

HydroWhirl® Orbitor 100

High Impact Rotary Tank Cleaning Machine

DESIGN FEATURES

- Easily field-serviced to reduce maintenance costs
- Minimum moving parts to extend operating life
- Self-cleaning; self-lubricating
- High-impact jets; orbital wash pattern = high efficiency cleaning process
- Ideal for small to medium tanks, easily fits through Ø100 mm (4") openings or Ø85 mm (3.35") when nozzle head is vertically aligned
- 4 nozzle configurations
- Female connections

SPRAY CHARACTERISTICS

- 360° wash pattern
 - Variable cycle times
 - High impact cleaning
- Flow rates:** 44.8 - 198 L/min
Working Pressure: 3 - 10 bar

Materials:

Housing and Nozzle Head: 316L
 Gears: PEEK + 316 SS
 Bushings/Seals: Carbon Filled PTFE

Max. Working Temp.: 95 °C (200 °F)

Max. Ambient Temp.: 140 °C (285 °F)

Weight: 2.5 kg



All HydroWhirl Orbitor 100 tank cleaning machines are available with ATEX approval

Performance may vary with ATEX models.

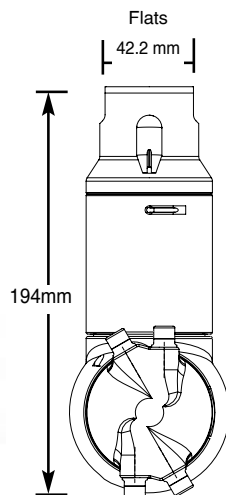


4 nozzle spray pattern

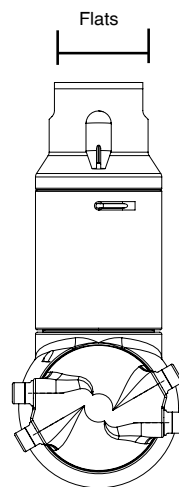


Orbitor 100

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Vertical Nozzle Head Alignment
Clearance Diameter: 85 mm



Horizontal Nozzle Head Alignment
Clearance Diameter: 100 mm

Jet lengths are effective cleaning lengths

| # Nozzles X Orifice Size | 4 x 3 mm | | | 4 x 4 mm | | | 4 x 5 mm | | | 4 x 6 mm | | |
|--------------------------|--------------|----------------|------------------|--------------|----------------|------------------|--------------|----------------|------------------|--------------|----------------|------------------|
| Connection Size | 3/4" and 1" | | | 3/4" and 1" | | | 3/4" and 1" | | | 3/4" and 1" | | |
| Pressure (BAR) | Flow (L/min) | Jet Length (m) | Cycle Time (min) | Flow (L/min) | Jet Length (m) | Cycle Time (min) | Flow (L/min) | Jet Length (m) | Cycle Time (min) | Flow (L/min) | Jet Length (m) | Cycle Time (min) |
| 3 | 45.0 | 1.0 | 6.0 | 66.7 | 2.0 | 5.5 | 88.3 | 2.5 | 4.5 | 115 | 3.0 | 4.0 |
| 4 | 51.7 | 1.5 | 5.5 | 75.0 | 2.5 | 4.8 | 100 | 3.0 | 4.0 | 127 | 3.5 | 3.5 |
| 5 | 58.3 | 2.0 | 5.0 | 85.0 | 3.0 | 4.3 | 110 | 3.5 | 3.5 | 138 | 4.0 | 3.0 |
| 6 | 65.0 | 2.0 | 4.4 | 93.3 | 3.0 | 3.8 | 120 | 3.5 | 3.0 | 152 | 4.0 | 2.7 |
| 7 | 71.7 | 2.5 | 4.0 | 102 | 3.5 | 3.3 | 130 | 4.0 | 2.8 | 163 | 4.5 | 2.4 |
| 8 | 78.3 | 2.5 | 3.5 | 110 | 3.5 | 2.9 | 140 | 4.0 | 2.5 | 175 | 4.5 | 2.1 |
| 9 | 85.0 | 3.0 | 3.1 | 118 | 4.0 | 2.6 | 148 | 4.5 | 2.1 | 187 | 5.0 | 1.8 |
| 10 | 90.0 | 3.5 | 3.0 | 127 | 4.0 | 2.5 | 157 | 4.5 | 2.0 | 198 | 5.0 | 1.8 |

TANK WASHING

TO ORDER: specify pipe size, connection type, nozzle number, spray angle, and material.

