

## HydroWhirl Orbitor 100 tank cleaning machine is ideal for high impact cleaning

The HydroWhirl® Orbitor 100 is a versatile tank cleaning machine designed to meet the high standards required in the food, brewing, beverage, dairy, and chemical industries combining high performance cleaning efficiency with extended operating life and reduced life cycle costs.

### Advantages of the HydroWhirl Orbitor 100 tank cleaning machine.

- The HydroWhirl Orbitor 100 can be stripped, maintained, and rebuilt in less than 15 minutes.
- The HydroWhirl Orbitor 100 is self cleaning and self lubricating.
- Enhanced external cleaning with dedicated nozzles that clean the external surfaces of the machine and its mounting pipe.
- The HydroWhirl Orbitor 100 is ideal for use in small to medium tanks where the product is difficult to clean and where high impact cleaning is required.
- Designed with minimum moving parts to ensure extended operating life and reduced down time.
- Easily fits through Ø4" (100 mm) openings; or Ø3.35" (85 mm) when nozzle head vertically aligned

### Available Versions:

- 4 nozzle machines
- Variable cycle times
- Female connections

### HydroWhirl Orbitor 100 Applications:

Typically used where high impingement cleaning is required and where the most efficient use of utilities is necessary.

#### BREWING & WINERIES

Bright beer tanks, coppers, maltings, brew kettles, fermenters, storage tanks

#### COATINGS AND PAINTS

Storage silos, process vessels, mixers

#### FOOD AND DAIRY

Raw milk storage, spray driers, process vessels, storage silos

#### CHEMICAL

Process vessels, mixers, storage silos

#### BEVERAGE

Process vessels, storage silos



### Key Features and Benefits:

- Designed to meet hygienic standards; external surface finish: 0.5 microns Ra or better
- Self cleaning; self lubricating = no process contamination
- Optimum consumption of water, chemicals, and time = reduced operating costs
- Minimum moving parts = reduced lifecycle costs
- High impact jets; orbital wash pattern = high efficiency cleaning process
- Compact design = will fit through small access flanges and vessel openings
- 4 nozzle configurations



Orbitor 100

HydroWhirl Orbitor

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# 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
- 4 nozzle configurations
- Female connections

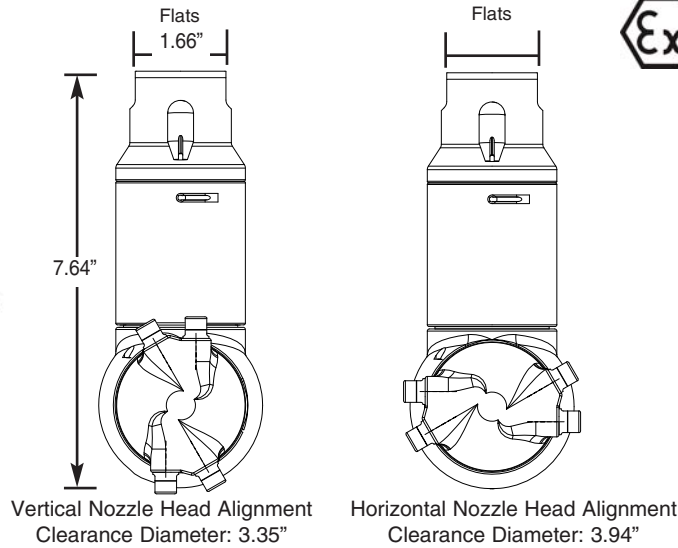
### SPRAY CHARACTERISTICS

- 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



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

*Performance may vary with ATEX and HR models.*



4 nozzle spray pattern

Listed jet lengths are maximum throw length; cleaning efficiency will depend on your application.

# Nozzles X Orifice Size	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)
Connection Size	3/4" and 1"			3/4" and 1"			3/4" and 1"			3/4" and 1"		
Pressure (PSI)	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