
Installation Type	Portable or Fixed
Spray Pattern	360°
Frictional Pressure Loss	< 1%
Start-Up Rotation	2-4 PSI
Flow Throughput To Nozzle Efficiency	100%





4 and 8 Nozzle performance curves are available for the S & X 15 on request.

### Ordering/Quotation Information:

When ordering this product or requesting a quotation, please provide as much of the following information as possible:

- A) Inlet connection requirements.
- B) Number of nozzles required.
- C) Orifice of nozzles.
- D) Pressure and flow requirement.
- E) Jet-length requirements.
- F) Liquid that will be transferred through machine.

If this information is not known, please supply whatever information you can about your cleaning application and an OrbiJet Cleaning Engineer will review the application and tender a recommendation.



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