



SUBMERSIBLE RANGE





SUBMERSIBLE RANGE
B-SERIES RAW SEWAGE

B-SERIES SUBMERSIBLE RANGE

Raw Sewage: 5.5 - 22kW



Performance range

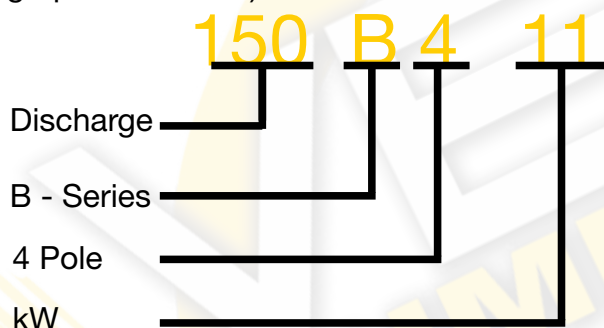
Maximum Head:	42m
Maximum Flow:	550m ³ /h
Power:	5.5-22kW
Motor Speed:	2 Pole 4 Pole

Operating conditions

Liquid temperature:	up to 40°C
Density of liquid:	1.3g/cm ³
PH:	6 to 10
Protection class:	IP68, Class F
Maximum immersion depth:	20m
Cable length:	8m

Materials of construction

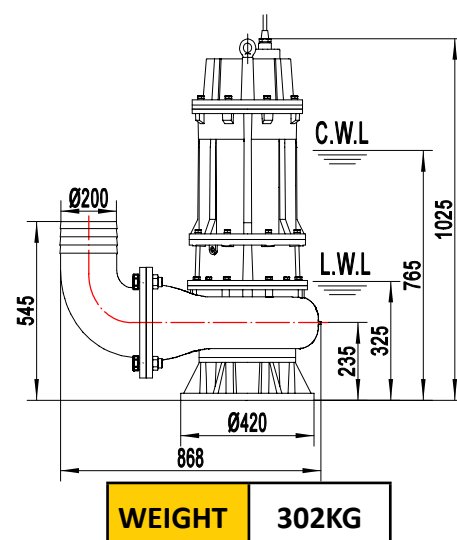
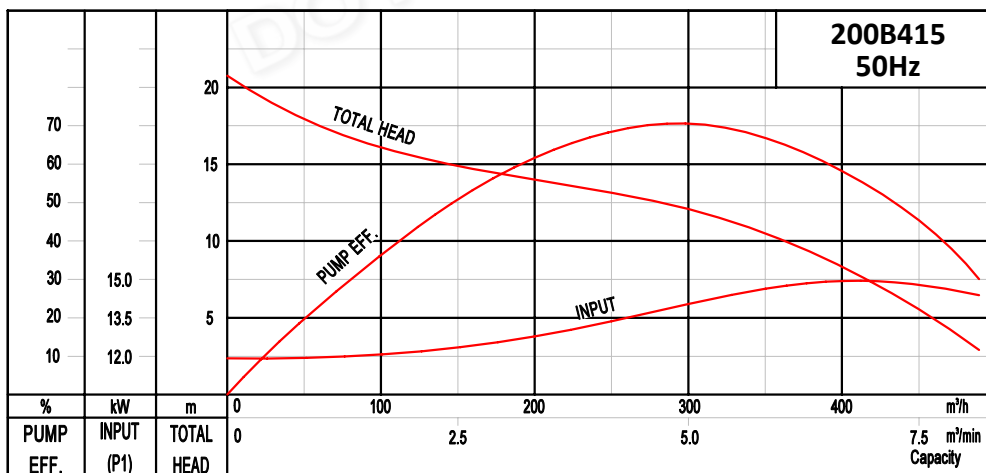
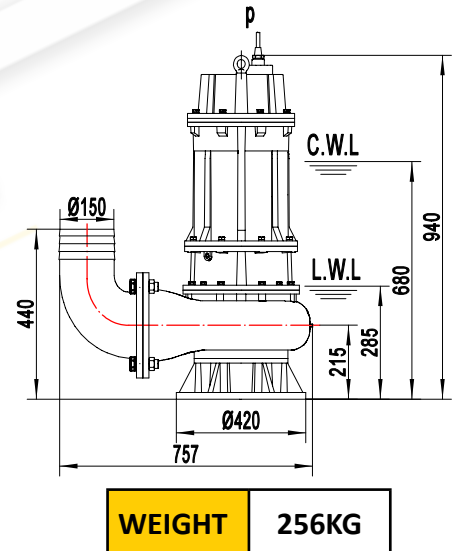
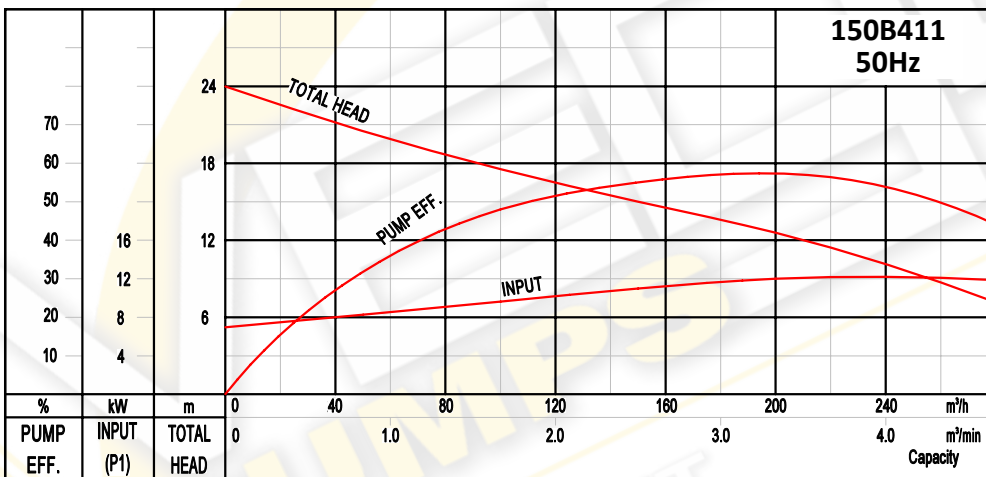
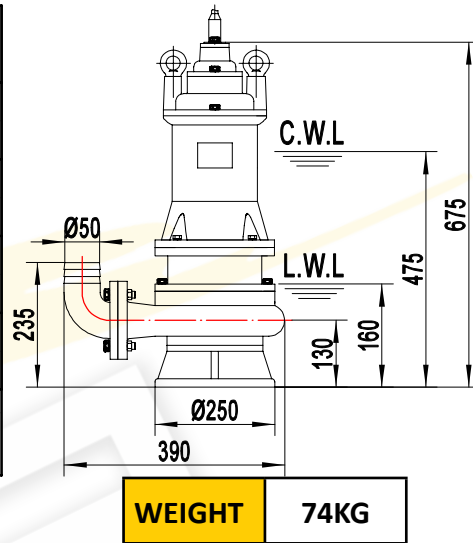
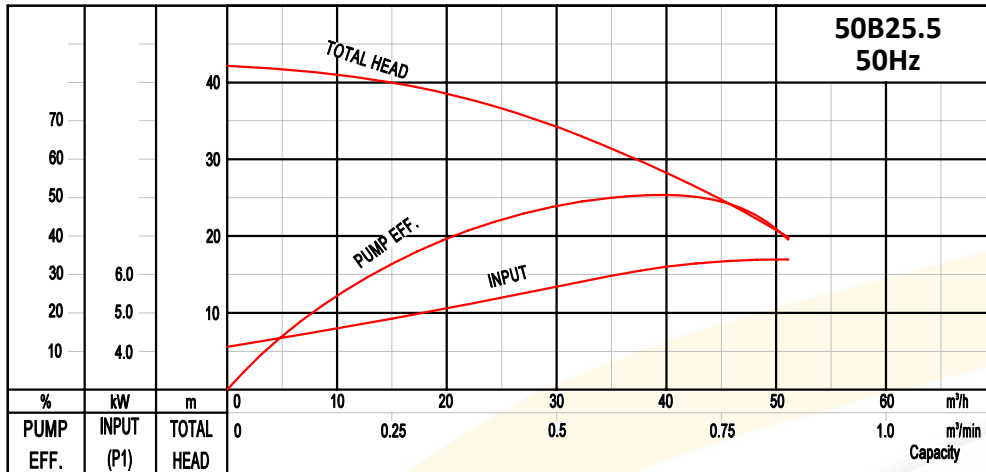
Cast iron pump construction.
Cast iron impeller construction, open type single channel.
Integrated cutter mechanism located on pump inlet.
Double mechanical shaft seal (silicon carbide-silicon carbide/carbon graphite-ceramic).



Duckfoot

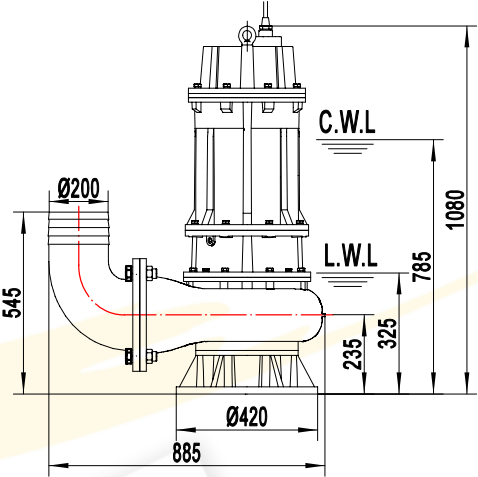
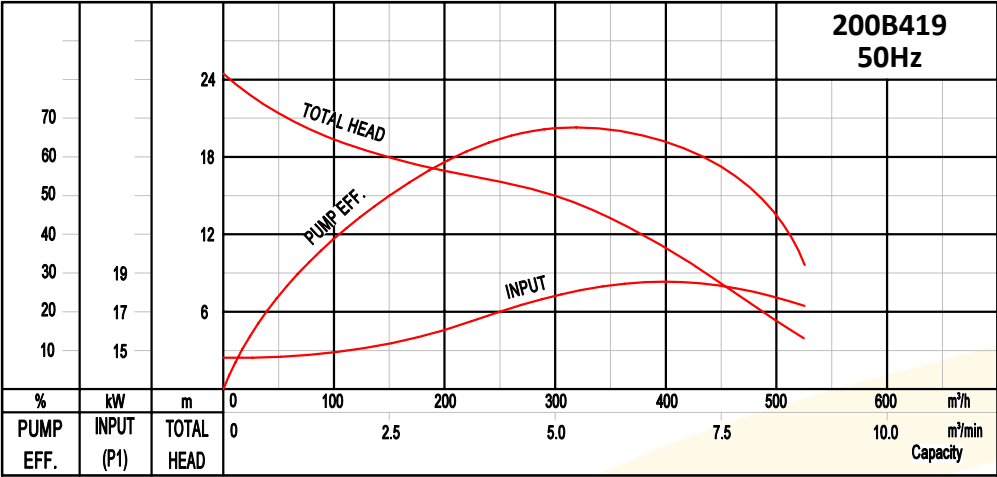
MODEL	VOLTAGE	CURRENT	MOTOR POWER		OUTLET		MAX FLOW	MAX HEAD	IMPELLER PASSAGE	CABLE
	V	A	kW	HP	INCH	MM	m ³ /h	m	mm	mm ²
50B25.5	380	11.7	5.5	7.5	2	50	52	42	20	4G2.5
150B411	380	22	11	15	6	150	260	24	65	4G4.0
200B415	380	30.1	15	20	8	200	490	21	70	4G6.0
200B419	380	38	19	25	8	200	530	25	70	4G10.0
150B422	380	45	22	30	8	200	330	39	60	4G10.0
200B422	380	45	22	30	8	200	550	27	70	4G10.0

MODEL	N.W	G.W	PACKING DIMENSIONS
	kg	kg	mm
50B255	74	81	790*290*355
150B411	256	274	700*470*1155
200B415	302	321	700*500*1245
200B419	354	373	740*510*1305
150B422	347	367	700*480*1265
200B422	374	394	740*510*1305

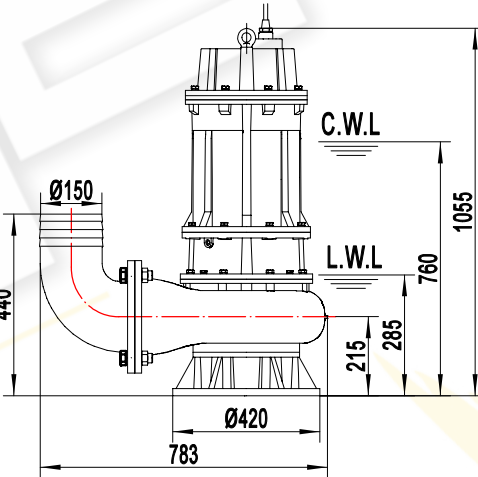
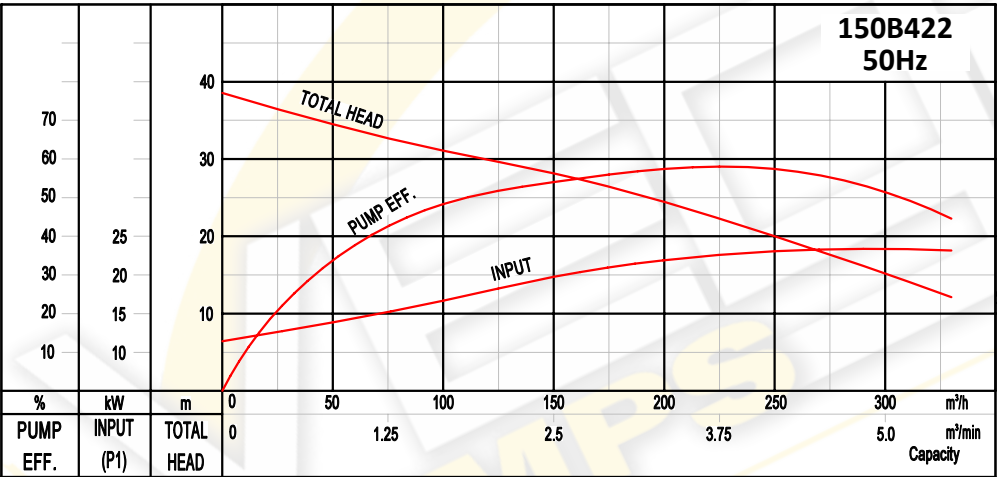


PERFORMANCE CURVE

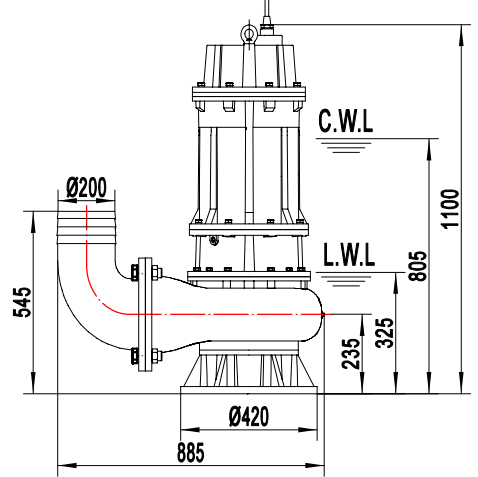
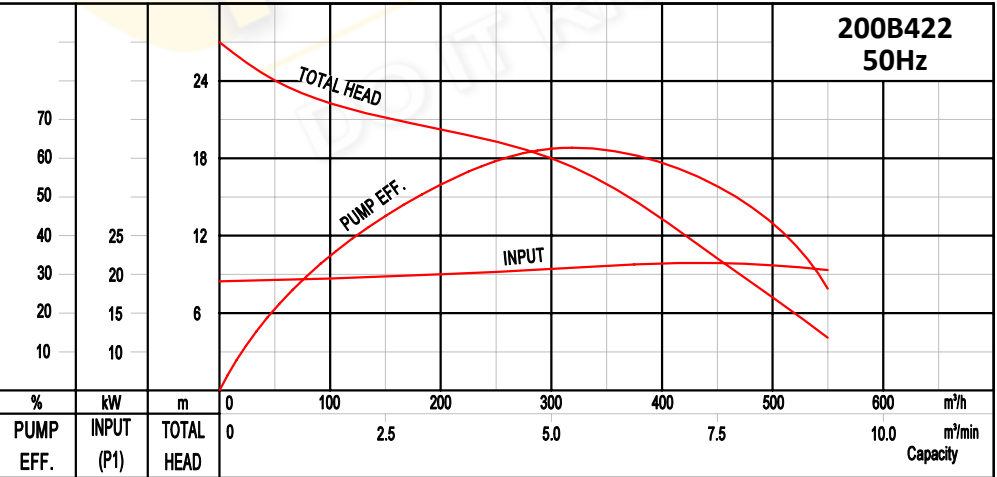
B Series



WEIGHT	354KG
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WEIGHT	347KG
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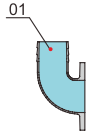


WEIGHT	374KG
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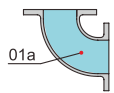
B-SERIES SUBMERSIBLE RANGE

EXPLODED VIEW

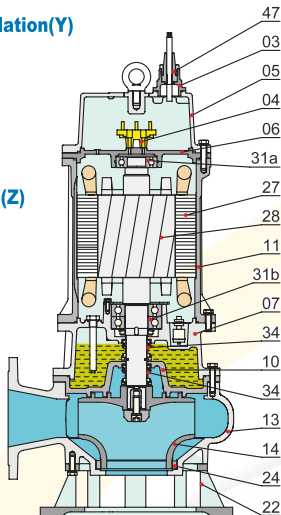
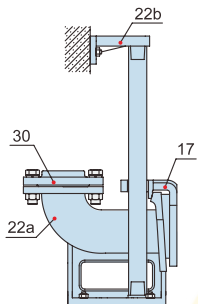
Movable Soft Pipe Installation (R)



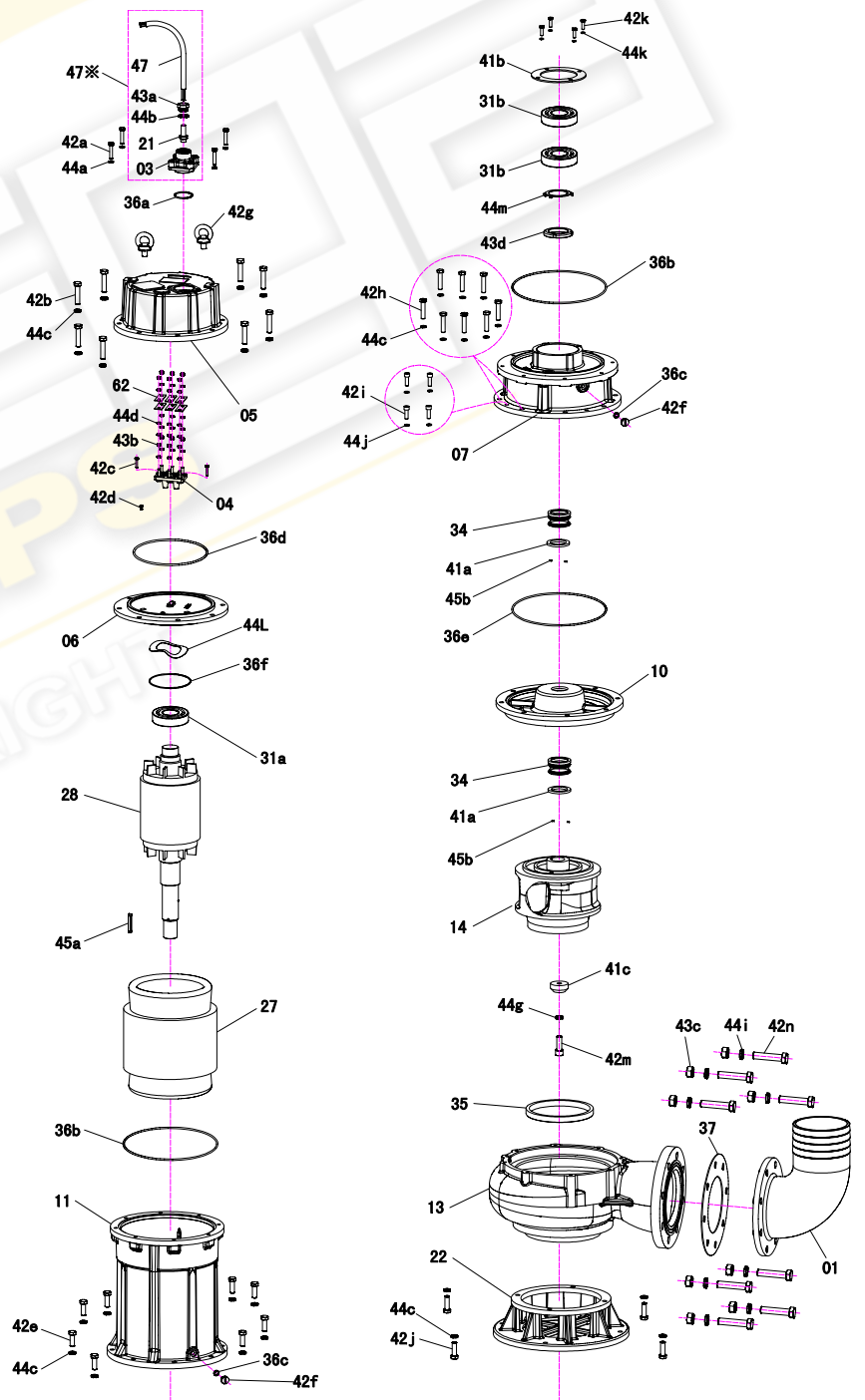
Movable Hard Pipe Installation (Y)



Auto-coupled Installation (Z)



ITEM No.	PART NAME	MATERIAL	ITEM No.	PART NAME	MATERIAL
01	HOSE COUPLING	CAST IRON	22a	COUPLING SEAT	CAST IRON
01a	HOSE COUPLING	CAST IRON	22b	UPPER GUIDE SUPPORT	CAST IRON
03	TERMINAL BOX	CAST IRON	27	STATOR	
05	UPPER COVER	CAST IRON	28	ROTOR	SHAFT: AISI304SS
06	UP-BEARING HOUSE	CAST IRON	30	FLANGE	CAST IRON
07	BEARING HOUSE	CAST IRON	31a	BEARING	BALL BEARING
11	MOTOR BODY	CAST IRON	31b	BEARING	BALL BEARING
13	PUMP BODY	CAST IRON	33	MOTOR PROTECTOR	
14	IMPELLER	CAST IRON	34	MECHANICAL SEAL	SIC-SIC/CARBON-CERAMIC
16	INLET PLATE	CAST IRON	35	OIL SEAL	
17	COUPLING ADAPTER	CAST IRON	47	CABLE	
22	SEAT ASSEMBLY	CAST IRON			



B-SERIES SUBMERSIBLE RANGE

EXPLODED VIEW



Index	Part name	Qty	Material
01	Hose coupling	1	Cast iron
03	Terminal box	1	Cast iron
04	Wire holder	1	
05	Upper cover	1	Cast iron
06	Up-Bearing house	1	Cast iron
07	Bearing house	1	Cast iron
10	Seal bracket	1	Cast iron
11	Motor body	1	Cast iron
13	Pump body	1	Cast iron
14	Impeller	1	Ductile iron
21	Cable tube	1	NBR
22	Seat assembly	1	Cast iron
27	Stator	1	
28	Rotor	1	
31a	Bearing	1	
31b	Bearing	2	
34	Mechanical seal	2	Sic-Sic
35	Neck ring	1	High chrome alloy
36a	O-ring	1	NBR
36b	O-ring	2	NBR
36c	O-ring	2	NBR
36d	O-ring	1	NBR
36e	O-ring	1	NBR
36f	O-ring	1	NBR
37	Gasket	1	NBR
41a	Mechanical seal fixing plate	2	AISI304SS
41b	Bearing fixing plate	1	
41c	Pressing block	1	AISI304SS
47	Cable	1	AISI304SS
47	Cable-Terminal box assembly	1	
62	Connecting terminal	6	

Index	Part name	Qty	Material
42a	Bolt	4	AISI304SS
42b	Bolt	8	AISI304SS
42c	Screw	2	
42d	Screw	1	
42e	Bolt	8	AISI304SS
42f	Screw	2	
42g	Screw	2	AISI304SS
42h	Bolt	8	AISI304SS
42i	Screw	4	AISI304SS
42j	Bolt	4	AISI304SS
42K	Bolt	4	AISI304SS
42m	Screw	1	AISI304SS
42n	Bolt	4 or 8	
43a	Cable nut	1	
43b	Nut	12	
43c	Nut	4 or 8	
43d	Nut	1	
44a	Spring washer	4	AISI304SS
44b	Washer	1	AISI304SS
44c	Spring washer	28	AISI304SS
44d	Washer	24	
44g	Spring washer	1	AISI304SS
44i	Spring washer	4 or 8	
44j	Spring washer	4	AISI304SS
44k	Spring washer	4	AISI304SS
44L	Wave pad	1	65Mn
44m	Profiled pad	1	65Mn
45a	Key	1	AISI304SS
45b	Key	4	AISI304SS
47	Cable	1	AISI304SS
47	Cable-Terminal box assembly	1	
62	Connecting terminal	6	



SUBMERSIBLE RANGE
C-SERIES RAW SEWAGE

C-SERIES SUBMERSIBLE RANGE

Raw Sewage: 1.1 - 7.5kW



Design

The C Range of raw sewage / sludge pumps feature an adjustable bottom plate to maintain efficiency by maintaining the preferred clearance in relation to the channel impeller. The inlet opening is shaped like a star and grabs stringy solids entering the pump. As the open vane impeller rotates, it effectively cuts all stringy solids (held by the inlet plate) to manageable sizes, before allowing access to the pump volute.

Performance range

Maximum Head: 30m
 Maximum Flow: 120m³/h
 Power: 1.1 - 7.5kW
 Motor Speed: 2 Pole

Operating conditions

Liquid temperature: up to 40°C
 Density of liquid: 1.3g/cm³
 PH: 6 to 10
 Protection class: P68, Class B
 Maximum immersion depth: 10m
 Cable length: 8m

Materials of construction

Cast iron pump construction.
 Cast iron impeller construction, open type single channel.
 Integrated cutter mechanism located on pump inlet.
 Double mechanical shaft seal (silicon carbide-silicon carbide/carbon graphite-ceramic).



Static Ripper Plate



Duckfoot

8 0 C 2 2 . 2

Discharge

C - Series

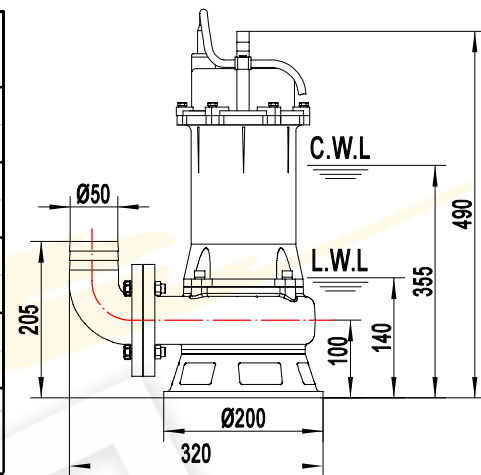
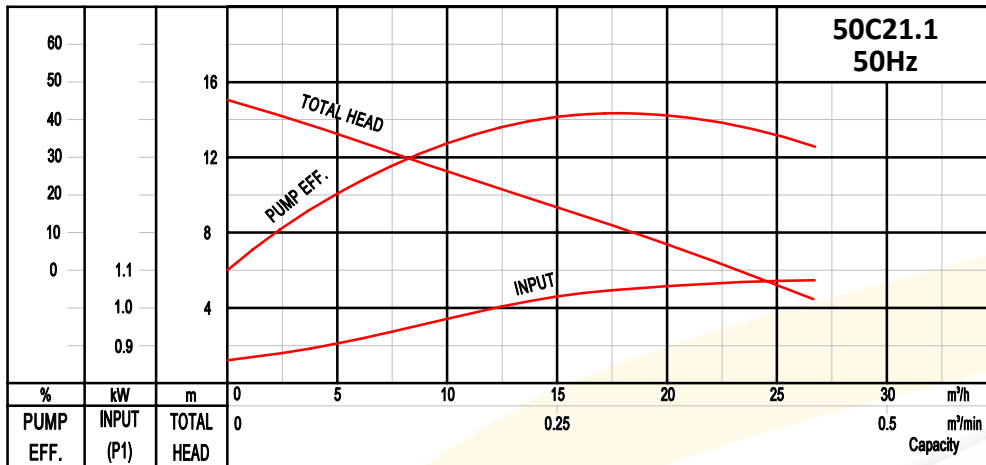
2 Pole

kW

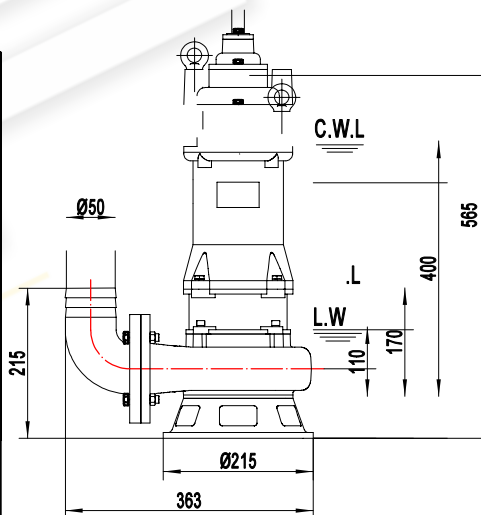
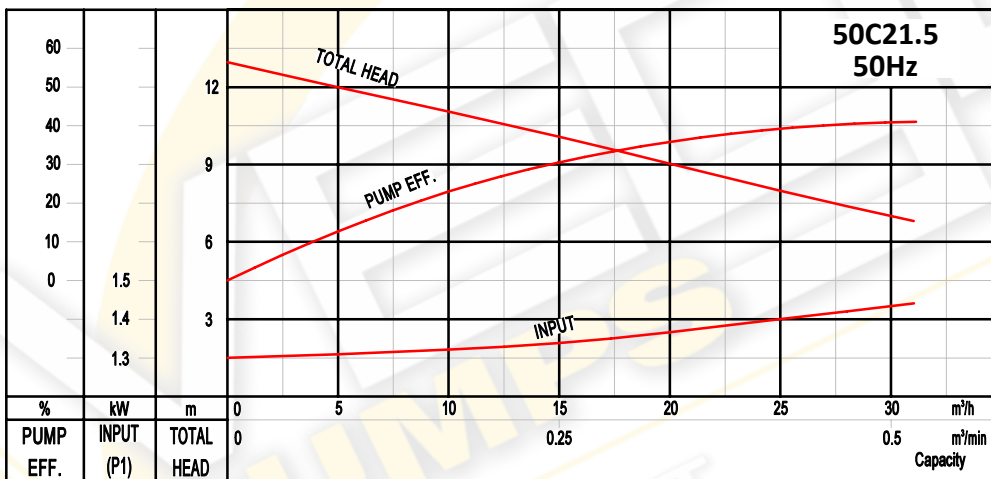
MODEL	VOLTAGE	CURRENT	MOTOR POWER		OUTLET		MAX FLOW	MAX HEAD	IMPELLER PASSAGE	CABLE
	V	A	kW	HP	INCH	MM	m³/h	m	mm	mm²
50C21.1S	220	7.2	1.1	1.5	2	50	27	15	20	3G1.0
50C21.1	380	2.8	1.1	1.5	2	50	27	15	20	4G1.0
50C21.5	380	3.2	1.5	2	2	50	31	13	40	4G1.0
50C22.2	380	5	2.2	3	2	50	35	17	40	4G1.0
80C23.0	380	6.5	3.0	4	3	80	67	21	30	4G1.5
80C24.0	380	8.9	4.0	5.5	3	80	79	24	30	4G1.5
100C25.5	380	11.7	5.5	7.5	4	100	107	27	35	4G2.5
100C27.5	380	15.7	7.5	10	4	100	135	30	50	4G2.5

PERFORMANCE CURVE

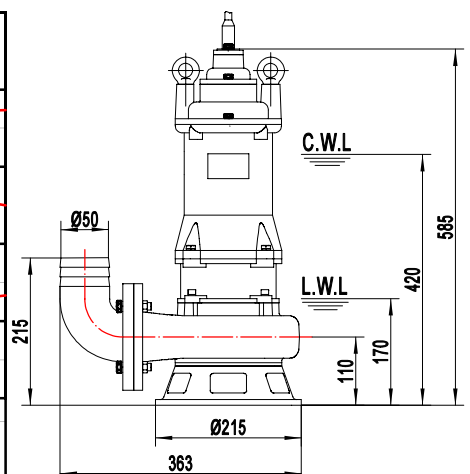
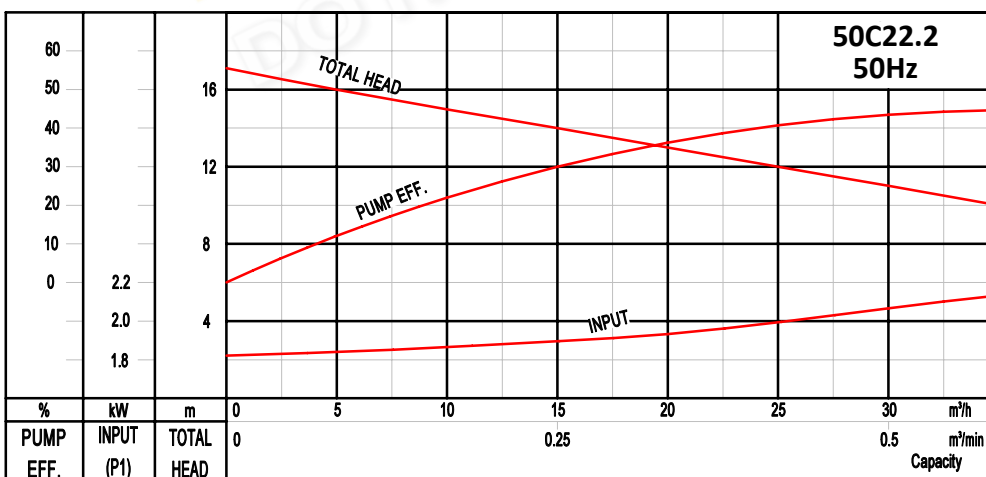
PERFORMANCE CURVE & DIMENSIONS



WEIGHT 29KG



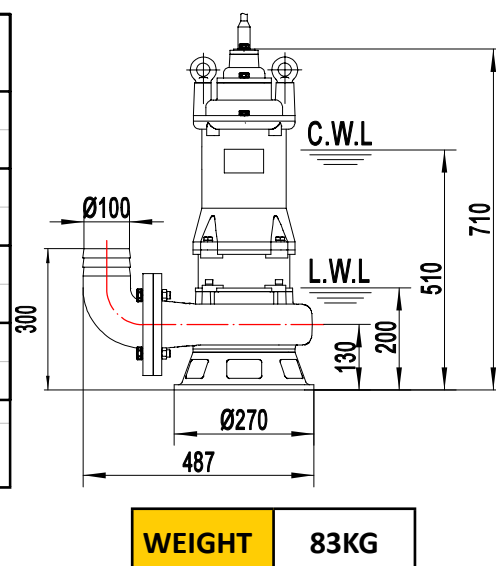
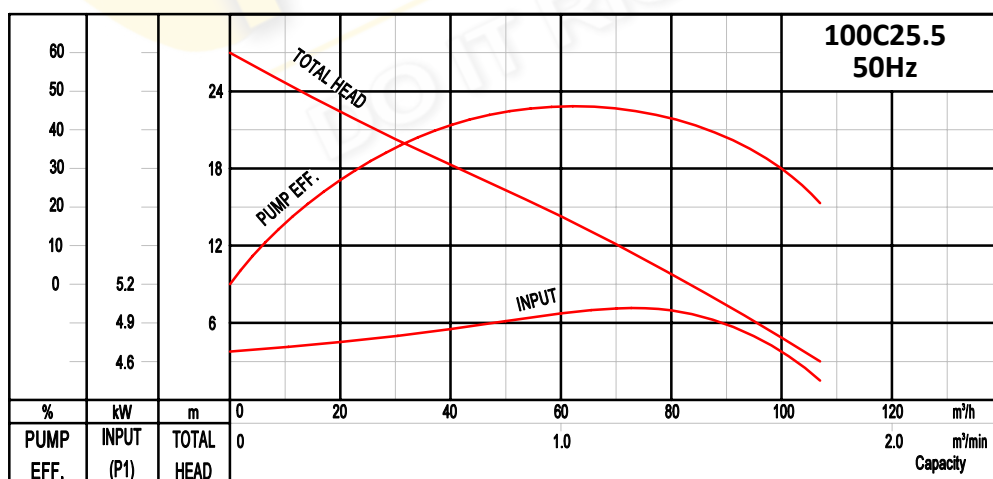
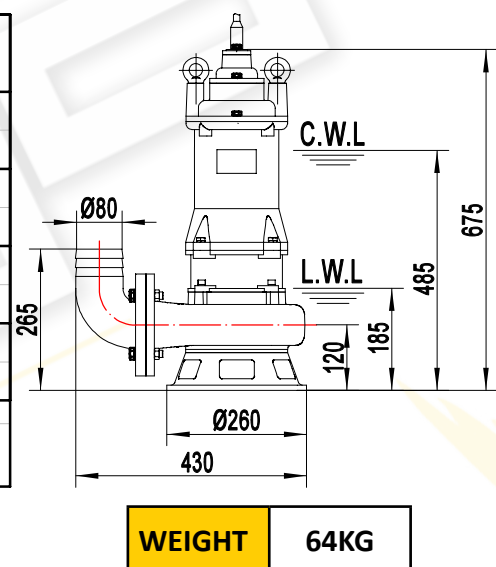
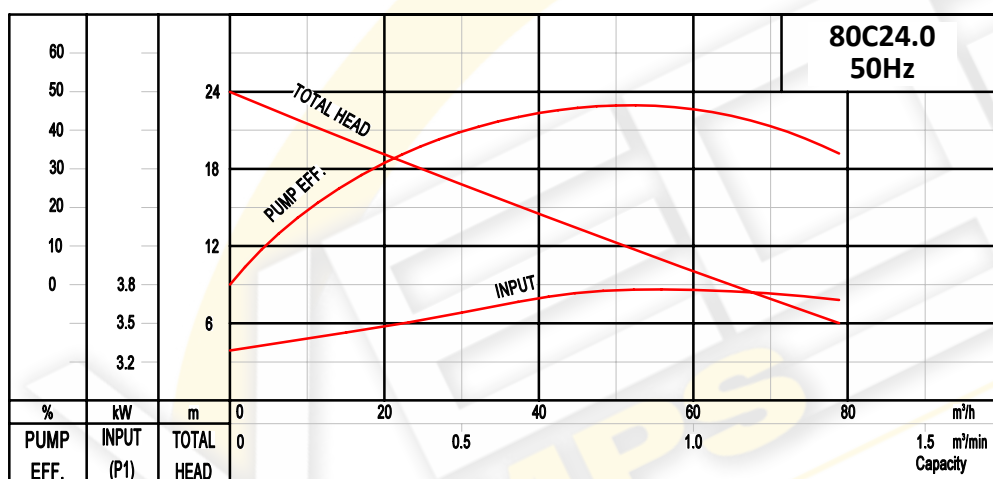
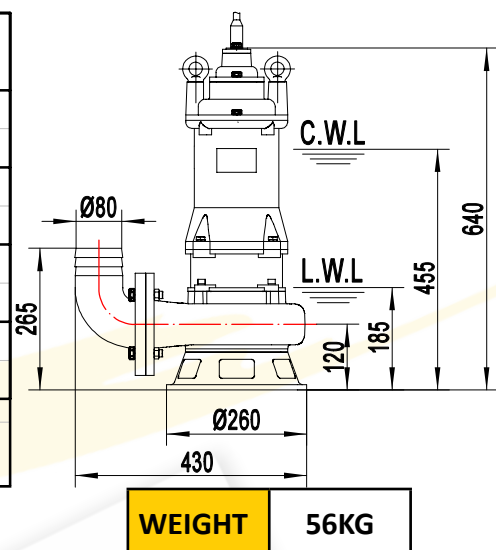
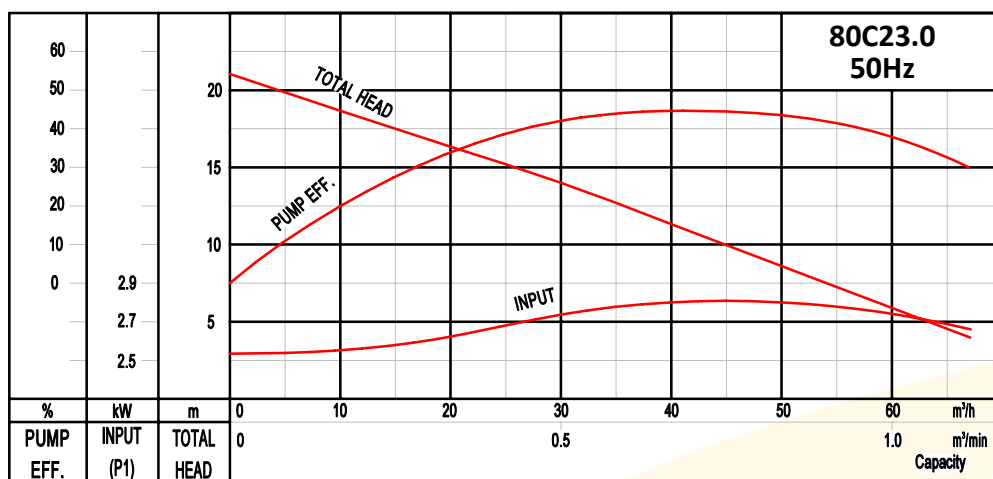
WEIGHT 39KG



WEIGHT 41KG

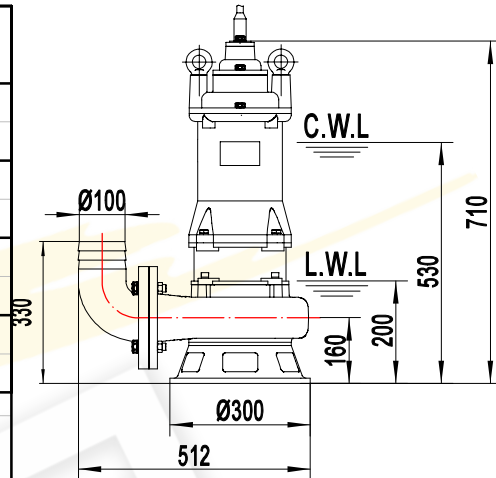
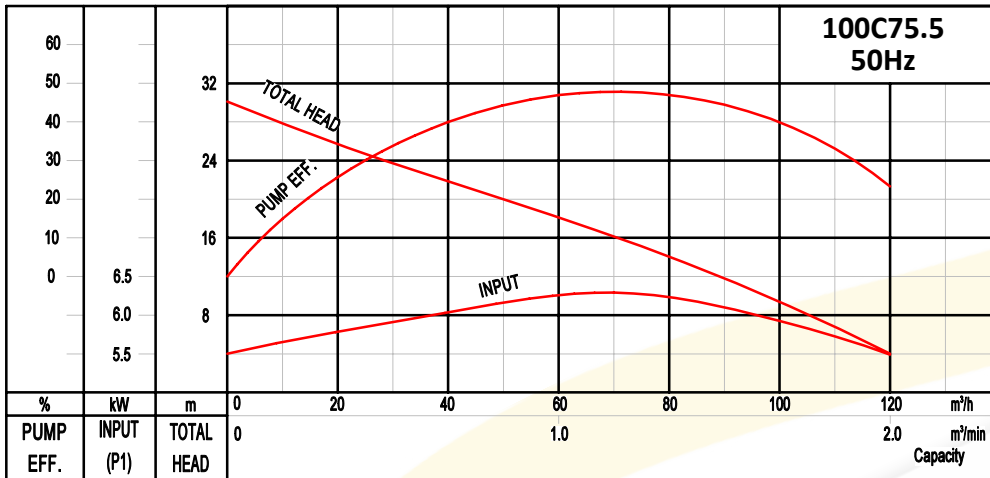
PERFORMANCE CURVE

PERFORMANCE CURVE & DIMENSIONS



PERFORMANCE CURVE

PERFORMANCE CURVE & DIMENSIONS



WEIGHT 95KG

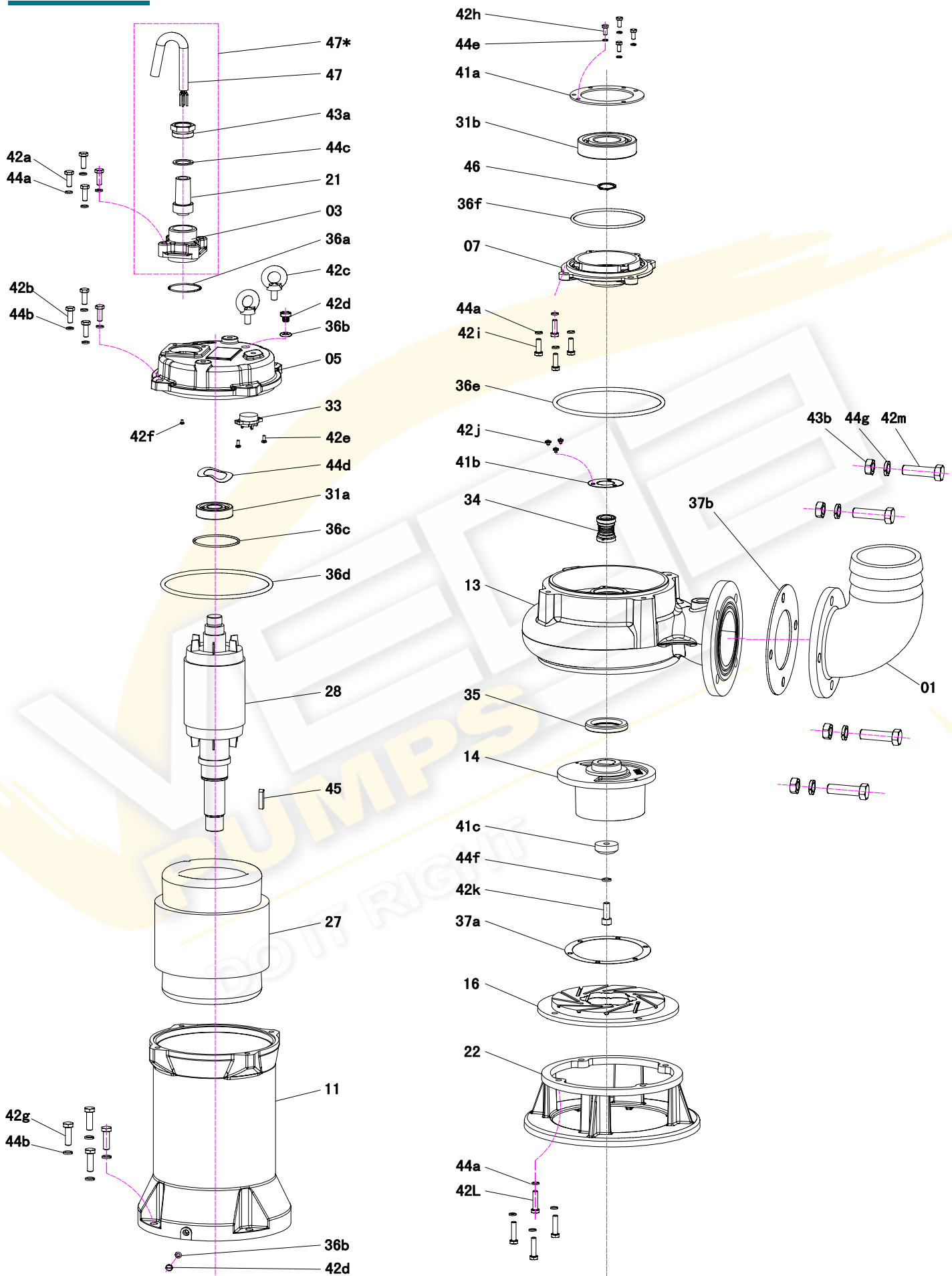
EXPLODED VIEW

Index	Part name	Qty	Material
01	Hose coupling	1	Cast iron
03	Terminal box	1	Cast iron
05	Upper cover	1	Cast iron
07	Bearing house	1	Cast iron
11	Motor body	1	Cast iron
13	Pump body	1	Cast iron
14	Impeller	1	Cast iron
16	Inlet plate	1	Ductile iron
21	Cable tube	1	NBR
22	Seat assembly	1	Cast iron
27	Stator	1	
28	Rotor	1	
31a	Bearing	1	
31b	Bearing	1	
33	Motor protector	1	
34	Mechanical seal	1	Sic-Sic/Car-Cer
35	Oil seal	1	
36a	O-ring	1	NBR
36b	O-ring	2	NBR
36c	O-ring	1	NBR
36d	O-ring	1	NBR
36e	O-ring	1	NBR
36f	O-ring	1	NBR
37a	Gasket	0 - 3	PVC
37b	Gasket	1	NBR
41a	Bearing fixing plate	1	
41b	Mechanical Seal fixing plate	1	

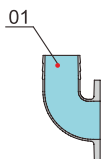
Index	Part name	Qty	Material
41c	Pressing block	1	
42a	Bolt	4	AISI304SS
42b	Bolt	4	AISI304SS
42c	Screw	2	
42d	Screw	2	AISI304SS
42e	Screw	2	
42f	Screw	1	
42g	Bolt	4	AISI304SS
42h	Bolt	4	
42i	Bolt	4	
42j	Screw	3	
42k	Screw	1	AISI304SS
42L	Bolt	4	AISI304SS
42m	Bolt	4	
43a	Nut	1	
43b	Nut	4	
44a	Spring wash er	12	AISI304SS
44b	Spring wash er	8	AISI304SS
44c	Washer	1	AISI304SS
44d	Wave pad	1	65Mn
44e	Spring wash er	4	
44f	Spring wash er	1	AISI304SS
44g	Spring wash er	4	
45	Key	1	AISI304SS
46	Circlips for holes	1	65Mn
47	Cable	1	
47	Cable assembly	1	

C-SERIES SUBMERSIBLE RANGE

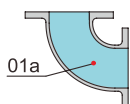
EXPLODED VIEW



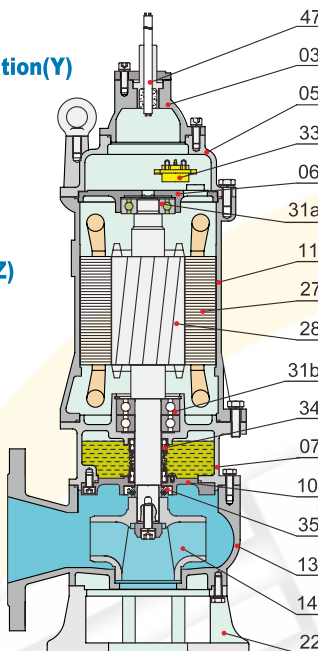
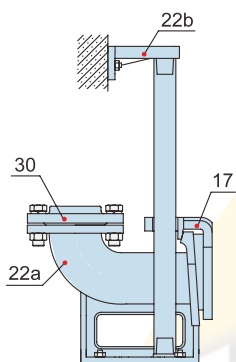
Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation(Y)



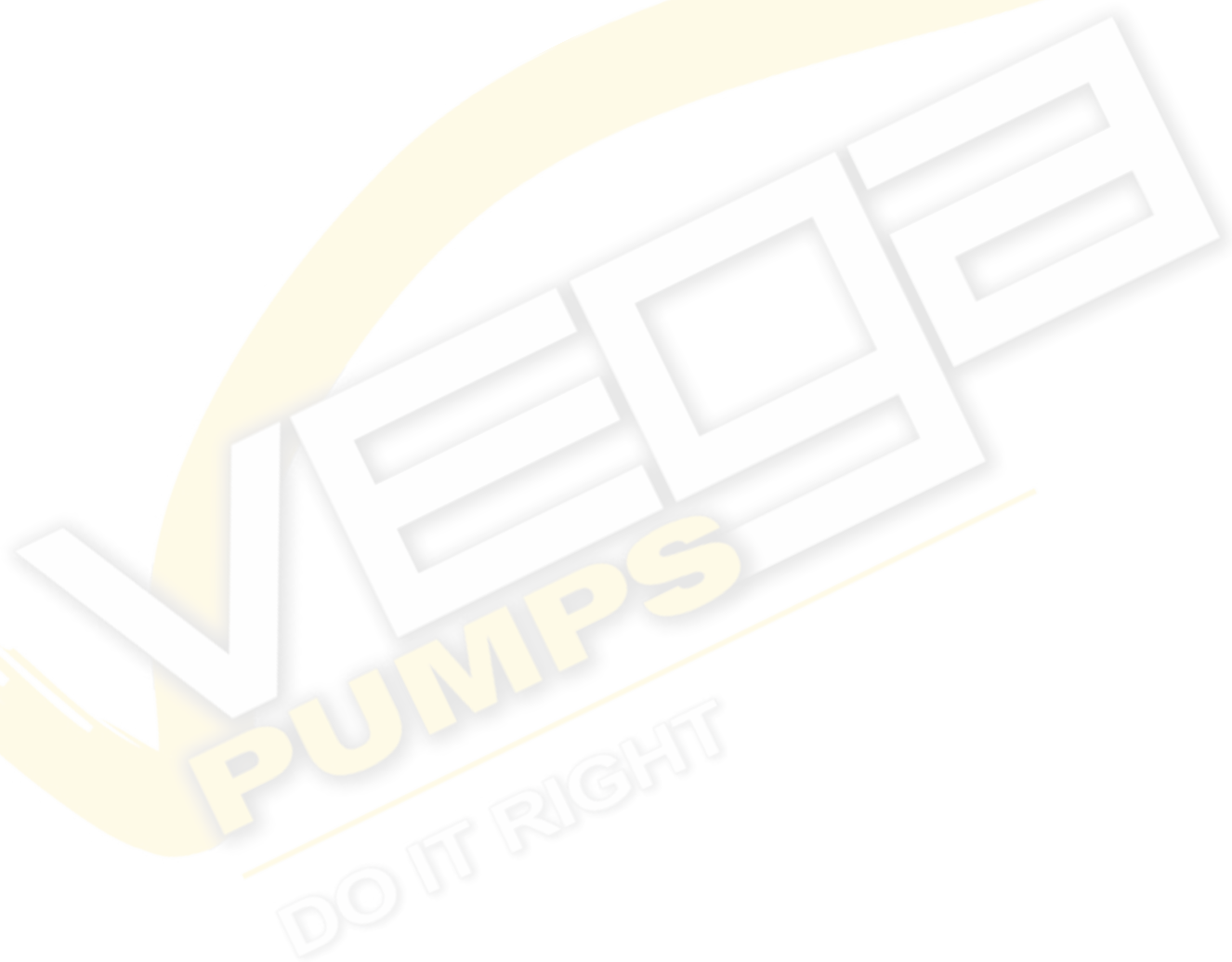
Auto-coupled Installation (Z)



ITEM No.	PART NAME	MATERIAL
01	HOSE COUPLING	CAST IRON
01a	HOSE COUPLING	CAST IRON
03	TERMINAL BOX	CAST IRON
05	UPPER COVER	CAST IRON
06	UP-BEARING HOUSE	CAST IRON
07	BEARING HOUSE	CAST IRON
11	MOTOR BODY	CAST IRON
13	PUMP BODY	CAST IRON
14	IMPELLER	CAST IRON
16	INLET PLATE	CAST IRON
17	COUPLING ADAPTER	CAST IRON
22	SEAT ASSEMBLY	CAST IRON
22a	COUPLING SEAT	CAST IRON
22b	UPPER GUIDE SUPPORT	CAST IRON
27	STATOR	
28	ROTOR	SHAFT: AISI304SS
30	FLANGE	CAST IRON
31a	BEARING	BALL BEARING
31b	BEARING	BALL BEARING
33	MOTOR PROTECTOR	
34	MECHANICAL SEAL	SIC-SIC/CARBON-CERAMIC
35	OIL SEAL	
47	CABLE	

Weights & Packing Dimensions

MODEL	N.W	G.W	PACKING DIMENSIONS
	kg	kg	mm
50C21.1	27	28.5	540*245*250
50C21.5	39	43.5	680*250*325
50C22.2	46	50.5	700*250*325
80C23.0	56	62	760*300*355
80C24.0	64	70	800*300*355
100C25.5	83	89	830*320*355
100C27.5	95	105	834*314*400





FOUNTAIN RANGE
HB & JHQ

FOUNTAIN PUMP

HB



Application

These pumps can be used in water features, fountains, aquariums and ponds for circulation.

They are highly energy efficient and have a long service life.

Performance range

Maximum head: 2.7m
Maximum flow: 1500L/h
Power: 13.5W TO 27W

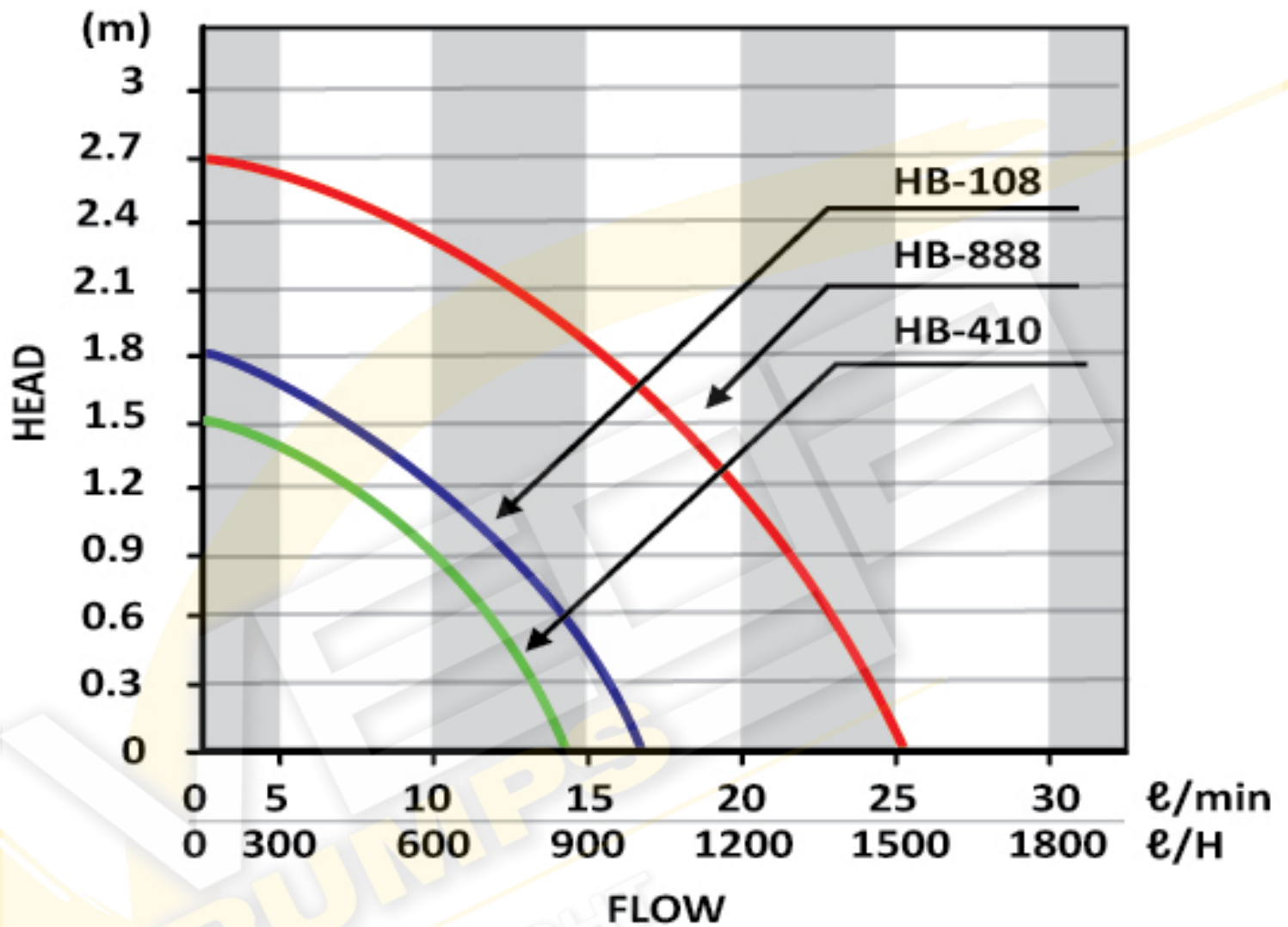
Operating limits

Maximum liquid temperature: 40°C
Length of operating time: Continuous duty



Performance chart

MODEL	OUTPUT POWER (W)	MAX HEAD (m)	MAX FLOW (l/h)	CABLE LENGTH (m)	PLUG
HB-410	13.5	1.5	800	1.5	2 point
HB-888	16.5	1.8	1000	1.5	2 point
HB-108	27	2.6	1500	1.5	2 point



FOUNTAIN PUMP

JHQ



Application

These pumps can be used in water features, fountains, aquariums and ponds for circulation.

They are highly energy efficient and have a long service life.

Performance range

Maximum head:	2.5m
Maximum flow:	2000L/h
Power:	55W



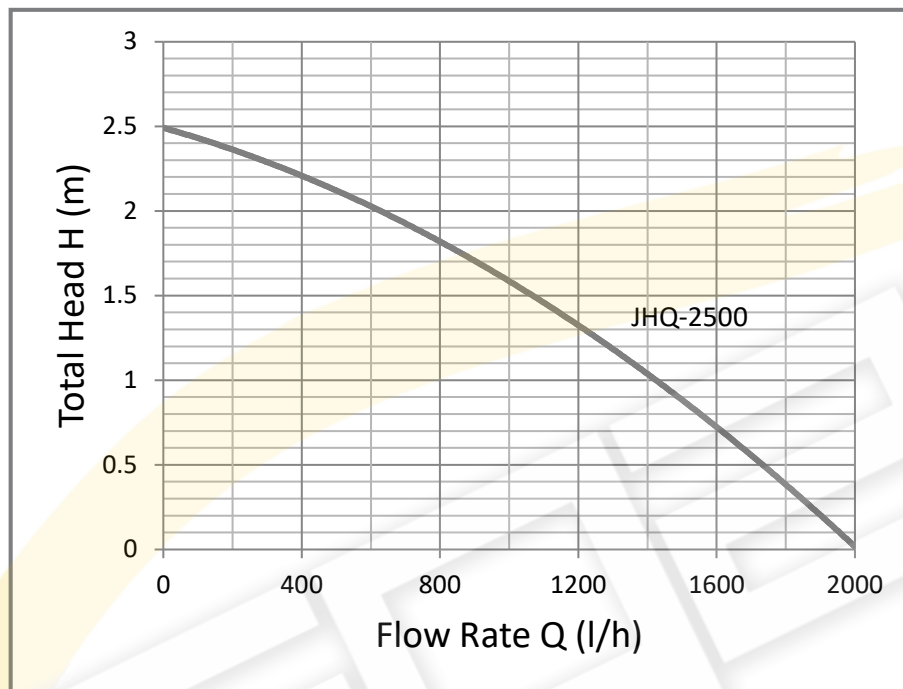
Operating limits

Maximum liquid temperature:	40°C
Length of operating time:	Continuous duty

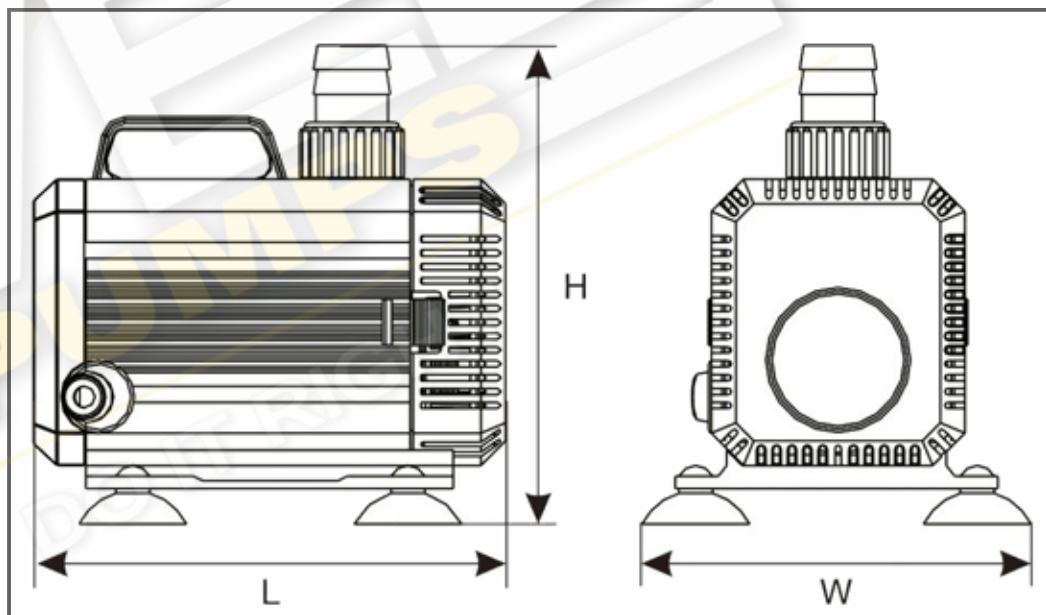
Performance chart

MODEL	OUTPUT POWER (W)	MAX HEAD (m)	MAX FLOW (l/h)	CABLE LENGTH (m)	PLUG	WEIGHT (kg)	DIMENSIONS L x W x H (mm)
JHQ-2500	55	2.5	2000	3	3 point	1.2	153x105x135

Performance curves

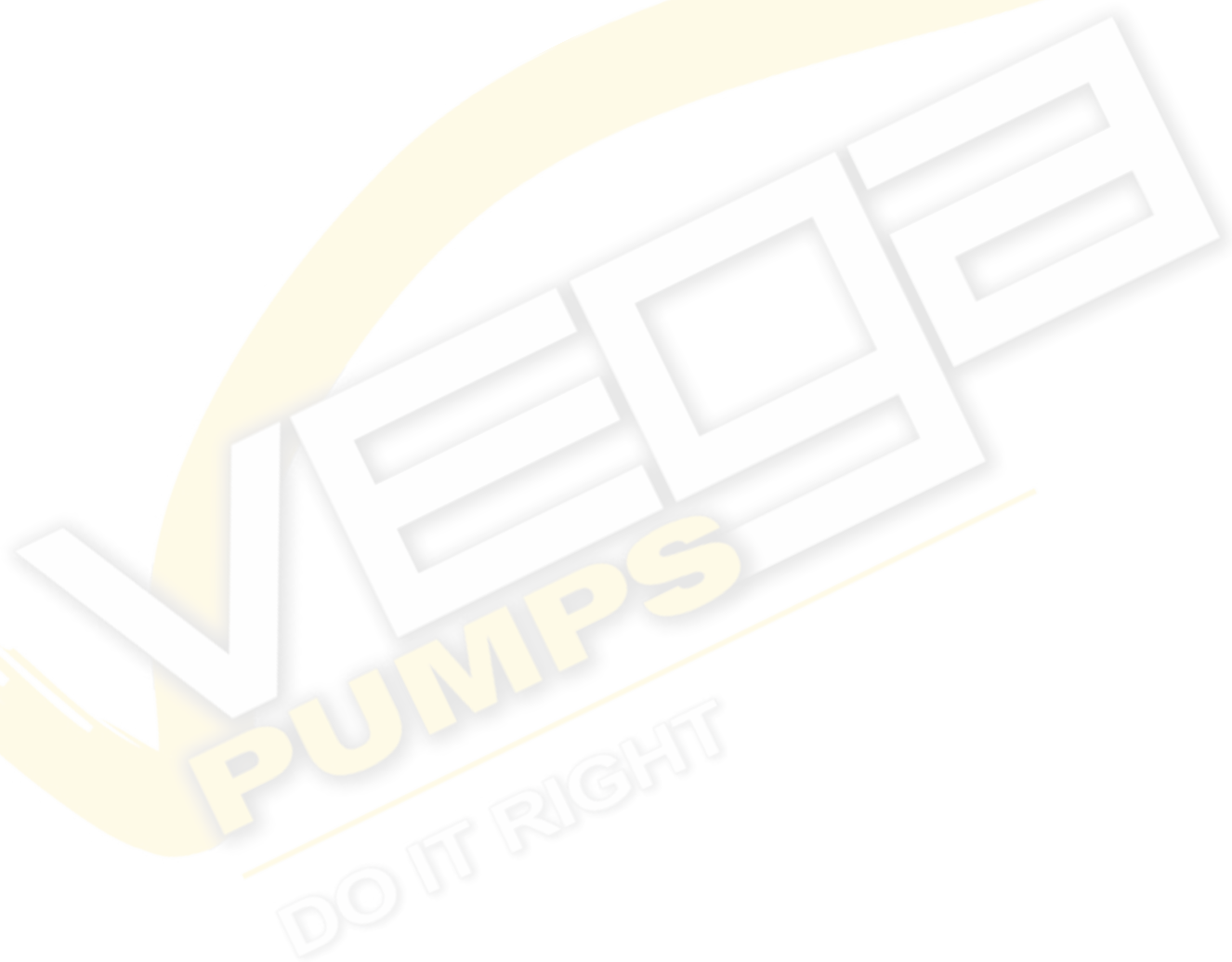


Diagram



Dimensions

MODEL	WEIGHT	L	W	H
JHQ-2500	1.2kg	153mm	105mm	135mm





SUBMERSIBLE RANGE
VHM

VHM SUBMERSIBLE RANGE

General Dewatering: 22 - 110kW



General dewatering features:

- Liquid temperature: up to 40°C.
- Solids handling: Ø6 - 20 mm.
- Protection class: IP68, Class B.
- Depth submersion: 30m
- Complete water-tight cable entry sealed with epoxy resin.
- Durable cast iron outer construction case achieves superior heat dissipation.
- Oil-free hermetically sealed, with built-in thermal overload protector.
- Inlet plate and pump casing are made of wear-resistant ductile iron to withstand very abrasive liquids.
- Replaceable and adjustable high chrome wear rings provide increased wear resistance.
- Thermal and amperage protectors can help to prevent motor failure in run-dry or surge conditions.
- High pressure, dual silicon carbide mechanical seals.
- Anti-wicking cable entrance.

Applications:

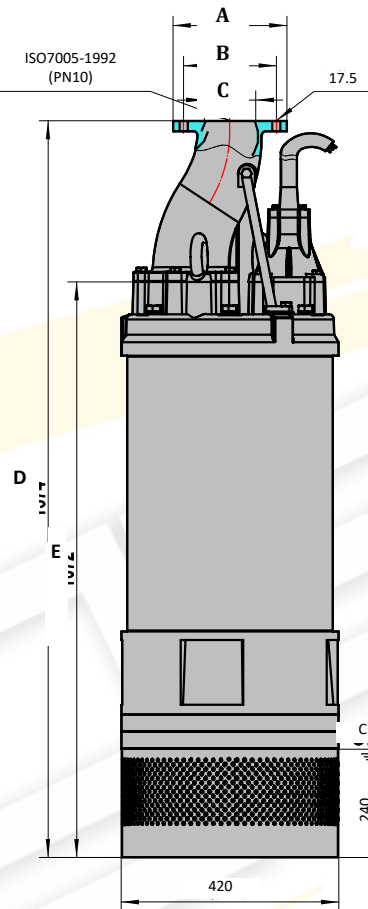
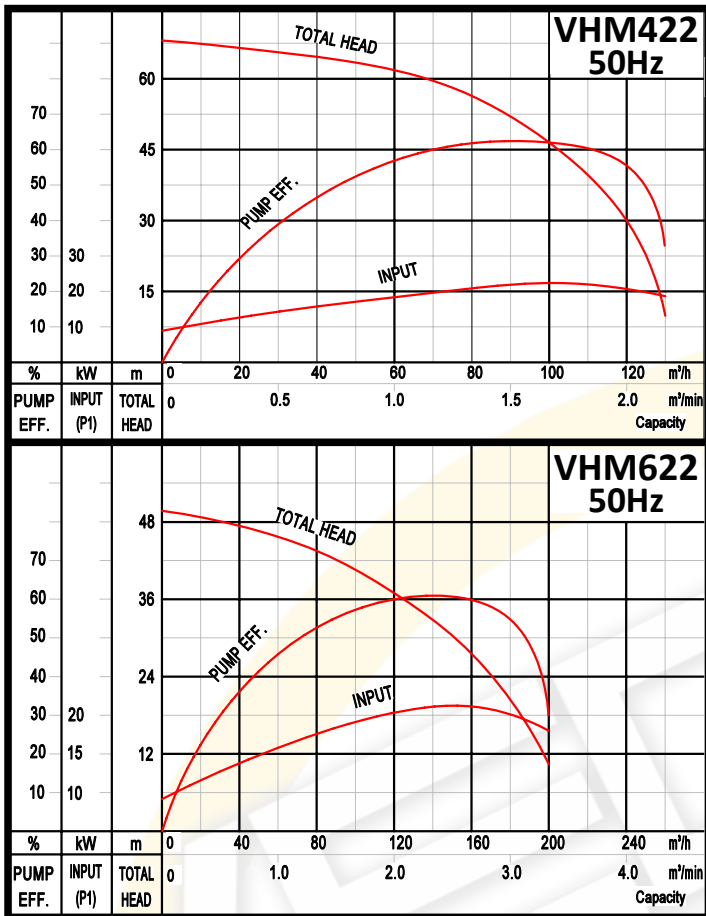
- Used in corrosive applications.
- General construction and civil engineering applications.
- Tunnel and subway construction, mining and reclamation operations.
- Deep well pre-dewatering.
- Dirty water non slurry applications.

Performance:

OUTPUT KW	MODEL	DISCHARGE DIA.MM	BEP HEAD M	BEP FLOW M ³ /H	MAX SOLIDS MM	WEIGHT KG
22	VHM422	100	52.5	90	6	370
22	VHM622	150	33	140	15	385
30	VHM430	100	60	112.5	6	375
30	VHM630	150	45	140	15	390
37	VHM637	150	66	120	6	570
37	VHM837	200	35	216	20	575
45	VHM645	150	68	130	6	575
45	VHM845	200	40	240	20	580
75	VHM675	150	110	120	8	830
75	VHM875	200	63	240	20	880
90	VHM690	150	130	120	10	1100
90	VHM890	200	70	270	20	1120
110	VHM8110	200	85	300	20	1150

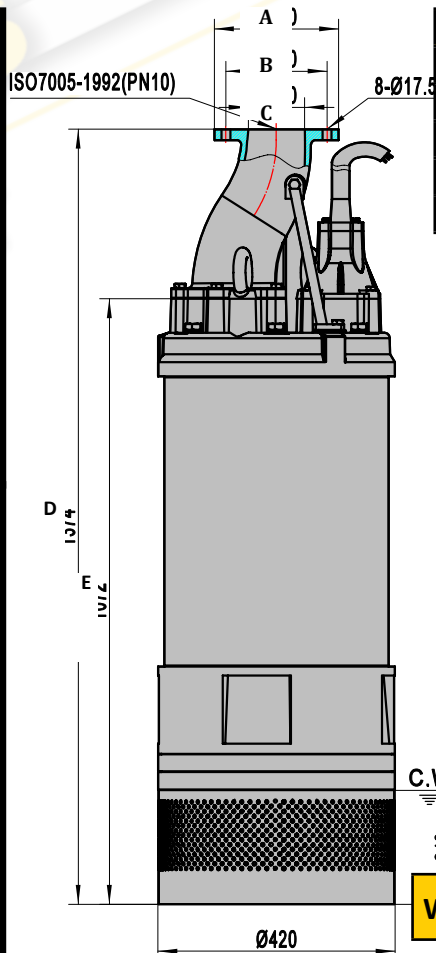
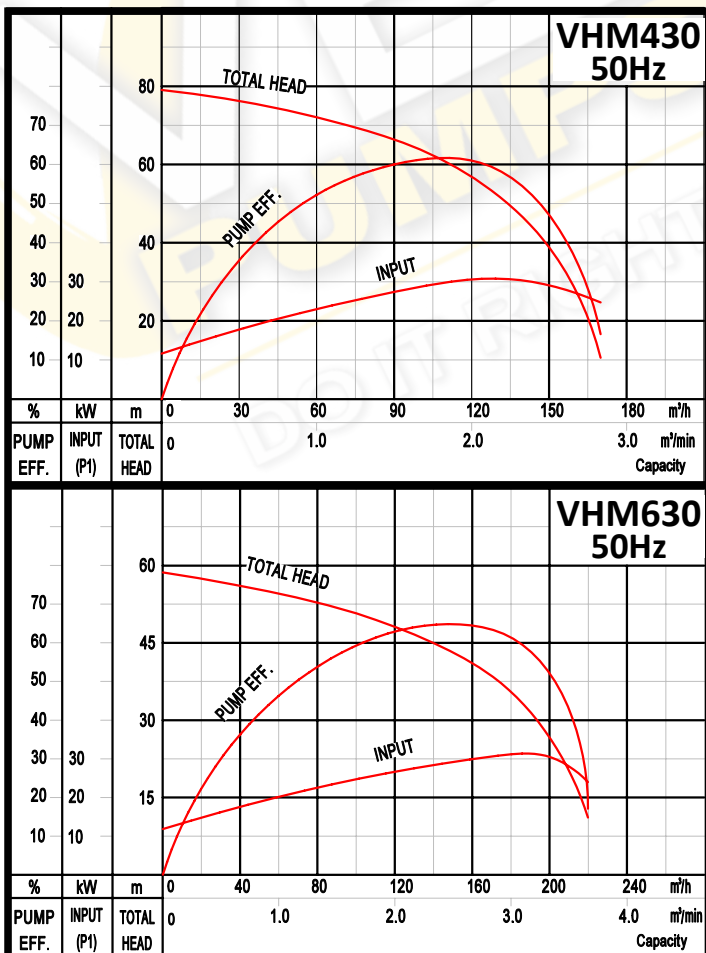
VHM SUBMERSIBLE RANGE

PERFORMANCE CURVE & DIMENSIONS



MODEL	422	622
A	220	285
B	180	240
C	100	150
D	1374	1434
E	1072	1082

WEIGHT	370KG
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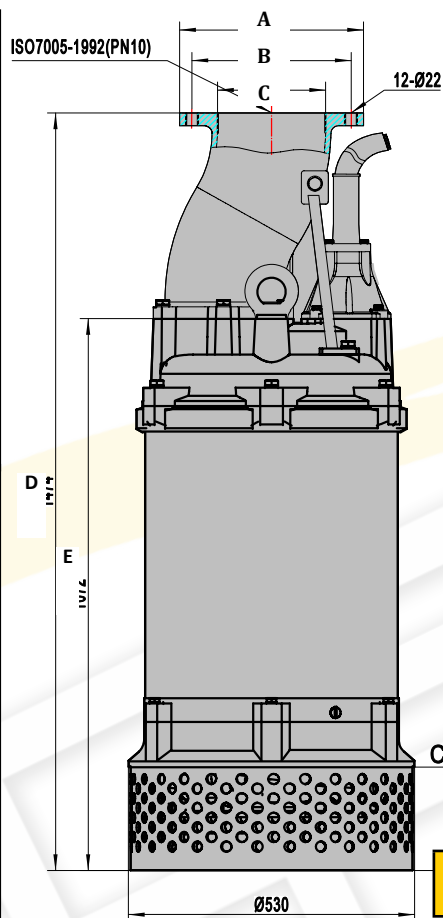
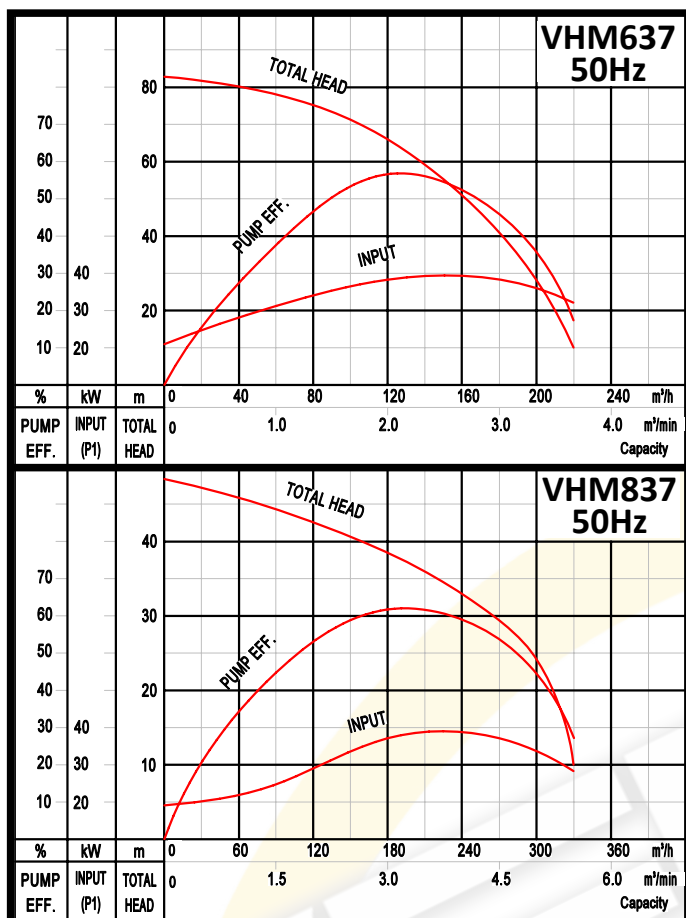


MODEL	430	630
A	220	285
B	180	240
C	100	150
D	1374	1434
E	1072	1082

WEIGHT	375KG
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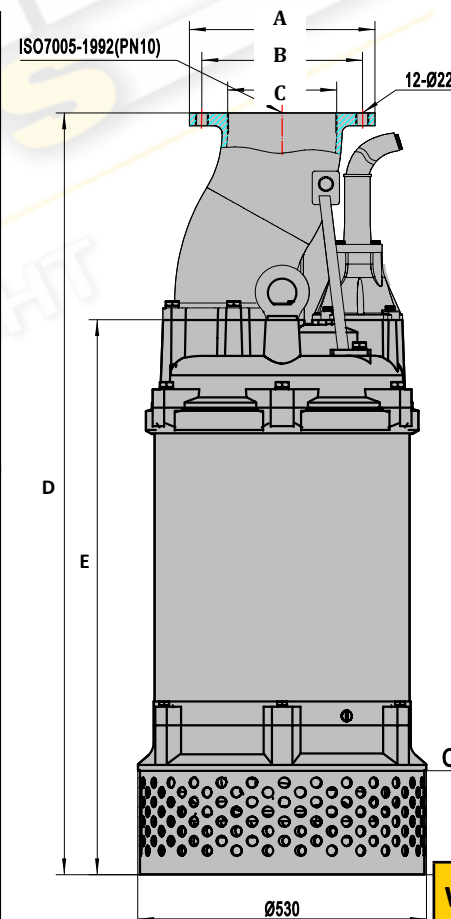
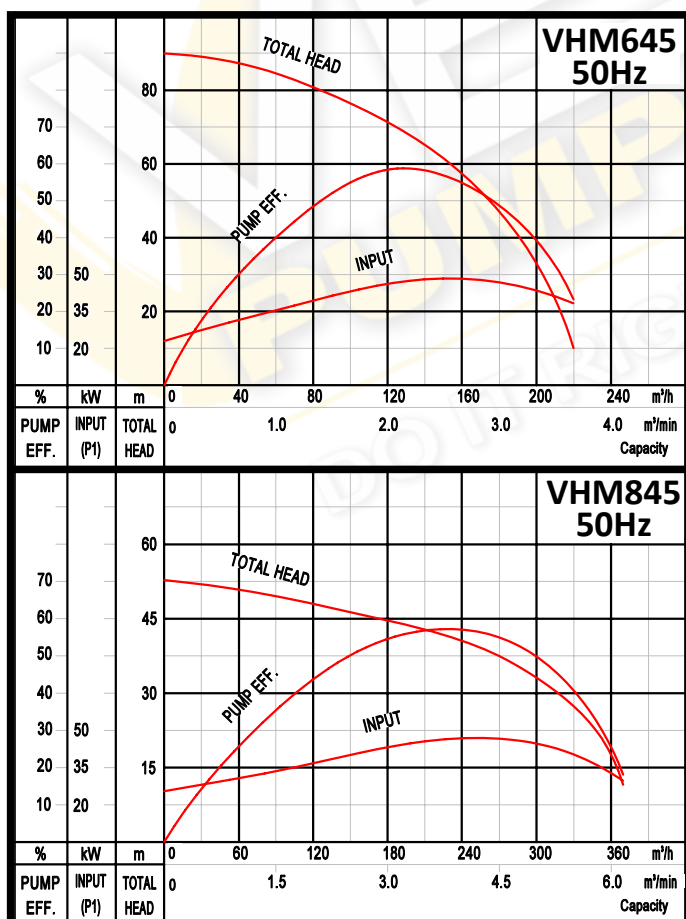
VHM SUBMERSIBLE RANGE

PERFORMANCE CURVE & DIMENSIONS



MODEL	637	837
A	285	340
B	240	295
C	150	200
D	1424	1474
E	1072	1072

WEIGHT 575KG

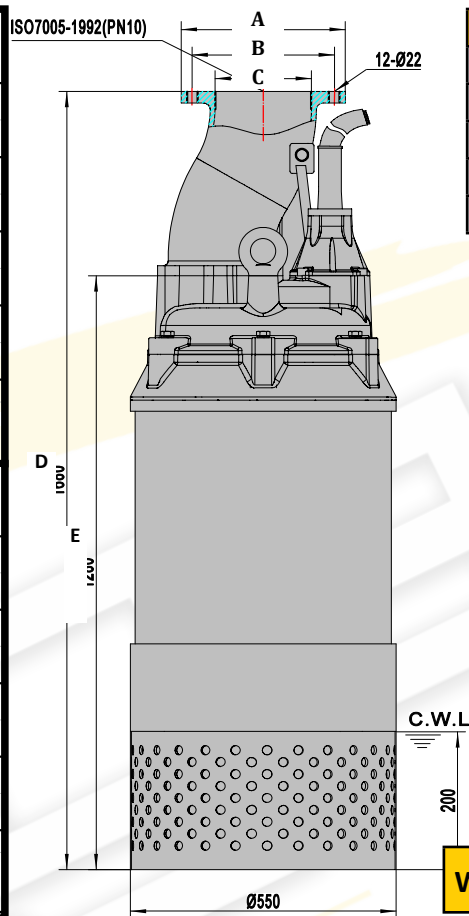
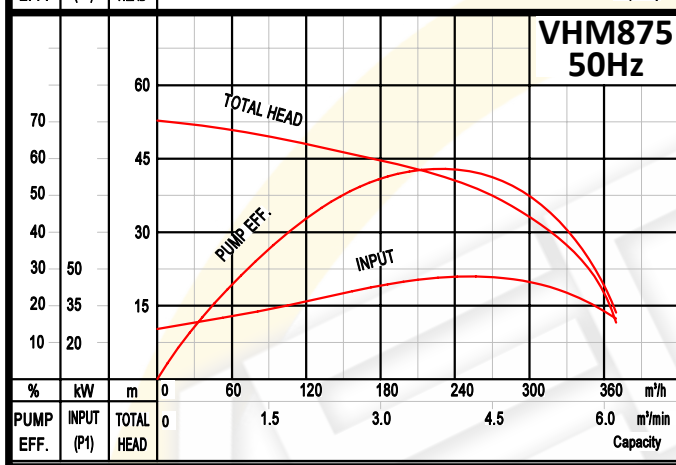
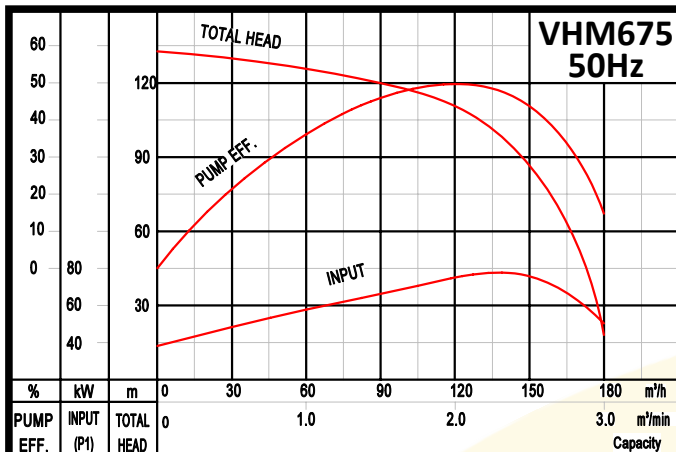


MODEL	645	845
A	285	340
B	240	295
C	150	200
D	1424	1474
E	1072	1072

WEIGHT 580KG

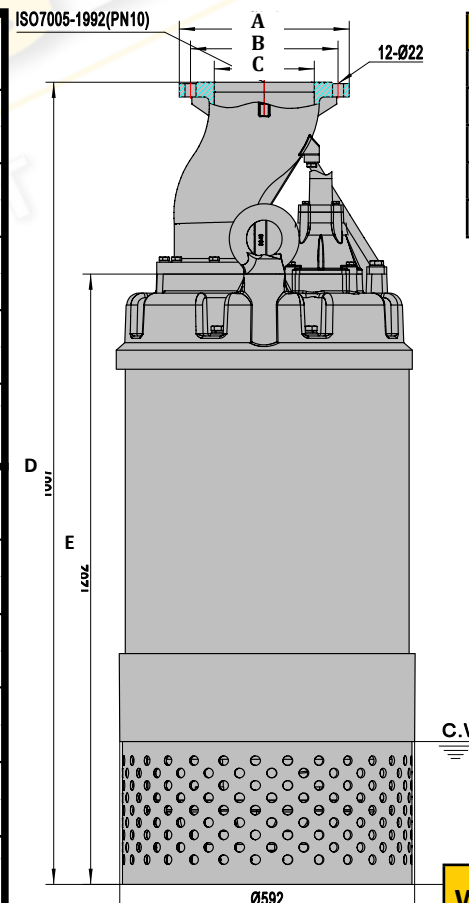
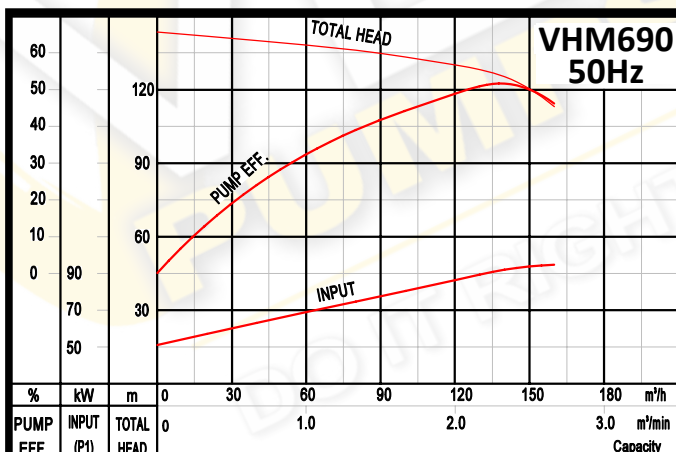
VHM SUBMERSIBLE RANGE

PERFORMANCE CURVE & DIMENSIONS



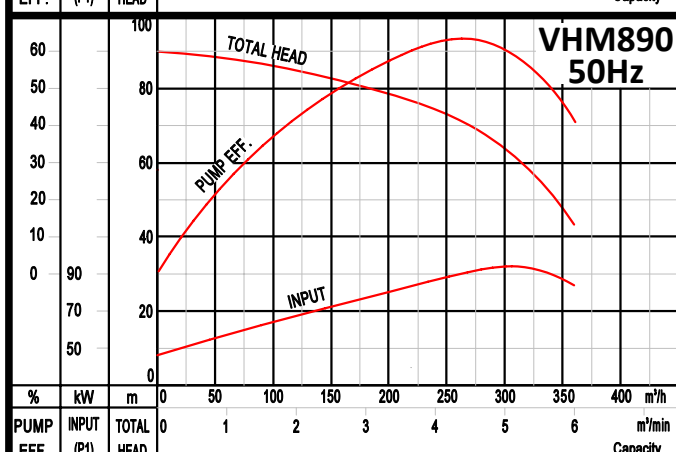
MODEL	675	875
A	285	340
B	240	295
C	150	200
D	1630	1680
E	1280	1280

WEIGHT 880KG



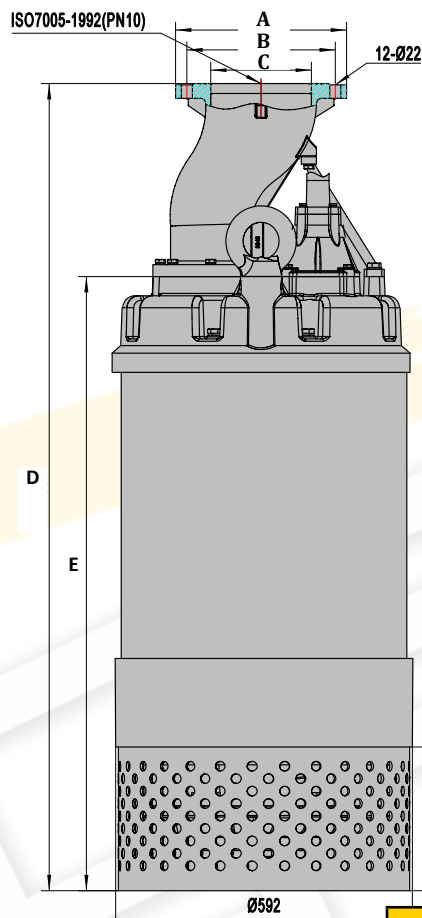
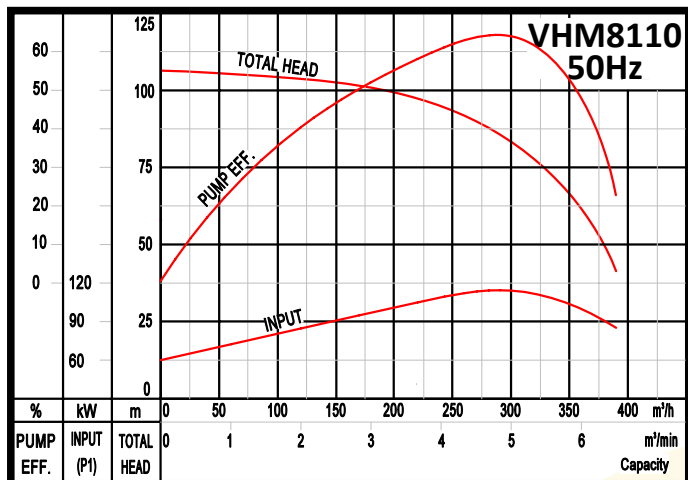
MODEL	690	890
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B	250	295
C	150	200
D	1687	1687
E	1282	1282

WEIGHT 1120KG



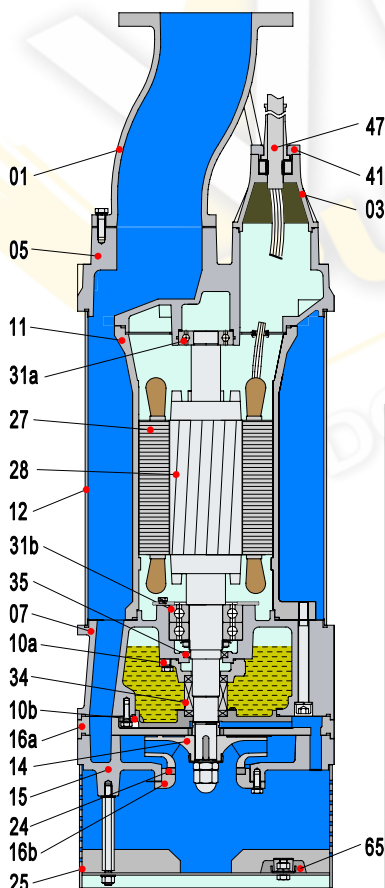
VHM SUBMERSIBLE RANGE

PERFORMANCE CURVE & DIMENSIONS



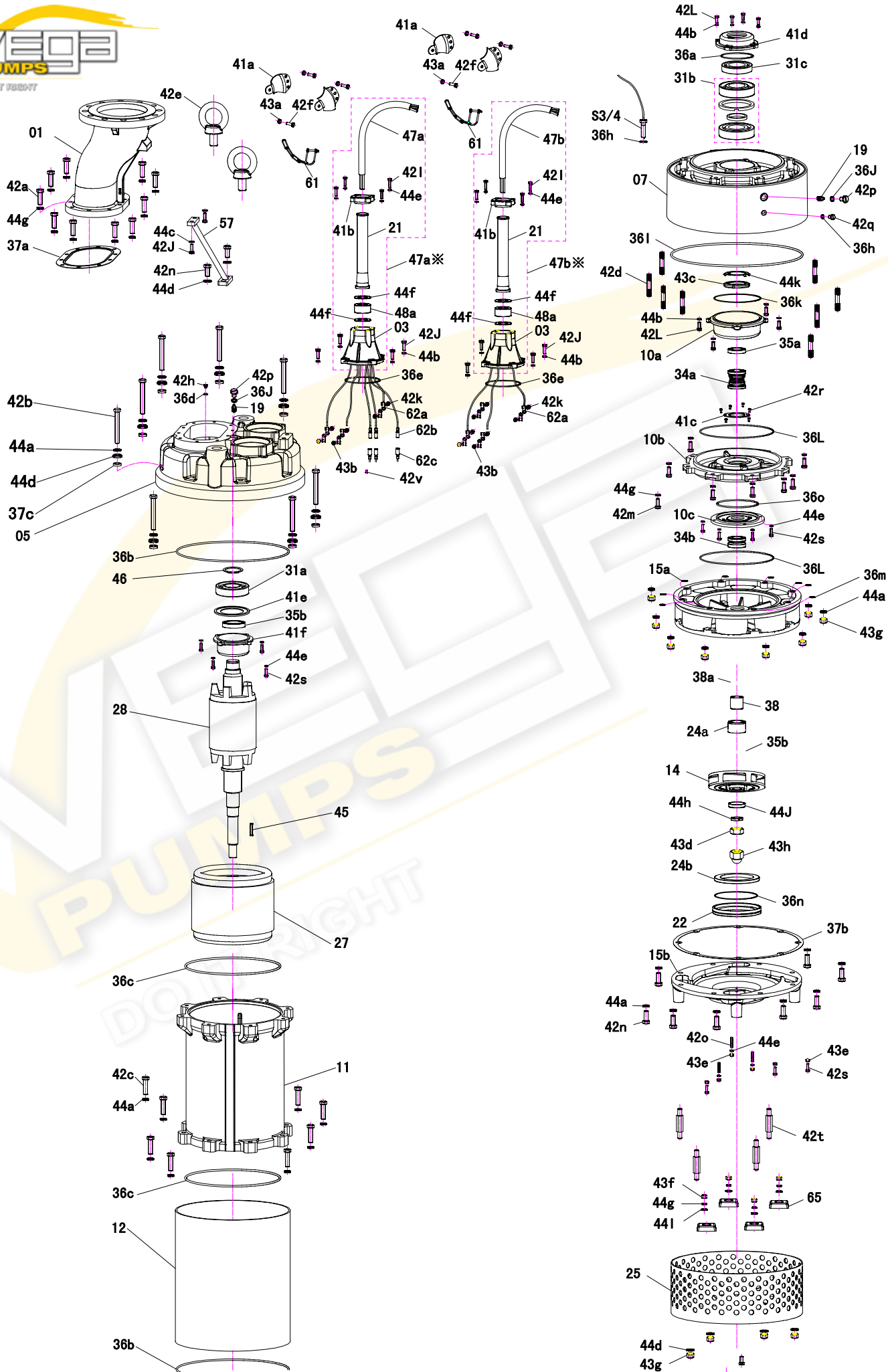
MODEL	8110
A	340
B	205
C	200
D	1667
E	1282

WEIGHT	1150KG
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ITEM NO	PART NAME	MATERIAL
01	House coupling	Ductile iron
03	Terminal box	Cast iron
05	Upper cover	Cast iron
07	Bearing house	Cast iron
10A	Seal bracket	Cast iron
10B	Seal bracket	Cast iron
11	Motor body	Cast iron
12	Outer casing	Steel
14	Impeller	High chrome alloy
15	Diffuser	Ductile iron
16A	Inlet plate	Ductile iron
16B	Inlet plate	Ductile iron

ITEM NO	PART NAME	MATERIAL
24	Neck ring	High chrome alloy
25	Strainer	AISI304SS
27	Stator	
28	Rotor	Shaft: AISI420SS
31A	Bearing	Ball bearing
31B	Bearing	Ball bearing
34	Mechanical seal	Tc-Sic/Sic-Sic
35	Oil seal	
41	Cable fixing plate	Cast iron
47	Cable	
65	Cathodic protection plate	AL



VHM SUBMERSIBLE RANGE

EXPLODED VIEW



Index	Part name	Qty	Material
01	Hose coupling	1	Ductile iron
03	Terminal box	2	Cast iron
05	Upper cover	1	Cast iron
07	Bearing house	1	Cast iron
1 0a	Seal bracket	1	Cast iron
1 0b	Seal bracket	1	Cast iron
1 0c	Seal bracket	1	Cast iron
11	Motor body	1	Cast iron
12	Outer casing	1	Steel
14	Impeller	1	High chrome alloy
1 5a	Diffuser	1	Cast iron
1 5b	Diffuser	1	Ductile iron
19	Grease nipple	2	AISI304 SS
21	Cable tube	2	NBR
22	Seat assembly	1	Cast iron
2 4a	Neck ring	1	AISI304 SS
2 4b	Neck ring	1	High chrome alloy
25	Strainer	1	AISI304 SS
27	Stator	1	
28	Rotor	1	Shaft:AISI420SS
3 1a	Bearing	1	
3 1b	Bearing	2	
3 1c	Bearing	1	
3 4a	Mechanical seal	1	TC- Sic/ Sic-Sic
3 4b	Mechanical seal	1	Sic-Sic
3 5a	Oil seal	1	
3 5b	Oil seal	1	
3 6a	O-ring	1	NBR
3 6b	O-ring	2	NBR
3 6c	O-ring	2	NBR
3 6d	O-ring	1	NBR
3 6e	O-ring	2	NBR
3 6h	O-ring	2	NBR
3 6i	O-ring	1	NBR
3 6j	O-ring	2	NBR
3 6k	O-ring	1	NBR
3 6l	O-ring	2	NBR
3 6m	O-ring	8	NBR
3 6n	O-ring	1	NBR
3 6o	O-ring	2	NBR
3 7a	Gasket	1	NBR
3 7b	Gasket	1	PVC
3 7c	Gasket	8	NBR
38	Shaft sleeve	1	AISI420 SS
4 1a	Cable fixing plate	4	AISI304 SS
4 1b	Cable clamping band	2	Cast iron
4 1c	Mechanical seal fixing plate	1	
4 1d	Bearing fixing plate	1	Cast iron
4 1e	Pressing block	1	
4 1f	Bearing fixing plate	1	Cast iron
4 2a	Bolt	10	AISI304 SS
4 2b	Bolt	8	AISI304 SS
4 2c	Bolt	8	AISI304 SS

Index	Part name	Qty	Material
4 2d	Bolt	8	AISI304 SS
4 2e	Screw	2	AISI304 SS
4 2f	Bolt	6	AISI304 SS
4 2g	Bolt	2	AISI304 SS
4 2h	Screw	1	AISI304 SS
4 2i	Bolt	8	AISI304 SS
4 2j	Bolt	8	AISI304 SS
4 2k	Bolt	6	H 62
4 2l	Bolt	8	AISI304 SS
4 2m	Bolt	8	AISI304 SS
4 2n	Bolt	10	AISI304 SS
4 2o	Bolt	3	AISI304 SS
4 2p	Screw	2	H 62
4 2q	Screw	1	H 62
4 2r	Screw	6	
4 2s	Bolt	11	AISI304 SS
4 2t	Screw	4	AISI304 SS
4 2u	Bolt	4	AISI304 SS
4 2v	Screw	1	
4 3a	Nut	6	AISI304 SS
4 3b	Nut	6	H 62
4 3c	Nut	1	AISI304 SS
4 3d	Nut	1	AISI304 SS
4 3e	Nut	6	AISI304 SS
4 3f	Nut	4	AISI304 SS
4 3g	Nut	12	AISI304 SS
4 3h	Nut	1	AISI304 SS
4 4a	Spring washer	32	AISI304 SS
4 4b	Spring washer	16	AISI304 SS
4 4c	Washer	2	AISI304 SS
4 4d	Washer	6	AISI304 SS
4 4e	Spring washer	19	AISI304 SS
4 4f	Washer	4	AISI304 SS
4 4g	Spring washer	22	AISI304 SS
4 4h	Spring washer	1	AISI304 SS
4 4i	Washer	4	AISI304 SS
4 4j	Profiled pad	1	AISI304 SS
4 4k	Profiled pad	1	65Mn
4 4l	Profiled pad	6	AISI304 SS
45	Key	1	AISI304 SS
46	Circlips for shaft	1	65Mn
4 7a	Cable	1	
4 7b	Cable	1	
47 a	Cable-Terminal box assembly	1	
47 b	Cable-Terminal box assembly	1	
4 8a	Cable bends	2	NBR
57	Rod	1	
61	Chain	2	AISI304 SS
6 2a	Connecting terminal	12	H 62
6 2b	Connecting terminal	3	
6 2c	Connecting terminal	3	
65	Cathodic protection plate	4	AL
S 3/4	Oil water leakage	1	



SUBMERSIBLE RANGE
VSS

VSS SUBMERSIBLE RANGE

Sand and Slurry Agitator



General dewatering features:

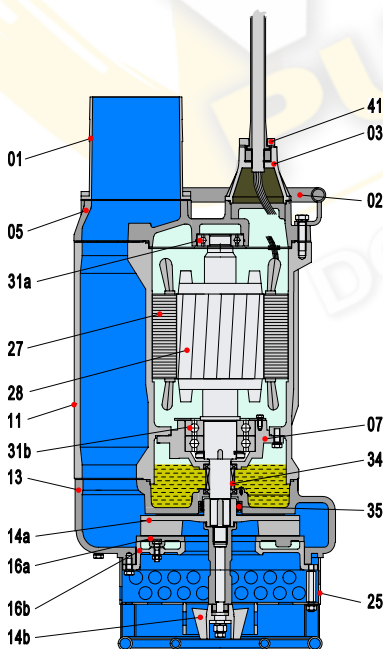
- Capacity: up to 372m³/h.
- Head: up to 32 meters.
- Discharge: 80mm (3") to 200mm (8").
- Power: 4kW (5.5 HP) to 22kW (30HP).
- Power supply: three phase 380V $\pm$ 10%, 50Hz
- Insulation class: F
- Protection class: IP68.
- Cable length: 8m.
- Water temperature: up to 40°C.
- Maximum water depth: 15m.
- SG: Up to 1.2

Applications:

- Discharging slurries bearing sand, earth & other solids in suspension.

Performance:

OUTPUT KW	MODEL	DISCHARGE DIA.MM	BEP HEAD M	BEP FLOW M ³ /H	MAX SOLIDS MM	WEIGHT KG
4	80VSS44	80	10	60	30	108.5
6	100VSS46	100	10	90	30	141
9	150VSS49	150	15	100	30	171
15	200VSS415	200	16	200	30	260
22	200VSS422	200	21	240	30	408

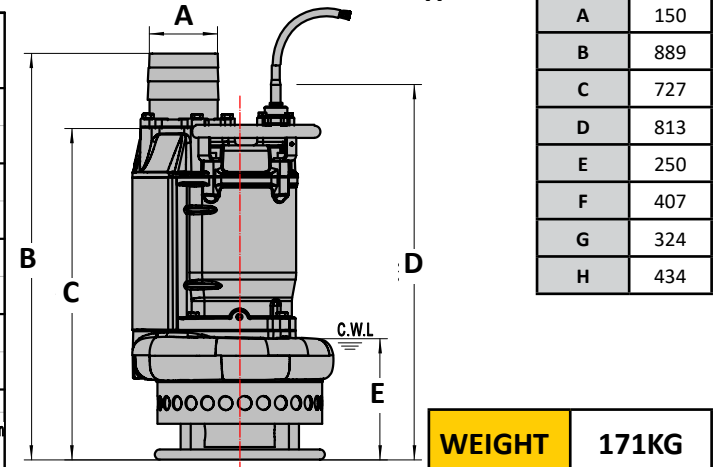
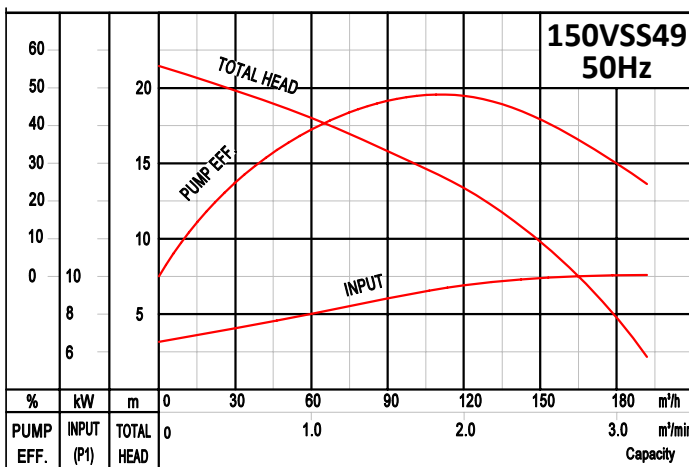
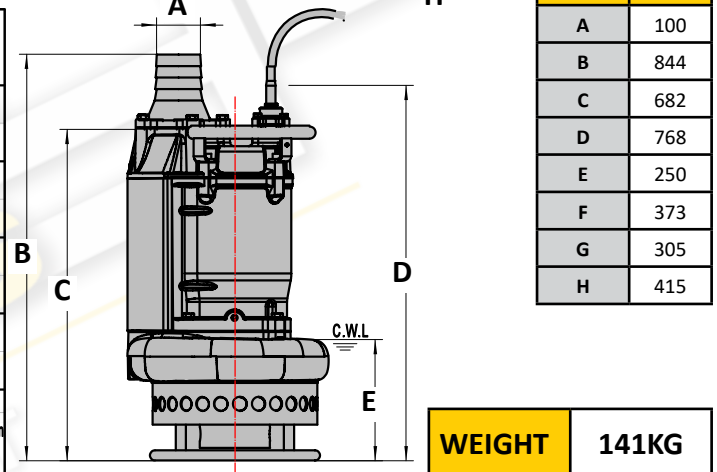
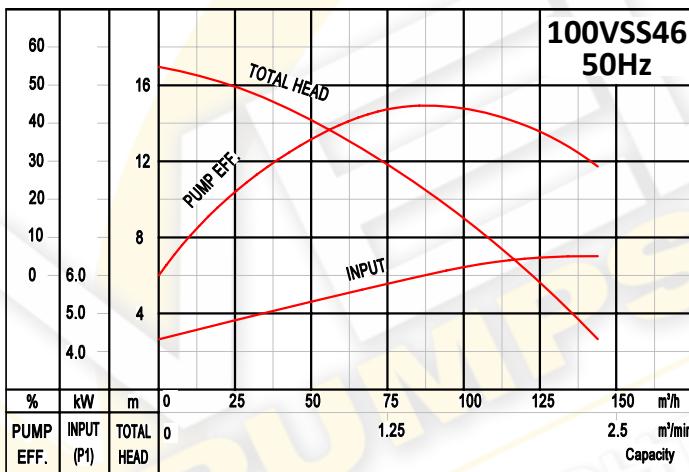
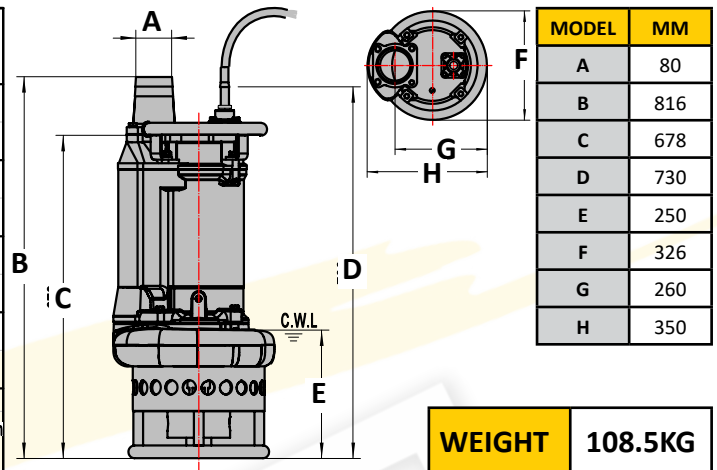
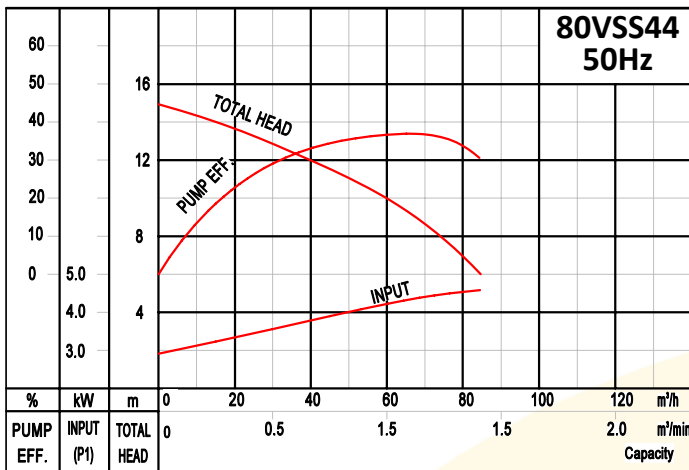


ITEM NO	PART NAME	MATERIAL
01	House coupling	Cast iron
02	Handle	Steel
05	Upper cover	Cast iron
07	Bearing house	Cast iron
11	Motor body	Cast iron
13	Pump body	Cast iron
14a	Impeller	High chrome alloy
14b	Agitator	High chrome alloy
16a	Inlet plate	High chrome alloy

ITEM NO	PART NAME	MATERIAL
16b	Inlet plate	Cast iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
34	Mechanical seal	Sic-Sic/Sic-Sic
35	Oil seal	
47	Cable	

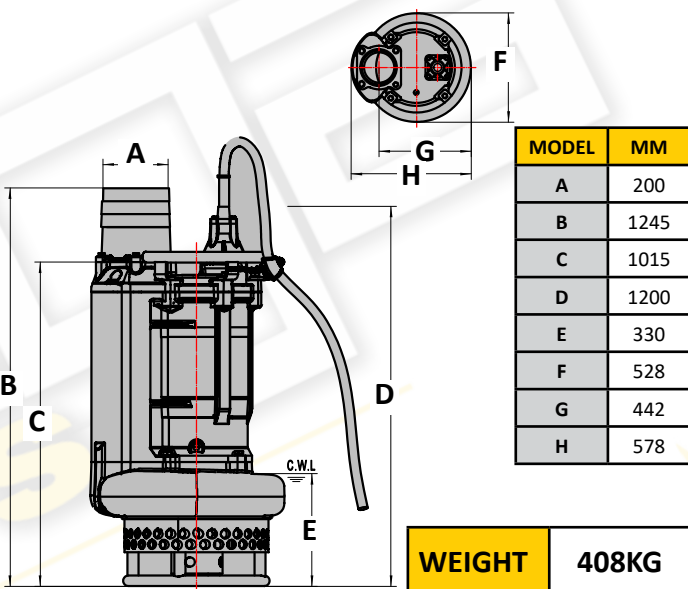
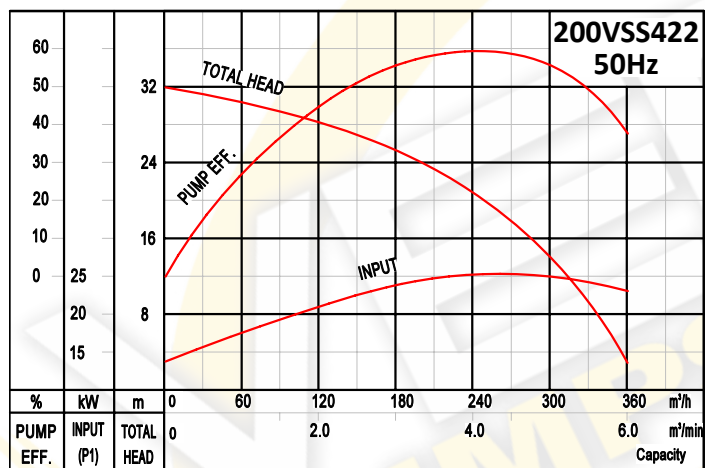
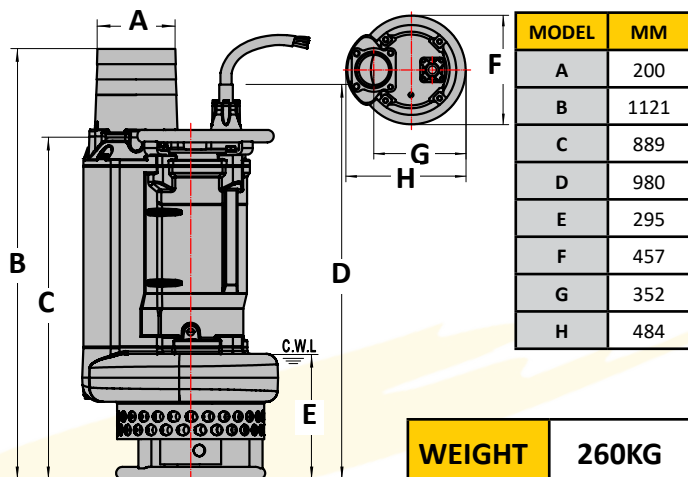
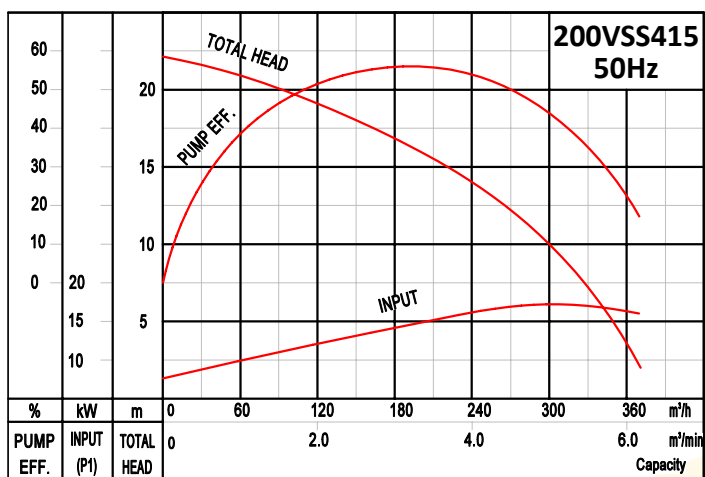
VSS SUBMERSIBLE RANGE

PERFORMANCE CURVE & DIMENSIONS



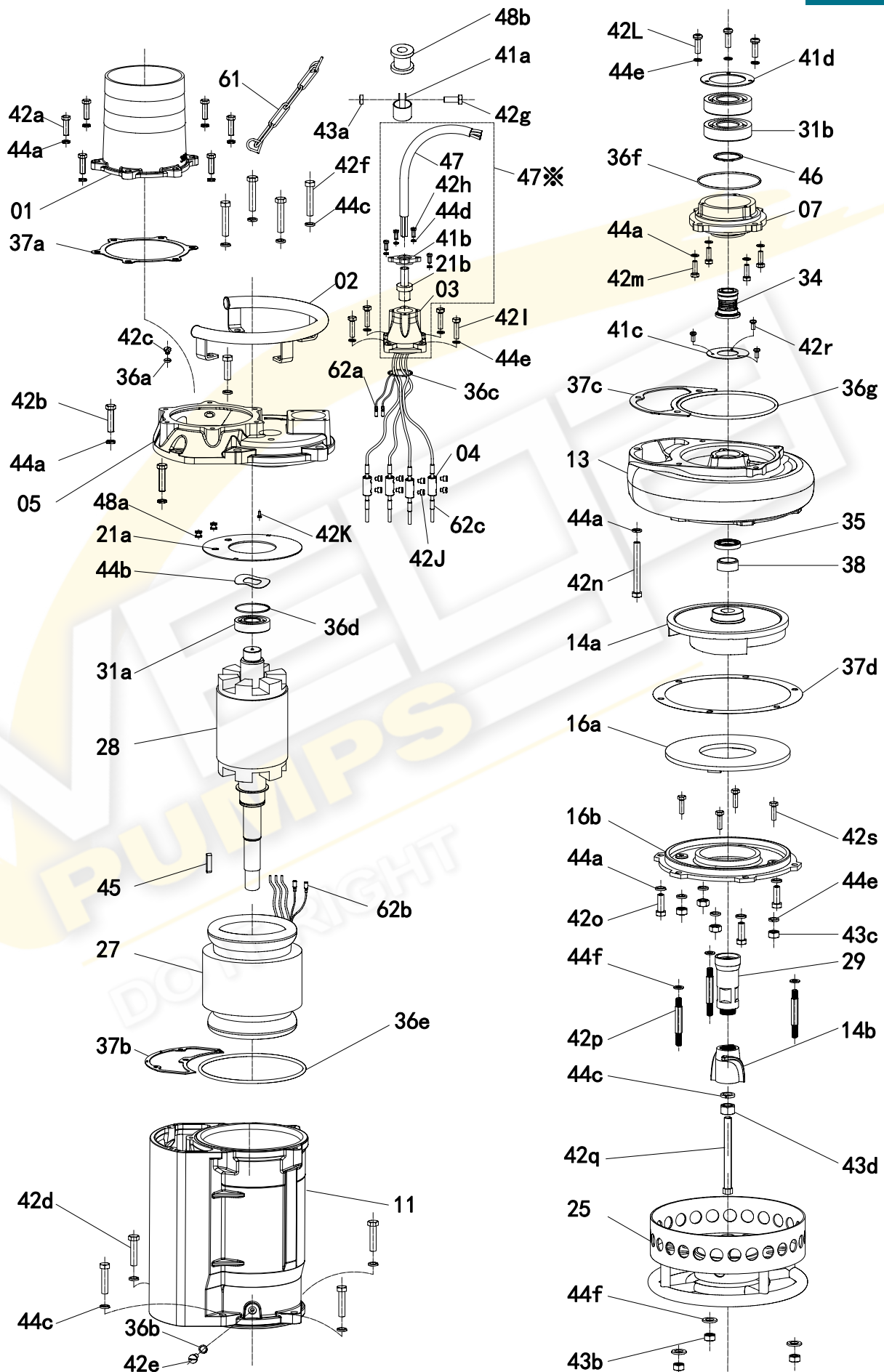
VSS SUBMERSIBLE RANGE

PERFORMANCE CURVE & DIMENSIONS



VSS SUBMERSIBLE RANGE

EXPLODED VIEW



VSS SUBMERSIBLE RANGE

EXPLODED VIEW



Index	Part name	Qty	Material
01	Hose coupling	1	Cast iron
02	Handle	1	Steel
03	Terminal box	1	Cast iron
04	Terminal block	4	H64
05	Upper cover	1	Cast iron
07	Bearing house	1	Cast iron
11	Motor body	1	Cast iron
13	Pump casing	1	Cast iron
14a	Impeller	1	High chrome alloy
14b	Agitator	1	High chrome alloy
16a	Inlet plate	1	High chrome alloy
16b	Inlet plate	1	Cast iron
21a	Protecting cap	1	
21b	Cable tube	1	NBR
25	Strainer	1	Steel
27	Stator	1	
28	Rotor	1	Shaft: AISI420SS
29	Shaft	1	AISI420SS
31a	Bearing	1	
31b	Bearing	2	
34	Mechanical Seal	1	Tc-Sic/Sic-Sic
35	Oil seal	1	
36a	O-ring	1	NBR
36b	O-ring	1	NBR
36c	O-ring	1	NBR
36d	O-ring	1	NBR
36e	O-ring	1	NBR
36f	O-ring	1	NBR
36g	O-ring	1	NBR
37a	Gasket	1	NBR
37b	Gasket	1	NBR
37c	Gasket	1	NBR
37d	Gasket	1	PVC
38	Shaft sleeve	1	AISI420SS
41a	Cable clamping band	1	AISI420SS
41b	Cable clamping band	1	Cast iron
41c	Seal fixing plate	1	
41d	Bearing fixing plate	1	
42a	Bolt	6	AISI304SS
42b	Bolt	3	AISI304SS
42c	Screw	1	AISI304SS
42d	Bolt	4	AISI304SS
42e	Screw	1	H62
42f	Bolt	4	AISI304SS
42g	Bolt	1	AISI304SS
42h	Bolt	4	AISI304SS
42i	Bolt	4	AISI304SS
42j	Screw	8	AISI304SS
42k	Screw	1	
42l	Bolt	3	
42m	Bolt	4	
42n	Bolt	1	AISI304SS
42o	Bolt	3	AISI304SS

Index	Part name	Qty	Material
42p	Screw	3	AISI304SS
42q	Bolt	1	AISI304SS
42r	Screw	3	
42s	Bolt	4	AISI304SS
43a	Nut	1	AISI304SS
43b	Nut	3	AISI304SS
43c	Nut	4	AISI304SS
43d	Nut	1	AISI304SS
44a	Spring washer	17	AISI304SS
44b	Wave pad	1	65Mn
44c	Spring washer	9	AISI304SS
44d	Spring washer	4	AISI304SS
44e	Spring washer	11	AISI304SS
44f	Washer	6	AISI304SS
45	Key	1	AISI304SS
46	Circlips for shaft	1	65Mn
47	Cable	1	
47	Cable Terminal box assembly	1	
48a	Rubber sleeve	2	NBR
48b	Rubber sleeve	1	NBR
61	Chain	1	
62a	Connecting terminal	2	
62b	Connecting terminal	2	
62c	Connecting terminal	8	



SUBMERSIBLE RANGE
VTC

VTC SUBMERSIBLE RANGE

General dewatering: 1.5 - 15kW



General dewatering features:

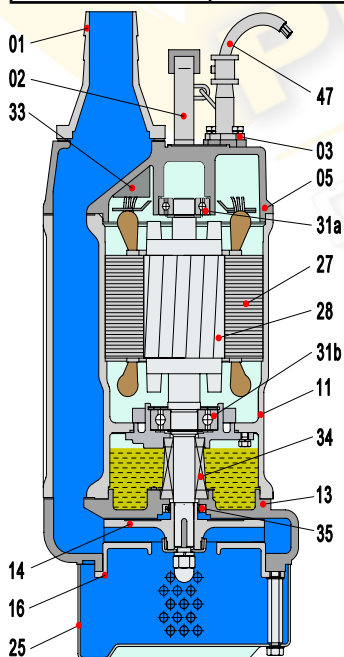
- Liquid temperature: up to 40°C.
- pH Values: 4-10, Cast Iron.
- Solids handling: up to Ø80mm.
- Protection class: IP68, Class B.
- Depth submersion: 10m
- Pump constructed out of Cast Iron.
- Impeller construction out of Cast Iron, open type single channel.
- Separate cutter mechanism located on pump inlet.
- Double mechanical shaft seal (silicon carbide-silicon carbide/ carbon graphite-ceramic).
- Available in: 380V, 525V & 1000V

Applications:

- General construction and civil engineering applications.
- Tunnel and subway construction, mining and reclamation operations.
- Deep well pre-dewatering.
- Dirty water non slurry applications.

Performance:

OUTPUT KW	MODEL	DISCHARGE DIA.MM	BEP HEAD M	BEP FLOW M ³ /H	MAX SOLIDS MM	WEIGHT KG
1.5	VTC215	50	12	20	8.5	36
2.2	VTC222	50	15	25	8.5	39
3.7	VTC237	50	22	25	8.5	63
5.5	VTC355	80	22	45	8.5	77
7.5	VTC475	100	28	52.5	11.5	106
11	VTC4110	100	35	60	11.5	136
15	VTC4150	100	37.5	67.5	11.5	144

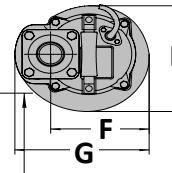
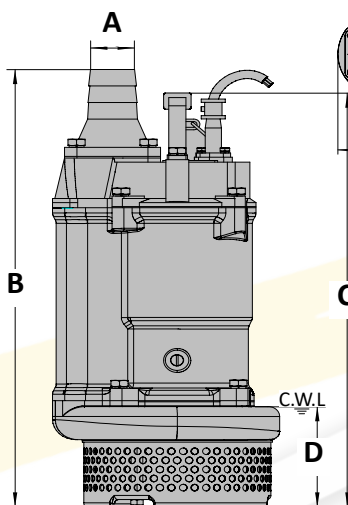
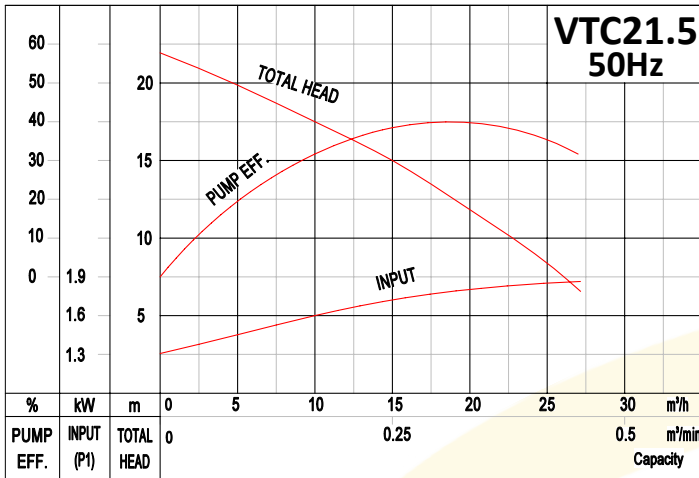


ITEM NO	PART NAME	MATERIAL
01	House coupling	Cast Iron
02	Handle	Rubber & Steel
05	Upper cover	Cast Iron
11	Motor body	Cast Iron
13	Pump body	Cast Iron
14	Impeller	High chrome alloy
16	Inlet plate	Ductile Iron
25	Strainer	Steel

ITEM NO	PART NAME	MATERIAL
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball Bearing
31b	Bearing	Ball Bearing
33	Motor protector	
34	Mechanical seal	Sic-Sic/Carbon-Sic
35	Oil seal	
47	Cable	

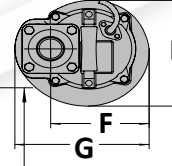
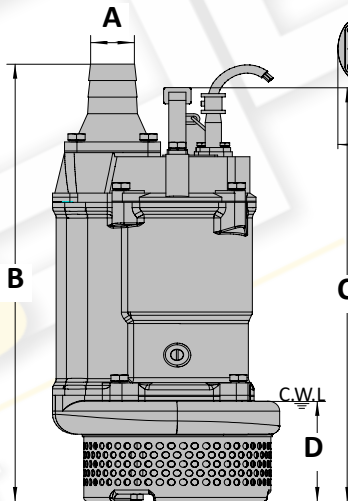
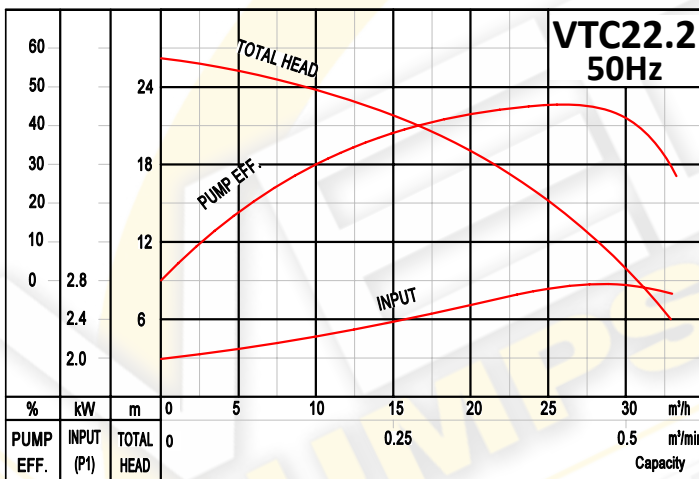
VTC SUBMERSIBLE RANGE

PERFORMANCE CURVE & DIMENSIONS



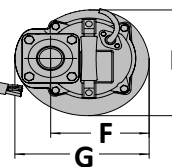
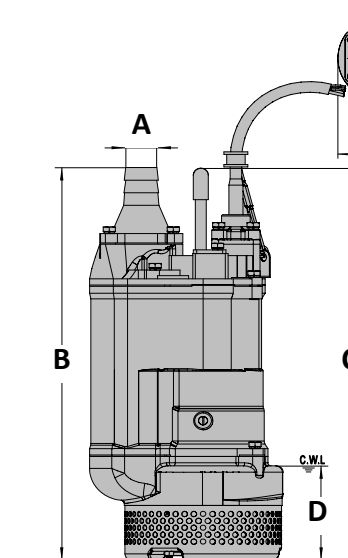
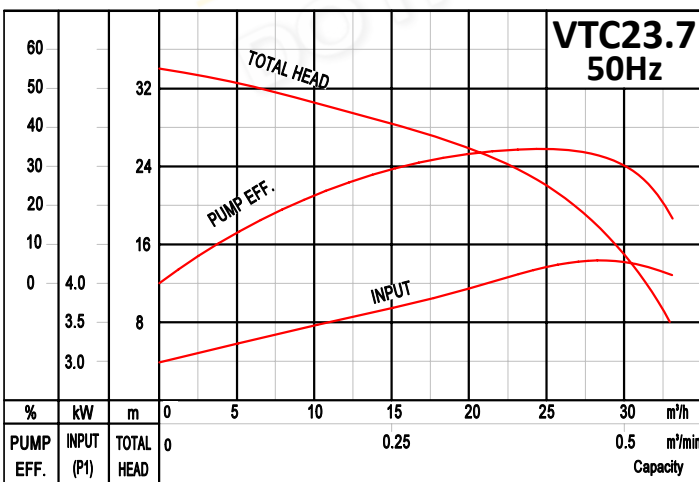
MODEL	MM
A	50
B	535
C	505
D	120
E	216
F	173
G	235

WEIGHT 36KG



MODEL	MM
A	50
B	535
C	505
D	120
E	216
F	173
G	235

WEIGHT 39KG

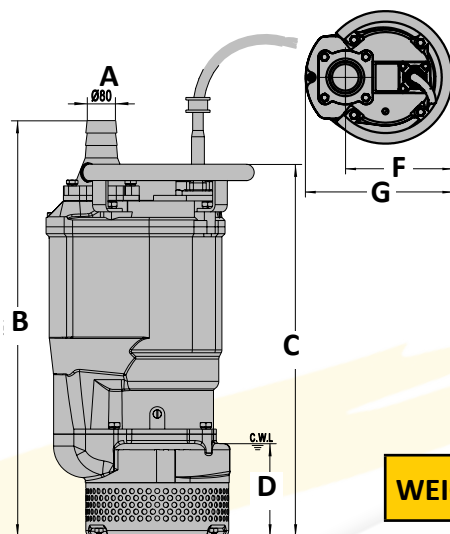
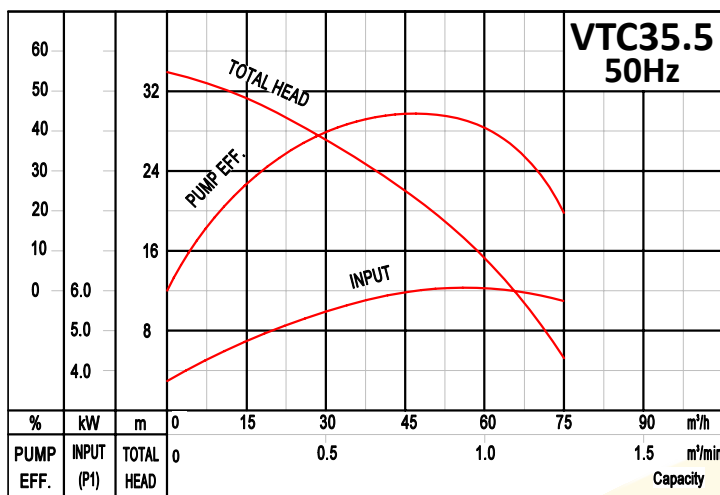


MODEL	MM
A	50
B	628
C	629
D	150
E	252
F	208
G	283

WEIGHT 63KG

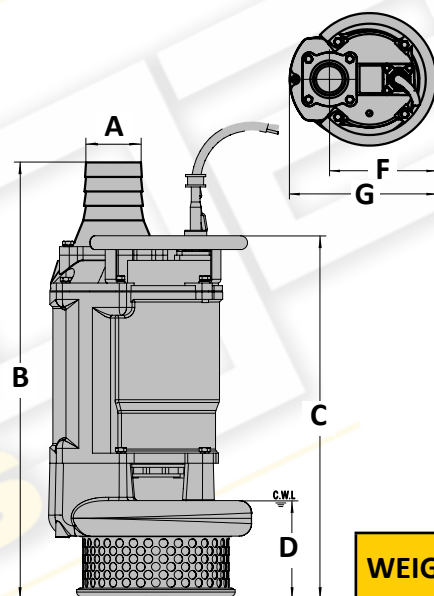
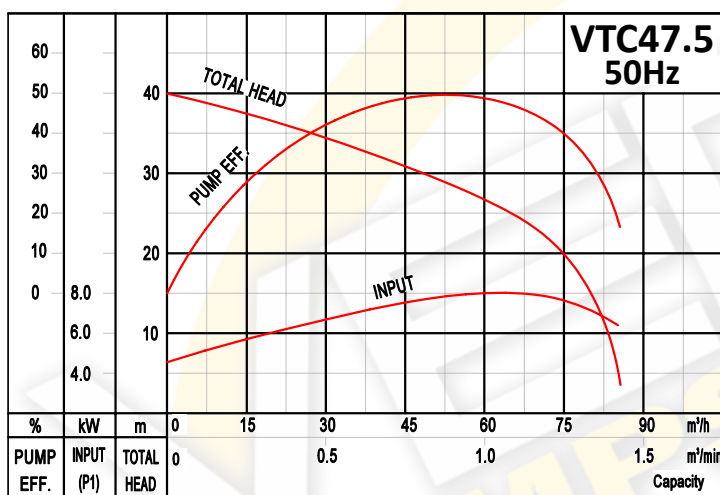
VTC SUBMERSIBLE RANGE

PERFORMANCE CURVE & DIMENSIONS



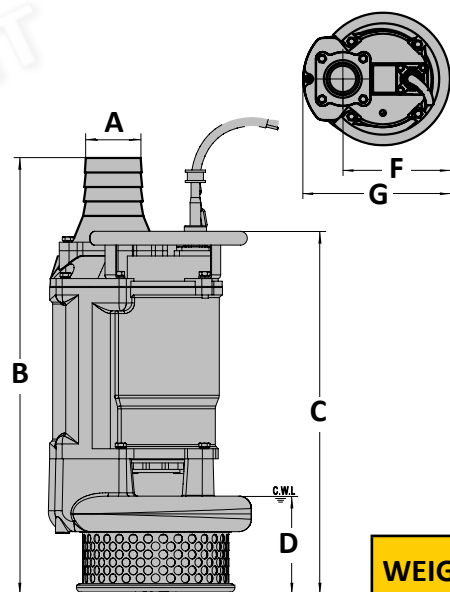
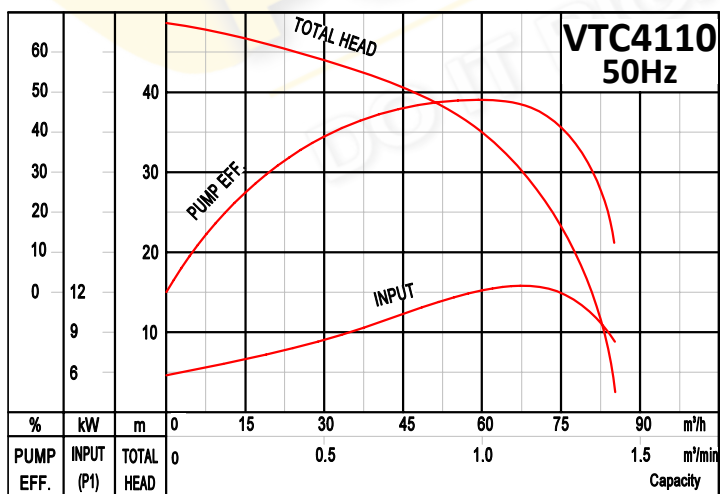
MODEL	MM
A	80
B	671
C	590
D	150
E	252
F	208
G	283

WEIGHT 77KG



MODEL	MM
A	100
B	764
C	676
D	190
E	314
F	240
G	330

WEIGHT 106KG

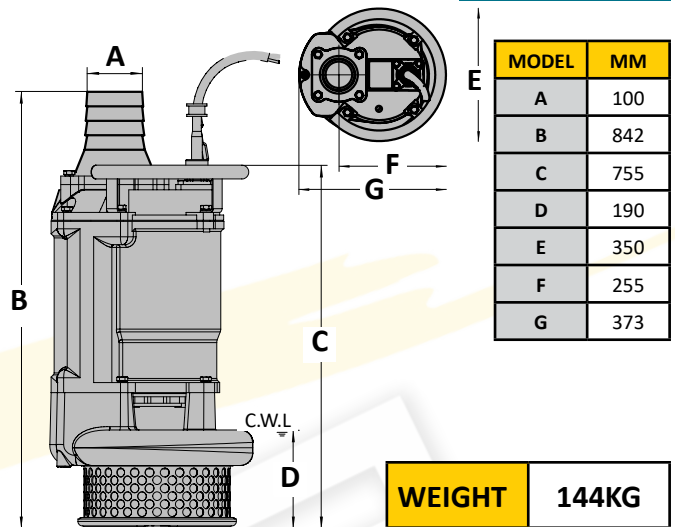
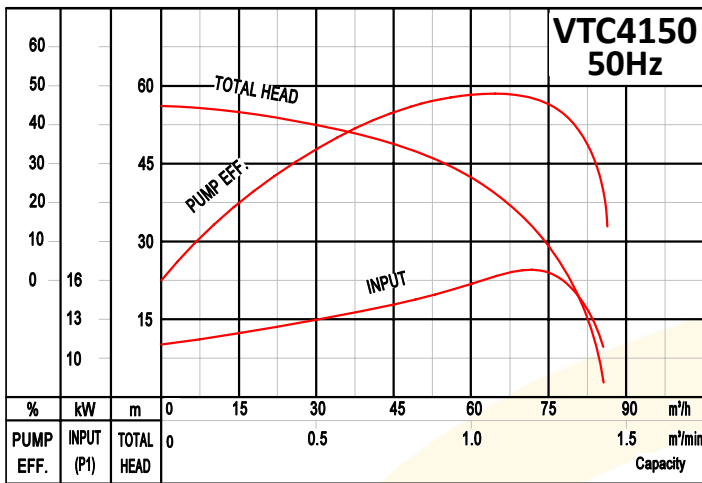


MODEL	MM
A	100
B	807
C	695
D	190
E	350
F	255
G	373

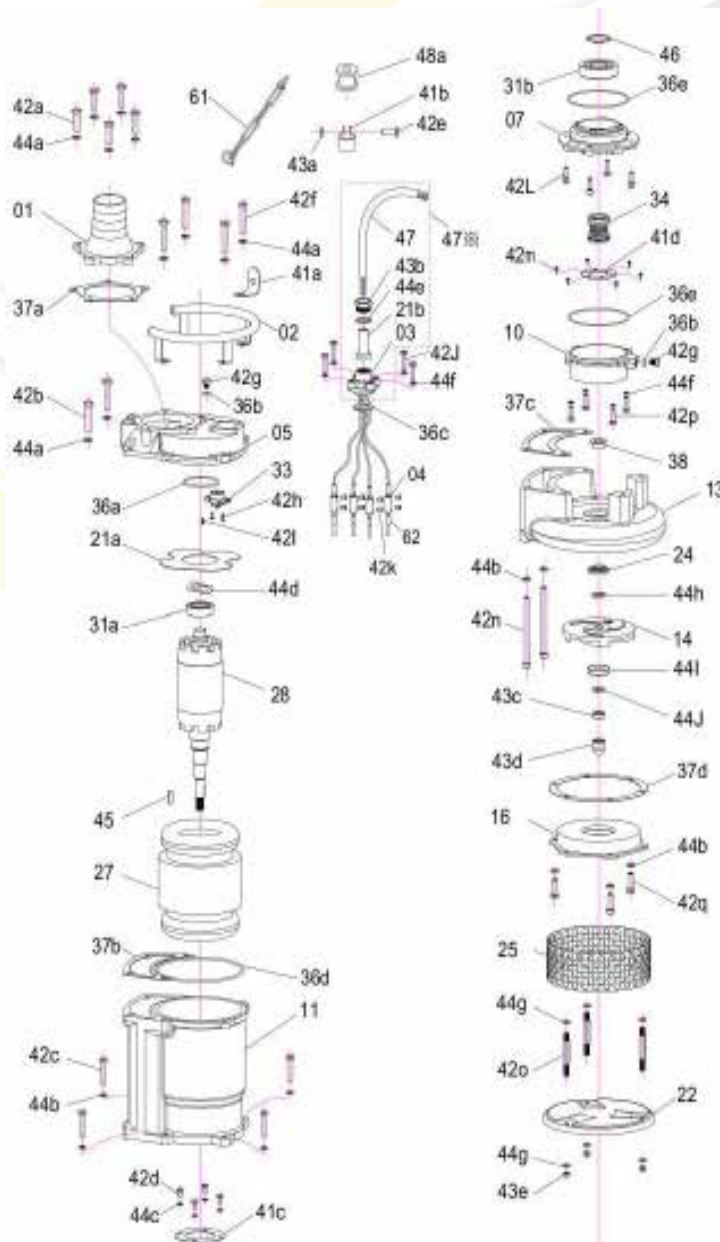
WEIGHT 136KG

VTC SUBMERSIBLE RANGE

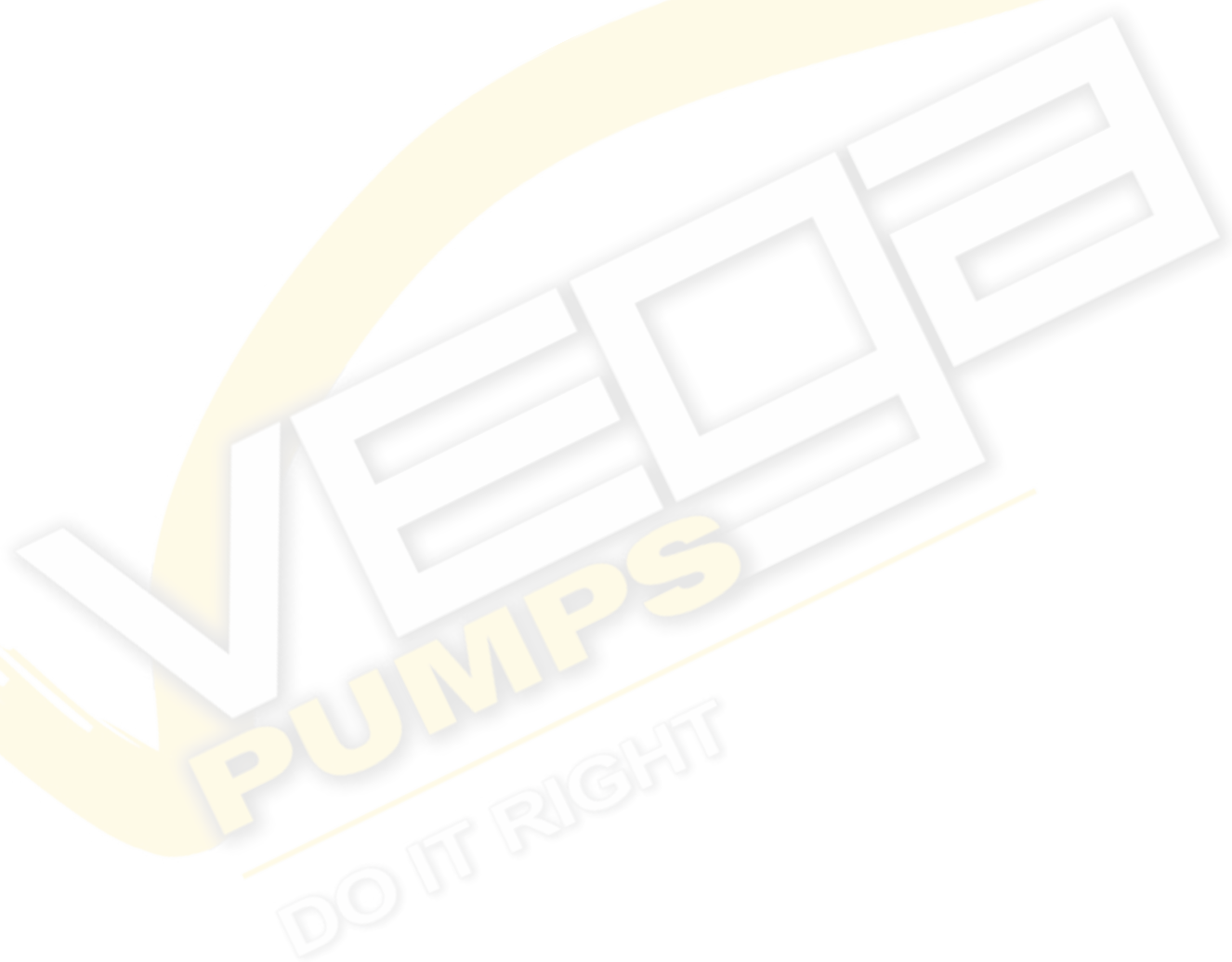
PERFORMANCE CURVE & DIMENSIONS



EXPLODED VIEW:



Index	Part name	Qty	Material
01	Flange coupling	1	Cast Iron
02	Hande	1	Steel
03	Terminal box	1	Cast Iron
04	Wiring terminal	4	MS20 Cu
05	Upper support	1	Cast Iron
07	Bearing house	1	Cast Iron
10	Seal house	1	Cast Iron
11	Rot or body	1	Cast Iron
13	Pump body	1	Cast Iron
14	Impeller	1	High chrome alloy
16	Flat plate	1	Cast Iron
21b	Protecting cap	1	Steel
21b	Cable tube	1	MS2
22	Seal assembly	1	Steel
24	Back ring	1	Al Si 304SS
25	Strainer	1	Steel
27	Stator	1	
28	Motor	1	Shaft: Al Si 420SS
31a	Bearing	1	
31b	Bearing	1	
33	Rot or protector	1	
34	Mechanical seal	1	Si-Si or Si-Si-Si
36a	O-ring	1	MS2
36b	O-ring	2	MS2
36c	O-ring	1	MS2
36d	O-ring	1	MS2
36e	O-ring	2	MS2
37a	Gasket	1	MS2
37b	Gasket	1	MS2
37c	Gasket	1	MS2
37d	Gasket	1	MS2
38	Shaft sleeve	1	Al Si 420SS
41a	Pin	1	
41b	Cable clamping band	1	
41c	Bearing fixing plate	1	
41d	Mechanical seal fixing plate	1	
42a	Bolt	5	Al Si 304SS
42b	Bolt	2	Al Si 304SS
42c	Bolt	4	Al Si 304SS
42d	Bolt	4	Al Si 304SS
42e	Bolt	1	Al Si 304SS
42f	Bolt	4	Al Si 304SS
42g	Screw	2	Al Si 304SS
42h	Screw	2	Al Si 304SS
42i	Screw	1	Al Si 304SS
42j	Screw	4	Al Si 304SS
42k	Screw	6	Al Si 304SS
42l	Screw	4	Al Si 304SS
42m	Bolt	6	Al Si 304SS
42n	Screw	2	Al Si 304SS
42o	Bolt	3	Al Si 420SS
42p	Bolt	4	Al Si 304SS
42q	Bolt	3	Al Si 304SS
43a	Nut	1	Al Si 304SS
43b	Cable nut	1	MS2 Cu
43c	Nut	1	Al Si 304SS
43d	Cap nut	1	Al Si 304SS
43e	Nut	3	Al Si 304SS
44a	Spring washer	11	Al Si 304SS
44b	Spring washer	9	Al Si 304SS
44c	Spring washer	1	Al Si 304SS
44d	Wave pad	1	MS2
44e	Washer	1	MS2
44f	Spring washer	8	Al Si 304SS
44g	Washer	6	Al Si 304SS
44h	Impeller washer	1	Al Si 304SS
44i	Profiled pad	1	Al Si 420SS
44j	Spring washer	1	Al Si 304SS
45	Key	1	
46	Circlip for shaft	1	MS2
47	Cable	1	MS20-F
47a	Cable terminal box assembly	1	MS2
48	Rubber sleeve	1	MS2
61	Chain	1	MS2
62	Connecting terminal	6	





SUBMERSIBLE RANGE
VTS

VTS SUBMERSIBLE RANGE

General Dewatering: 1.5 - 11kW



General dewatering features:

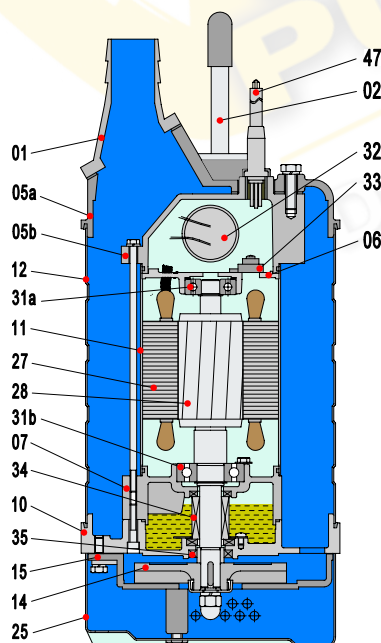
- Liquid temperature: up to 40°C.
- Solids handling: up to Ø11.6mm.
- Protection class: IP68, Class B.
- Depth submersion: 10m
- Completely water-tight cable entry sealed with epoxy resin.
- Pump's outer case is constructed out of durable stainless steel which achieves superior heat dissipation.
- Inlet Plate and pump casing are made of wear-resistant ductile iron to withstand very abrasive liquids.
- Oil-free hermetically sealed, with built-in thermal overload protector.
- Available in: 380V, 525V & 1000V

Applications:

- General construction and civil engineering applications.
- Tunnel and subway construction, mining and reclamation operations.
- Deep well pre-dewatering.
- Dirty water non slurry applications.

Performance:

OUTPUT KW	MODEL	DISCHARGE DIA.MM	BEP HEAD M	BEP FLOW M ³ /H	MAX SOLIDS MM	WEIGHT KG
1.5	VTS 215	50	12.5	20	8.5	35
2.2	VTS 222	50	15	25	8.5	37
3.7	VTS 237	50	23	24	8.5	58
5.5	VTS 355	80	20	48	8.5	65
7.5	VTS 475	100	29	52.5	11.6	108
11	VTS 4110	100	35	52.8	11.6	123

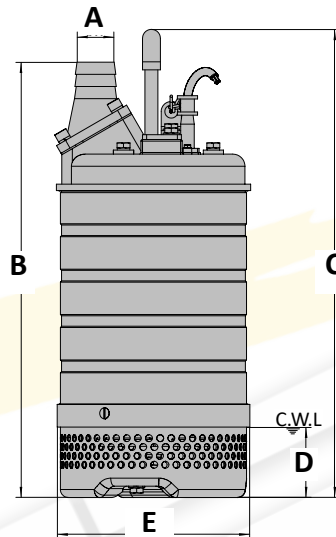
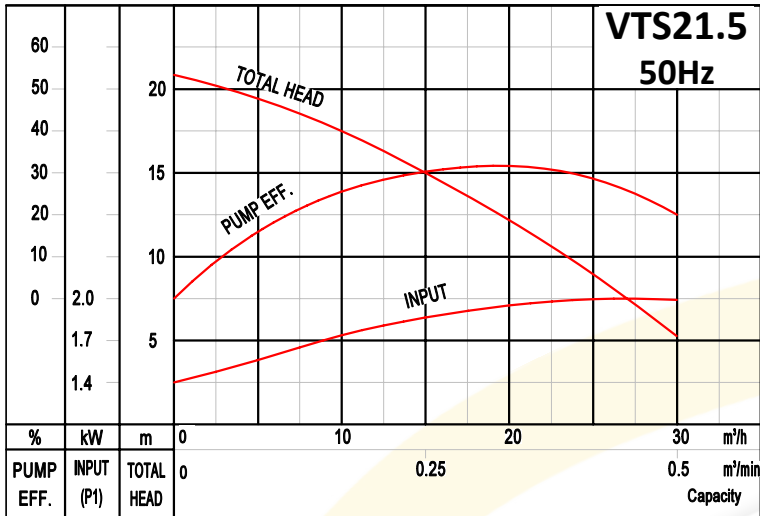


ITEM NO	PART NAME	MATERIAL
01	House coupling	Cast iron
02	Handle	Rubber & Steel
05a	Upper cover	Cast iron
05b	Upper cover	Cast iron
06	Up-Bearing house	Cast iron
07	Bering house	Cast iron
10	Seal bracket	Cast iron
11	Motor casing	Stainless steel
12	Outer casing	AISI304SS
14	Impeller	High chrome alloy
15	Diffuser	Ductile iron

ITEM NO	PART NAME	MATERIAL
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	(Single phase only)
33	Motor protector	
34	Mechanical seal	Sic-Sic/Carbon-Sic
35	Oil seal	
47	Cable	H07RN-F

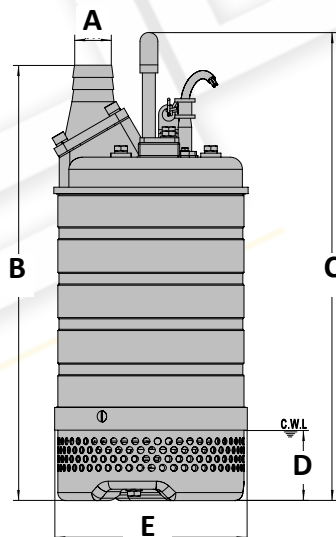
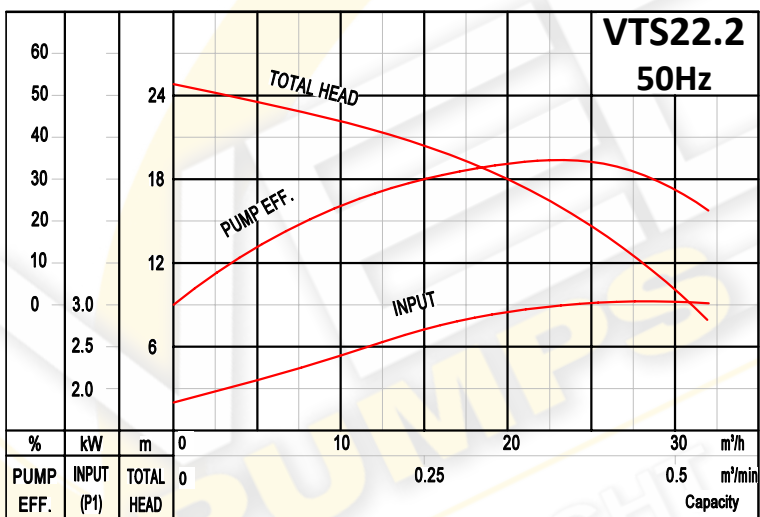
VTS SUBMERSIBLE RANGE

PERFORMANCE CURVE & DIMENSIONS



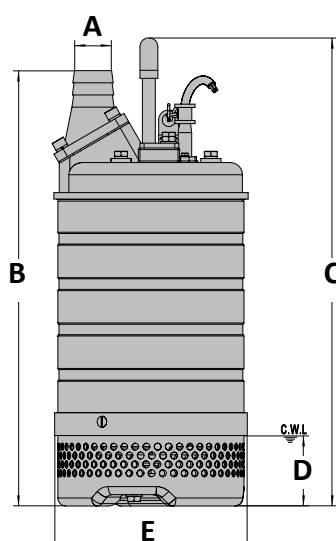
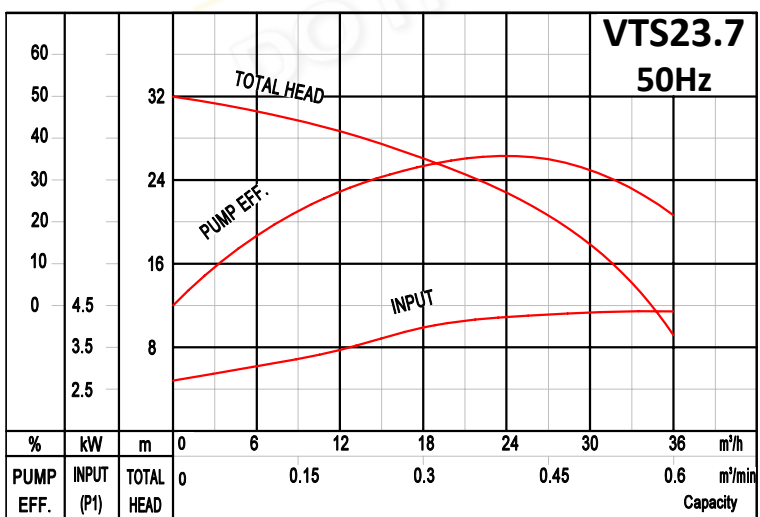
MODEL	MM
A	50
B	540
C	563
D	87
E	240

WEIGHT	37KG
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MODEL	MM
A	50
B	540
C	563
D	87
E	240

WEIGHT	40KG
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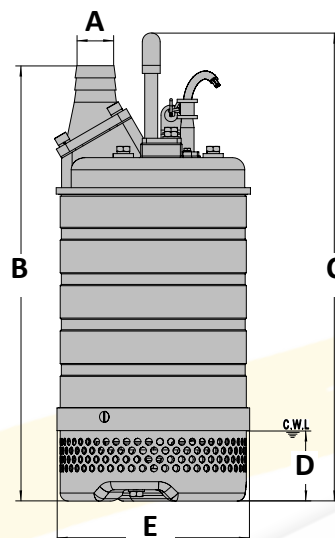
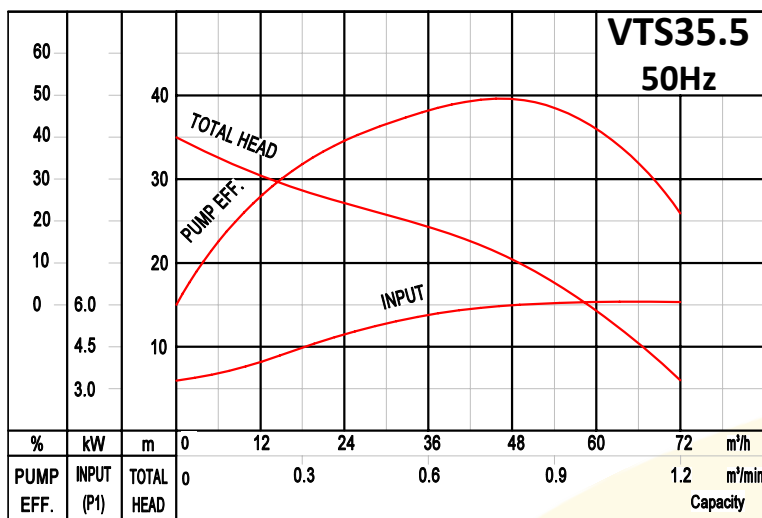


MODEL	MM
A	50
B	591
C	515
D	76
E	300

WEIGHT	58KG
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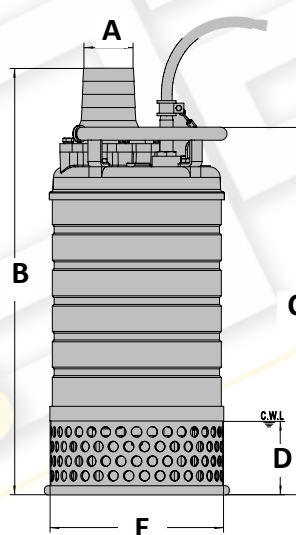
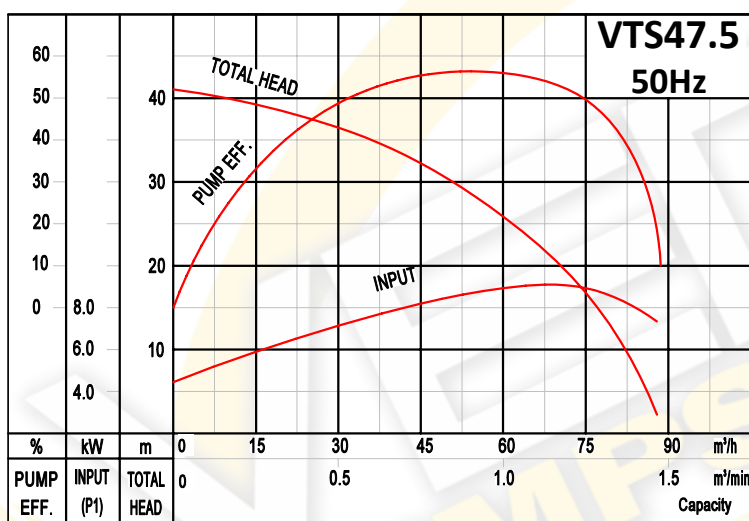
VTS SUBMERSIBLE RANGE

PERFORMANCE CURVE & DIMENSIONS



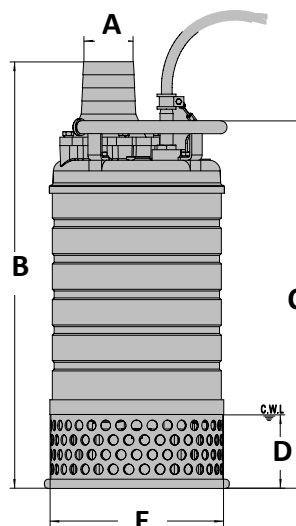
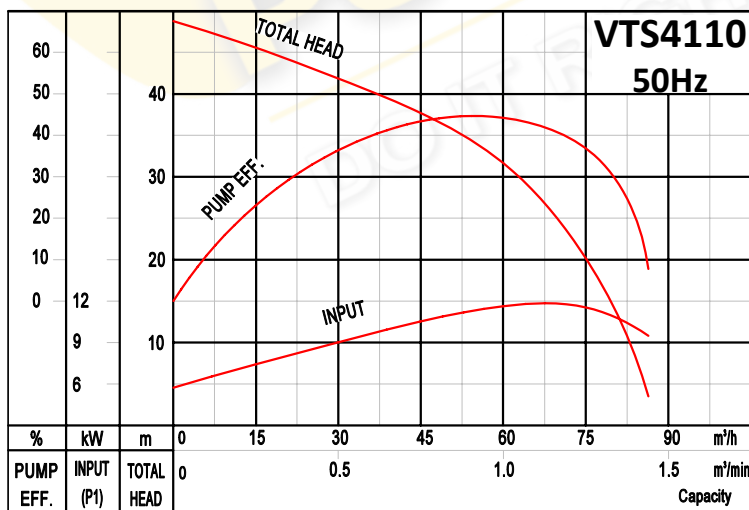
MODEL	MM
A	80
B	631
C	555
D	76
E	300

WEIGHT	66KG
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MODEL	MM
A	100
B	810
C	700
D	142
E	355

WEIGHT	108KG
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MODEL	MM
A	100
B	855
C	745
D	142
E	355

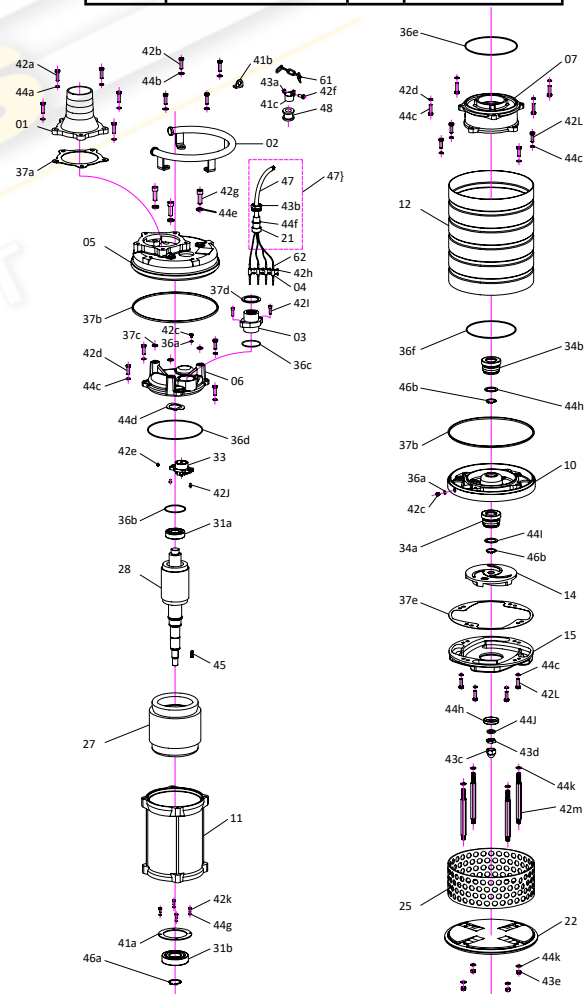
WEIGHT	123KG
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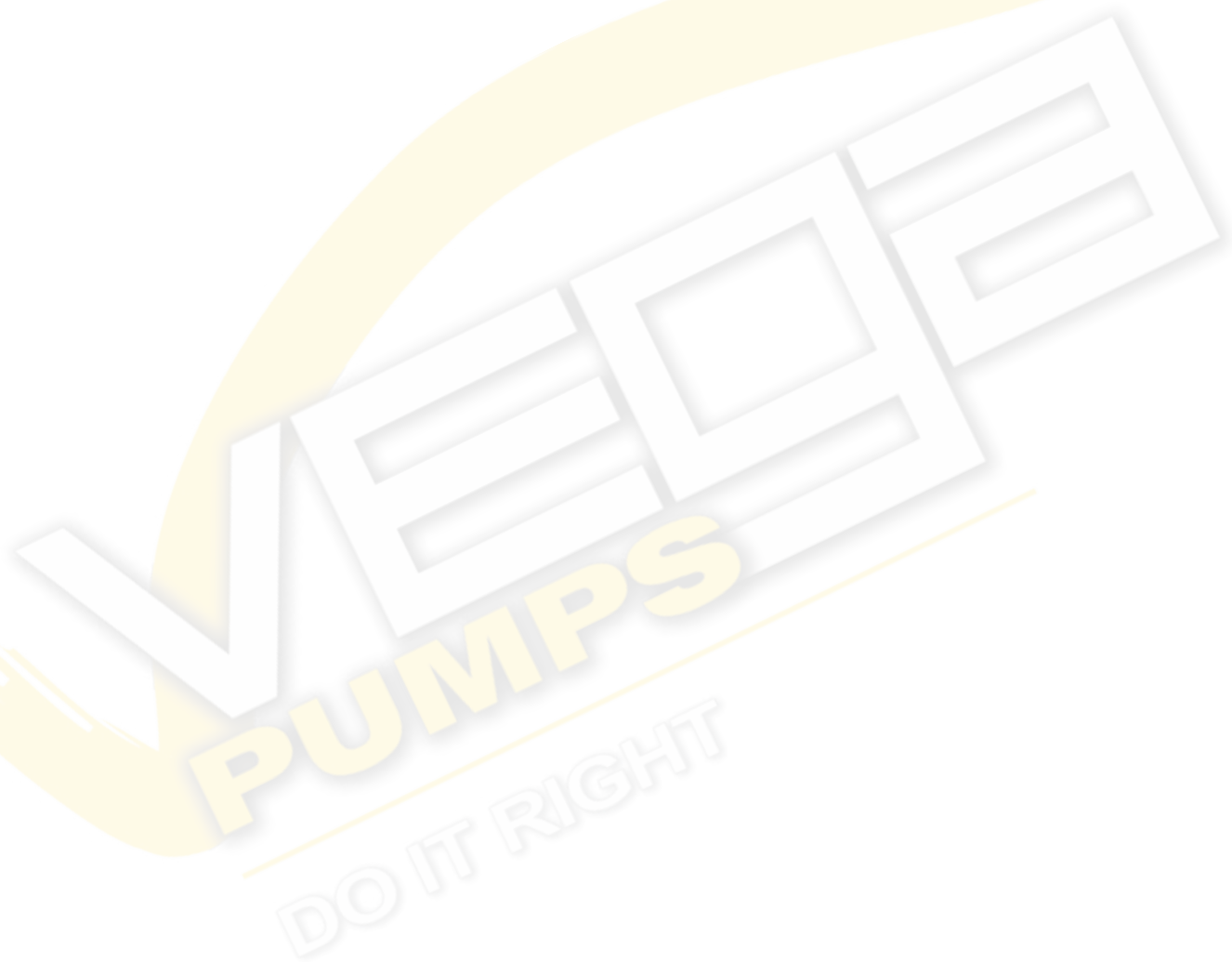
VTS SUBMERSIBLE RANGE

EXPLODED VIEW

Index	Part name	Qty	Material
01	Hose coupling	1	Cast iron
02	Handle	1	Steel
03	Terminal box	1	Cast iron
04	Terminal block	4	Cu
05	Upper cover	1	Cu
06	Upper support	1	Cast iron
07	Bearing house	1	Cast iron
10	Seal house	1	Cast iron
11	Motor body	1	Cast iron
12	Outer casing	1	AISI304SS
14	Impeller	1	High chrome alloy
15	Diffuser	1	Ductile iron
21	Cable tube	1	NBR
22	Seat assembly	1	AISI304SS
25	Strainer	1	AISI304SS
27	Stator	1	
28	Rotor	1	
31a	Bearing	1	
31b	Bearing	1	
33	Motor protector	1	
34a	Mechanical seal	1	Sic-TC
34b	Mechanical seal	1	Sic-Sic
36a	O'ring	1	NBR
36b	O'ring	1	NBR
36c	O'ring	1	NBR
36d	O'ring	1	NBR
36e	O'ring	1	NBR
36f	O'ring	1	NBR
37a	Gasket	1	NBR
37b	Gasket	2	NBR
37c	Gasket	3	NBR
37d	Gasket	1	NBR
37e	Gasket	x	PVC
41a	Bearing fixing plate	1	
41b	Shim	1	
41c	Cable clamping band	1	
42a	Bolt	5	AISI304SS
42b	Bolt	4	AISI304SS
42c	Screw	2	AISI304SS
42d	Bolt	8	AISI304SS
42e	Screw	1	
42f	Bolt	1	
42g	Screw	3	AISI304SS
42h	Screw	8	Cu
42l	Screw	2	AISI304SS
42J	Screw	2	
42k	Bolt	4	AISI304SS
42L	Bolt	8	AISI304SS
42m	Stud	4	AISI304SS
43a	Nut	1	AISI304SS

Index	Part name	Qty	Material
43b	Cable nut	1	Cu
43c	Cap nut	1	AISI304SS
43d	Nut	1	AISI304SS
43e	Nut	4	AISI304SS
44a	Spring washer	5	AISI304SS
44b	Washer	4	AISI304SS
44c	Spring washer	16	AISI304SS
44d	Wave pad	1	65Mn
44e	Spring washer	3	AISI304SS
44f	Washer	1	AISI304SS
44g	Spring washer	4	
44h	Profiled pad	1	AISI201SS
44l	Washer	2	AISI304SS
44J	Spring washer	1	AISI304SS
44k	Washer	4	AISI304SS
45	Key	1	
46a	Circlips for shaft	1	65Mn
46b	Circlips for shaft	1	AISI304SS
47	Cable	1	
47J	Cable assembly	1	
48	Rubber sleeve	1	NBR
61	Chain	1	
62	Connecting terminal	8	Cu







SUBMERSIBLE RANGE
VXM

VXM SUBMERSIBLE RANGE

Screened Sewage: 0.55 - 0.75kW



Applications

The VXM range is designed for:

- Sewage treatment plants
- Industrial draining
- Agriculture irrigation

Operating conditions

Liquid temperature:

up to 40°C

Maximum solids:

35mm

Motor and Pump

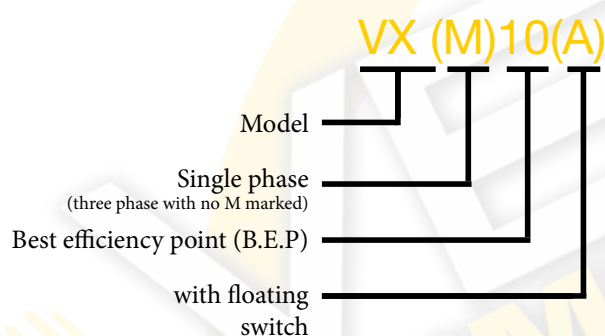
Rewindable motor.

Single-phase:

220 - 240V/50Hz

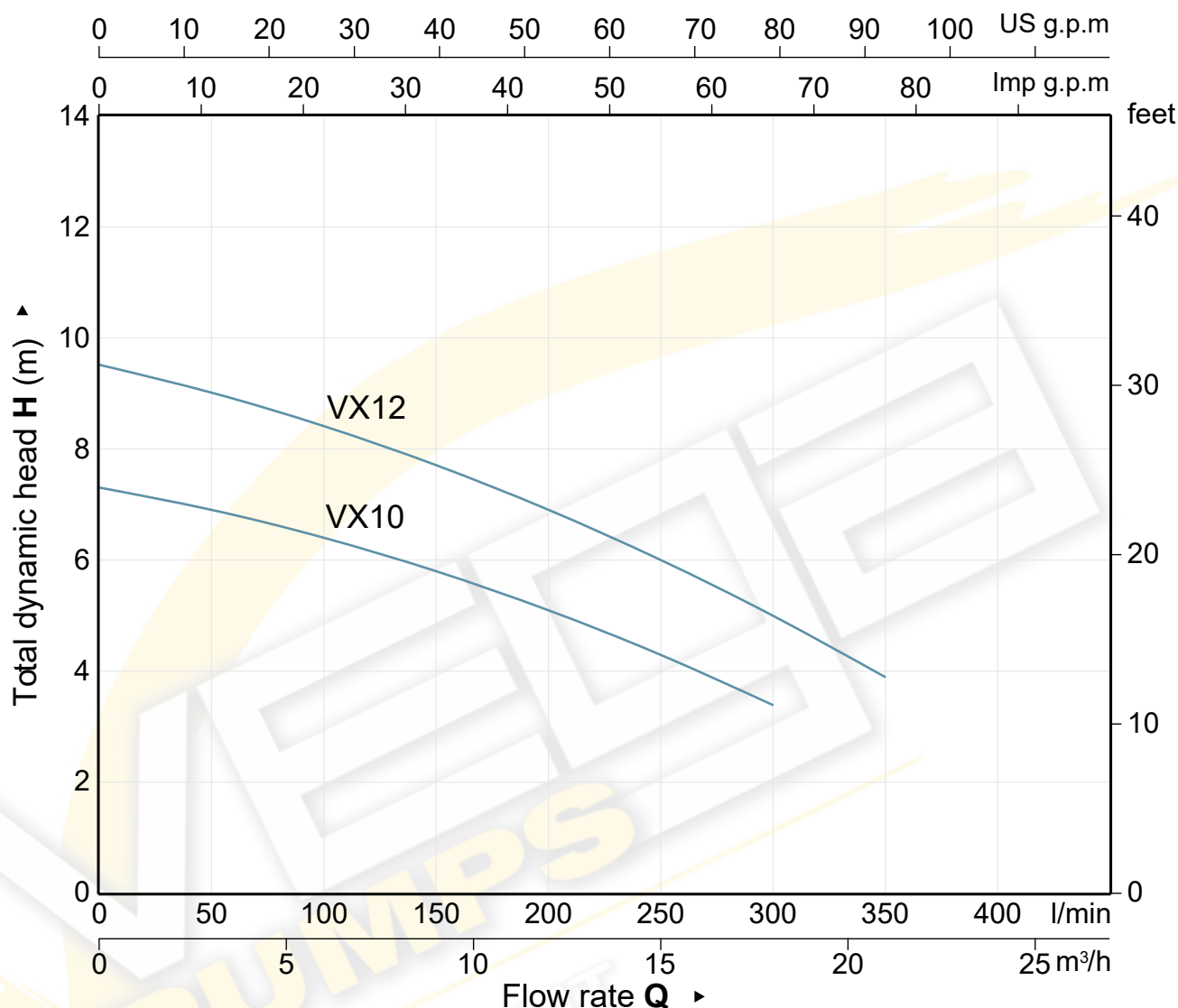
Three-phase:

380 - 415V/50Hz



Components	Material
Delivery casing	AISI 304 SS
Suction lantern	AISI 304 SS
Diffuser	1 AISI 304 SS 2 Cast-iron G20 UNI5007
Impeller	AISI 304 SS
Motor external casing	AISI 304 SS
Top Chock	AISI 304 SS
Bottom Support	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food





Technical features

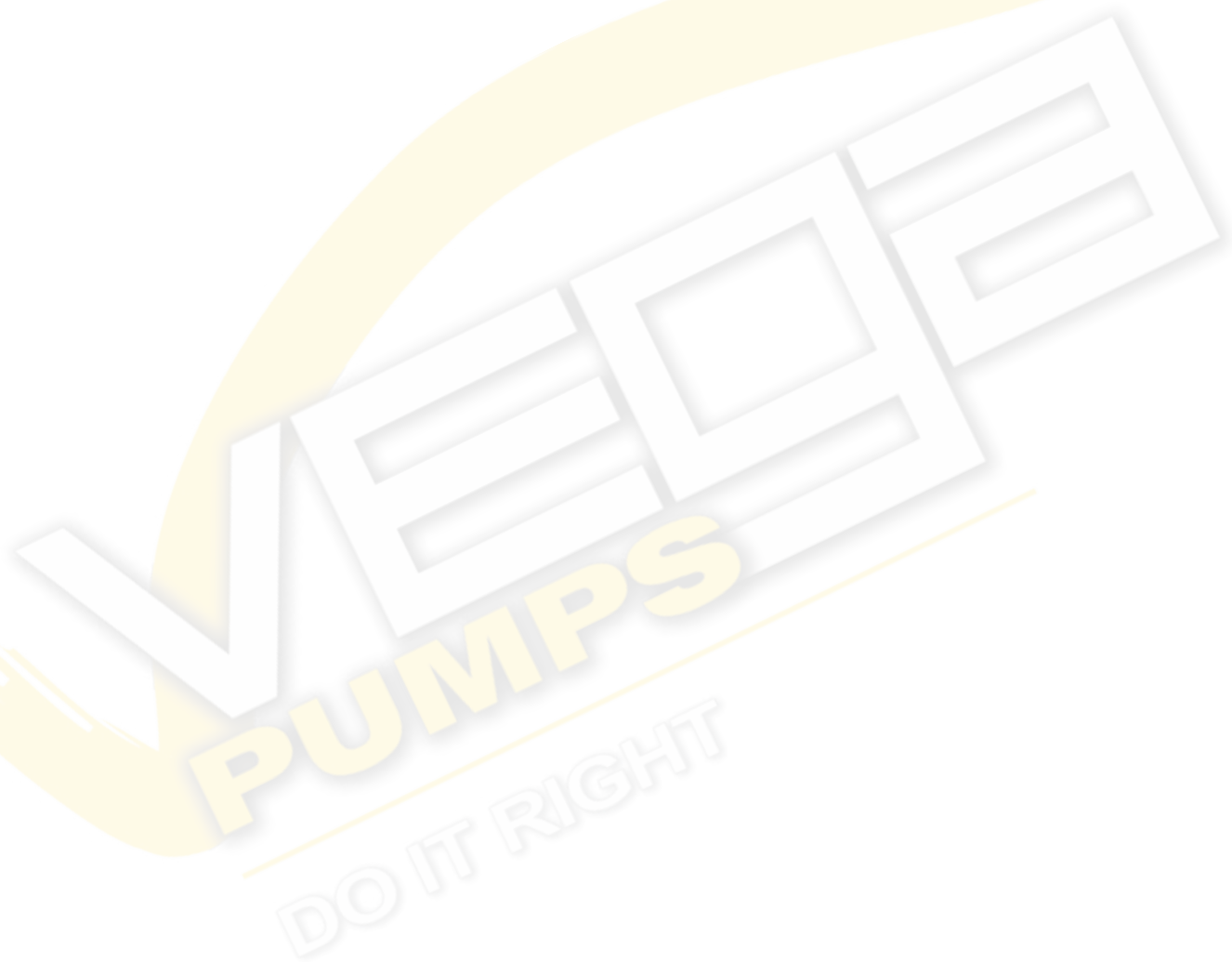
MODEL	POWER		DN	DIMENSIONS (MM)				WEIGHT (KG)	
	kW	HP		W	L	H(S)	H(T)	G(S)	G(T)
VXM 10-1 / VX10-1	0.75	0.55	2"	92	200	415	415	7.6	7.1
VXM 12-1 / VX12-1	1	0.75	2"	92	200	415	415	8.4	7.9

*Single phase fitted with float level switch

Specification at n=2900rpm

Performance

MODEL		P ₂		DELIVERY								
1 ~ 220 ~240	3 ~ 380 ~415	kW	HP	m ³ /h	0	3	6	9	12	15	18	21
				l/min	0	50	100	150	200	250	300	350
VXM 10-1	VX 10-1	0.55	0.75	H (m)	7.3	6.9	6.4	5.8	5.1	4.3	3.1	
VXM 12-1	VX 12-1	0.75	1		9.5	9.0	8.4	7.7	6.9	6.0	5.0	3.9





SUBMERSIBLE RANGE
WQF

WQF CHEMICAL SLUDGE PUMP



PERFORMANCE RANGE

Maximum Head:	17m
Maximum Flow:	70m ³ /h
Power:	3kW

OPERATING CONDITIONS

Liquid temperature:	up to 60°C
Liquid SG:	1.2kg/l
pH:	2-10
Maximum solids ratio:	10%
Viscosity:	3-6cPs
Maximum immersion depth	5m

MATERIALS OF CONSTRUCTION

316L Stainless steel pump construction.

316L Stainless steel impeller construction, open type single channel.

Separate cutter plate located on pump inlet.

Double mechanical shaft seal

(silicon carbide-silicon carbide/carbon graphite-ceramic).

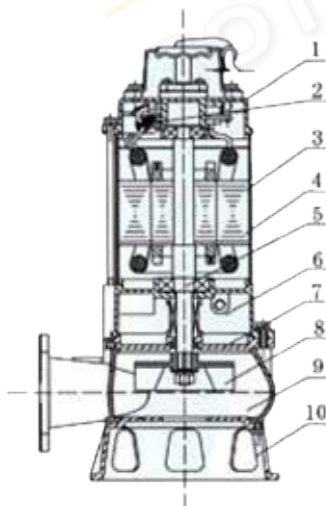
Viton Elastomer's (including cable shroud).

MAINTENANCE

Replace oil after 500 hours of operation.

Pressure test at 0.2mPa for 5 minutes.

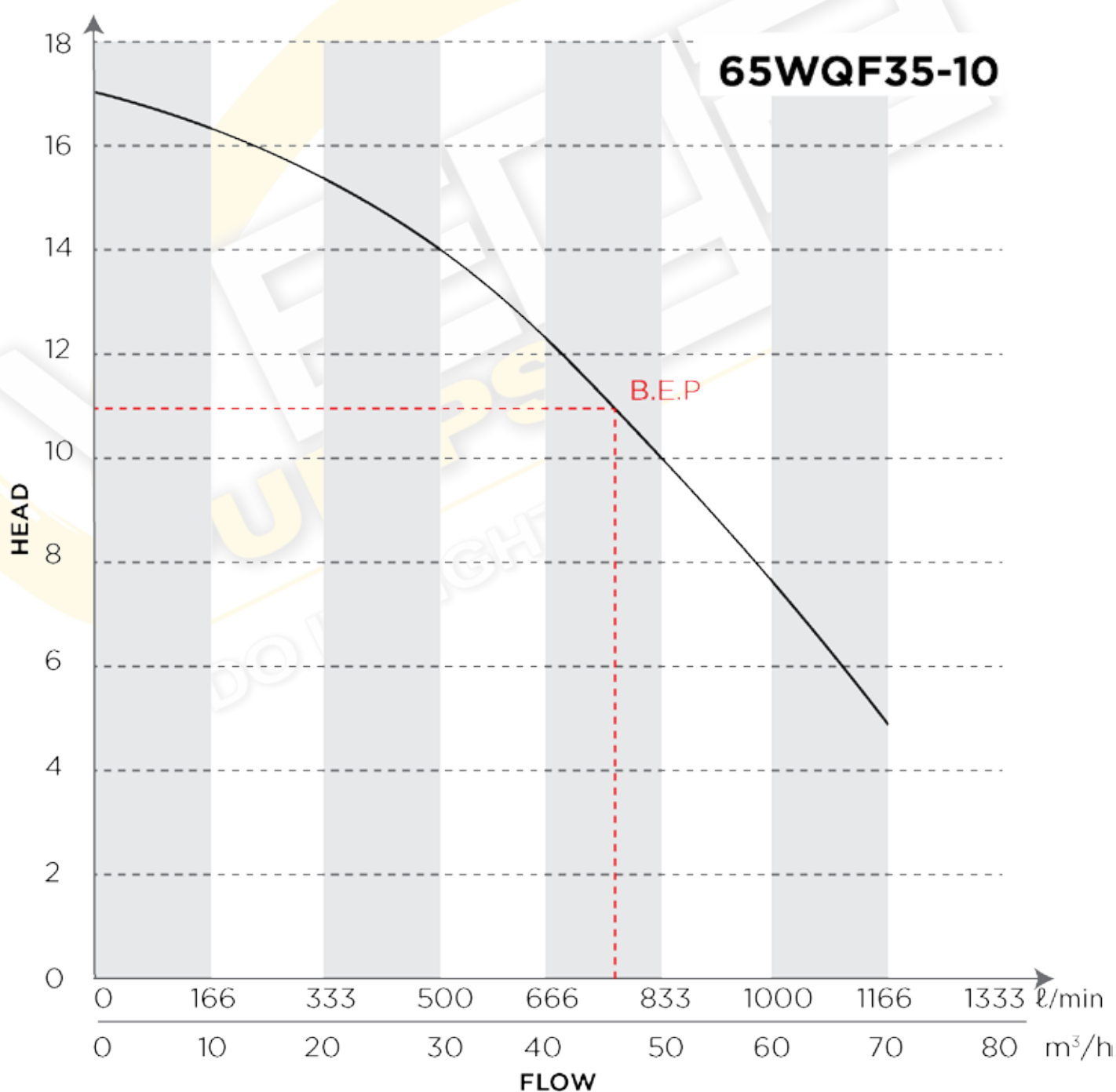
PUMP PARTS



NO.	PART NAME	MATERIAL
1	Cover	Stainless Steel 316L
2	Thermal protector	
3	Pump body	Stainless Steel 316L
4	Motor stator	
5	Rotor	Stainless Steel 316L
6	Oil room	Stainless Steel 316L
7	Impeller cover	Stainless Steel 316L
8	Impeller	Stainless Steel 316L
9	Pump casing	Stainless Steel 316L
10	Pump base	Stainless Steel 316L

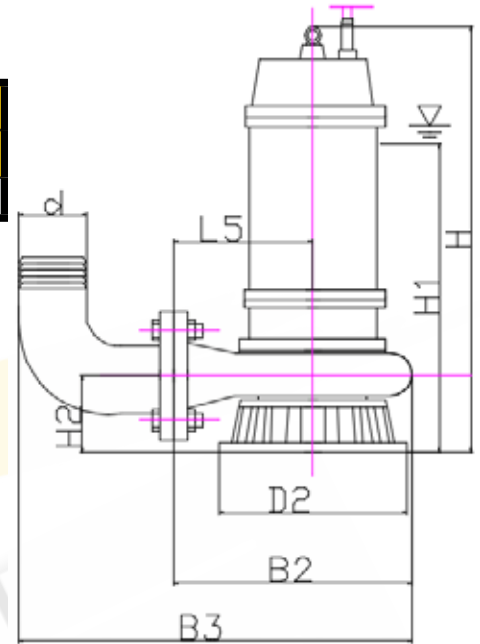
MODEL	MOTOR				PUMP			WEIGHT
	POWER	VOLTAGE	SPEED	HERTZ	FLOW	HEAD	OUTLET	
	(kW)	(V)	(rpm)	(Hz)	(m ³ /h)	(m)	(mm)	
65WQF35-10-3T3	3	380	2860	50	35	12	65	48
65WQF35-10-3T5	3	525	2860	50	35	12	65	48

PERFORMANCE CURVE



DIMENSIONS

MODEL	H	H1	H2	D2	B2	B3	I5	d
	(mm)							
65WQF35-10-3	520	420	98	225	270	375	158	65



GUIDELINES

1. Ensure that pump has not been damaged during transportation or installation.
2. Check for coolant leakage.
3. Ensure that the impeller rotates normally.
4. Make sure that the power source, voltage and frequency are providing the correct inputs (Voltage $380 \pm 5\%$, Frequency $50\text{Hz} \pm 1\%$).
5. Check that the cable, connector box and cable inlet seal are intact and take measurements immediately should any leakage be detected.
6. Do not lift the pump by its cable so as to avoid damaging it.
7. Use a 500V megohm meter to test the resistance of the ground motor windings. If this value is not greater than $2\text{M}\Omega$, there is a leak in the stator's insulation or moisture in the windings. The pump must be assess and repaired.
8. Do not pump flammable or explosive liquids, or strong chemicals with this pump.
9. Ensure that the pump's rotating direction is counter clockwise when seen from the inlet side. If you find that the pump is rotating in the opposite direction, exchange any two wires in the cable.
10. Once the pump has been operating for a year, it is recommended that it be examined and the oil in the oil chamber, mechanical seal, bearing lubricant and any other necessary parts be replaced. It is not necessary to replace the grease in the enclosed bearings during the pump's service life.
11. Adjust the impeller gap to ensure constant capacity and efficiency should the seal ring (between the impeller and pump housing) become worn.
12. If the pump is idle for several months, it is recommended that it be removed from the water in order to prevent the dampening of its windings and extend its service life.
13. When removing or installing the pump, ensure that it is handled with care.



SUBMERSIBLE RANGE
WSD

WSD SUBMERSIBLE RANGE

Screened Sewage: 0.18 - 3.7kW



Applications

The WSD range is designed for:

- Sewage treatment plants
- Industrial draining
- Agriculture irrigation

Operating conditions

Liquid temperature: up to 40°C

Motor and Pump

Rewindable motor.

Single-phase: 220 - 240V/50Hz

Three-phase: 380 - 415V/50Hz

This range can also work in water containing fiber.

Motor and Pump

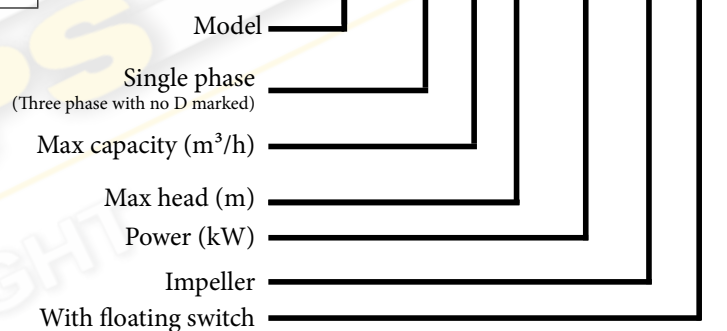
(according to our general sales conditions)



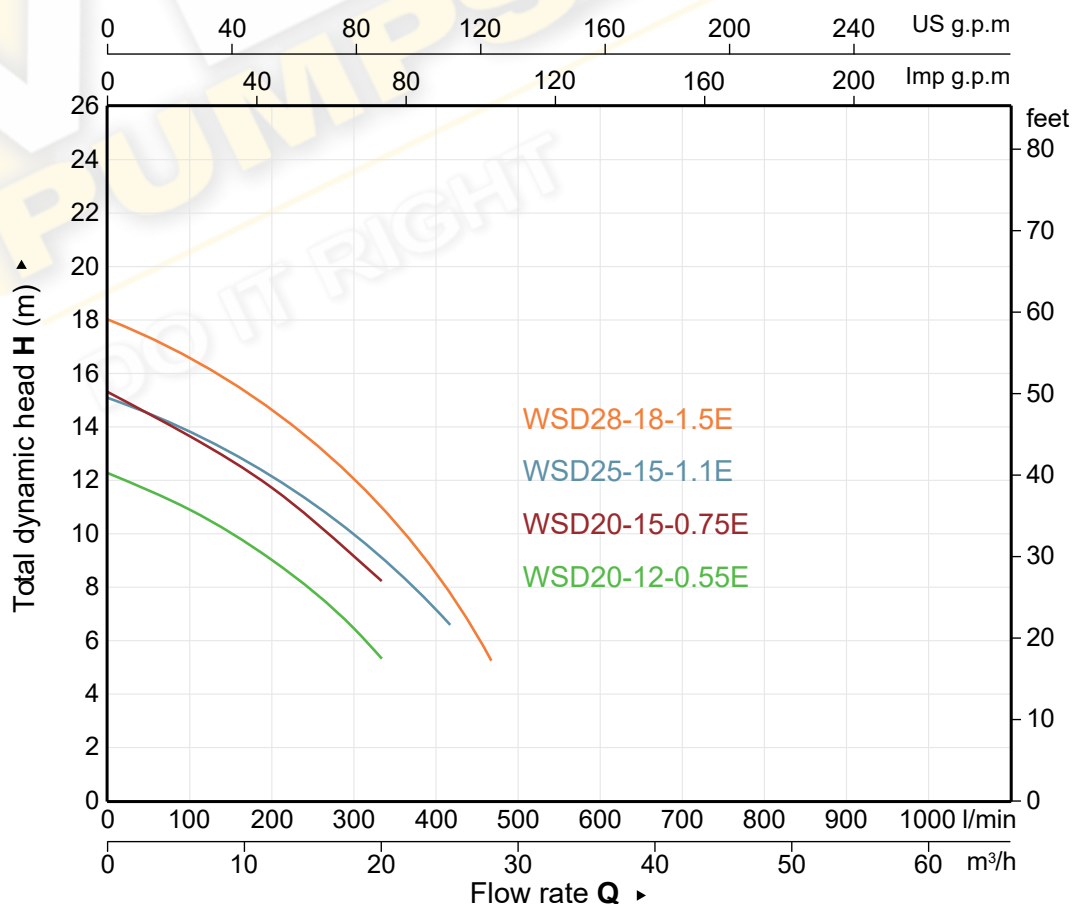
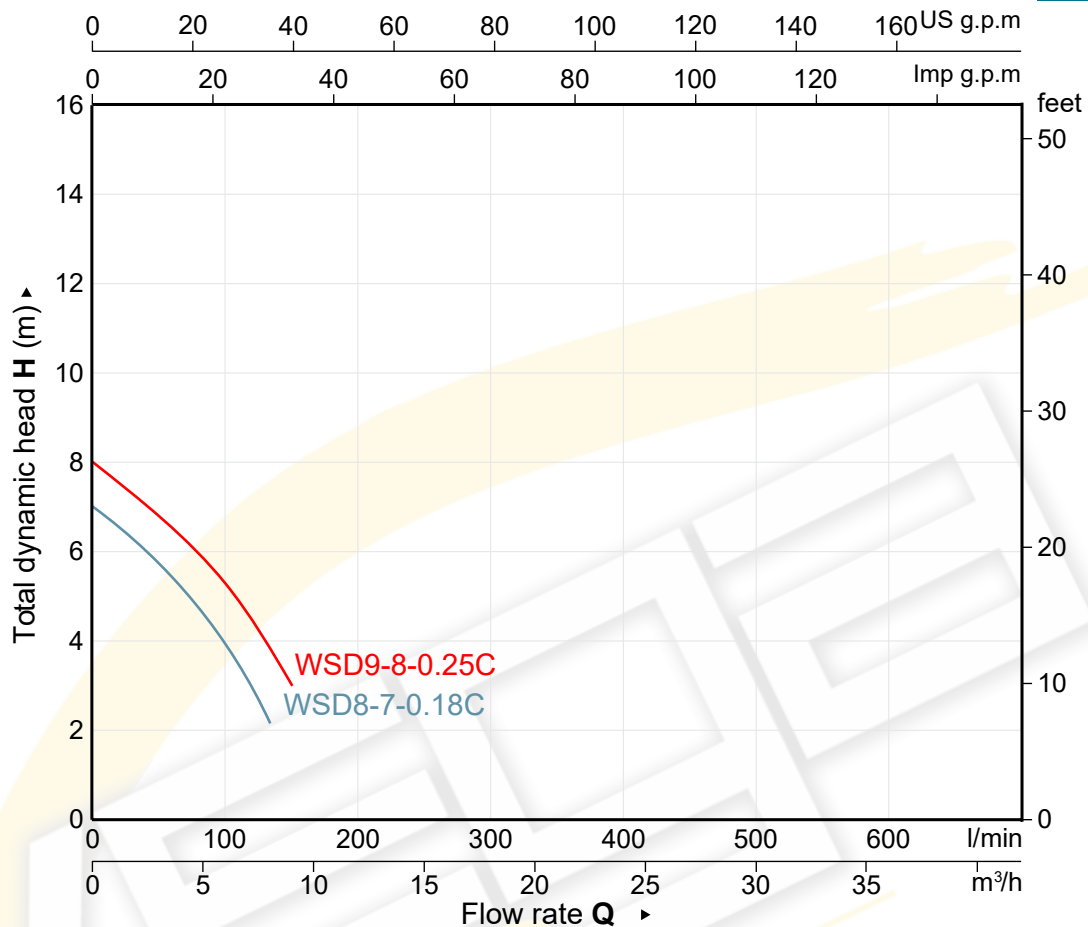
Components	Material
Motor external casing	AISI 304 SS
Mechanical seal	Graphite-Ceramic
Shaft	AISI 304 SS-ASTM 5140
Seal lubricant oil	Oil for food machinery and pharmaceutical use

Unshrouded impeller	Semi-open impeller
WSD8-7-0.18C	WSD15-10-0.37E
WSD9-8-0.25C	WSD20-12-0.55E
-	WSD20-15-0.75E
-	WSD25-15-1.1E
-	WSD28-18-1.5E
-	WSD35-22-2.2E
-	WS60-20-3E
-	WS65-25-3.7E

WS (D)8-7-0.18C(F)

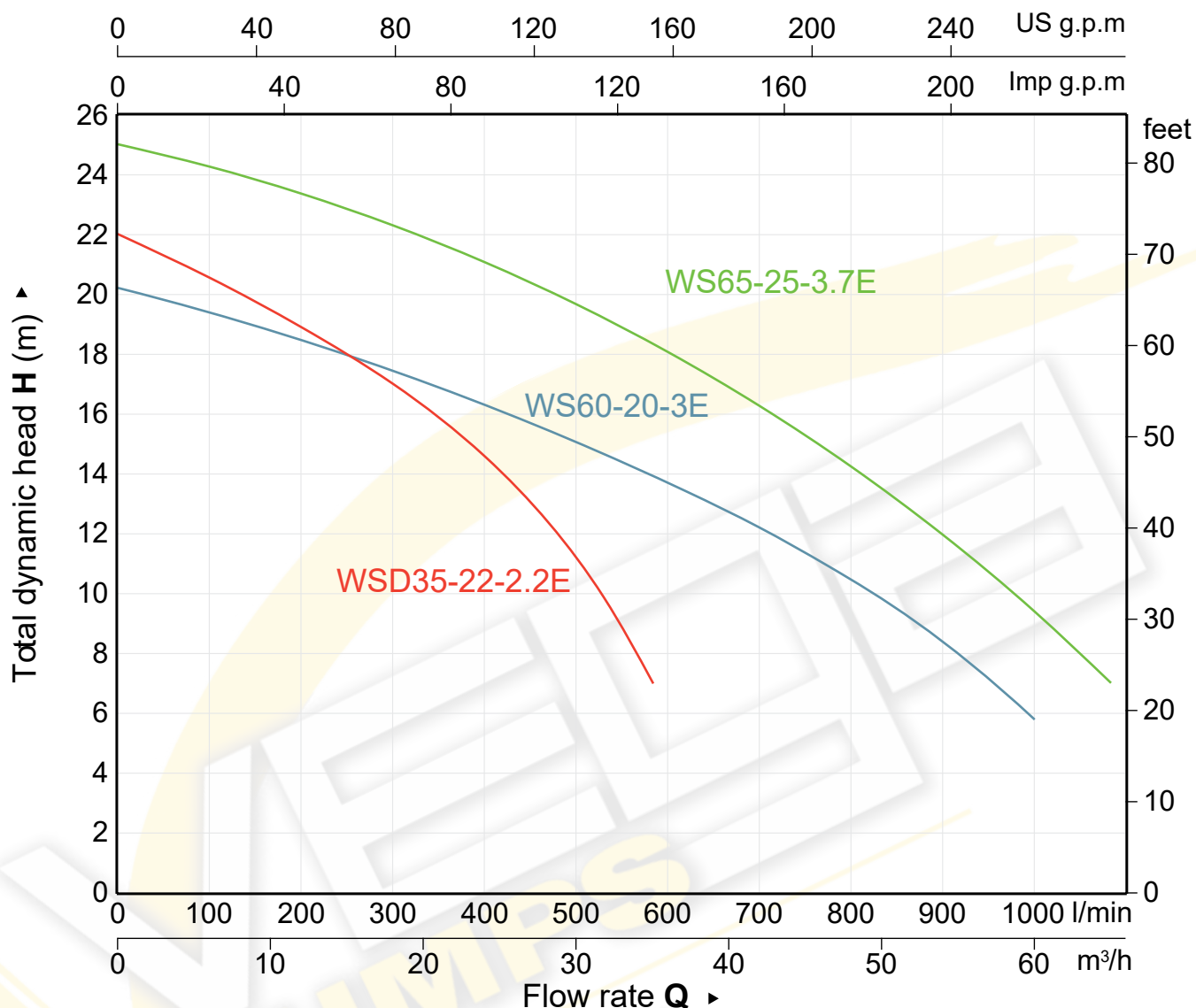


MODEL		POWER		DN	DIMENSIONS				WEIGHTS (KG)		THE MAX. FLOW PARTICLE (MM)
1~ 220 - 240V	3~ 380 - 415V	(kW)	(Hp)		W	L	H(S)	H(T)	G(S)	G(T)	
WSD8-7-0.18C	WS8-7-0.18C	0.18	0.25	1½"	65	170	400	390	12	11.5	15
WSD9-8-0.25C	WS9-8-0.25C	0.25	0.33	1½"	65	170	400	390	12.8	12.3	15
WSD20-12-0.55E	WS20-12-0.55E	0.55	0.75	2"	85	242	420	405	14.5	14	20
WSD20-15-0.75E	WS20-15-0.75E	0.75	1	2"	85	242	430	415	15.7	15.2	20
WSD25-15-1.1E	WS25-15-1.1E	1.1	1.5	2"	85	242	470	460	20	19	25
WSD28-18-1.5E	WS28-18-1.5E	1.5	2	2"	85	260	470	460	20	19	25
WSD35-22-2.2E	WS35-22-2.2E	2.2	3	2"	85	260	470	460	20	19	25
-	WS60-20-3E	3	4	3"	102	305	-	550	-	31	30
-	WS65-25-3.7E	3.7	5	3"	102	305	-	580	-	35.5	30



WSD SUBMERSIBLE RANGE

Performance Curve

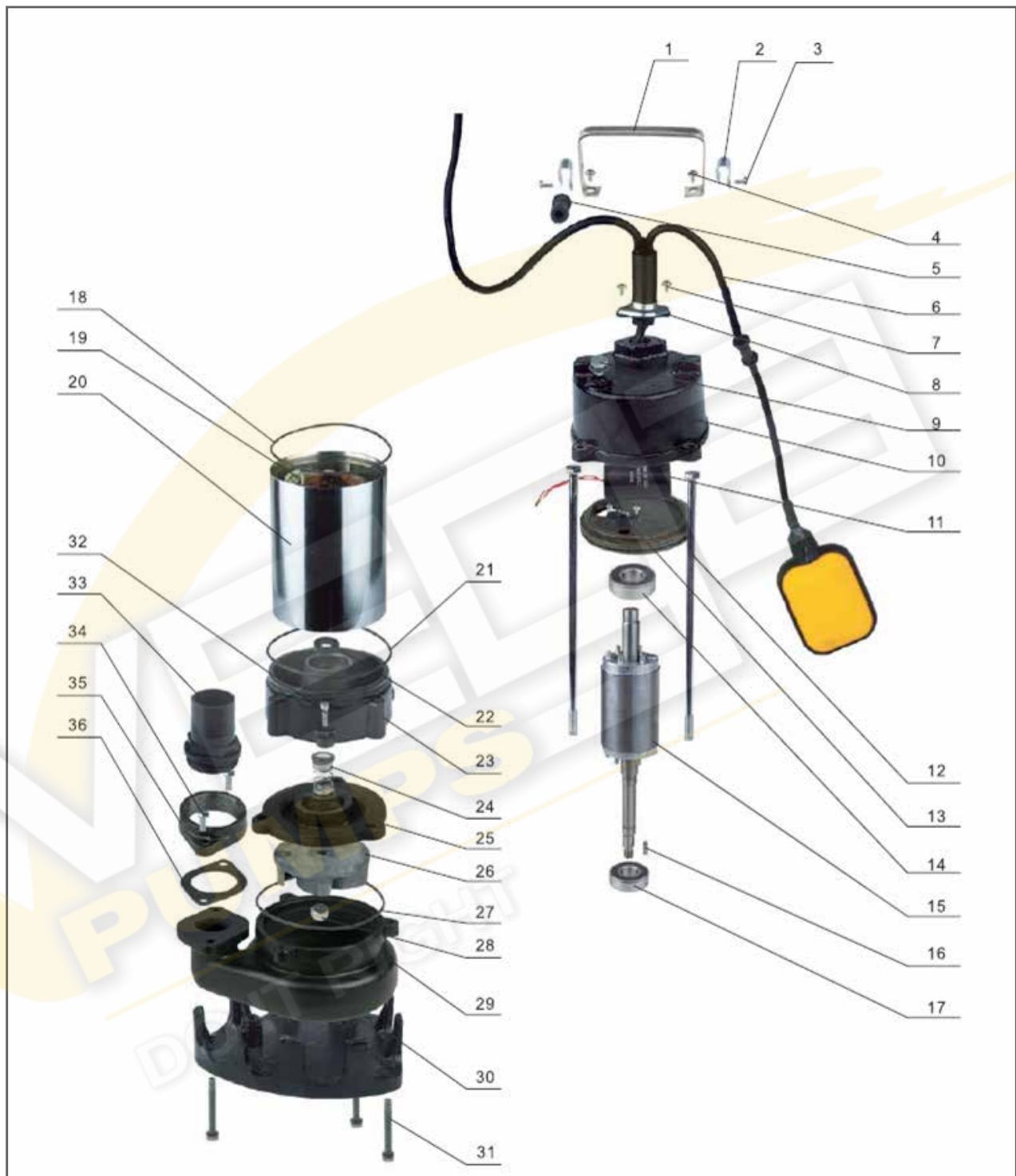


MODEL		P_2		DELIVERY				
1~ 220 - 240V	3~ 380 - 415V	kW	HP	m³/h	0	3	6	9
				l/min	0	50	100	150
WSD8-7-0.18C	WS8-7-0.18C	0.18	0.25	HEAD (m)	7.1	6.0	3.8	
WSD9-8-0.25C	WS9-8-0.25C	0.25	0.33		8.0	7.0	5.0	3.0

MODEL		P ₂		DELIVERY														
1~ 220 - 240V	3~ 380 - 415V			kW	HP	m³/h	0	5	10	15	20	25	30	35	40	45	50	55
				l/min	0	83	167	250	333	417	500	583	667	750	833	917	1000	1083
WSD20-12-0.55E	WS20-12-0.55E	0.55	0.75	HEAD (M)	12.1	10.7	9.7	7.8	5.3									
WSD20-15-0.75E	WS20-15-0.75E	0.75	1		15.5	13.1	12.4	10.5	8.2									
WSD25-15-1.1E	WS25-15-1.1E	1.1	1.5		15.1	13.5	12.7	11.1	9.1	6.6								
WSD28-18-1.5E	WS28-18-1.5E	1.5	2		18.2	16.4	15.3	13.4	11	7.7								
WSD35-22-2.2E	WS35-22-2.2E	2.2	3		22.0	20.3	19.5	18	16.3	14	10.9	7.2						
-	WS60-20-3E	3	4		20.2	19.5	18.7	17.9	17	16.1	15	13.9	12.7	11.3	9.8	8	5.8	
-	WS65-25-3.7E	3.7	5		25.0	24.4	23.6	22.8	21.9	20.8	19.7	18.4	16.9	15.3	13.5	11.5	9.4	7

WSD SUBMERSIBLE RANGE

EXPLODED VIEW



DIAGRAM

No.	Description	No.	Description	No.	Description	No.	Description	No.	Description
1	Handle	9	Exhaust Plug	17	Bearing	25	Oil Tank Cover	33	Outlet Pipe
2	Fairlead	10	Top Cover	18	O-Ring	26	Impeller	34	Screw
3	Screw	11	Capacitor	19	Stator	27	O-Ring	35	Flange
4	Screw	12	Screw	20	Canister	28	Impeller Nut	36	Washer
5	Guard	13	Over-Load Protector	21	O-Ring	29	Pump Body		
6	Flow Switch	14	Bearing	22	Oil Seal	30	Pump Base		
7	Screw	15	Rotor	23	Oil Tank	31	Screw		
8	Seal Pressure Block	16	Key	24	Mechanical Seal	32	Screw		