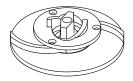


HYDROPOMPE

FTR SERIES

165M-165T-215M-215T-315T





50 Hz

2 POLE

USE

These series of grinder pumps are particularly used in civil and industrial sewage plants. They have been designed to pump the liquid at high head with very low capacity. The cutter unit, in a special hard stainless steel, cuts into small pieces threadlike materials contained in the liquids. As the risk of clogging is avoided small diameter pipes are used. These pumps can be used to lift the sewage of blocks of flats and villas, small isolated areas far from the sewer systems; the sewage of hotels and campsites, in the food and paper industry and in those particular situations where the installation is often expensive by using a gravity system.

MATERIALS

Cover

Cast iron EN GJL 200 (UNI EN 1561)

Motor housing

Cast iron EN GJL 200 (UNI EN 1561)

Pump housing

Cast iron EN GJL 200 (UNI EN 1561)

Supporting foot

Cast iron EN GJL 200 (UNI EN 1561)

Impeller

Cast iron EN GJL 200 (UNI EN 1561)

Mechanical seal motor side

215M-215T-315T Graphite/Steatite

Mechanical seal pump side

Silicon Carbide/Silicon Carbide (SiC/SiC)

Motor shaft

Stainless steel AISI 431

Grinder

Hardened stainless steel

Bolts and nuts

Stainless steel Grade A2

Cable

5 meters type H07RN-F

Single-phase with 4G1,5 $\rm mm^2$ cable, capacitor box and SCHUKO (CEE 7/VII) plug

Single-phase FTR215M with 4G2,5mm 2 cable, capacitor box and SCHUKO (CEE 7/VII) plug

VThree-phase with 4G1,5 mm² cable

LIMITS TO USE

Max temperature of the liquid pumped

+40°C

pH of the liquid pumped

6÷10

Max immersion depth

20 m

Liquid density

1,0 kg/dm³

Min immersion depth for continuos service

165M-165T 373 mm 215M-215T-315T 440 mm

Max number starts/hour

20

Acoustic pressure level issued

<70dB(A)

MOTOR

The electric motor is asynchronous with squirrel cage rotor in oil bath

Class of insulation F

Protection degree IP68

2pole; 50Hz

Main voltage values and relative tolerance in relation to the rated voltage value:

SINGLE-PHASE

230V ±6% FTR165M

built-in overheating protection and float switch

THREE-PHASE

230V ±10% 400V ±10%

Other voltages on request.

OTHER FEATURES ON REQUEST

10m cable length in accordance with EN 60335-2-41 Frequency 60 Hz (see specific catalogue)

Other voltages

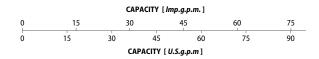
With food grade white oil

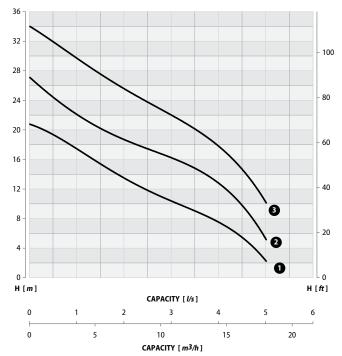
TECHNICAL DATA										
MODEL	P1			VOLTAGE	CURRENT	CAPA	CITOR	CABLE	WEIGHT	
MODEL	kW	kW	CV	V	Α	μF	V	m	kg	
165M	1,4	1,1	1,5	230 (1~)	7,0	30	450	5	34	
165T	1,4	1,1	1,5	230/400 (3~)	5,2/3,0	-	-	5	34	
215M	2,3	1,6	2,1	230 (1~)	11,0	40	450	5	40	
215T	2,3	1,6	2,1	230/400 (3~)	6,9/4,0	-	-	5	40	
315T	3,1	2,2	3,0	230/400 (3~)	8,7/5,0	-	450	5	42	

2 POLE

PERFORMANCE RANGE												
	CAPACITY											
	I/s	0	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0
	m³/h	0	1,8	3,6	5,4	7,2	9,0	10,8	12,6	14,4	16,2	18,0
	l/min	0	30	60	90	120	150	180	210	240	270	300

MODEL	CURVE N°	HEAD m										
165M 165T	1	21,0	19,0	17,0	15,8	14,0	12,0	9,5	8,8	7,8	5,8	2,0
215M	2	27,0	25,0	21,0	20,5	19,0	18,0	15,5	14,5	13,0	10,0	5,0
215T 315T	3	34,0	32,0	29,5	27,5	25,7	23,8	22,0	20,0	17,5	15,0	10,0



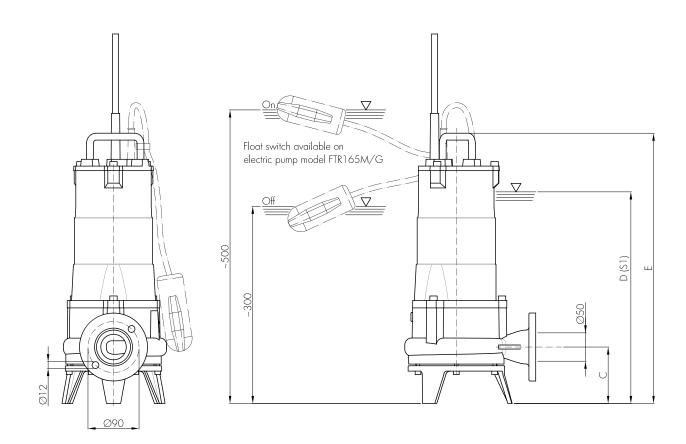




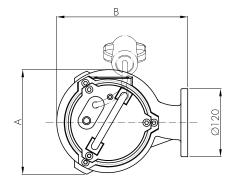
Performance tolerance in according to UNI/ISO 9906 Grade 2

50 Hz 2 POLE

INSTALLATION DIMENSIONS



	Α	В	С	D	E
165	185	231	100	373	477
215 315	220	276	110	440	550



FTR SERIES

165M-165T-215M-215T-315T



50 Hz

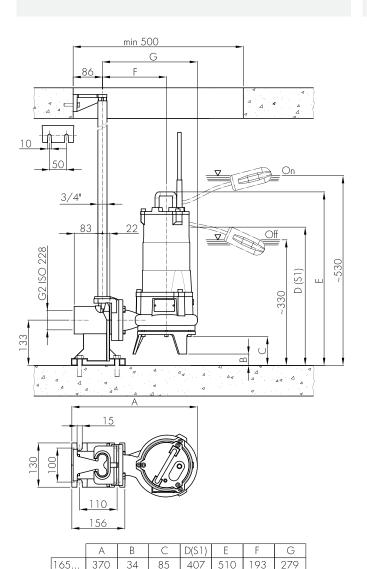
2 POLE

PERMANENT INSTALLATION WITH COUPLING SYSTEM

It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

PORTABLE INSTALLATION

Transportable as emergency pump with connection to the hose and for free installation in the well.



76

464

414

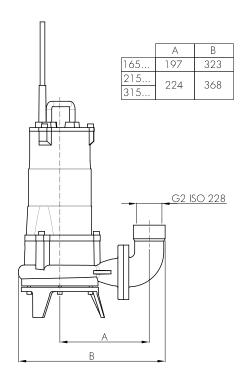
315.

24

215

574

324



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