Submersible multi-stage pumps designed to pump AdBlue®





PERFORMANCE RANGE

- Flow rate up to **70 l/min** $(4.2 \text{ m}^3/\text{h})$
- Head up to 27 m

APPLICATION LIMITS

- 3 metres maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature +40 °C
- Suction down to 25 mm above ground level
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

The pump is complete with:

- 5 metres long power cable with H07BN4-F coating
- complete connector with flap-check valve

EN 60034-1 ϵ EN 60335-1 IEC 60335-1 IEC 60034-1 CEI 61-150 **CEI 2-3**

CERTIFICATIONS

Company with management system certified DNV ISO 9001: QUALITY



INSTALLATION AND USE

Multistage submersible pumps TOP MULTI 1-AD are designed to pump clean liquid, which is defined according to standard ISO 22241 as AUS 32 (Aqueous Urea Solution 32.5%).

This liquid is equivalent to other commercial trademarks known as:

- AdBlue® (trademark registered by Verband der Automobilindustrie VDA);
- DEF (Diesel Exhaust Fluid);
- Arla 32 (Agente Redutor Liquido de Óxido de Nitrogênio Auto-

Multistage submersible pumps TOP MULTI-AD are designed using materials compliant to this liquid; their use is subjected to local laws and directives.

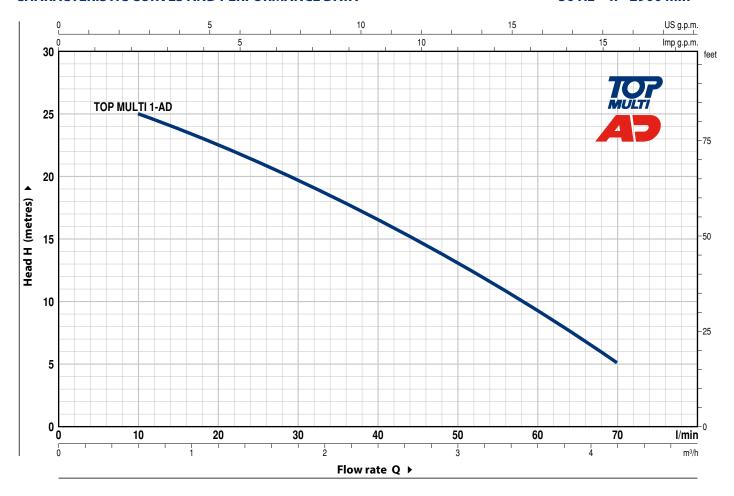
OPTIONS AVAILABLE ON REQUEST

• Other voltages or 60 Hz frequency



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min⁻¹



MODEL	POWE	R (P2)	m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2
Single-phase	kW	HP	Q //min	0	10	20	30	40	50	60	70
TOP MULTI 1-AD	0.37	0.50	H metres	27	25	22.5	19.5	16.5	13	9	5

 $\mathbf{Q} = \text{Flow rate} \quad \mathbf{H} = \text{Total manometric head}$

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

TOP MULTI-AD

POS	. COMPONENT	CONSTRUCTION CHARACTERISTICS
1	DELIVERY BODY	Glass fibre reinforced technopolymer complete with threaded delivery port in compliance with ISO 228/1
2	SUCTION FILTER	Glass fibre reinforced technopolymer
3	STAGE CASING	Glass fibre reinforced technopolymer
4	IMPELLER	Noryl FE1520PW
5	DIFFUSER	Noryl FE1520PW complete with anti-wear ring
6	VANE DIFFUSER	Glass fibre reinforced technopolymer
7	MOTOR CASING	Stainless steel AISI 304
8	MOTOR CASING PLATE	Stainless steel AISI 304
9	MOTOR SHAFT	Stainless steel AISI 431

10 SHAFT WITH DOUBLE SEAL

Seal	Shaft		Mate	rials	
Model	Diameter	Stationary ring	Rotational ring	Elastomer	Metals
STA-12R SGE	Ø 12 mm	Silicon carbide	Graphite	EPDM	AISI 304

LIP SEAL Ø 12 x Ø 19 x H 5 mm

BEARINGS 6201 ZZ - C3E / 6201 ZZ - C3E

13 CAPACITOR

Capacitance

•		
(230 V or 240 V)	(110 V)	
10 μF 450 VL	16 μF 250 VL	

14 ELECTRIC MOTOR

TOP MULTI 1-AD: single-phase 230 V - 50 Hz with thermal overload protector incorporated into the winding.

- Insulation: class F - Protection: IP X8

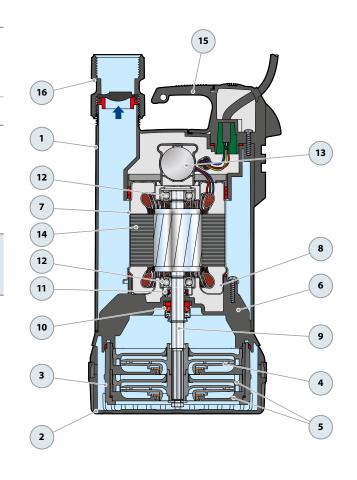
15 HANDLE ASSEMBLY (resin sealed)

Complete with **5 metres** long "H07BN4-F" power cable

PIPE COUPLING

Threaded 11/4" in compliance with ISO 228/1, complete with flap-check valve

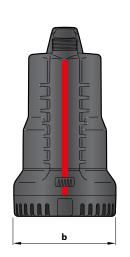
(Included in the equipment)

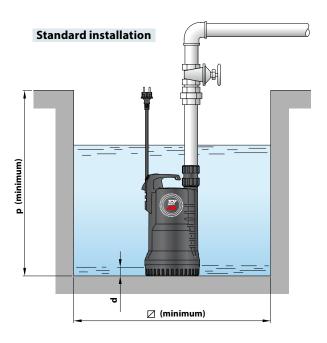




DIMENSIONS AND WEIGHT







MODEL	PORT	N.							
Single-phase	DN	STAGES	a	b	h	d	Ø		
TOP MULTI 1-AD	1¼"	2	180	170	295	25	220	5.8	

ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
TOP MULTI 1-AD	2.0 A	1.9 A	4.0 A

PALLETIZATION

MODEL	GROUPAGE	CONTAINER	
Single-phase	n. pumps	n. pumps	
TOP MULTI 1-AD	60	100	