

HydroWhirl® Orbitor



(HWO) 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
- Male or female connections



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

SPRAY CHARACTERISTICS

- Variable cycle times
- High impact cleaning

Spray Angles: Complete 360° spray, 180° spray angle pattern available upon request.

Flow Rates: 80 to 600 l/min

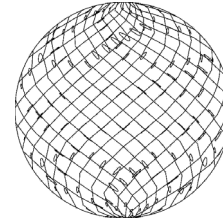
Working Pressure: 3 to 10 bar

Max Temperature: 200°F/93°C

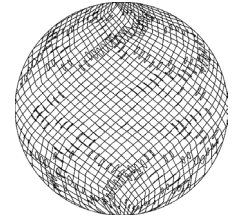
Filtration: Line strainer with a mesh size of 0.075 mm/ 200 mesh

Max. Working Temp.: 200 °F (95 °C)
Max. Ambient Temp.: 285 °F (140 °C)
Weight: 7.5 kg
Materials:
 Housing and Nozzle Head: 316L
 Gears: PEEK + 316 SS
 Bushings/Seals: Carbon Filled PTFE

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



Orbitor 2 nozzle spray pattern



Orbitor 4 nozzle spray pattern

HYDROWHIRL® ORBITOR - 4 NOZZLE FLOW RATES

Nozzle Number	4 X 4.2 mm			4 X 5 mm			4 X 6 mm			4 X 7 mm			4 X 8 mm		
	1" and 1 - 1/2"			1" and 1 - 1/2"			1 - 1/2" FNPT, BSP			1 - 1/2" FNPT, BSP			1 - 1/2" FNPT, BSP		
Female Connection Size	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	2.90	11.0	112	4.00	13.0	138	5.30	15.5	217	6.50	11.4	250	7.20	15.5
4	100	3.00	9.30	137	4.20	10.8	170	5.70	12.9	252	7.10	9.80	293	8.00	12.9
5	115	3.50	7.90	155	4.70	9.40	200	6.20	11.0	283	7.70	8.70	333	9.00	11.0
6	127	4.00	6.90	173	5.20	8.00	220	7.00	9.50	310	8.50	8.10	367	9.90	9.50
7	138	5.00	6.30	185	6.30	7.30	240	8.00	8.40	333	9.40	7.50	395	10.6	8.50
8	147	6.20	5.80	195	7.50	6.80	257	9.40	7.60	350	10.3	7.10	418	11.2	7.80
9	153	7.10	5.60	202	8.50	6.50	270	10.3	7.00	367	11.2	6.90	438	12.2	7.00
10	157	7.80	5.50	207	9.00	6.40	282	11.2	6.90	380	12.0	6.60	458	13.0	6.90

HYDROWHIRL® ORBITOR - 2 NOZZLE FLOW RATES

Nozzle Number	2 x 6 mm			2 X 7 mm			2 X 8 mm			*2 X 10 mm			*2 X 12.5 mm		
	1 - 1/2" FNPT, BSP			1 - 1/2" FNPT, BSP			1 - 1/2" FNPT, BSP			1 - 1/2" FNPT, BSP			1 - 1/2" FNPT, BSP		
Female Connection Size	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	5.50	33.0	93.3	6.50	37.5	117	7.20	25.7	217	9.80	41.0	330	10.1	26.8
4	91.7	6.00	27.2	117	7.20	31.6	150	8.00	22.9	255	10.5	34.2	383	11.2	24.0
5	108	6.30	24.7	137	7.90	28.2	172	8.70	20.5	290	11.5	30.5	433	12.1	21.7
6	122	7.00	22.6	153	8.50	25.8	190	9.40	18.9	320	12.7	28.0	473	13.4	19.8
7	130	8.00	21.0	168	9.20	24.0	203	10.3	17.5	347	13.9	26.0	512	14.8	18.4
8	140	9.00	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	21.0	223	12.4	15.6	390	17.0	23.2	572	18.3	16.3
10	157	11.5	17.4	200	12.3	20.0	232	13.5	14.9	405	18.8	22.0	600	20.1	15.5

Performance may vary with ATEX models