# LIFTAIR



LIFTAIR is an inline, vertical mixing system with pneumatic (air) agitation. It allows mixing of liquids with controlled gas transfer (O<sub>2</sub>, CO<sub>2</sub>, CH<sub>4</sub>, CS<sub>2</sub>, N<sub>2</sub>...) and simple air volume regulation

## Principle

Air/Gas is introduced at a point close to the bottom of the LIFTAIR inducing a fast-rising current passing through the conical pipe. The paraboloid intake and the internal guiding flaps cause a squirrel-type vertical flow. Intensive mixing is carried down to the floor clearing it from deposits.

#### Usage

Low to medium intensity mixing of geometrically unequal tanks and <u>tanks with different or varying liquid levels</u>. Specifically for flocculation, abrasive liquids, scaling or fouling liquids and gas- transfer (O<sub>2</sub>) or gas-stripping (CO<sub>2</sub>, CH<sub>4</sub>, CS<sub>2</sub>, N<sub>2</sub>...), A-SBR

## **Typical applications:**

- Precipitation and Flocculation
- Oxic /anoxic selectors
- Ex-Zones
- Gas-transfer and stripping

### **Types**

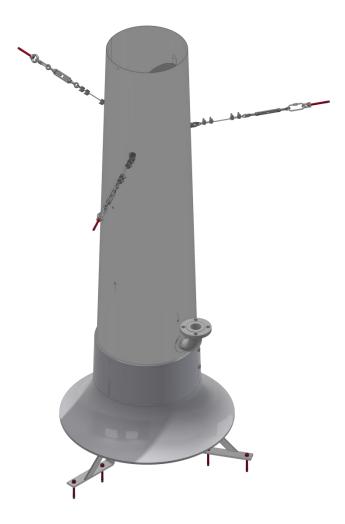
LIFTAIR can come for fixed bottom mounting or retrievable. Tank depths of up to 7m can be mixed with internal side wall clearance of >1.000 mm.

### Manufactured

Stainless steel and high grade epoxy FRP for up to 60  $^{\circ}$ C and pH ranges between 2 to 12. Various quality levels are available ranging from 1.4301, 1.4404 to AISI 316L.

### **Technical data**

	unit	range
Air flow	Nm3/h	5-300
pressure drop	mbar	20-50
Тетр	°C	<60
TSS	g/l	<10
mixing intensity	W/m3	0,05 - 160
air pressure	mbar	900
pH-value	-	2-12
mixed volume	m3/unit	2,5 - 360
water level	mm	2.500-10.000
LIFTAIR height	mm	2.000-4.000



## Material

Conical Shaft	1.4301/1.4401/	
pipe and studs	1.4571/304L/316L	
Bolts	M8 / DIN 933	
Floor Anchors	HUS - Hilti	
Air connection	DN 50	
Air pipe	<dn 65<="" th=""></dn>	
Intake funnel	FRP-Moulded	
Side wall	SS ropes	
Connection		
SS processing	WIG MAG Welded / Tank	
	immersion pickling	

Tel. +43 664 13 70 715 office@nwtechnology.at www.nwtechnology.at Firmenbuchgericht Salzburg FN410998i UID ATU 68524402 Sparkasse Salzburg IBAN AT32 2040 4000 4131 7504 BIC: SBGSAT2SXXX