

# HydroWhirl® Orbitor 100



(HWO100) 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

## SPRAY CHARACTERISTICS

- Variable cycle times
  - High impact cleaning
- Spray Angles:** Complete 360° spray  
**Flow Rates:** 12 to 52.4 GPM  
 Working Pressure: 45 to 145 psi  
**Max Temperature:** 200°F/93°C  
**Filtration:** Line strainer with a mesh size of 0.003 in/200 mesh



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

Vertical Nozzle Head Alignment  
Clearance Diameter: 3.35"

Horizontal Nozzle Head Alignment  
Clearance Diameter: 3.94"

Orbitor 4 nozzle spray pattern

**Max. Working Temp.:** 200 °F (95 °C)  
**Max. Ambient Temp.:** 285 °F (140 °C)  
**Weight:** 5.5 lbs  
**Materials:**  
 Housing and Nozzle Head: 316L  
 Gears: PEEK + 316 SS  
 Bushings/Seals: Carbon Filled PTFE

*Performance may vary with ATEX models.*

TANK CLEANING

## HYDROWHIRL® ORBITOR 100 - 4 NOZZLE FLOW RATES

Nozzle Number	4 X 3 mm			4 X 4 mm			4 X 5 mm			4 X 6 mm		
	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)
Female Connection Size	3/4" and 1" FNPT, BSP			3/4" and 1" FNPT, BSP			3/4" and 1" FNPT, BSP			3/4" and 1" FNPT, BSP		
Maximum Free Passage (in)	0.03			0.04			0.04			0.04		
Pressure (psi)	12.0	3.30	6.00	17.8	6.60	5.40	23.7	8.20	4.40	30.6	9.80	3.90
45	13.9	4.90	5.40	20.3	8.20	4.70	26.7	9.80	3.90	34.0	11.5	3.40
60	15.8	6.60	4.80	22.7	9.80	4.10	29.6	11.5	3.40	37.3	13.1	3.00
75	17.6	6.60	4.30	25.1	9.80	3.60	32.3	11.5	3.00	40.6	13.1	2.60
90	18.8	8.20	4.00	26.6	11.5	3.30	34.1	13.1	2.80	42.8	14.8	2.40
100	20.5	8.20	3.60	28.9	11.5	2.90	36.7	13.1	2.40	46.0	14.8	2.10
115	22.2	9.80	3.20	31.2	13.1	2.70	39.1	14.8	2.20	49.2	16.4	1.90
130	23.9	11.5	2.90	33.4	13.1	2.50	41.4	14.8	2.00	52.4	16.4	1.70
145												

Performance may vary with ATEX models.