

Halia® Venturi Aeration System



“Pure oxygen, when used for aeration in aerobic biological processes, can offer cost savings either as a simple retrofit to extend the capacity of an existing treatment plant, or as part of a new installation.”

UK & Ireland Water Systems Business
Development Manager

The key to an efficient pure oxygen system is highly effective dissolution of gaseous oxygen to the aqueous phase and the biomass.

In the Halia® Venturi Aeration System, waste water is pumped from the aeration basin through a venturi where pure oxygen gas is injected. The oxygen-rich stream is returned to the aeration basin using unique liquid-liquid ejectors. These ejectors maximise oxygen dissolution and ensure homogenous distribution of the oxygen and mixing energy throughout the basin. Halia® Venturi Aeration is designed taking the customer's process into consideration, to achieve >90% utilisation of oxygen delivered.

Air Products Halia® Venturi Aeration System

can be the most cost effective solution when used . . .

- to increase the treatment capacity of an existing plant
- where space is limited for installation of a new treatment plant
- for more efficient settling
- to reduce odours and emission of Volatile Organic Compounds (VOCs)
- to reduce foaming and aerosols
- for treatment of a seasonal or variable load
- for new biological process conditions.

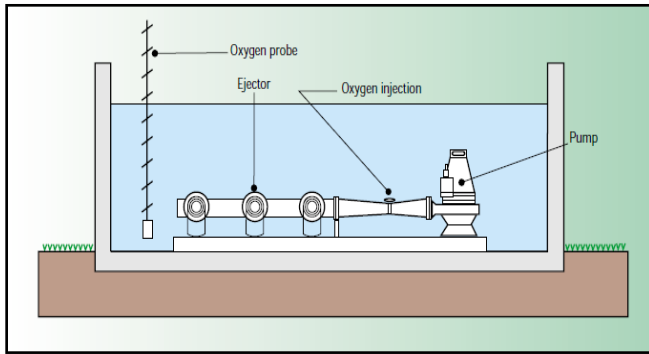
Halia® Venturi Aeration equipment offers . . .

- High oxygen transfer efficiency (>90% under suitable conditions)
- Low energy consumption (5-6 kgO₂/kWh)
- Low capital investment
- Drop In version available
- Short term and rental options
- Fast delivery and easy installation
- Aeration basin mixing
- Wide operating range

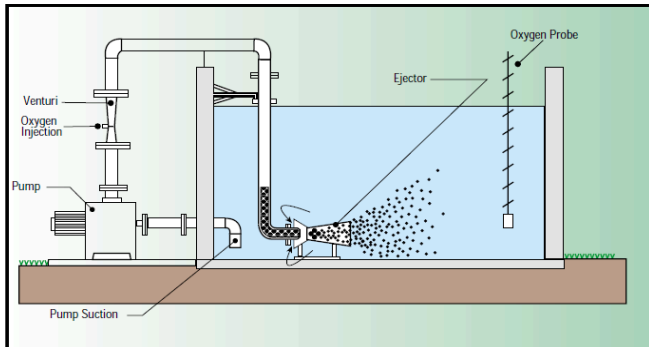
Drop in standard equipment range

Model	DO (Kg/day)	Power (kW)
65	1500-1900	13.7
100	2400-2900	19.6

Fixed installations are bespoke



Air Products Halia® Venturi Aeration System – drop in installation



Air Products Halia® Venturi Aeration System – fixed installation

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