

Flygt Jet Aerator

SUBMERSIBLE MECHANICAL AERATOR

This stand-alone aeration system is providing reliable, convenient and affordable oxygen transfer. It is designed for use in activated sludge processes, sludge holding or digestion tanks and is ideal for small and medium-sized wastewater treatment plants or industrial facilities.

Robust, clog-free equipment

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

Low-cost plug-and-play installation

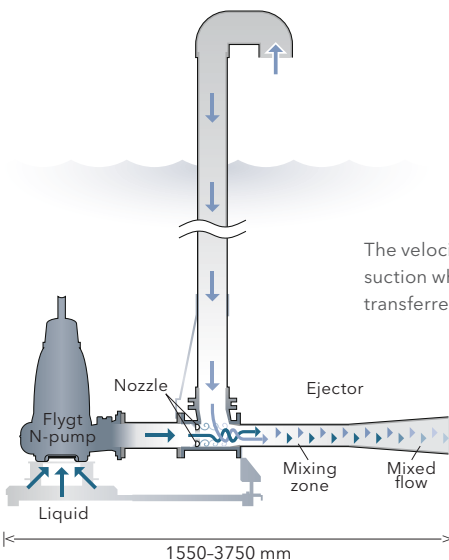
This convenient lift-in, lift-out aeration system offers a cost-effective alternative to fixed mechanical or diffused aeration systems. The aerator can be installed quickly without emptying the existing tank.

Better working environment

Because the submersible Flygt jet aerator rests on the tank bottom, there's significantly less spray and lower noise levels and vibrations, compared to surface aerators. This greatly improves the working environment.

Flexibility to customize

The Flygt jet aerator comes in seven distinct sizes, to meet various needs on aeration performance. For demanding applications, improved durability can be achieved by Ejectors in stainless steel instead of standard galvanized steel. Hard-Iron™ N-impellers instead of standard hardened cast iron are ideal for abrasive and/or corrosive applications.



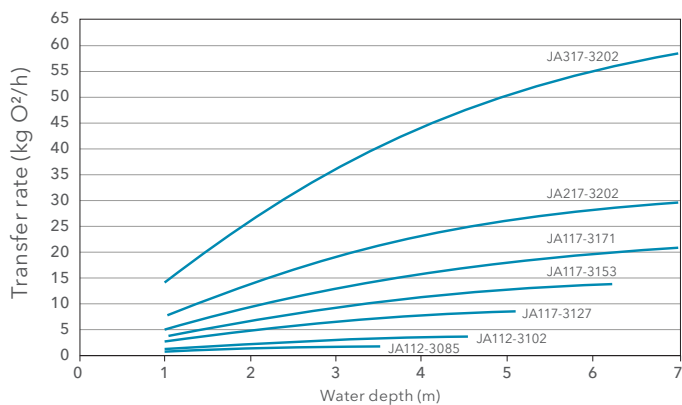
Flygt Jet Aerator SUBMERSIBLE MECHANICAL AERATOR

Model	JA112-3085		JA112-3102		JA117-3127		JA117-3153		JA117-3171		JA217-3202		JA317-3202	
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
SOTR* kgO ₂ /h (lbsO ₂ /h)	1.6	2.4 (5.3)	3.3	3.4 (7.5)	7.4	8.0 (17.5)	10.8	12 (26)	15	17 (37)	22	30 (66)	40	43 (95)
SAE**(kgO ₂ /kWh)	0.7		1.0		1.2		1.4		1.3		1.5		1.5	
Ejectors	1		1		1		1		1		2		3	
Nozzle diam (mm)	55		55		95		95		95		95		95	
Flygt N-pump	3085MT		3102MT		3127LT		3153MT		3171MT		3202MT		3202LT	
Pump impeller code	460	462	460	463	424	425	433	435	433	435	641	641	610	614
Rated Power (kW)	2	2.2	3.1	3.7	5.9	7.5	9	11.2	15	18.6	22	34	37	45
Cooling jacket	-		-		-		Y		Y		Y		Y	

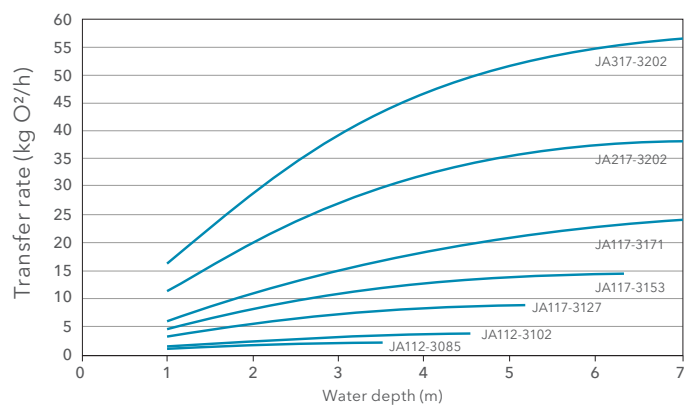
* At 4 m water depth

** At maximum water depth

Performance Curves 50 Hz



Performance Curves 60 Hz



Installation

Stand alone S
Fixed with guide bar system P

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)

* Min. pressure class PN 10

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 temperatur +40 °C (max.)
Liquid pH range pH 5.5–14
Liquid density 1100 kg/m³ (max.)
Max. total solids content 4(8)%

For temperatures higher than 40°C and/or total solids content higher than 4%, contact your local Xylem representative.

xylem
Let's Solve Water

Flygt is a brand of Xylem, whose 12,000 employees are addressing the most complex issues in the global water market.

www.xylem.com

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