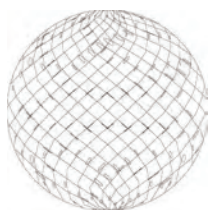


HydroWhirl® Orbitor

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



Orbitor 2 nozzle spray pattern



Orbitor 4 nozzle spray pattern

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 and Nozzle Head: 316L

Gears: PEEK + 316 SS

Bushings/Seals: Carbon Filled PTFE

Max. Working Temp.: 95 °C

Max. Ambient Temp.: 140 °C

Weight: 7.5 kg

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



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

Jet lengths are effective cleaning lengths

| # Nozzles X Orifice Size | 4 x 4.2 mm | | | 4 x 5 mm | | | 4 x 6 mm | | | 4 x 7 mm | | | 4 x 8 mm | | |
|--------------------------|--------------|----------------|------------------|--------------|----------------|------------------|--------------|----------------|------------------|--------------|----------------|------------------|--------------|----------------|------------------|
| | 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) |
| Pressure (BAR) | 80.0 | 2.9 | 11 | 112 | 4 | 13 | 138 | 5.3 | 15.5 | 217 | 6.5 | 11.4 | 250 | 7.2 | 15.5 |
| 3 | 100 | 3 | 9.3 | 137 | 4.2 | 10.8 | 170 | 5.7 | 12.9 | 252 | 7.1 | 9.8 | 293 | 8 | 12.9 |
| 4 | 115 | 3.5 | 7.9 | 155 | 4.7 | 9.4 | 200 | 6.2 | 11 | 283 | 7.7 | 8.7 | 333 | 9 | 11 |
| 5 | 127 | 4 | 6.9 | 173 | 5.2 | 8 | 220 | 7 | 9.5 | 310 | 8.5 | 8.1 | 367 | 9.9 | 9.5 |
| 6 | 138 | 5 | 6.3 | 185 | 6.3 | 7.3 | 240 | 8 | 8.4 | 333 | 9.4 | 7.5 | 395 | 10.6 | 8.5 |
| 7 | 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 |
| 8 | 153 | 7.1 | 5.6 | 202 | 8.5 | 6.5 | 270 | 10.3 | 7 | 367 | 11.2 | 6.9 | 438 | 12.2 | 7 |
| 9 | 157 | 7.8 | 5.5 | 207 | 9 | 6.4 | 282 | 11.2 | 6.9 | 380 | 12 | 6.6 | 458 | 13 | 6.9 |
| 10 | | | | | | | | | | | | | | | |
| # Nozzles X Orifice Size | 2 x 6 mm | | | 2 x 7 mm | | | 2 x 8 mm | | | *2 x 10 mm | | | *2 x 12.5 mm | | |
| | 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) |
| Pressure (BAR) | 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 |
| 3 | 91.7 | 6 | 27.2 | 117 | 7.2 | 31.6 | 150 | 8 | 22.9 | 255 | 10.5 | 34.2 | 383 | 11.2 | 24 |
| 4 | 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 |
| 5 | 122 | 7 | 22.6 | 153 | 8.5 | 25.8 | 190 | 9.4 | 18.9 | 320 | 12.7 | 28 | 473 | 13.4 | 19.8 |
| 6 | 130 | 8 | 21 | 168 | 9.2 | 24 | 203 | 10.3 | 17.5 | 347 | 13.9 | 26 | 512 | 14.8 | 18.4 |
| 7 | 140 | 9 | 19.5 | 182 | 10.4 | 22.3 | 213 | 11.3 | 16.4 | 368 | 15.2 | 24.5 | 547 | 16.4 | 17.2 |
| 8 | 148 | 10.2 | 18.4 | 192 | 11.3 | 21 | 223 | 12.4 | 15.6 | 390 | 17 | 23.2 | 572 | 18.3 | 16.3 |
| 9 | 157 | 11.5 | 17.4 | 200 | 12.3 | 20 | 232 | 13.5 | 14.9 | 405 | 18.8 | 22 | 600 | 20.1 | 15.5 |
| 10 | | | | | | | | | | | | | | | |

TANK WASHING

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