



ITT

Water & Wastewater

Flygt jet aerator, 50Hz

Submersible mechanical aerator with N-technology



This stand-alone aeration system is designed for use in small and medium-sized tanks at wastewater treatment plants and industrial facilities that must treat sludge, minimize odor or meet effluent requirements.

Low-cost plug-and-play installation

This convenient lift-in, lift-out aeration system offers reliable, robust operation and is a cost-effective alternative to fixed diffused aeration systems. Furthermore, the aerator can be installed without emptying the tank. Installation on the tank bottom means significantly less spray, low vibration and low noise levels, which greatly improves the working environment.

Robust, clog-free equipment

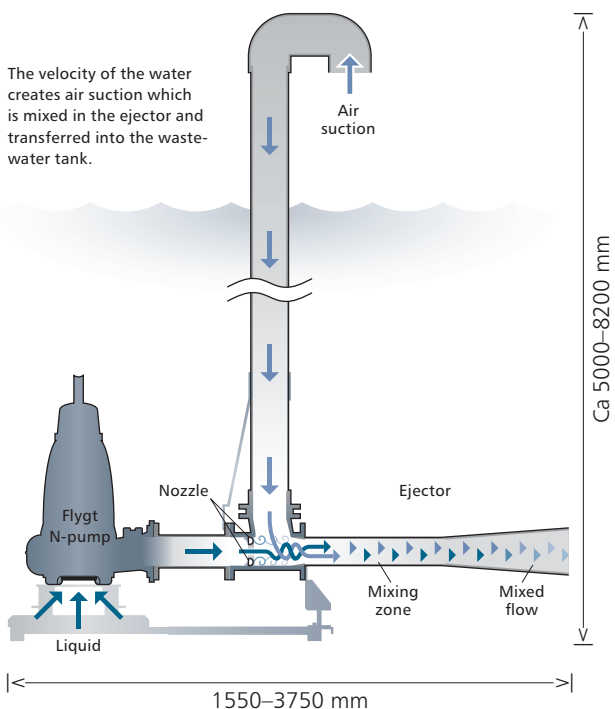
Behind the Flygt jet aerator's outstanding performance is the innovative N-technology, renowned for its non-clogging design, ease of use and minimal maintenance.

Flexibility to customize

Choose the pump capacity, number of mechanical ejectors and materials to meet your requirements: (1) galvanized steel ejectors and pump with cast iron impeller for typical wastewater applications or (2) stainless steel ejectors and pump with Hard-Iron™ impeller for extremely abrasive or corrosive applications.

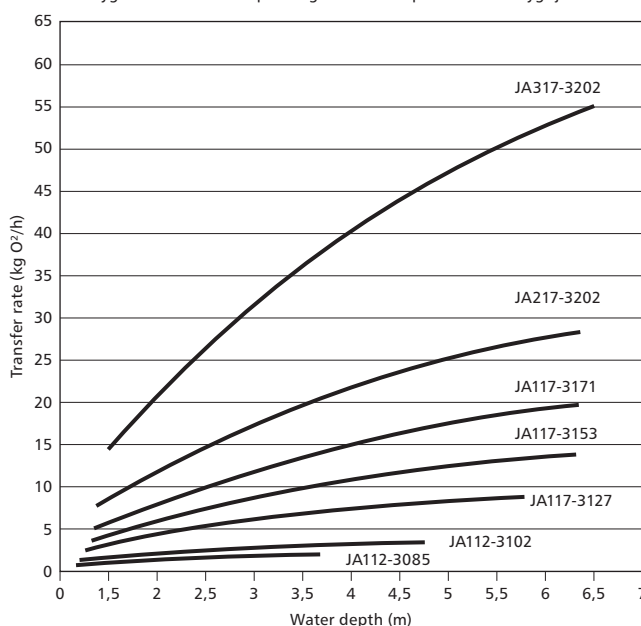
The Flygt jet aerator consists of an air suction pipe, N-pump, ejector housing and ejectors.

Engineered for life



Performance curves

Standard oxygen transfer rate depending on water depth for 50 Hz Flygt jet aerator



The Flygt jet aerator, the lift-in lift-out solution to meet standards and/or reduce wastewater odor.

Installation

Stand alone S
Fixed with guide bar system P

Product data

Flygt JA112

No. of ejectors 1
Nozzle 55 mm
Dimensions

Height ca 5000 mm
Length 1550–1680 mm

N-pump options

3085 MT

Performance 2 kW
Impeller 460
Flange DN 80

3102 MT

Performance 3.1 kW
Impeller 460
Flange DN 100

Flygt JA117

No. of ejectors 1
Nozzle 95 mm
Dimensions

Height 6500–8000 mm
Length 2150–2620 mm

N-pump options

3127 MT

Performance 5.9 kW
Impeller 437
Flange DN 150

3153 MT

Performance 9 kW
Impeller 433
Flange DN 150

3171 MT

Motor 15 kW
Impeller 433
Flange DN 150

Flygt JA217

No. of ejectors 2
Nozzle 95 mm
Dimensions

Height ca 8100 mm
Length 2870–3160 mm

N-pump 3202 MT
Performance 22 kW
Impeller 641
Flange DN 200

Flygt JA317

No. of ejectors 3
Nozzle 95 mm
Dimensions

Height ca 8200 mm
Length 3350–3750 mm

N-pump 3202 LT
Performance 37 kW
Impeller 610
Flange DN 300

Material

Ejector housing Cast iron
or stainless steel
Nozzle PEHD
Outlet pipe Stainless steel
Fasteners Stainless steel
Gasket Rubber
Chain sling Stainless steel
Suction pipe and inlet bend PVC-U*
or stainless steel
Pump Cast iron
(Check details in pump specifications)

Compulsory

Cooling jacket for N-3153, N-3171 and N-3202

Recommended

Hard-Iron™ impeller in corrosive or erosive applications. Ejector system in stainless steel version for pH > 11.

Process data

Liquid temperature +40°C (max.)
Liquid pH range pH 5.5–14
Liquid density 1100 kg/m³ (max.)
Total solids content 3–4%
For temperatures higher than 40°C and total solids content higher than 4%, contact your local ITT Water and Wastewater company.

*Min. pressure class PN 10