

# HydroWhirl® Orbitor

## 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
- Compact design
- 2 or 4 nozzle configurations = wash pattern variable up to super intense
- Male or female connections

### SPRAY CHARACTERISTICS

- 360° wash pattern.  
180° patterns available on request
- Variable cycle times
- High impact cleaning

**Flow rates:** 80 - 600 l/min

**Working Pressure:** 3 - 10 bar

### Materials:

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

**Max. Working Temp.:** 95°C

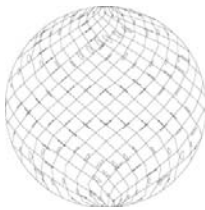
**Max. Ambient Temp.:** 140°C

**Weight:** 6 kg

Minimum opening size is 5" for either 2-nozzle or 4-nozzle standard-capacity model.



All HydroWhirl Orbitor tank cleaning machines are available with ATEX approval for Zone 0.



Orbitor 2 nozzle spray pattern



Orbitor 4 nozzle spray pattern

### Jet lengths are effective cleaning lengths

# Nozzles X Orifice Size	4 X 4.2mm			4 x 5mm			4 x 6mm			4 x 7mm			4 x 8mm		
Connection Size	1" and 1-1/2"			1" and 1-1/2"			1-1/2"			1-1/2"			1-1/2"		
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)	Flow (L/min)	Jet Length (m)	Cycle Time (min)
3	80.0	2.9	11	112	4	13	138	5.3	15.5	217	6.5	11.4	250	7.2	15.5
4	100	3	9.3	137	4.2	10.8	170	5.7	12.9	252	7.1	9.8	293	8	12.9
5	115	3.5	7.9	155	4.7	9.4	200	6.2	11	283	7.7	8.7	333	9	11
6	127	4	6.9	173	5.2	8	220	7	9.5	310	8.5	8.1	367	9.9	9.5
7	138	5	6.3	185	6.3	7.3	240	8	8.4	333	9.4	7.5	395	10.6	8.5
8	147	6.2	5.8	195	7.5	6.8	257	9.4	7.6	350	10.3	7.1	418	11.2	7.8
9	153	7.1	5.6	202	8.5	6.5	270	10.3	7	367	11.2	6.9	438	12.2	7
10	157	7.8	5.5	207	9	6.4	282	11.2	6.9	380	12	6.6	458	13	6.9
# Nozzles X Orifice Size	2 x 6mm			2 x 7mm			2 x 8mm			*2 x 10mm			*2 x 12.5mm		
Connection Size	1-1/2"			1-1/2"			1-1/2"			1-1/2"			1-1/2"		
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)	Flow (L/min)	Jet Length (m)	Cycle Time (min)
3	80.0	5.5	33	93.3	6.5	37.5	117	7.2	25.7	217	9.8	41	330	10.1	26.8
4	91.7	6	27.2	117	7.2	31.6	150	8	22.9	255	10.5	34.2	383	11.2	24
5	108	6.3	24.7	137	7.9	28.2	172	8.7	20.5	290	11.5	30.5	433	12.1	21.7
6	122	7	22.6	153	8.5	25.8	190	9.4	18.9	320	12.7	28	473	13.4	19.8
7	130	8	21	168	9.2	24	203	10.3	17.5	347	13.9	26	512	14.8	18.4
8	140	9	19.5	182	10.4	22.3	213	11.3	16.4	368	15.2	24.5	547	16.4	17.2
9	148	10.2	18.4	192	11.3	21	223	12.4	15.6	390	17	23.2	572	18.3	16.3
10	157	11.5	17.4	200	12.3	20	232	13.5	14.9	405	18.8	22	600	20.1	15.5

TANK WASHING

CALL 413-772-0846  
Call for the name of your nearest BETE representative.