

# 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 Ø4" (100 mm) openings or Ø3.35" (85 mm) when nozzle head vertically aligned
- 4 nozzle configurations
- Female connections

### SPRAY CHARACTERISTICS

- 360° wash pattern
  - Variable cycle times
  - High impact cleaning
- Flow rates:** 12 - 52.4 gpm  
**Working Pressure:** 45 - 145 psi

### Materials:

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

**Max. Working Temp.:** 200 °F (95 °C)  
**Max. Ambient Temp.:** 285 °F (140 °C)  
**Weight:** 5.5 Lbs

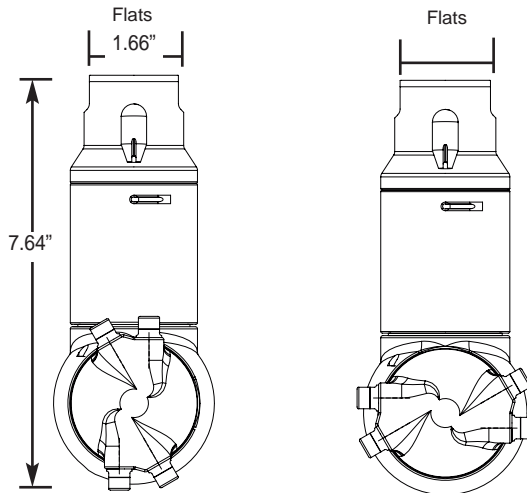


TANK WASHING



Orbitor 100

HydroWhirl Orbitor



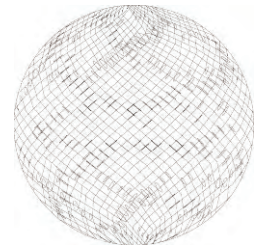
Vertical Nozzle Head Alignment  
 Clearance Diameter: 3.35"

Horizontal Nozzle Head Alignment  
 Clearance Diameter: 3.94"



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

*Performance may vary with ATEX models.*



4 nozzle spray pattern

Jet lengths are effective cleaning lengths

# Nozzles X Orifice Size	4 x 3mm			4 x 4mm			4 x 5mm			4 x 6mm		
	Flow (gpm)	Jet Length (ft)	Cycle Time (min)	Flow (gpm)	Jet Length (ft)	Cycle Time (min)	Flow (gpm)	Jet Length (ft)	Cycle Time (min)	Flow (gpm)	Jet Length (ft)	Cycle Time (min)
45	12.0	12.5	6.0	17.8	14.4	5.4	23.7	16.4	4.4	30.6	18.0	3.9
60	13.9	14.9	5.4	20.3	17.1	4.7	26.7	19.1	3.9	34.0	20.6	3.4
75	15.8	17.0	4.8	22.7	19.4	4.1	29.6	21.4	3.4	37.3	22.9	3.0
90	17.6	18.8	4.3	25.1	21.3	3.6	32.3	23.2	3.0	40.6	24.7	2.6
100	18.8	19.8	4.0	26.6	22.3	3.3	34.1	24.3	2.8	42.8	25.7	2.4
115	20.5	21.0	3.6	28.9	23.6	2.9	36.7	25.4	2.4	46.0	26.9	2.1
130	22.2	22.0	3.2	31.2	24.5	2.7	39.1	26.2	2.2	49.2	27.8	1.9
145	23.9	22.6	2.9	33.4	25.0	2.5	41.4	26.6	2.0	52.4	28.2	1.7

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