

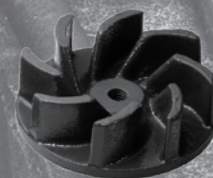
SUBMERSIBLE VORTEX SEWAGE PUMP

EW

SERIES 50HZ



50EW-5.05~10



Vortex Impeller

Features

- Vortex impeller design
- Minimized abrasive wear
- Large impeller clearance
- EKK Eagle Burgmann double mechanical seal

Applications

- For heavy-duty applications
- Medium concentration wastewater

Specifications

Liquid Temperature		0~40°C (32~104°F)
Submersible depth		10M
Motor Part	Frequency	50Hz
	Pole	2 Pole
	Type	Dry Type
	Insulation	0.5~3HP:Class B;5~7.5HP:Class F
	Protection	IP 68
Pump Part	Protector	Auto-cut
	Bearing	Ball Type
	Mechanical seal	Double Mechanical Seal
	Impeller	Vortex Impeller

Data Chart

Type	Output		Discharge	F.L.A.		Rated		Maximum		Free Passage	Weight(W/O Cable)		Q.D.C.
	HP	kW		1ø 230V	3ø 400V	Head M	Cap. LPM	Head M	Cap. LPM		1ø-kg	3ø-kg	
50(80)EW-5.20	2	1.5	2"(3")	11.8A	3.6A	10	430	19	650	45	34	33.9	QM-80
50(80)EW-5.30	3	2.2	2"(3")	15A	4.5A	13	410	20	750	45	38.1	34.4	QM-80

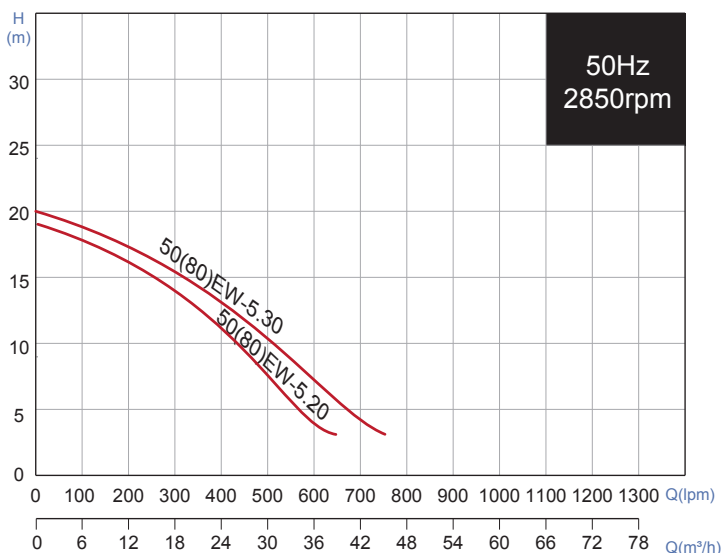
» 50EW-5.05 : Flange Type

» 50EW-5.10 : Flange Type / Elbow Type is optional.(2"or 3" / Fit with Q.D.C. QM-80)

» 50(80)EW-5.20~30 : Elbow Type

» 80(100)EW-5.50~75 : Elbow Type

Performance Curve



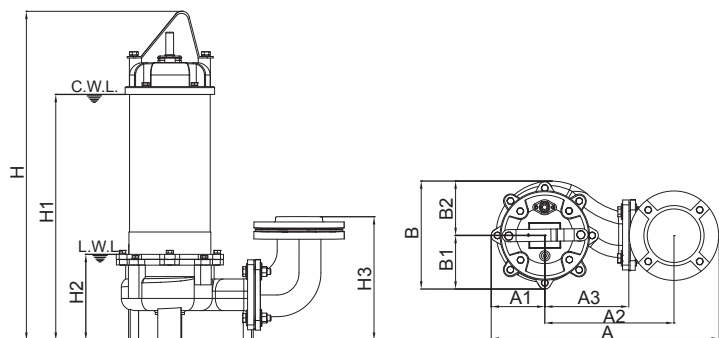
All technical information is subject to change without notice.



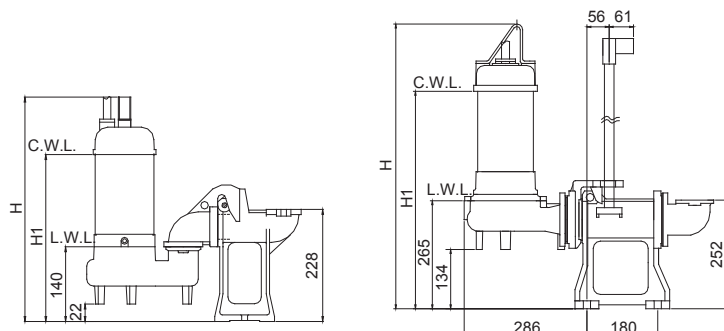
QS for flange type volute



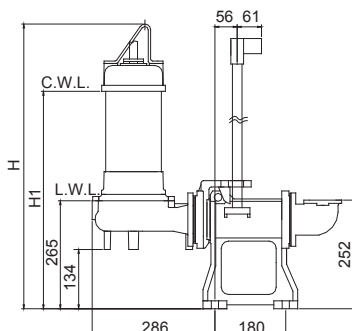
QM for elbow type volute



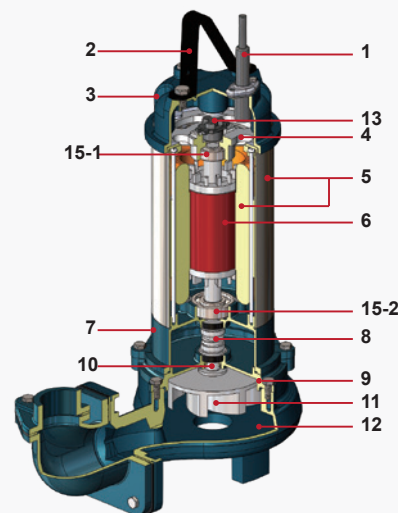
80(100)EW-5.50~75



50EW-5.05~10 With QS



50(80)EW-5.20~30 With QM



Parts and Material List

No.	Part	Material
1	Cable	H07RN-F/SJTOW/STOW
2	Handle	Nylon 6(0.5~1HP) / ASTM A36(2~7.5HP)
3	Motor Cover	Nylon 66(0.5HP) / EN-GJL-200(2~7.5HP)
4	Bracket	EN-GJL-200
5	Motor Housing + Stator	AISI 304
6	Shaft with Rotor	AISI 410
7	Oil Chamber	EN-GJL-200
8	Mechanical Seal	Upper : CA / CE Lower : SIC / SIC
9	Seal Housing	Nylon(0.5HP) / EN-GJL-200(1~7.5HP)
10	Lip Seal	NBR
11	Impeller	EN-GJL-200
12	Pump Casing	EN-GJL-200
13	Protector	KLIXON
15-1	Upper Bearing	NTN/TPI
15-2	Lower Bearing	NTN/TPI

TPI is a family brand of NTN group.

Dimensions (mm)

Type	A	A1	A2	A3	B	B1	B2	H	H1	H2	H3
50(80)EW-5.20	390	103	235	151	210	105	105	532	400	150	152
50(80)EW-5.30S(T)	390	103	235	151	210	105	105	S:572;T:552	S:440;T:420	150	152

- » Note1 : S: Single Phase ; T: Three Phase
- » Note2 : Automatic models are available in single-phase versions(0.5~2HP) and in three-phase versions(0.5~2HP).
- » Note3 : Q.D.C. (Quick Discharge Connection) is available for all models.
- » Note4 : *50(80)EW-5.10 is Elbow Type.
- » Note5 : 80(100)EW-5.50E is economical type which with smaller size motor frame to make it as 5HP.

EW with QS/QM

Type	Output		Discharge		Dimensions(mm)	
	HP	kW	Inch	mm	H	H1
EW with QS	0.5	0.37	2"	50	434	319
	1	0.75	2"	50	509	367
EW with QM	1	0.75	2"(3")	50(80)	625	482
	2	1.5	2"(3")	50(80)	715	545
	3	2.2	2"(3")	50(80)	S:755;T:735	S:585;T:565
	5(E)	3.7	3"(4")	80(100)	737	565
	5	3.7	3"(4")	80(100)	775	597
	7.5	5.5	3"(4")	80(100)	815	637