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# E-Series

• Drainage • Sewage • Contractor • Jet Aerator

# PUMP



# Evak Pump Technology Corp.

— With experience at the helm.

At Evak we are proud of the long term experience and know how matured in the design of pumps and pumping related equipment. The traditional and well known Taiwanese skill at manufacturing reflects in the quality of our products.

**Kenny K.**  
EVAK PUMP TECHNOLOGY CORP.

# Introduction



Single phase only up to 2HP.

Index		EUS	EUB(S/I)	EUBR(S/I)	EUB	ESA	EJ	EP	EFSS	EF	EL	EG	EW	EWS	EWSS	HIPPO	EA	EC	ESV	ECF	ECW	ECL	ECM	
Voltage	1PH	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	3PH	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Type	Drainage																							
	Sewage Contractor	•	•	•	•	•																		
Duck Foot	Submersible Jet Aerator						•																	
	QS QM Cast Iron						•						•					•						
	SQS SQM 304/316 SST													•										
HP	QH Cast Iron															•								
	0.15							•											•					
	0.2							•											•					
	0.3																		•					
	0.5	•	•	•			•			•	•		•	•		•	•	•	•					
	0.75																		•					
	1	•	•	•			•		•	•	•		•	•	•	•	•	•	•		•	•		
	1.5																							
	2	•	•																					
	3				•		•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
	5				•		•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
	7.5				•		•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•
10				•		•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
15				•		•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
20				•		•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
30				•		•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
40				•		•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
50				•		•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	
60				•		•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	

## EUS



Steel coated with thermoplastic polyester elastomer

### Materials

Mech. Seal	SIC/SIC+CA/CE
Shaft	SUS 410
Impeller	Hytrel
Solids Handling Cap.	1" x 3/8"

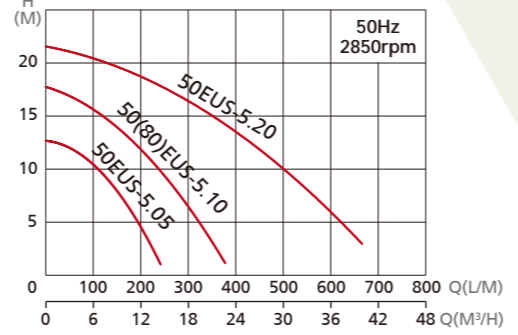
### Feature

- High abrasive resistance resin Vortex impeller
- Double mechanical seal / Designed Agitator
- Auto reset thermal protector / Non air locking
- Auto version for small pit usage

### Application

- Residential, commercial, industrial dewatering and site drainage
- Decorative waterfalls and fountains.
- Raw water supply from lakes or rivers.
- Sediment removal from small sumps of basins

### Performance Curve



Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
50EUS-5.05	0.5	0.37	2"	3	0.9	10	109	12.7	242	2	6	12
50EUS-5.05A	0.5	0.37	2"	3	0.9	10	109	12.7	242	2	6	12.5
50(80)EUS-5.10	1	0.75	2"(3")	5.6	1.9	12	196	18	378	2	6	15
50(80)EUS-5.10A	1	0.75	2"(3")	5.6	1.9	12	196	18	378	2	6	15.5
50(80)EUS-5.20	2	1.5	2"(3")	13	3.5	16	315	21.5	666	2	6	19
50(80)EUS-5.20A	2	1.5	2"(3")	13	3.5	16	315	21.5	666	2	6	19.5

## EUB



High Chrome Steel Impeller

### Feature

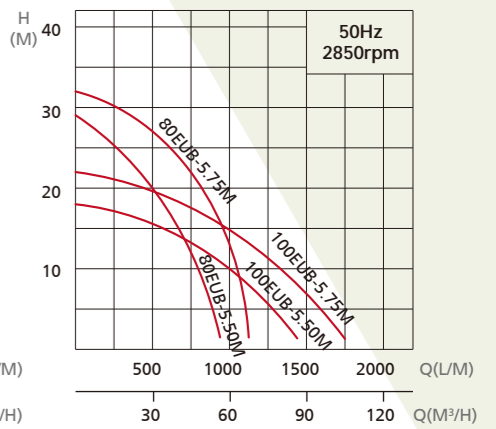
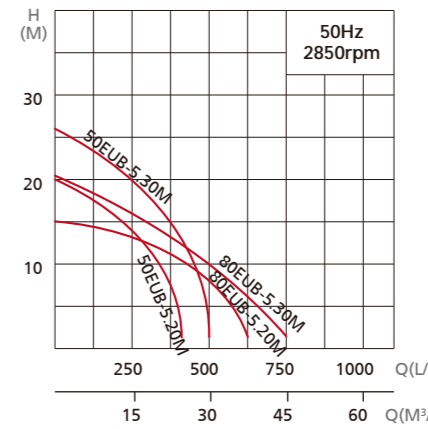
- High abrasive resistance resin Vortex impeller
- Stainless steel outer case & strainer
- Double mechanical seal
- SST 410 motor shaft
- High cooling effect & long-lasting running

### Application

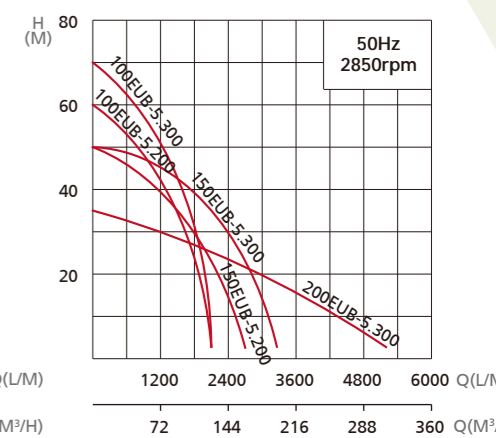
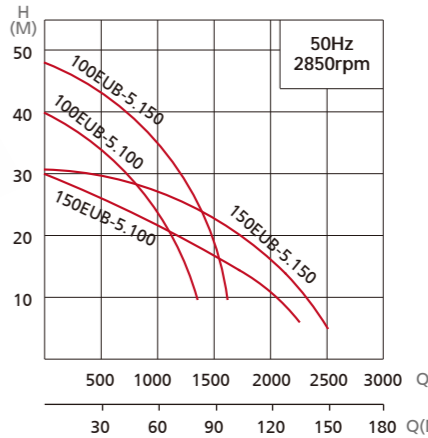
- Residential, commercial, industrial dewatering and site drainage
- Construction sites and civil engineering projects

### Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	High Chrome Steel



Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
50EUB-5.20M	2	1.5	2"	10.7	3.5	14	250	20	430	2	9	33
80EUB-5.20M	2	1.5	3"	10	3.5	8	500	14.5	670	2	9	33
50EUB-5.30M	3	2.2	2"	-	4.9	15	300	26	500	2	9	35
80EUB-5.30M	3	2.2	3"	-	4.9	10	500	20.5	700	2	9	35
80EUB-5.50M	5	3.7	3"	-	9	20	500	29	900	2	10	42
100EUB-5.50M	5	3.7	4"	-	9	10	1000	18	1440	2	10	42
80EUB-5.75M	7.5	5.5	3"	-	12.4	25	600	32	1100	2	10	60
100EUB-5.75M	7.5	5.5	4"	-	12.4	15	1000	22.5	1750	2	10	60
100EUB-5.100	10	7.5	4"	-	16.5	28	700	42	1600	2	15	93
150EUB-5.100	10	7.5	6"	-	17	15	1500	28	2250	2	15	97
100EUB-5.150	15	11	4"	-	24	35	1000	48.5	1450	2	15	135
150EUB-5.150	15	11	6"	-	24	20	1700	32.5	2450	2	15	137
100EUB-5.200	20	15	4"	-	33	40	1000	56	1700	2	15	141
150EUB-5.200	20	15	6"	-	33	30	1500	45	2500	2	15	142
100EUB-5.300	30	22	4"	-	50	55	1000	70	2000	2	15	256
150EUB-5.300	30	22	6"	-	49.5	35	2000	50	3200	2	20	259
200EUB-5.300	30	22	8"	-	43	20	2900	35	5200	2	20	264



## EUB/EUBS(I)/EUBR/EUBRS(I)



Steel coated with thermoplastic polyester elastomer



EUBS(I)/EUBRS(I) Impeller in SUS304 or SUS 316

### Feature

- High abrasive resistance resin Vortex impeller
- Double mechanical seal
- Auto reset thermal protector
- Compact design & Lightweight
- Oil free motor & SUS 410 motor Shaft

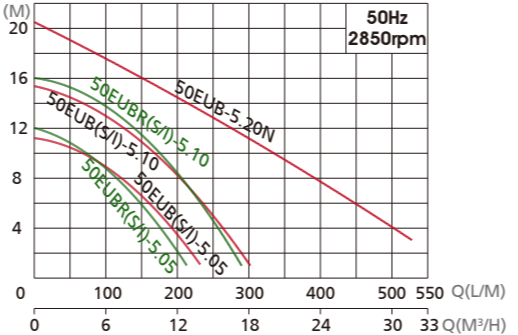
### Application

- Residential, commercial, industrial dewatering and site drainage
- Construction sites and civil engineering projects
- Basement, parking lots, removing residue water (EUBR/EUBRS/EUBRI)

### Materials

	EUB/EUBR	EUBS/EUBRS	EUBI/EUBRI
Mech. Seal	SIC/SIC+CA/CE	SIC/SIC+CA/CE	SIC/SIC+CA/CE
Shaft	SUS 410	SUS 304	SUS316
Impeller	Hytrel	SUS 304	SUS316

### Performance Curve



Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
50EUB(S/I)-5.05	0.5	0.37	2"	3	0.9	8	122	11.4	232	2	6	12
50EUBR(S/I)-5.05	0.5	0.37	2"	3	0.9	8	115	12	213	2	2	11
50EUB(S/I)-5.10	1	0.75	2"	5	1.9	10	168	15.2	302	2	6	15
50EUBR(S/I)-5.10	1	0.75	2"	5	1.9	10	176	16	290	2	2	14
50EUB-5.20N	2	1.5	2"	12	3.5	11	305	20.6	528	2	6	24

# Contractor

# Drainage

## ESA



### Feature

- Semi-open, Ductile iron impeller
- Double inside mechanical seals with silicon carbide faces
- High efficiency
- Built in thermal & amperage sensing
- Double shielded
- Top discharge

### Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	High Chrome Steel
Agitator	High Chrome Steel

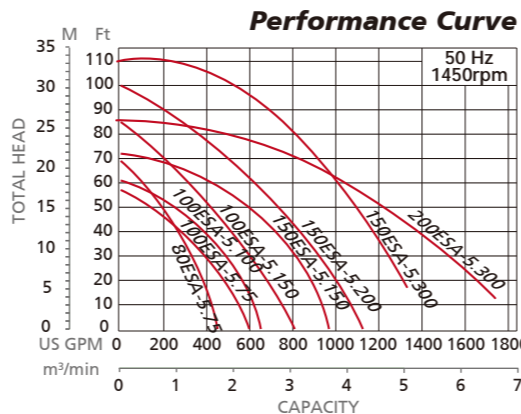


High Chrome Steel Impeller + Agitator

### Application

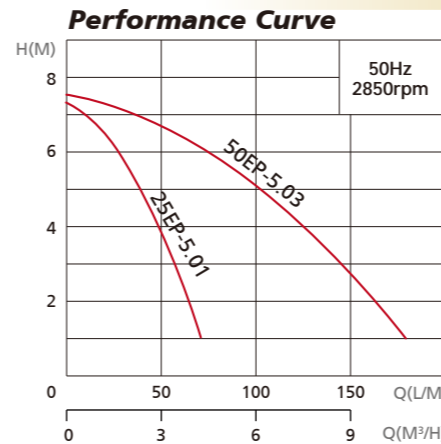
ESA Heavy-Duty Submersible Slurry Pumps with agitator is the choice of industries that face the most difficult pumping :

- Lime slurries • Mill Scale • Coal runoff sumps
- Wash down sumps • Ash transfer • Tailings ponds
- Slag pits • Food wastes • Silt removal
- Sand & gravel dewatering • Barge & tank cleanout



Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
80ESA-5.75	7.5	5.5	3"	-	15	14	850	21	1700	4	25	123
100ESA-5.75	7.5	5.5	4"	-	15	12	1100	17.5	2250	4	25	124
100ESA-5.100	10	7.5	4"	-	16	14	1200	18.5	2480	4	25	124
100ESA-5.150	15	11	4"	-	23	16	1500	26	3100	4	25	191
150ESA-5.150	15	11	6"	-	23	17	1900	22	3700	4	35	192
150ESA-5.200	20	15	6"	-	30	20	2100	30.5	4300	4	35	201
150ESA-5.300	30	22	6"	-	50	24	2800	30	5000	4	30	345
200ESA-5.300	30	22	8"	-	50	18	3800	24	6500	4	38	355

## EP



### Feature

- Thermoplastic Motor Housing
- Light weight / Tough design
- Thermal-overload protected
- Oil free

### Application

- Home Water Removal Application  
Such as draining Window Wells
- Tanks Boats
- Basements and Garden
- Elevator Pit



Plastic Impeller

### Materials

Mech. Seal	CA/CE(EKK)
Shaft	S45C
Bearing	NTN

# Submersible Jet Aerator

## EJ



### Feature

- High oxygen transfer rate
- BOD easy to remove from wastewater treatment
- Mixing and stirring applications for uniform MLSS
- Fine bubbles convention

### Application

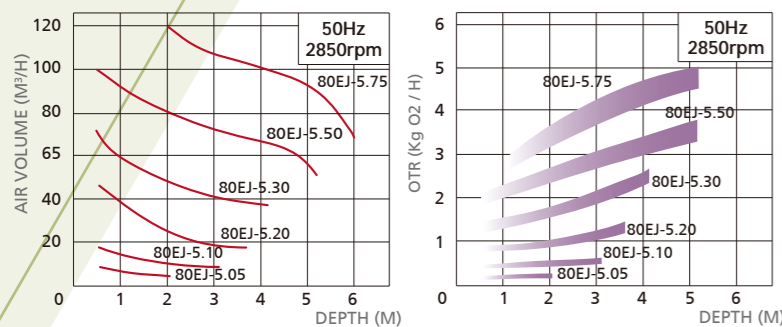
- The wastewater treatment aeration and agitation

Type	Output		Discharge Inch	F.L.A.		Rated AIR m³/hr	Pole	Free Passage mm	Weight kg		
	HP	KW		1ø 230V	3ø 400V						
80(T)EJ-5.05	0.5	0.37	3"	4	1.2	5	0.12~0.23	1.5	2	-	22.2(41.4)
80(T)EJ-5.10	1	0.75	3"	6	2	10	0.3~0.5	2	2	-	27(46.2)
80(T)EJ-5.20	2	1.5	3"	11.3	3.5	22	0.9~1.1	2.5	2	-	37.7(56.9)
80(T)EJ-5.30	3	2.2	3"	-	5.2	40	1.9~2.2	3	2	-	38.8(58)
80(T)EJ-5.50	5	3.7	3"	-	8.6	70	2.8~3.3	3.5	2	-	54(73.2)
80(T)EJ-5.75	7.5	5.5	3"	-	12	100	4.2~4.8	4	2	-	60(79.2)

### Materials

Mech. Seal	CA/CE+SIC/SIC
Impeller	FC 200
Shaft	SUS 410

### Performance Curve



## EFSS

### Feature

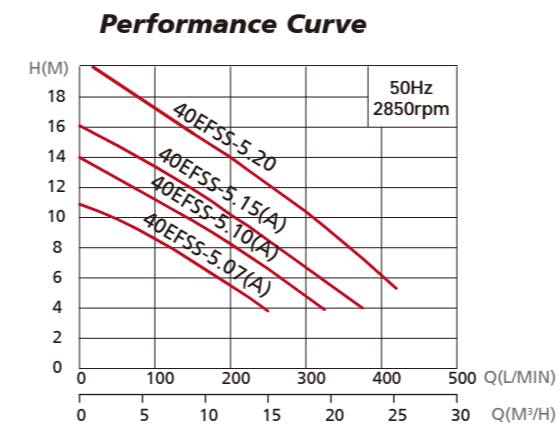
- 95% are made of stainless steel, can be used in harsh environments

### Application

- Emptying of septic tanks and residential sumps

### Materials

Mech. Seal	SIC/SIC/NBR
Impeller	SUS 304
Shaft	SUS 304



Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
40EFSS-5.07	0.75	0.55	1-1/2"	3.58	1.33	8.6	100	10.9	250	2	8	11
40EFSS-5.07A	0.75	0.55	1-1/2"	3.58	-	8.6	100	10.9	250	2	8	11.5
40EFSS-5.10	1	0.75	1-1/2"	4.78	2.07	11.2	100	14	325	2	8	14(1PH)/11(3PH)
40EFSS-5.10A	1	0.75	1-1/2"	4.78	-	11.2	100	14	325	2	8	14.5
40EFSS-5.15	1.5	1.1	1-1/2"	7.21	2.48	11.9	150	16.1	375	2	8	16(1PH) / 14(3PH)
40EFSS-5.15A	1.5	1.1	1-1/2"	7.21	-	11.9	150	16.1	375	2	8	16.5
40EFSS-5.20	2	1.5	1-1/2"	-	3.31	15.6	150	20.6	420	2	8	16



# Drainage

## EF



High Efficiency Impeller



### Materials

Mech. Seal	0.5HP~3HP: CA/CE+CA/CE 5HP~7.5HP: SIC/SIC+CA/CE
Shaft	SUS 410
Motor Housing	SUS 304
Bearing	NTN

### Feature

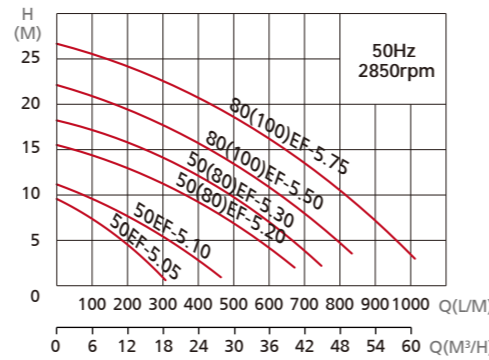
- Compact Design / light weight
- With High Efficiency Impeller
- Double Mechanical Seals
- Reliable Shaft sealing
- Automatic Operation (Optional)

### Application

- Light duty / basement drainage
- Rainwater effluent
- Accumulated water drainage

Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Cable M	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
50EF-5.05	0.5	0.37	2"	4	1.2	6	150	9.5	310	10	5	12.2
50EF-5.10	1	0.75	2"	6	2	9	150	11	450	10	5	19
50(80)EF-5.20	2	1.5	2"(3")	11.3	3.5	10	360	15.5	680	10	5.5	35.7
50(80)EF-5.30	3	2.2	2"(3")	-	5.2	11	450	18.5	800	10	5.5	36.8
80(100)EF-5.50	5	3.7	3"(4")	-	8.6	8	700	22.5	950	10	5.5	56
80(100)EF-5.75	7.5	5.5	3"(4")	-	12	12	750	26.5	1100	10	5.5	62

### Performance Curve



## EL



### Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	SUS 304
Shaft	SUS 304

### Feature

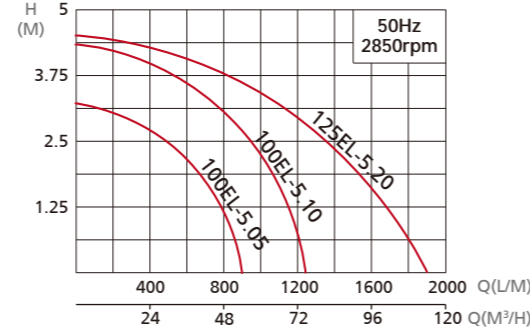
- Light weight
- Easy handling and low maintenance design
- Axial flow impeller design
- High abrasive and corrosion resistance

### Application

- Landscaping, gradening, irrigation and other water supply and drainage applications
- Aquiculture water supply and drainage

Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
100EL-5.05	0.5	0.37	4"	4	1.5	1.5	750	3.2	900	2	9	19
100EL-5.10	1	0.75	4"	5	2	2	1050	4.3	1250	2	9	20
125EL-5.20	2	1.5	5"	-	3.7	2	1500	4.5	1900	2	9	23

### Performance Curve



## EG



Grinder Impeller & Shredding Ring (High Chrome Steel HRC 55~58)

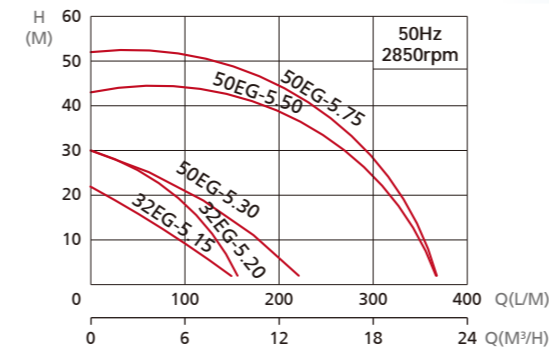
### Feature

- High Chrome Steel Grinder Impeller
- High Chrome Steel Shredding Ring
- Robust construction
- Superior heat Dissipation
- Double mechanical Seals
- Easy Maintenance

### Application

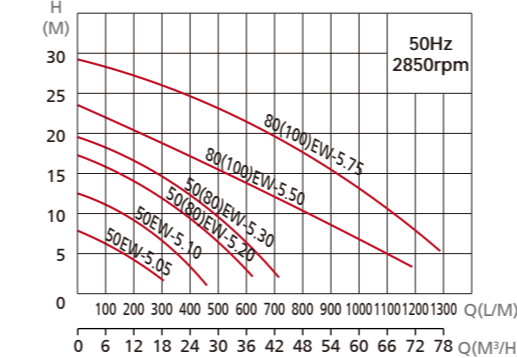
- Waste Water Treatment
- Sewage water

### Performance Curve



Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
32EG-5.15	1.5	1.1	1.25"	7.5	3.2	13	50	21	150	2	0.5	27
32EG-5.20	2	1.5	1.25"	16	4.95	16	110	30	150	2	0.5	35
50EG-5.30	3	2.2	2"	-	5	15	100	25	220	2	4	35
50EG-5.50	5	3.7	2"	-	9	25	250	38	370	2	4	55
50EG-5.75	7.5	5.5	2"	-	11	35	250	47	370	2	4	61

### Performance Curve



### Feature

- Vortex Impeller/Non-clogging
- Double Mech. Seal design
- Minimized abrasive wear
- Large impeller clearance
- Maintenance free

### Application

- Medium concentration wastewater
- Heavy duty

Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
50EW-5.05	0.5	0.37	2"	4	1.2	6	150	8	320	2	35	13.2
50EW-5.10	1	0.75	2"	6	2	9	200	12.5	460	2	35	18
50(80)EW-5.20	2	1.5	2"(3")	11.3	3.5	10	350	17.5	650	2	45	34.7
50(80)EW-5.30	3	2.2	2"(3")	-	5.2	11	450	19.5	750	2	45	35.8
80(100)EW-5.50	5	3.7	3"(4")	-	8.6	10	800	23.5	1200	2	45	56
80(100)EW-5.75	7.5	5.5	3"(4")	-	12	12	1040	29.5	1400	2	45	62

## EW



Vortex impeller



### Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	FC 200
Shaft	SUS 410

# Sewage

## EWS

### Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	SUS 316
Shaft	SUS 316



Vortex Impeller  
316 Stainless Steel



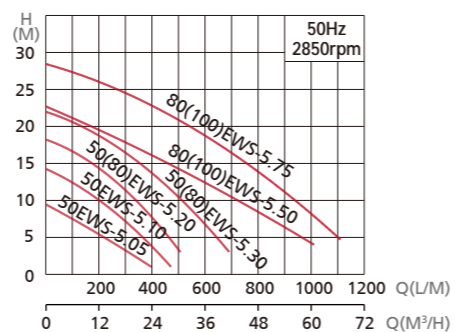
### Feature

- Vortex Impeller / Non-clogging
- Minimized abrasive wear
- Large impeller clearance
- Maintenance free
- Double Mech. Seal
- Loss wax 316 Stainless Steel

### Application

- Medium concentration wastewater
- Heavy duty

### Performance Curve



Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
50EWS-5.05	0.5	0.37	2"	3.4	1.4	5.4	200	9.5	398	2	35	13.2
50EWS-5.10	1	0.75	2"	6	2.2	9	240	14.3	472	2	35	18
50(80)EWS-5.20	2	1.5	2"(3")	9.8	4.2	12	280	18.3	507	2	45	34.7
50(80)EWS-5.30	3	2.2	2"(3")	-	5.7	14.7	360	22.1	690	2	45	35.8
80(100)EWS-5.50	5	3.7	3"(4")	-	7.5	13.2	560	23.3	1010	2	45	56
80(100)EWS-5.75	7.5	5.5	3"(4")	-	11.4	18.7	600	28.8	1110	2	45	62

## EWSS

### Feature

95% are made of stainless steel, can be used in harsh environments

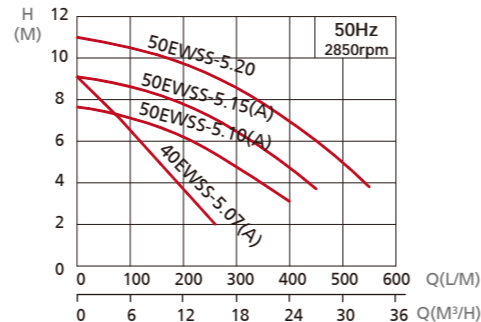
### Application

Emptying of septic tanks and residential sumps

### Materials

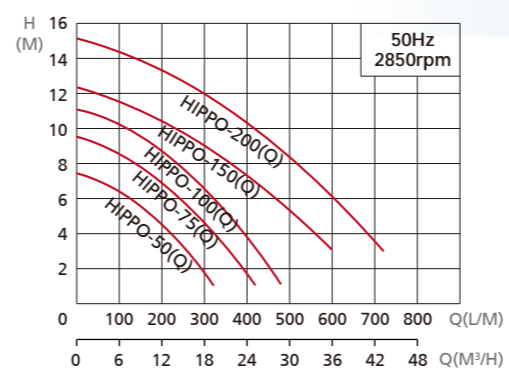
Mech. Seal	SIC/SIC/NBR
Impeller	SUS 304
Shaft	SUS 304

### Performance Curve



Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
40EWSS-5.07	0.75	0.55	1 1/2"	3.58	1.33	7.1	80	9.1	260	2	35	10
40EWSS-5.07A	0.75	0.55	1 1/2"	3.58	-	7.1	80	9.1	260	2	35	10.5
50EWSS-5.10	1	0.75	2"	4.78	2.07	7.1	100	7.7	400	2	50	13(1PH) / 11(3PH)
50EWSS-5.10A	1	0.75	2"	4.78	-	7.1	100	7.7	400	2	50	13.5
50EWSS-5.15	1.5	1.1	2"	7.21	2.48	8.6	100	9.1	450	2	50	14(1PH) / 13(3PH)
50EWSS-5.15A	1.5	1.1	2"	7.21	-	8.6	100	9.1	450	2	50	14.5
50EWSS-5.20	2	1.5	2"	-	3.31	10.2	150	11	550	2	50	14

### Performance Curve



Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
HIPPO-50(Q)	0.5	0.37	2"	3.8	1.5	4.5	200	7.6	320	2	50	14(15.5)
HIPPO-75(Q)	0.75	0.55	2"	5.4	1.7	6.4	220	9.7	420	2	50	15(16.5)
HIPPO-100(Q)	1	0.75	2"	6.7	2.4	7.7	250	11.3	480	2	50	16.5(18)
HIPPO-150(Q)	1.5	1.1	2"	9	2.8	8	360	12.5	600	2	50	25(26.5)
HIPPO-200(Q)	2	1.5	2"	12	3.9	10.3	400	15.5	720	2	50	26(27.5)

### Feature

- Recess vortex impeller
- GAS 2" discharge
- 2" (50mm) solid free-passage
- EKK-Burgmann silicon double mech. seal
- Stainless steel motor housing

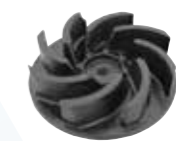
### Application

- For heavy-duty applications with soiled biological wastewaters, sewage, rainwater
- For both domestic and professional use

## HIPPO

### Operating Limits

- Maximum operating temperature : 40°C
- Viscosity of treated fluid : 1mm<sup>2</sup>/s
- Maximum immersion depth : 10m
- Density of treated fluid : 1kg/dm<sup>3</sup>
- Max starts per hour : 20



Vortex Impeller



HIPPO-50Q



HIPPO-50

### Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	FC 200
Shaft	SUS 410

## EA

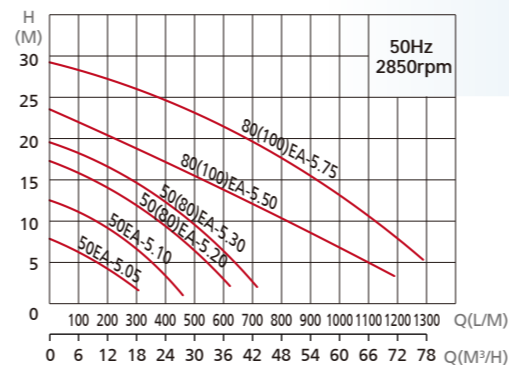
### Feature

- Vortex impeller with agitator
- Non-Colg operation
- Double mechanical seals
- Reliable shaft sealing
- Automatic operation (Optional)

### Application

- Dredging
- High concentration slurry

### Performance Curve



Type	Output		Discharge Inch	F.L.A.		Rated		Maximum		Pole	Free Passage mm	Weight kg
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
50EA-5.05	0.5	0.37	2"	4	1.2	6	150	8	320	2	10	13.2
50EA-5.10	1	0.75	2"	6	2	9	200	12.5	460	2	10	18
50(80)EA-5.20	2	1.5	2"(3")	11.3	3.5	10	350	17.5	650	2	15	34.7
50(80)EA-5.30	3	2.2	2"(3")	-	5.2	11	450	19.5	750	2	15	35.8
80(100)EA-5.50	5	3.7	3"(4")	-	8.6	10	800	23.5	1200	2	12.5	56
80(100)EA-5.75	7.5	5.5	3"(4")	-	12	12	1040	29.5	1400	2	12.5	62



Impeller with powerful agitator

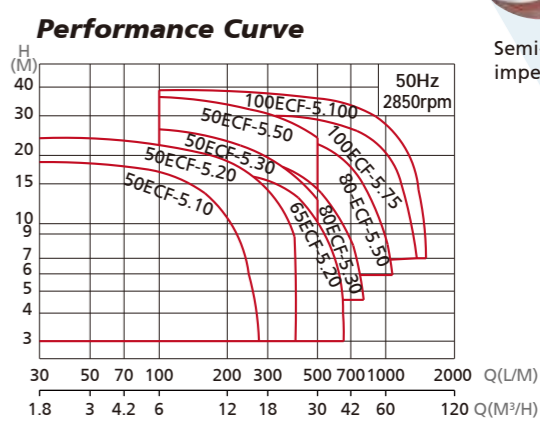
### Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	FC 200
Agitator	SUS 316
Shaft	SUS 410

## ECF



Semi-Open impeller

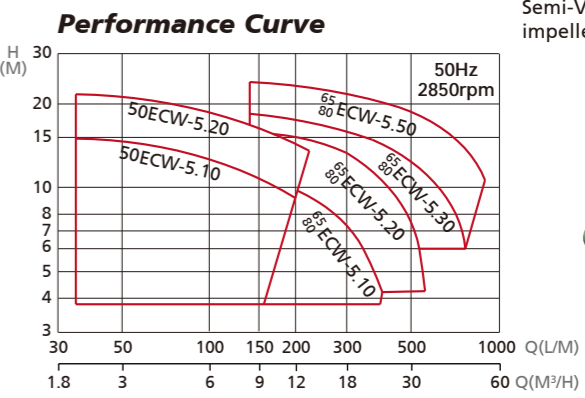


## Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	FC 200
Shaft	SUS 403



Semi-Vortex impeller



## Feature

- Compact Design/Light Weight
- Built-In Motor protection
- High Efficiency Semi-open Impeller
- Automatic Operation (Optional)

## Application

- Purification tank drainage
- Rain and spring water drainage
- Irrigation / Sump Dewatering

## Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	FC 200/FCD 400
Shaft	SUS 403

Type	Output		Discharge	F.L.A.		Max Head		Max Cap.		Pole	Free Passage	Weight
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
50ECF-5.10	1	0.75	2"	-	1.9	19.3	30	2	280	2	5	17
50ECF-5.20	2	1.5	2"	-	3.3	23.7	30	8.4	400	2	5	25
50ECF-5.30	3	2.2	2"	-	5	26.2	100	11.9	500	2	5	55
50ECF-5.50	5	3.7	2"	-	7.8	36.1	100	23.3	500	2	5	61
65ECF-5.20	2	1.5	2.5"	-	3.3	16.6	240	4.5	650	2	6	35
80ECF-5.30	3	2.2	3"	-	5	18.3	360	4.5	800	2	7	59
80ECF-5.50	5	3.7	3"	-	7.8	22.9	500	6	1060	2	7	64
100ECF-5.75	7.5	5.5	4"	-	10.8	30.4	340	7	1350	2	8	92
100ECF-5.100	10	7.5	4"	-	14.3	38.6	100	7	1500	2	8	104

## Feature

- Semi-Vortex impeller/No Clogging
- Double mechanical seal
- Built-in motor protection
- Automatic operation (Optional)

## Application

- Waste water applications containing soft or fibrous solids.
- Industrial waste water drainage
- Septic effluent / Miscellaneous drainage

Type	Output		Discharge	F.L.A.		Max Head		Max Cap.		Pole	Free Passage	Weight
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
50ECW-5.10	1	0.75	2"	-	1.9	14.8	35	9	200	2	21	19
50ECW-5.20	2	1.5	2"	-	3.3	21.4	35	13.5	220	2	21	27
65ECW-5.10	1	0.75	2.5"	-	1.9	10.9	140	3.8	400	2	33	25
65ECW-5.20	2	1.5	2.5"	-	3.3	15.9	140	4.2	570	2	33	34
65ECW-5.30	3	2.2	2.5"	-	5	18.3	140	6.0	770	2	41	50
65ECW-5.50	5	3.7	2.5"	-	7.8	23.6	140	10.4	900	2	41	59
80ECW-5.10	1	0.75	3"	-	1.9	10.9	140	3.8	400	2	33	26
80ECW-5.20	2	1.5	3"	-	3.3	15.9	140	4.2	570	2	33	35
80ECW-5.30	3	2.2	3"	-	5	18.3	140	6	770	2	41	31
80ECW-5.50	5	3.7	3"	-	7.8	23.6	140	10.4	900	2	41	60

## EC

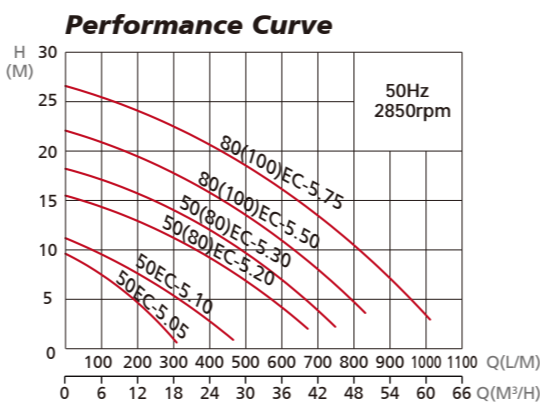


## Feature

- With tungsten cutter
- Double mechanical seals
- Reliable shaft sealing
- Automatic operation (Optional)

## Application

- Hospital, school, building...etc.
- Wastewater treatment system
- Industrial wastewater
- Ground water drainage



Type	Output		Discharge	F.L.A.		Rated		Maximum		Pole	Free Passage	Weight
	HP	KW		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
50EC-5.05	0.5	0.37	2"	4	1.2	6	150	9.5	300	2	19	13.3
50EC-5.10	1	0.75	2"	6	1.8	8	190	11	430	2	19	19
50(80)EC-5.20	2	1.5	2"(3")	11.3	3.5	10	360	15.5	700	2	23	36.5
50(80)EC-5.30	3	2.2	2"(3")	-	5.2	11	440	18.5	800	2	23	37.6
80(100)EC-5.50	5	3.7	3"(4")	-	8.6	8	690	22.5	950	2	28	58
80(100)EC-5.75	7.5	5.5	3"(4")	-	12	12	750	26.5	1100	2	28	62

## Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	FCD45+Tungsten edge
Shaft	SUS 410



Cutter Impeller (Tungsten Edge)

## ESV

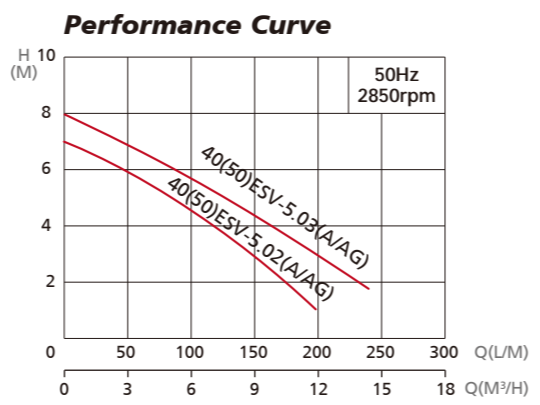


## Feature

- Oil Chamber design to ensure Mech. Seal long service life
- Suspended impeller design, non-clogging
- E class insulation

## Application

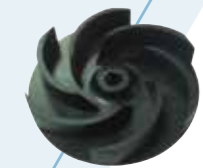
- Discharge water
- Livestock production
- Sprinkling
- Sump pit



Type	Output		Discharge	F.L.A.		Rated		Maximum		Pole	Free Passage	Weight
	HP	W		1ø 230V	3ø 400V	Head m	Cap. LPM	Head m	Cap. LPM			
40(50)ESV-5.02	0.2	150	1.5"(2")	1.6	-	4	110	7	180	2	24	7.2
40(50)ESV-5.02A	0.2	150	1.5"(2")	1.6	-	4	110	7	180	2	24	7.5
40(50)ESV-5.02AG	0.2	150	1.5"(2")	1.6	-	4	110	7	180	2	24	7.5
40(50)ESV-5.03	0.3	250	1.5"(2")	2	-	4.5	140	8	230	2	25	7.4
40(50)ESV-5.03A	0.3	250	1.5"(2")	2	-	4.5	140	8	230	2	25	7.7
40(50)ESV-5.03AG	0.3	250	1.5"(2")	2	-	4.5	140	8	230	2	25	7.7

## Materials

Mech. Seal	CA/CE +CA/CE
Impeller	ABS+Glass Fiber
Shaft	SUS 410



ABS + Glass Fiber Impeller

## ECM



## ECL

### Feature

- Semi- Open Impeller
- Non-Clogging/Wide Rang
- Robust construction
- Superior heat Dissipation
- Built-in motor protection

### Application

- Sewage / Waste water
- Strom water drainage

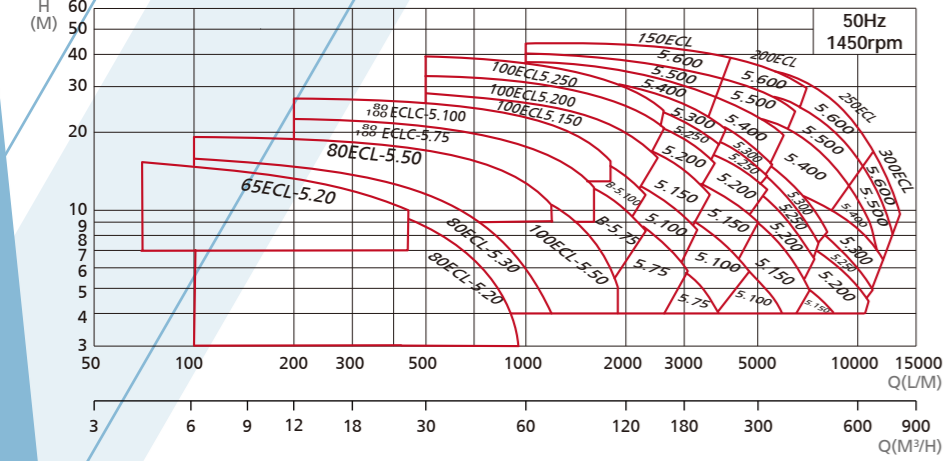
### Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	FC 200
Shaft	SUS 403



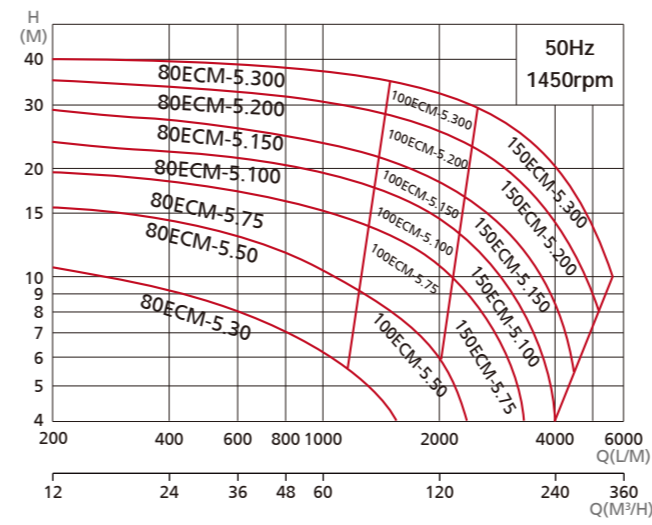
Non-Clogging Impeller

### Performance Curve



Type	Output		Discharge Inch	F.L.A.		Max Head		Max Cap.		Pole	Free Passage mm	Weight kg
	HP	KW		1φ 230V	3φ 400V	Head m	Cap. LPM	Head m	Cap. LPM			
65ECL-5.20	2	1.5	2.5"	-	3.9	15.5	70	9.9	450	4	35	52
80ECL-5.20	2	1.5	3"	-	3.9	12.2	200	3.3	950	4	50	55
80ECL-5.30	3	2.2	3"	-	5.2	15.8	100	4	1200	4	50	67
80ECL-5.50	5	3.7	3"	-	8.3	19.1	100	10.4	1200	4	50	75
80ECL-5.75	7.5	5.5	3"	-	11.3	22	200	12.3	1600	4	50	134
80ECL-5.100	10	7.5	3"	-	15.5	27.3	200	15.3	1800	4	50	148
100ECL-5.50	5	3.7	4"	-	8.3	14	500	5	1900	4	60	79
100ECL-5.75	7.5	5.5	4"	-	11.3	22	200	12.3	1600	4	50	134
100ECL-5.100	10	7.5	4"	-	15.5	27.3	200	15.3	1800	4	50	148
100ECLB-5.75	7.5	5.5	4"	-	11.3	16.1	500	8.3	2290	4	60	123
100ECLB-5.100	10	7.5	4"	-	15.5	20.8	500	11.5	2300	4	60	141
100ECL-5.150	15	11	4"	-	21.5	28.4	500	16	2500	4	60	180
100ECL-5.200	20	15	4"	-	28.5	33	500	20.6	2600	4	60	230
100ECL-5.250	25	18.5	4"	-	35	39	500	24	2600	4	60	285
150ECL-5.75	7.5	5.5	6"	-	11.3	11.2	1500	5.8	3050	4	70	146
150ECL-5.100	10	7.5	6"	-	15.5	15.2	1500	8.3	3300	4	70	158
150ECL-5.150	15	11	6"	-	21.5	20	1500	11.5	3600	4	70	199
150ECL-5.200	20	15	6"	-	28.5	25.8	1500	15.2	3700	4	70	237
150ECL-5.250	25	18.5	6"	-	35	28.3	1500	18	3800	4	70	300
150ECL-5.300	30	22	6"	-	42	33	1500	20.5	4000	4	70	325
150ECL-5.400	40	30	6"	-	58	35	1500	27.4	4000	4	68	355
150ECL-5.500	50	37	6"	-	72.5	38.6	1500	30.4	4100	4	68	418
150ECL-5.600	60	45	6"	-	87.5	44	1000	34.8	4300	4	68	456
200ECL-5.75	7.5	5.5	8"	-	11.3	6.5	2600	4	3800	4	76	160
200ECL-5.100	10	7.5	8"	-	15.5	9.6	2900	5.8	4700	4	76	176
200ECL-5.150	15	11	8"	-	21.5	13.2	3100	9	5000	4	76	212
200ECL-5.200	20	15	8"	-	28.5	17	3400	12	5300	4	76	260
200ECL-5.250	25	18.5	8"	-	35	19.4	3500	13.5	5300	4	76	305
200ECL-5.300	30	22	8"	-	42	23.2	3500	15	5500	4	76	330
200ECL-5.400	40	30	8"	-	58	27.4	4000	20.5	6200	4	74	355
200ECL-5.500	50	37	8"	-	72.5	30.4	4100	23	6500	4	74	418
200ECL-5.600	60	45	8"	-	87.5	34.8	4300	26.5	7000	4	74	456
250ECL-5.100	10	7.5	10"	-	15.5	7.2	3800	4	5850	4	82	260
250ECL-5.150	15	11	10"	-	21.5	10.4	4600	4.8	7100	4	82	320
250ECL-5.200	20	15	10"	-	28.5	13	4500	6.4	7250	4	82	380
250ECL-5.250	25	18.5	10"	-	35	15.7	4500	7.3	7500	4	82	420
250ECL-5.300	30	22	10"	-	42	17.2	4500	8.2	8000	4	82	440
250ECL-5.400	40	30	10"	-	58	21	6300	12.2	9300	4	79	458
250ECL-5.500	50	37	10"	-	72.5	24.9	6800	15.8	10200	4	79	522
250ECL-5.600	60	45	10"	-	87.5	27.2	7500	18	10700	4	79	540
300ECL-5.150	15	11	12"	-	21.5	5.5	6000	4	8300	4	90	365
300ECL-5.200	20	15	12"	-	28.5	8	6000	4.4	10700	4	90	395
300ECL-5.250	25	18.5	12"	-	35	9.5	6300	4.8	11000	4	90	440
300ECL-5.300	30	22	12"	-	42	11.9	6500	6.4	12000	4	90	465
300ECL-5.400	40	30	12"	-	58	12.2	9300	7.8	10800	4	89	458
300ECL-5.500	50	37	12"	-	72.5	15.8	10200	7.7	12600	4	89	522
300ECL-5.600	60	45	12"	-	87.5	18	10700	9	13200	4	89	540

### Performance Curve



### Feature

- Non-clog single channel impeller
- Robust construction
- Large solid passage
- Dry Tip (Optional)

### Application

- Sewage
- Waste water

### Materials

Mech. Seal	SIC/SIC+CA/CE
Impeller	FC 200
Shaft	SUS 403



Enclosed Single Channel Impeller

Type	Output		Discharge Inch	F.L.A.		Max Head		Max Cap.		Pole	Free Passage mm	Weight kg
	HP	KW		1φ 230V	3φ 400V	Head m	Cap. LPM	Head m	Cap. LPM			
80ECM-5.30	3	2.2	3"	-	5.2	11.2	200	4	1600	4	76	80
80ECM-5.50	5	3.7	3"	-	8.4	15.8	200	9.1	1338	4	76	87
80ECM-5.75	7.5	5.5	3"	-	12.6	19.3	300	12.8	1400	4	76	118
80ECM-5.100	10	7.5	3"	-	16.9	22.6	300	16	1449	4	76	123
80ECM-5.150	15	11	3"	-	23.8	28.5	300	22.7	1512	4	76	157
80ECM-5.200	20	15	3"	-	31	34	300	28.4	1557	4	76	163
80ECM-5.300	30	22	3"	-	42	39.5	300	34	1595	4	76	223
100ECM-5.50	5	3.7	4"	-	8.4	9.1	1338	4	2407	4	76	89
100ECM-5.75	7.5	5.5	4"	-	12.6	12.8	1400	9.3	2194	4	76	121
100ECM-5.100	10	7.5	4"	-	16.9	16	1449	12.6	2270	4	76	125
100ECM-5.150	15	11	4"	-	23.8	22.7	1512	18.3	2368	4	76	160
100ECM-5.200	20	15	4"	-	31	28.4	1557	23.7	2440	4	76	166
100ECM-5.300	30	22	4"	-	42	34	1595	28	2489	4	76	226
150ECM-5.75	7.5	5.5	6"	-	12.6	9.3	2194	4	3379	4	76	127
150ECM-5.100	10	7.5	6"	-	16.9	12.6	2270	4	3987	4	76	132
150ECM-5.150	15	11	6"	-	23.8	18.3	2368	5.5	4472	4	76	166
150ECM-5.200	20	15	6"	-	31	23.7	2440	8	5102	4	76	172
150ECM-5.300	30	22	6"	-	42	28	2489	10	5566	4	76	232