



WATER • TECHNOLOGY

**NEW**

# NOVAIR 200/600

SUBMERGED AERATOR FOR SMALL WASTE  
WATER TREATMENT SYSTEMS



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## SUBMERGED AERATOR FOR SMALL WASTE WATER TREATMENT SYSTEMS



**NOVAIR 600**

**NOVAIR 200**

### GENERAL DATA

#### Applications

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.

#### Advantages

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.

### Construction features

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:

Protection level:

Insulating class:

Liquid temperature range:

Liquid quality requirements:

Standard voltage:

Power cable:

air delivery 2 - 17 m<sup>3</sup>/h for depths from 20 – 90 cm

IP68

F

from 0 °C to 35 °C according to EN 60335-2-41 standard for domestic use

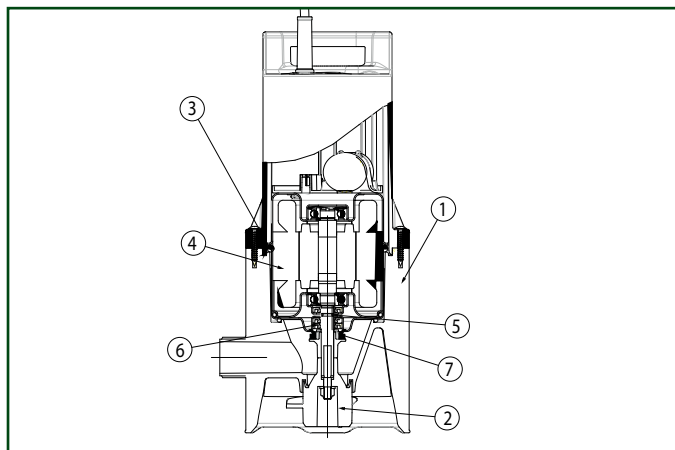
sewage from septic tank fibre-less and free from solids, and clear water.

single-phase: 220 – 240 V/ 50 Hz

H07RN8-F of various lengths and SCHUKO plug available

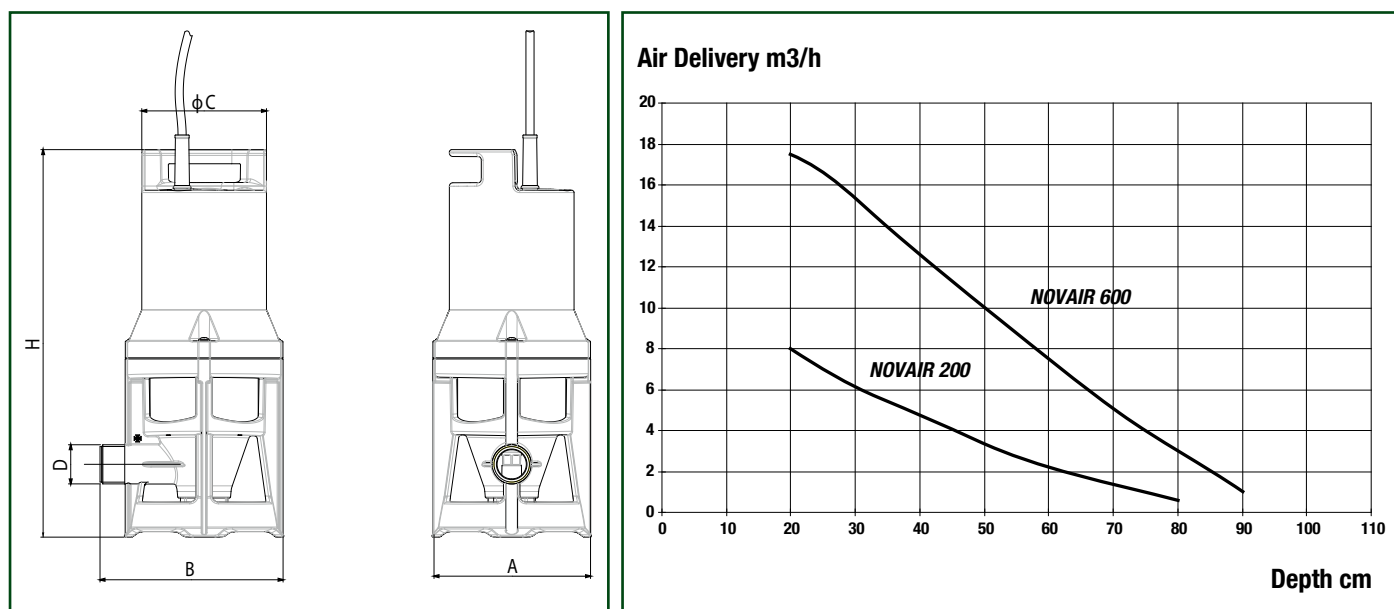
### TECHNICAL DATA

N	DESCRIPTION		MATERIAL
1	PUMP BODY		TECHNOPOLYMER
2	GIRANTE		TECNOPLIMERO
3	O-ring SEAL		NBR 70
4	MOTOR	CASING	AISI 304
		SHAFT	AISI 416
5	CERAMIC BUSH		AISI 303 + CERAMIC
6	RADIAL SEAL		NBR 70
7	V-RING		NBR 70 + GREASE



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The performance curves are based on kinematic viscosity values = 1 mm<sup>2</sup>/s and density equivalent to 1000 kg/m<sup>3</sup>. Tolerance of curves to ISO 9906

### ELECTRICAL DATA AND PERFORMANCE

MODEL	VOLTAGE	P1 MAX	P2 NOMINAL		Ampere	Ø INLET	CABLE	Air delivery MAX	Depth MAX MIN	
	50hz	W	kW	HP	A			m <sup>3</sup> /h	cm	cm
NOVAIR 200	220-240 V	280	0,18	0,24	1,4	1"	H07RN8-F	8	80	20
NOVAIR 600	220-240 V	630	0.40	0,54	3	1" ¼	H07RN8-F	17.5	90	20

### DIMENSIONS AND WEIGHT

MODEL	H	A	B	ØC	D	PACK DIMENSIONS			WEIGHT
					G - NPT	L/A	L/B	H	Kg
NOVAIR 200	329,5	130,5	158	106	1"	190	255	308	3,5
NOVAIR 600	380,20	130,5	158	106	1 1/4"	190	255	308	5,4

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