



# NOVAIR SUBMERGED AERATOR

## CE AERATOR FOR SMALL WASTE WATER TREATMENT SYSTEMS



The submerged aerator is designed for liquid waste aeration in small water treatment systems. Other fields of application include pond water oxygenation and fish farms. Thanks to its specific design, the new **NOVAIR** system guarantees optimal oxygenation of water treatment plants by means of a large and thick cloud of fine bubbles. The fluid dynamics study has been mainly focused on the impeller's blade profiles, with a view to avoid damaging microorganisms present in the water when starting operation. As the aerator is installed vertically, its body is supplied with a supporting base.

Technically speaking, motor cooling is guaranteed by large contact surfaces between motor casing and the liquid. The power cable is coated with resin against humidity and leaks and cabling has been made easier, in order to favour maintenance operations and cable replacement. The excellent wear resistance of the stainless steel motor shaft, with ceramic bush around the sealing rings, guarantees long product durability.

Pump body, cable cover and impeller in technopolymer. Two-pole asynchronous submersible type motor from 0.18 and 0.4 kW with built-in thermal protection and permanently connected capacitor installed in the cable compartment. Steel motor shaft mounted on oversized, greased sealed-for-life ball bearings with ceramic bush. Triple interposed ring seal with oil pre-chamber.

**Operating range:** air delivery 2 - 17 m<sup>3</sup>/h for depths from 20-90 cm, from the inlet axls.

**Protection level:** IP68.

**Insulating class:** F.

**Liquid temperature range:** from 0 °C to 35 °C according to EN 60335-2-41 standard for domestic use.

**Liquid quality requirements:** sewage from septic tank fibre-less and free from solids, and clear water.

**Single-phase:** 220 - 240 V/ 50 Hz.

**Power cable:** H07RNF8-F of 2 mt, 5mt e 10 mt and SCHUKO plug available. Supplied with gasket and 90 degrees band for vertical inlet.

MODEL	P2 NOMINAL		Q AIR m <sup>3</sup> /h - l/min	1	2	3	4	6	8	10	12	14	17,5
	kW	HP		16,6	33,3	50	66,6	100	133,3	166,6	200	233,3	291,6
NOVAIR 200	0,18	0,24	Depth (cm.)	80	60	45	30	20					
NOVAIR 600	0,40	0,54		90	85	75	65	57	50	42,5	34	27	20

## TECHNICAL DATA

MODEL	CODE	ELECTRICAL DATA					AIR DELIVERY MAX m <sup>3</sup> /h	DEPTH		DNM GAS	CABLE	WEIGHT KG	Q.TY X PALLET
		VOLTAGE 50 HZ	P1 MAX KW	P2 NOMINAL		IN A		MAX cm	MIN cm				
				kW	HP								
NOVAIR 200 M-NA	60145324	1X220- 240 V~	0,28	0,18	0,24	1,4	8	80	20	1"	2 mt / H07RN8-F	3,5	32
NOVAIR 200 M-NA	60145325	1X220- 240 V~	0,28	0,18	0,24	1,4	8	80	20	1"	5 mt / H07RN8-F	3,5	32
NOVAIR 200 M-NA	60145507	1X220- 240 V~	0,28	0,18	0,24	1,4	8	80	20	1"	10 mt / H07RN8-F	3,5	32
NOVAIR 600 M-NA	60145326	1X220- 240 V~	0,63	0,40	0,54	3	17.5	90	20	1 1/4"	2 mt / H07RN8-F	5,4	32
NOVAIR 600 M-NA	60145327	1X220- 240 V~	0,63	0,40	0,54	3	17.5	90	20	1 1/4"	5 mt / H07RN8-F	5,4	32
NOVAIR 600 M-NA	60145508	1X220- 240 V~	0,63	0,40	0,54	3	17.5	90	20	1 1/4"	10 mt / H07RN8-F	5,4	32