

# Orbitor ATEX

range of tank washing machines



## Description

Any tank containing vapours, gases & dust is potentially explosive. The Orbitor range can be fully certified for use in **ATEX Zones 0/20** or the most hazardous of potentially explosive environments. This provides assurance to the end user that tanks will be cleaned effectively to the highest level of mechanical safety of any CIP device.

The ATEX certification has been awarded by a leading Certifying Body after a comprehensive assessment of the Orbitor's design, component material & operation as well as a thorough review of the manufacturing facility & method. The intrinsic safety of the machine is further supported by annual, 3rd party inspection and ATEX Audit, providing regular independent validation & verification of the Orbitor's ongoing quality of manufacture, safety & design integrity.

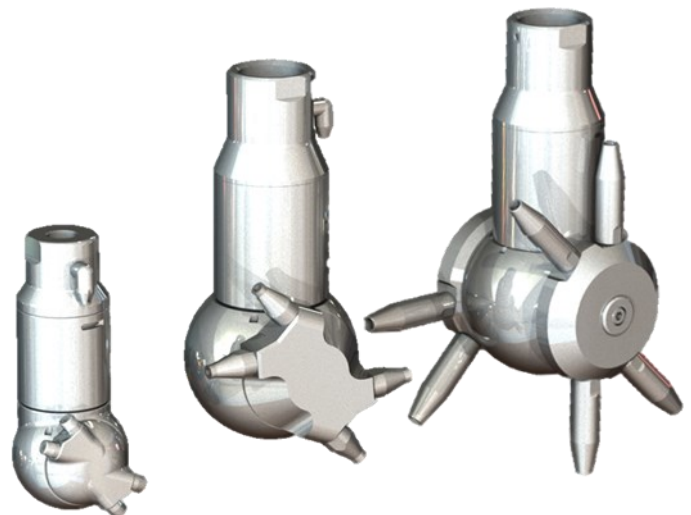
The Orbitor range's versatility also lends itself to specialised applications that may traditionally employ a 'man in tank'. By removing the need for man entry to the tank, the cleaning process is made substantially safer, as well as reducing time and cost. Each variant in the Orbitor range is configured to order to suit even the most demanding customer criteria, matching cycle times, available operating pressure and flow rate requirements to achieve a 100% clean with the minimum possible water consumption. Its deceptively simple design combines effectiveness with practicality, allowing the machine to be easily stripped for maintenance in under 5 minutes.

New in 2016, the Orbitor 100 vastly extends the scope of the range. Its compact design fits effortlessly through a 100mm opening whilst delivering high impact cleaning to tanks traditionally serviced by less effective rinsing or wetting devices.

## Range of ATEX Machines

| Machine                      | Tank diam / cleaning area * | Wash Pattern |
|------------------------------|-----------------------------|--------------|
| <b>Orbitor 100</b>           | up to Ø 12m                 | 360°         |
| <b>Orbitor 4 Nozzle</b>      | up to Ø 26m                 | 360°         |
| <b>Orbitor Double Nozzle</b> | up to Ø 29m                 | 360°         |
| <b>Orbitor Hi Cap</b>        | up to Ø 42m                 | 360°         |
| <b>Orbitor Dual Head</b>     | up to Ø 30m                 | 180° - 85°   |

\* multiple machines may be operated in one tank for greater flexibility



## Range Features

- ATEX certified on request
- Configured to order, reducing water consumption
- Self cleaning lubricating, avoid contamination
- Minimum moving parts for extended operating life, reduced down time & ease of maintenance
- Fixed or portable option
- Available in 2 finishes: standard or hygienic

## ATEX Technical Information

|                            |                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| •European directive        | 94/9/EC                                                                                                                                    |
| •ATEX marking              |  II 1GD c T85°C<br>Tambient : -40°C to +60°C          |
| •Complies to               | EN13463-1:2009 EN13463-5:2011                                                                                                              |
| •Zones                     | 0/20 - Gas/Dust                                                                                                                            |
| •Cleaning fluid            | water based cleaning fluid temp 0 to +60°C<br>diesel & light mineral oils temp -20 to +30°C<br>no volatile / flammable solvents to be used |
| •Max operating pressure    | 12 bar                                                                                                                                     |
| •Max operating temperature | 60°C                                                                                                                                       |



**Innovation  
that delivers**

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## Orbitor ATEX range

Orbitor 100



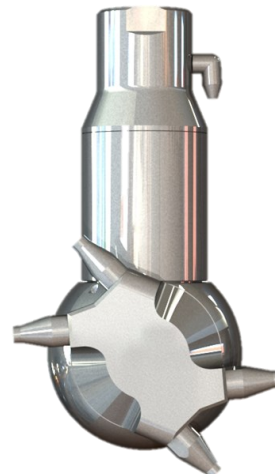
|                  |                 |
|------------------|-----------------|
| Min tank opening | 85mm*           |
| Flow             | 2.7 - 11.9 m3/h |
| Jet length       | 3.75 - 8.6m     |

Orbitor Double Nozzle



|                  |               |
|------------------|---------------|
| Min tank opening | 125mm*        |
| Flow             | 6 - 14.5 m3/h |
| Jet length       | 9.9 - 14.2m   |

Orbitor 4 Nozzle



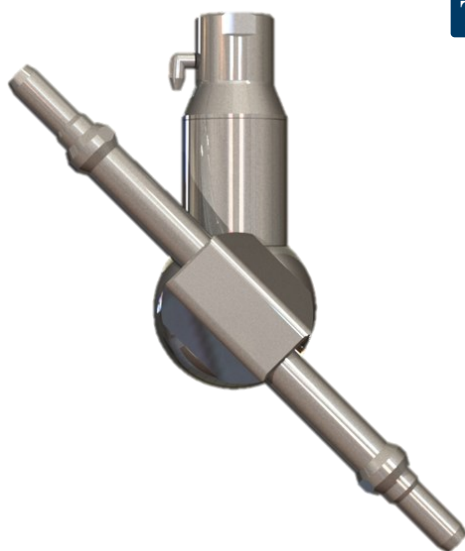
|                  |                 |
|------------------|-----------------|
| Min tank opening | 125mm*          |
| Flow             | 9.9 - 27.1 m3/h |
| Jet length       | 6.0 - 4.5m      |

Orbitor Dual Head



|                  |               |
|------------------|---------------|
| Min tank opening | 260mm         |
| Flow             | 6.5-16.5 m3/h |
| Jet length       | 5-15.5 m3/h   |

Orbitor Hi Cap



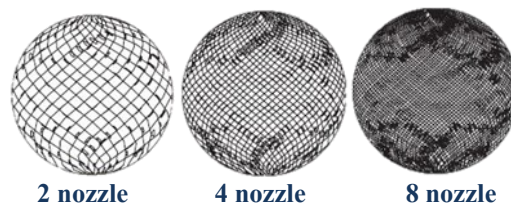
|                  |                |
|------------------|----------------|
| Min tank opening | 150mm*         |
| Flow             | 17.4-35.5 m3/h |
| Jet length       | 13-21m         |

\* when nozzles are vertically aligned

## Typical applications

- Food
- Beverage
- Chemical
- Pharmaceutical
- Petrochemical
- Utilities
- Marine
- General tank cleaning

## Wash Patterns



2 nozzle

4 nozzle

8 nozzle

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