



FGt Series



FGt Series

FGt Series pumps are designed to handle raw sewage, wastewater and heavy-duty industrial applications where the pump is subject to clogging from oversized materials. Cutter pumps are generally offered with vortex impeller. A cutting device and hard iron serrated casing cover provided in the pump to cut the incoming materials into pieces, permitting smooth passage through the pump into the discharge piping. A Cutter pump's job is also to reduce the size of the solids. Cutter pumps are typically used to address clogs and rags.

Operating parameters

Max Flow	upto 30.6m ³ /hr
Max Head	upto 60m
Impeller Type	Vortex with Cutting Device
Outlet Size	40 & 50 mm
Max Solid Size	upto 7mm
Maximum Liquid Temperature	upto 40°C
Service	S1 Duty
No. of Starts / Per Hour	20
Max. immersion depth	20m
pH range	6 to 12
Liquid Viscosity	1 mm ² /s
Liquid Density	1kg/dm ³
Max. Noise level	≤ 70dB

Specifications

Power Range	0.75 to 9.5kW
Power Supply	230V - Single phase & 380-415V - Three Phase, 50Hz, AC.
Ingress Protection	IP68
Motor	Dry Type Induction motor
Speed	2850 rpm
Class of Insulation	H
Moisture sensor	# Available
Starting Method	Single Phase - CSR, Three Phase - DOL & SD
Shaft Seal	Double Mechanical seal
Mechanical Seal Face Combination	Motor Side : Graphite / Alumina Pump Side : Silicon Carbide / Silicon Carbide
Bearing Type	Shielded prelubricated bearing
Cable Type	HO7RNF
Standard Cable Length	10m

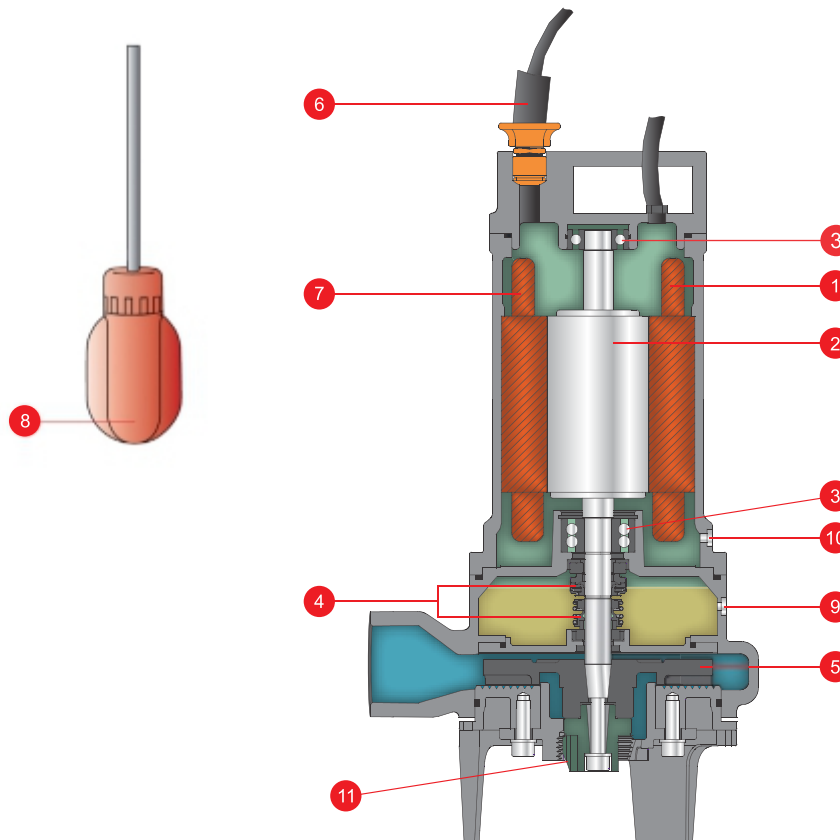
Material of Construction

Casing	Cast iron EN-GJL-260
Impeller / Cutter	Cast iron EN-GJL-260 / SS 440 C
Motor Housing	Cast iron EN-GJL-260
Shaft	Stainless Steel X30 Cr13 (AISI 420)
Fasteners	Stainless Steel A2 (AISI 304)



FGt Series

Cross Section Drawing



- | | |
|--|---|
| 1. Fully submersible pressure tight electric motor | 7. Thermal over load protector |
| 2. Rotor Shaft | 8. Float switch |
| 3. Bearings | 9. Oil inspection plug |
| 4. Mechanical seal | 10. Air plug hole for the motor water tightness control |
| 5. Open Impeller with cutting device | 11. Cutting device |
| 6. Cable | |

PRODUCTS IDENTIFICATION CODE

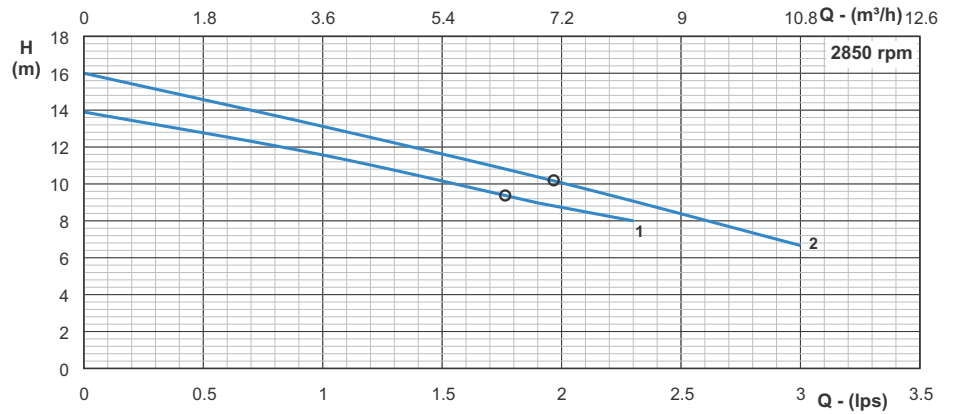
F	Gt	320.	0,75 -	2 /	XXX	(m)	(s) / (A)	(LT)	
• FIPS PRODUCTION	• IMPELLER DESIGN (VORTEX WITH CUTTER OR GRINDER)	• SERIES NAME	• P2 MOTOR NOMINAL POWER	• NO. OF POLES (MOTOR SPEED)	• IMPELLER DIAMETER	• SINGLE-PHASE	• SINGLE PHASE MODEL WITH EXTERNAL CAPACITOR (SUPPLIED WITH CONTROL BOX)	• AUTOMATIC ON / OFF WITH FLOAT	• WITH GRINDER

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.



FGt 300-2

PERFORMANCE CURVES



PERFORMANCE TABLE

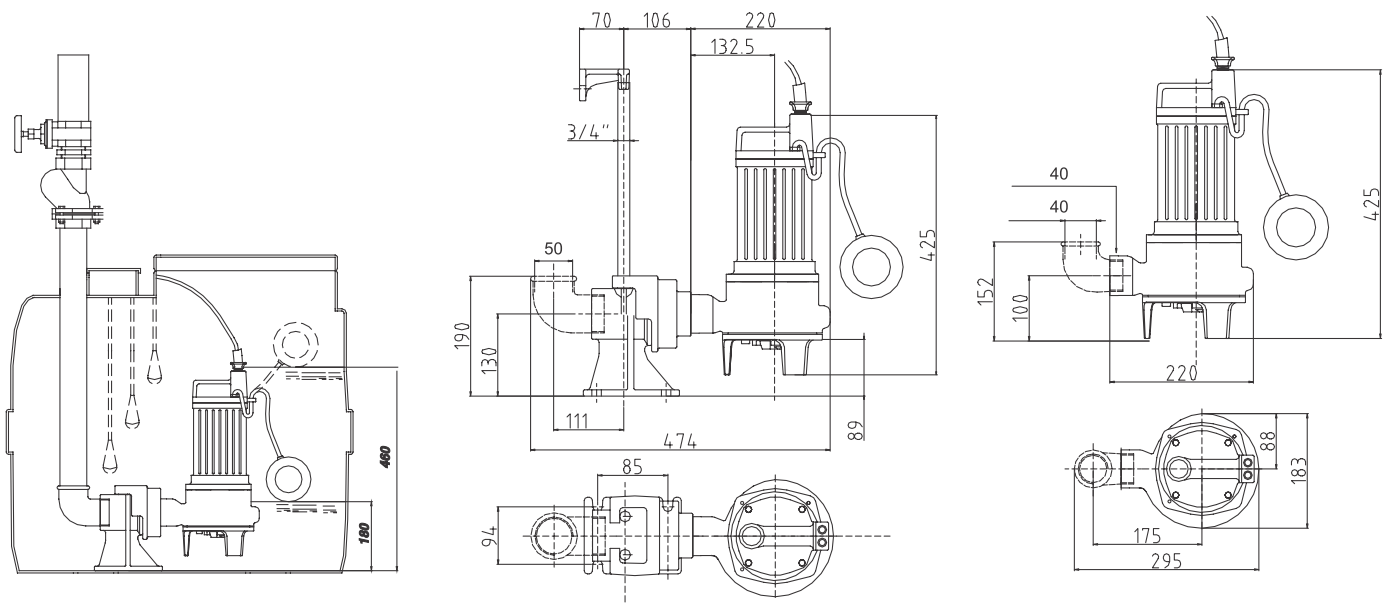
No	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	Auto coupling V	Weight (kg)	I/sec m³/h	0	1	2	3
1	Fgt 320.0,75-2/128.7 ms/A	0.9	0.75	230	22	5.5	2850	40	6	40N	24	Head in m	13.9	11.6	8.7	-
2	FGt 321.1,1-2/128.7 ms/A	1.3	1.1	230	30	7.5	2850	40	6	40N	24	Head in m	16	13.1	10.1	6.7

ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable	Auto coupling Model	Auto coupling Code	Base Frame Model	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm					
1	Fgt 320.0,75-2/128.7 ms/A	4	1.5	NA	V40N-1F	146294	NA	THREADED G1½"
2	FGt 321.1,1-2/128.7 ms/A	4	1.5	NA	V40N-1F	146294	NA	THREADED G1½"

INSTALLATION DRAWING

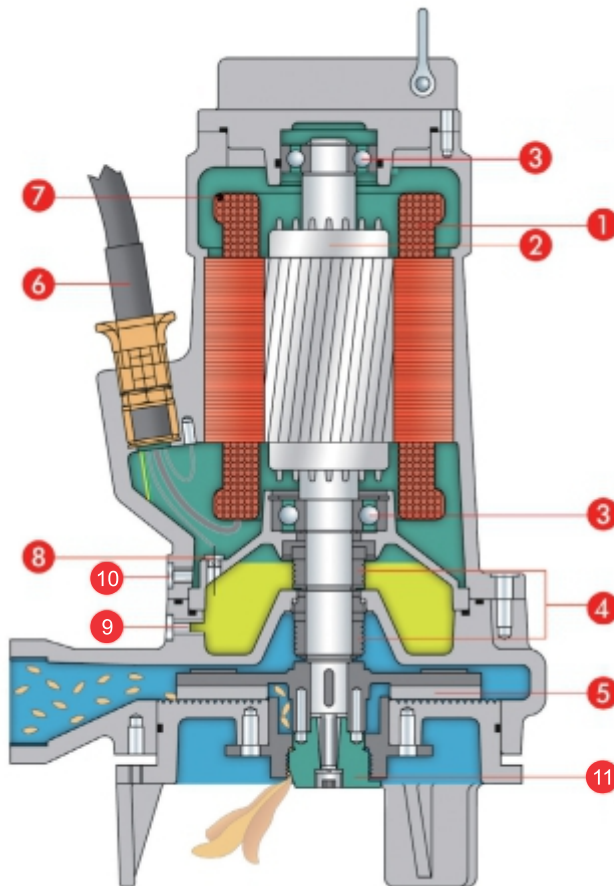
DIMENSION DRAWING



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Cross Section Drawing



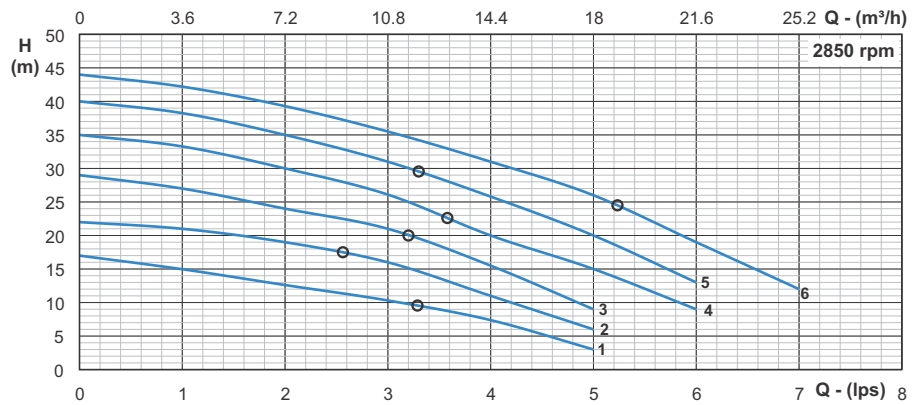
- | | |
|--|---|
| 1. Fully submersible pressure tight electric motor | 7. Thermal over load protector |
| 2. Rotor Shaft | 8. Oil chamber probe |
| 3. Bearing | 9. Oil inspection plug |
| 4. Mechanical seal | 10. Air plug hole for the motor water tightness control |
| 5. Open Impeller with cutting device | 11. Cutting device |
| 6. Cable | |

* The above diagram is only for illustration purpose the actual construction of the product may vary according to the model.



FGt 600-2

PERFORMANCE CURVES



PERFORMANCE TABLE

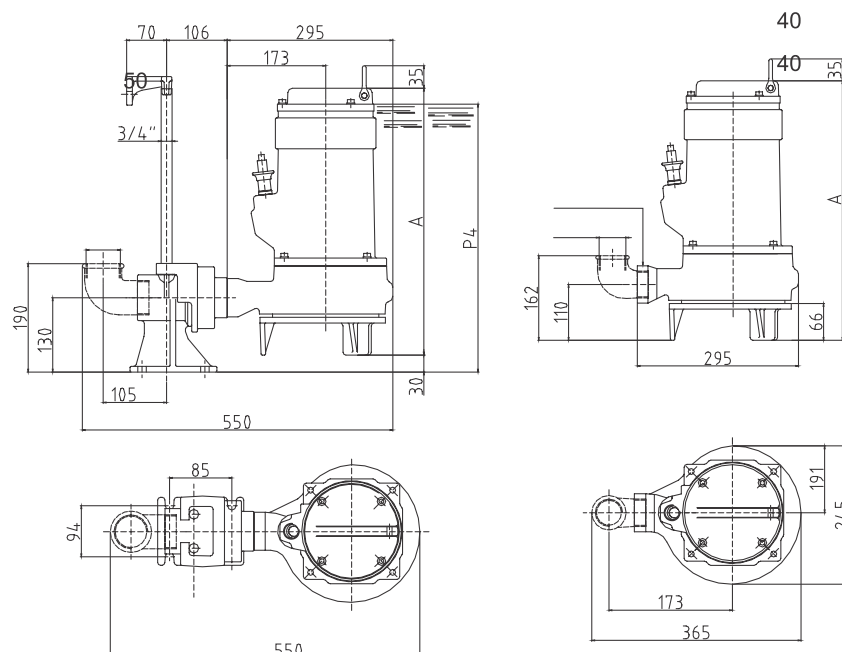
No	Model - Type	P1 kW	P2 kW	Volt	µF	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	I/sec m³/h	0	1	2	3	4	5	6	7
1	FGT 615.1,1-2/131.7*	1.5	1.1	400		3	2850	40	7	Head in m	17	15	12.6	10.3	7.4	3	-	-
2	FGT 622.1,6-2/140.7 ms	2	1.6	230	40	10	2850	40	7		22	21	19	16	11	6	-	-
3	FGT 626.1,85-2/151.7*	2.2	1.85	400		4.5	2850	40	7		29	27	24	21	15.5	9	-	-
4	FGT 635.2,6-2/165.7*	3.3	2.6	400		5.8	2850	40	7		35	33.3	30	26.1	20	15	9	-
5	FGT 648.3,6-2/173.7*	4	3.6	400		8	2850	40	7		40	38.3	35	31	25.8	20	13	-
6	FGT 656.4,2-2/184.7*	5	4	400		10	2850	40	7		44	42.2	39.3	35.5	31	26	19	12

* Inbuilt with TOP

DIMENSION & WEIGHT DATA

No	Model - Type	A max	P4	Auto coupling V	Weight (kg)	Power Cable	
						No. of Core	Size in Sq.mm
1	FGt 622.1,6-2/140.7 ms	455	470	40N	44	4	1.5
2	FGt 615.1,1-2/131.7	420	435	40N	38	7	1.5
3	FGt 626.1,85-2/151.7	420	435	40N	39	7	1.5
4	FGt 635.2,6-2/165.7	455	470	40N	44	7	1.5
5	FGt 648.3,6-2/173.7	470	485	40N	54	7	1.5
6	FGt 656.4,2-2/184.7	470	485	40N	55	7	1.5

DIMENSION DRAWING



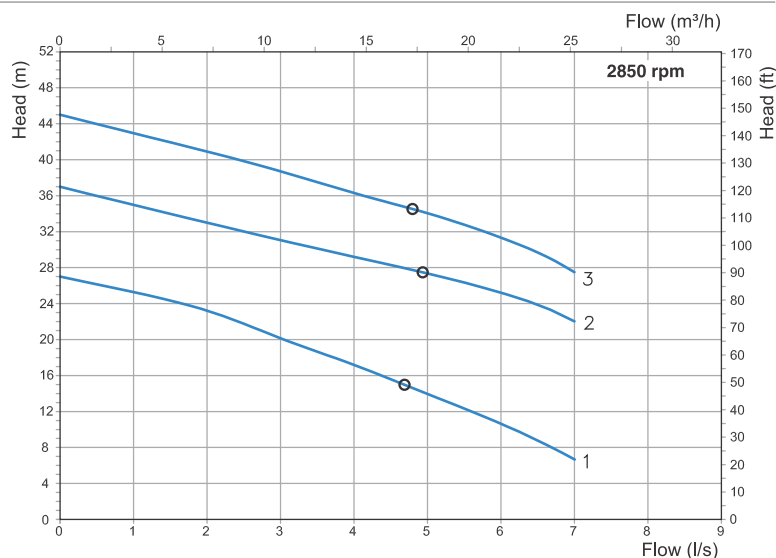
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FGt 600 - LT



PERFORMANCE CURVES



PERFORMANCE TABLE

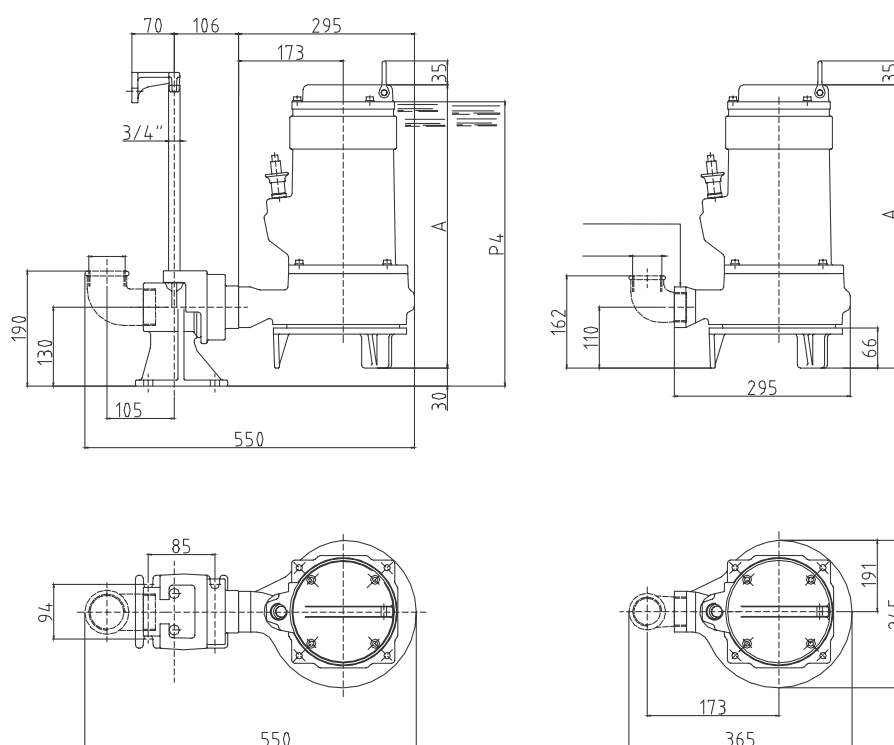
No	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max.Solid size (mm)	I/sec m³/h	0	1	2	3	4	4.5	5	6	7
1	FGt 628.2,6-2/151.7 LT*	3	2.6	400	5.5	2850	40	7	Head in m	27	25.3	23.6	20	17.3	15.8	13.9	10.8	6.9
2	FGt 642.4-2/164.7 LT*	4.5	4	400	8	2850	40	7		37	35	33	31	29.2	28.1	27.5	25	21.5
3	FGt 657.5,5-2/184.7 LT*	6	5.5	400	12	2850	40	7		45	42.8	41.1	39	36.2	34	34	31	27.2

* Inbuilt with TOP

DIMENSION & WEIGHT DATA

No	Model - Type	A max	Auto coupling V	Weight (kg)	Power Cable	
					No. of Core	Size in Sq.mm
1	FGt 628.2,6-2/151.7 LT	455	V40N-1F	39	7	1.5
2	FGt 642.4-2/164.7 LT	470	V40N-1F	54	7	1.5
3	FGt 657.5,5-2/184.7 LT	470	V40N-1F	55	12	1.5

DIMENSION DRAWING



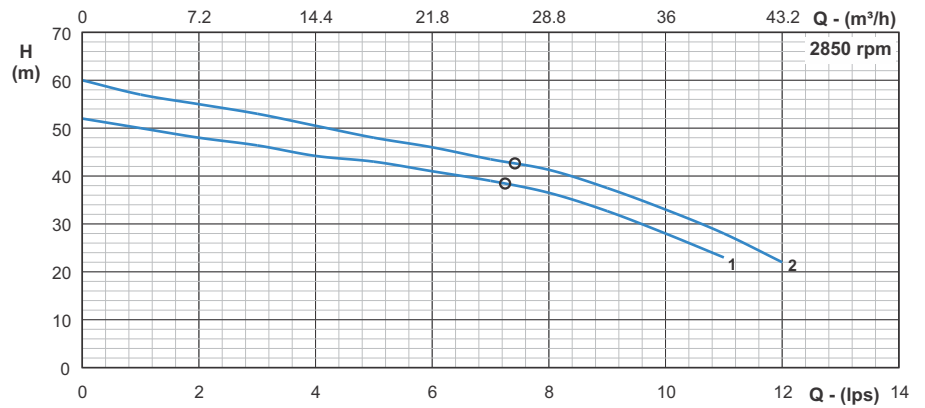
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FGt 3000 - LT



PERFORMANCE CURVES



PERFORMANCE TABLE

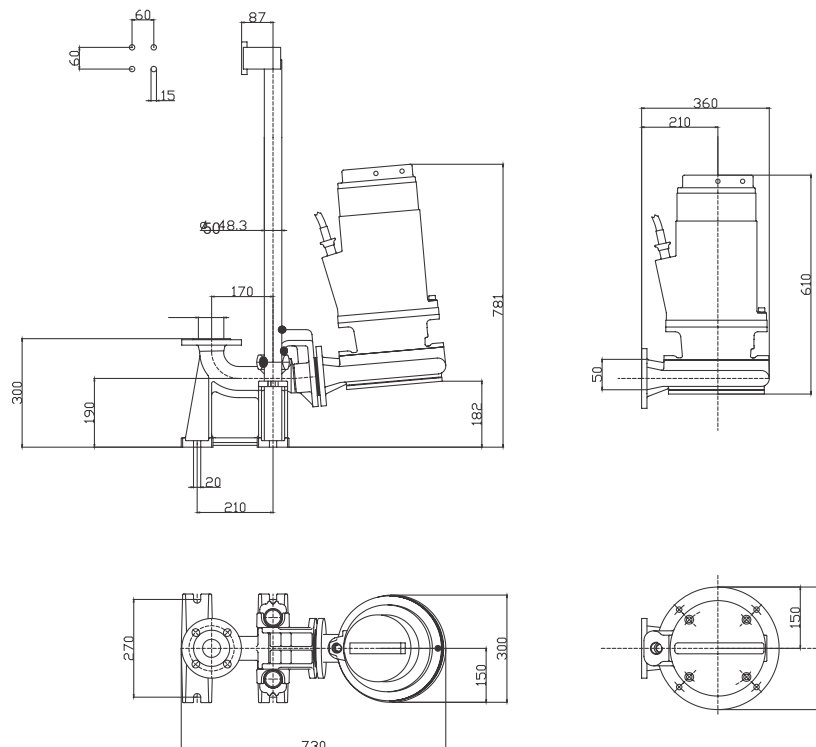
No	Model - Type	P1 kW	P2 kW	Volt	Amp	rpm	Delivery size (mm)	Max. Solid size (mm)	Auto coupling V	Weight (kg)	l/sec m³/h	0	1	2	3	4	5	6	7	8	9	10	11	12
1	FGt 3107.7,2-2/198.7 LT*	8	7.2	400	15	2850	50	7	50K	110	Head	52	50	48	46.4	44.2	43	41	39	36.5	32.7	28	23	-
2	FGt 3136.9,5-2/219.7 LT*#	11	9.5	400	19	2850	50	7	50K	110	Head	60	57	55	53	50.5	48	46	43.5	41.3	37.5	33	28	22

* Inbuilt with TOP / # Moisture sensor available

ACCESSORIES DETAILS & IDENTIFICATION CODE

No	Model - Type	Power Cable		Control Cable		Auto coupling Model	Auto coupling Code	Base Frame Model	Base Frame Code	Pump Outlet flange type (inch)
		No. of Core	Size in Sq.mm	No. of Core	Size in Sq.mm					
1	FGt 3107.7,2-2/198.7 LT	12	1.5	NA	NA	V50K	146298	BAPRS300	148102	ROUND FLANGE 2"
2	FGt 3136.9,5-2/219.7 LT	7	2.5	4	1.5	V50K	146298	BAPRS300	148102	ROUND FLANGE 2"

DIMENSION DRAWING



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