

## **EWS Series**

# **Submersible Sewage Pumps 50Hz**

**PRODUCT CATALOGUE**



# PRODUCT OVERVIEW

## Reliable & Efficient

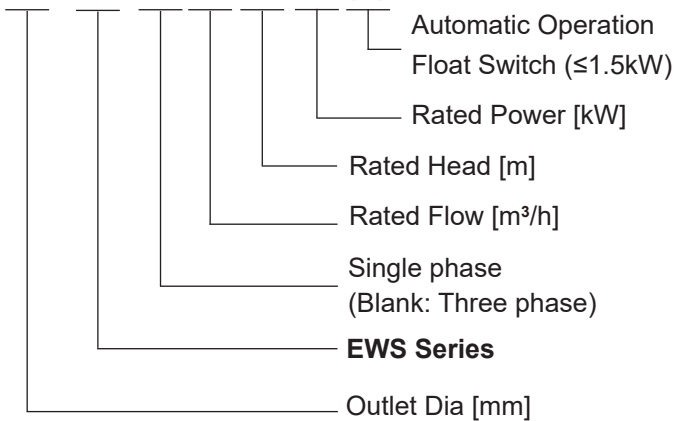
### Product Description

EWS is a submersible sewage pump suitable for drainage & sewage applications in residential and commercial building services, sewage treatment plants, general industries, and construction sites.

- Max. immersion depth: 10m (0.75-5.5kW-2P), 20m (7.5kW-2P / 5.5-45kW-4P)
- Cable length: 10m (< 30kW), 8m (30-45kW)
- Max. liquid temperature: up to +40°C
- Liquid PH value: 6 - 10
- Max. liquid density:  $1.3 \times 10^3 \text{ kg/m}^3$
- Allowed by the particle diameter: 20 - 80 mm
- Float switch: single phase

### Model Description

#### 65 EWS m 15-10-1.1 (F)



### Motor

- Insulation Class: B (0.75-5.5kW-2P)
- Insulation Class: F (7.5kW-2P / 5.5-45kW-4P)
- Protection Class: IP68
- Power: up to 45 kW
- Frequency: 50Hz
- Voltage: 220/380V
- Copper winding.
- Built-in motor protection: 0.75-4kW (5.5kW and above need control cabinet)



11-45kW  
(4P)



Flange Elbow



Hose Coupling



Float Switch



(Hose coupling as standard. Flange elbow is available on request)

### Material

- Pump body: Cast iron
- Impeller: Cast iron
- Motor body: Cast iron
- Handle: Steel
- Base: Cast iron

# TECHNICAL DATA

## EWS - 50Hz

Model	Power		Q. Max [m <sup>3</sup> /h]	H Max [m]	Voltage [V]	Speed [r.p.m]	Outlet [inch]	Guide Rial Fitting	Solids Passage [mm]
	kW	hp							
50EWS10-10-0.75	0.75	1	26	12	380	2850	2	50-50	25
50EWSm10-10-0.75(F)	0.75	1	26	12	220	2850	2	50-50	25
50EWS8-16-1.1	1.1	1.5	29	18	380	2850	2	50-50	20
50EWSm8-16-1.1(F)	1.1	1.5	29	18	220	2850	2	50-50	20
65EWS15-10-1.1	1.1	1.5	33	15	380	2850	2 1/2	50-50	25
65EWSm15-10-1.1(F)	1.1	1.5	33	15	220	2850	2 1/2	50-50	25
50EWS8-20-1.5	1.5	2	25	22	380	2850	2	50-50	20
50EWSm8-20-1.5(F)	1.5	2	25	22	220	2850	2	50-50	20
65EWS15-15-1.5	1.5	2	37	20	380	2850	2 1/2	50-50	25
65EWSm15-15-1.5(F)	1.5	2	37	20	380	2850	2 1/2	50-50	25
50EWS15-20-2.2	2.2	3	40	22	380	2850	2	50-50	25
65EWS25-17-2.2	2.2	3	42	22	380	2850	2 1/2	65-65	25
80EWS40-9-2.2	2.2	3	64	16	380	2850	3	80-80	30
50EWS15-26-3	3	4	46	28	380	2850	2	50-50	25
65EWS25-22-3	3	4	52	26	380	2850	2 1/2	65-65	30
80EWS40-13-3	3	4	75	20	380	2850	3	80-80	30
100EWS60-9-3	3	4	92	19	380	2850	4	100-100	30
65EWS25-28-4	4	5.5	58	33	380	2850	2 1/2	65-65	25
80EWS40-18-4	4	5.5	81	24	380	2850	3	80-80	30
100EWS60-13-4	4	5.5	93	24	380	2850	4	100-100	30
50EWS15-40-5.5	5.5	7.5	52	42	380	2850	2	50-50	25
80EWS30-30-5.5	5.5	7.5	47	36	380	2850	3	80-80	30
100EWS65-15-5.5	5.5	7.5	110	25	380	2850	4	100-100	30
50EWS20-45-7.5	7.5	10	37	52	380	2850	2	50-50	25
80EWS30-33-7.5	7.5	10	80	40	380	2850	3	80-80	30
100EWS65-22-7.5	7.5	10	110	34	380	2850	4	100-100	35
150EWS100-10-7.5	7.5	10	160	20	380	2850	6	150-150	35
100EWS65-15-5.5/4P	5.5	7.5	150	19	380	1450	4	100-100	55

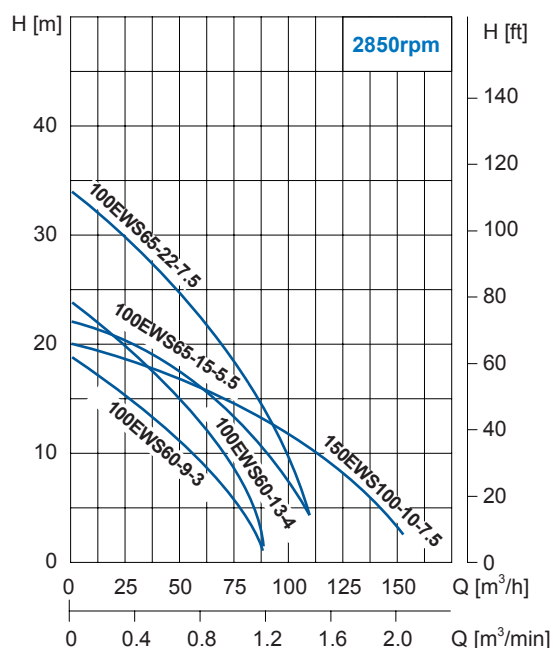
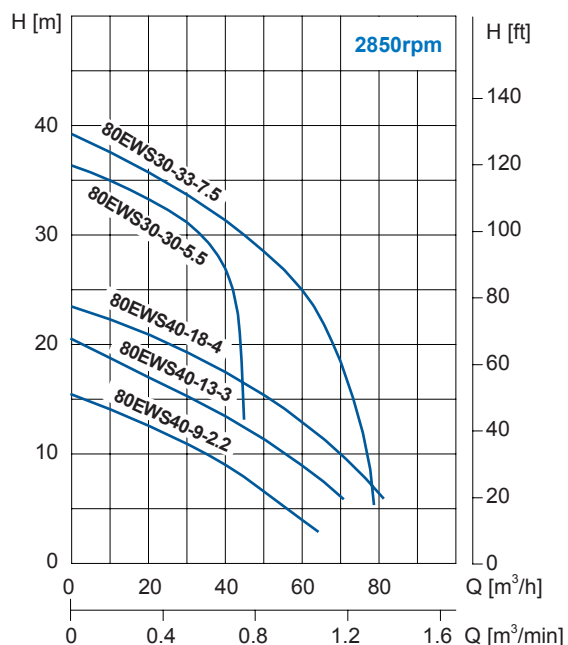
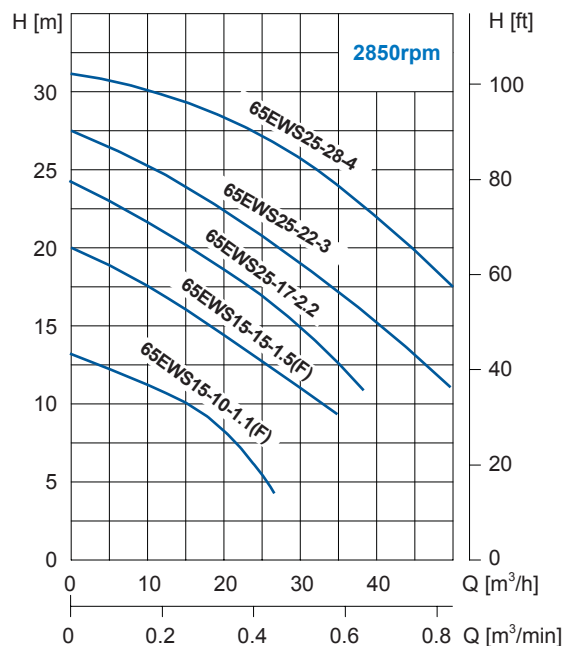
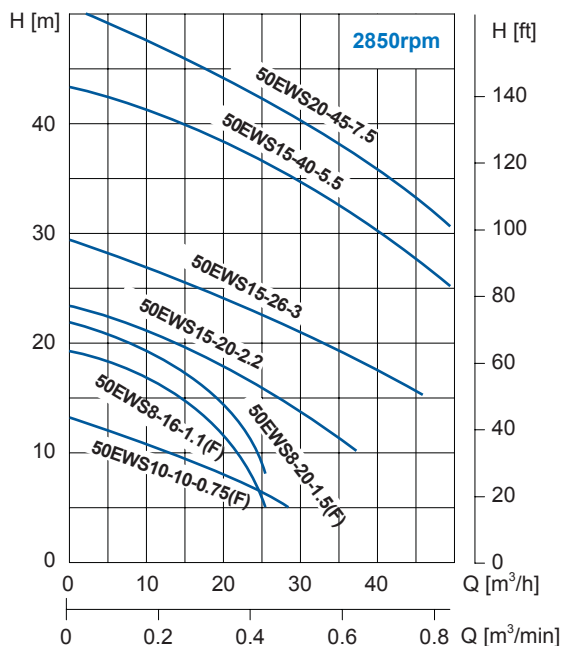
# TECHNICAL DATA

## EWS - 50Hz

Model	Motor Power		Q. Max	H. Max	Voltage	Speed	Outlet	Guide Rial Fitting	Solids Passage [mm]
	kW	hp	[m <sup>3</sup> /h]	[m]	[V]	[r.p.m]	[inch]		
150EWS110-10-5.5/4P	5.5	7.5	200	26	380	1450	6	150-150	55
100EWS100-15-7.5/4P	7.5	10	170	24	380	1450	4	100-100	55
150EWS150-10-7.5/4P	7.5	10	240	16	380	1450	6	150-150	75
200EWS250-6-7.5/4P	7.5	10	400	12	380	1450	8	200-200	55
100EWS100-22-11/4P	11	15	190	31	380	1450	4	100-100	50
150EWS150-15-11/4P	11	15	260	24	380	1450	6	150-150	50
200EWS300-9-11/4P	11	15	450	17	380	1450	8	200-200	65
100EWS100-27-15/4P	15	20	210	35	380	1450	4	100-100	50
150EWS150-20-15/4P	15	20	290	29	380	1450	6	150-150	50
200EWS300-12-15/4P	15	20	490	21	380	1450	8	200-200	65
100EWS100-31-18.5/4P	18.5	25	200	38	380	1450	4	100-100	50
150EWS150-24-18.5/4P	18.5	25	300	32	380	1450	6	150-150	50
200EWS300-15-18.5/4P	18.5	25	530	25	380	1450	8	200-200	65
100EWS100-36-22/4P	22	30	220	44	380	1450	4	100-100	50
150EWS150-28-22/4P	22	30	330	39	380	1450	6	150-150	50
200EWS300-18-22/4P	22	30	550	27	380	1450	8	200-200	65
250EWS500-11-22/4P	22	30	800	22	380	1450	10	250-250	70
150EWS150-34-30/4P	30	40	310	45	380	1450	6	150-150	55
200EWS300-21-30/4P	30	40	570	33	380	1450	8	200-200	80
250EWS500-14-30/4P	30	40	860	27	380	1450	10	250-250	85
300EWS800-8-30/4P	30	40	1040	22	380	1450	12	300-300	90
150EWS150-40-37/4P	37	50	330	50	380	1450	6	150-150	55
200EWS300-25-37/4P	37	50	620	39	380	1450	8	200-200	80
250EWS500-18-37/4P	37	50	930	30	380	1450	10	250-250	85
300EWS800-11-37/4P	37	50	1060	25	380	1450	12	300-300	90
200EWS300-30-45/4P	45	60	660	43	380	1450	8	200-200	80
250EWS500-21-45/4P	45	60	950	34	380	1450	10	250-250	85
300EWS800-14-45/4P	45	60	1080	28	380	1450	12	300-300	90

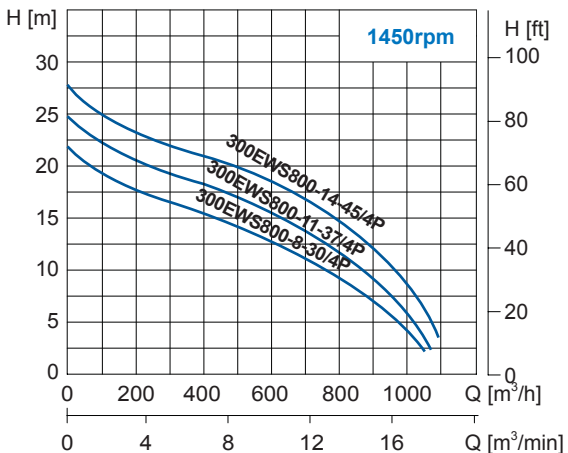
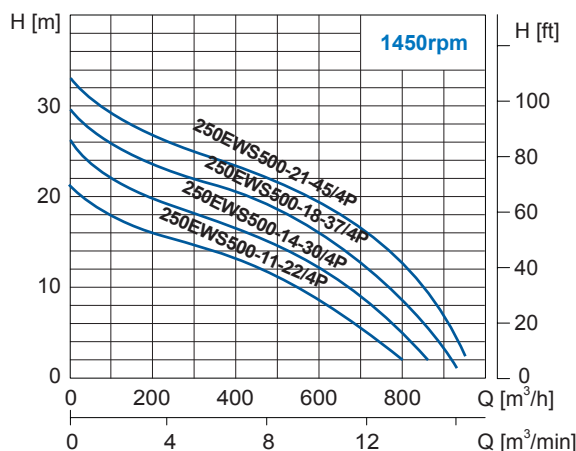
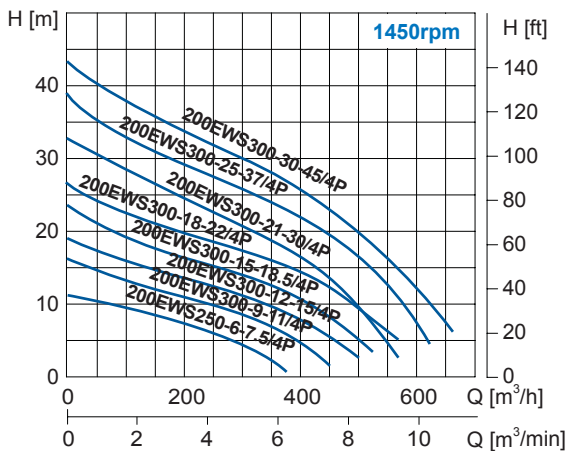
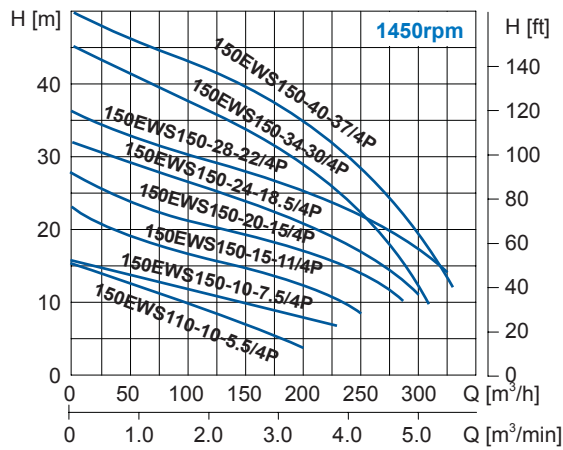
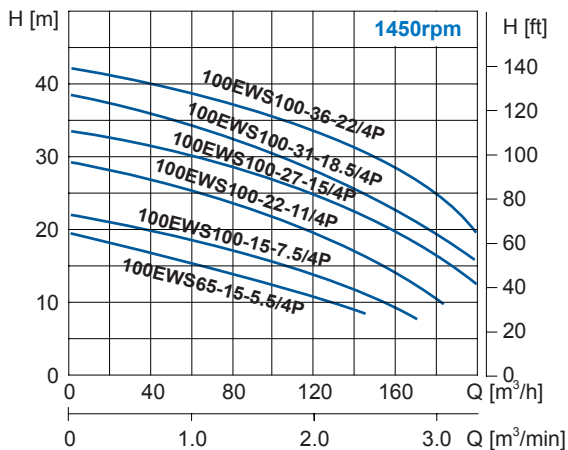
# PERFORMANCE RANGE

EWS - 50Hz



# PERFORMANCE RANGE

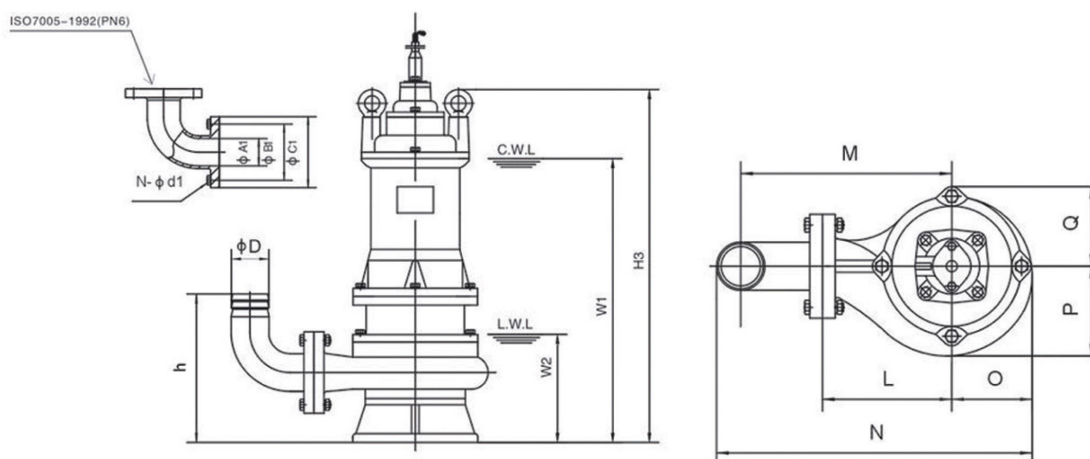
## EWS - 50Hz



# DIMENSIONAL DRAWING

## EWS - 50Hz

### Dimensions



Model	$\phi D$	$\phi A1$	$\phi B1$	$\phi C1$	$n-\phi d1$	$h$	$W1$	$W2$	$H3$	$N$	$O$	$P$	$Q$	$L$	$M$
<b>50EWS10-10-0.75</b>	50	50	110	140	4- $\phi 14$	200	300	120	445	332	90	96	85	128	192
<b>50EWSm10-10-0.75(F)</b>	50	50	110	140	4- $\phi 14$	200	315	120	445	332	90	96	85	128	192
<b>50EWS8-16-1.1</b>	50	50	110	140	4- $\phi 14$	195	325	120	460	347	90	96	85	128	192
<b>50EWSm8-16-1.1(F)</b>	50	50	110	140	4- $\phi 14$	195	325	120	460	347	90	96	85	128	192
<b>65EWS15-10-1.1</b>	65	50	110	140	4- $\phi 14$	195	345	120	460	347	90	96	85	128	192
<b>65EWSm15-10-1.1(F)</b>	65	50	110	140	4- $\phi 14$	195	345	120	460	347	90	96	85	128	192
<b>50EWS8-20-1.5</b>	50	50	110	140	4- $\phi 14$	202	370	165	480	340	90	105	82	145	210
<b>50EWSm8-20-1.5(F)</b>	50	50	110	140	4- $\phi 14$	202	390	165	500	340	90	105	82	145	210
<b>65EWS15-15-1.5</b>	65	50	110	140	4- $\phi 14$	195	345	120	480	347	90	96	85	128	192
<b>65EWSm15-15-1.5(F)</b>	65	50	110	140	4- $\phi 14$	195	345	120	480	347	90	96	85	128	192
<b>50EWS15-20-2.2</b>	50	50	110	140	4- $\phi 14$	210	410	145	575	357	107	113	100	164	228
<b>65EWS25-17-2.2</b>	65	65	130	160	4- $\phi 14$	225	410	145	575	383	107	113	100	164	234
<b>80EWS40-9-2.2</b>	80	65	150	190	4- $\phi 14$	255	415	150	580	392	105	111	93	160	250
<b>50EWS15-26-3</b>	50	50	110	140	4- $\phi 14$	210	425	145	610	357	107	113	100	164	228
<b>65EWS25-22-3</b>	65	65	130	160	4- $\phi 14$	225	425	145	610	383	107	113	100	164	234
<b>80EWS40-13-3</b>	80	80	150	190	4- $\phi 18$	270	450	170	630	387	107	115	100	153	243

# DIMENSIONAL DRAWING

## EWS - 50Hz

### Dimensions

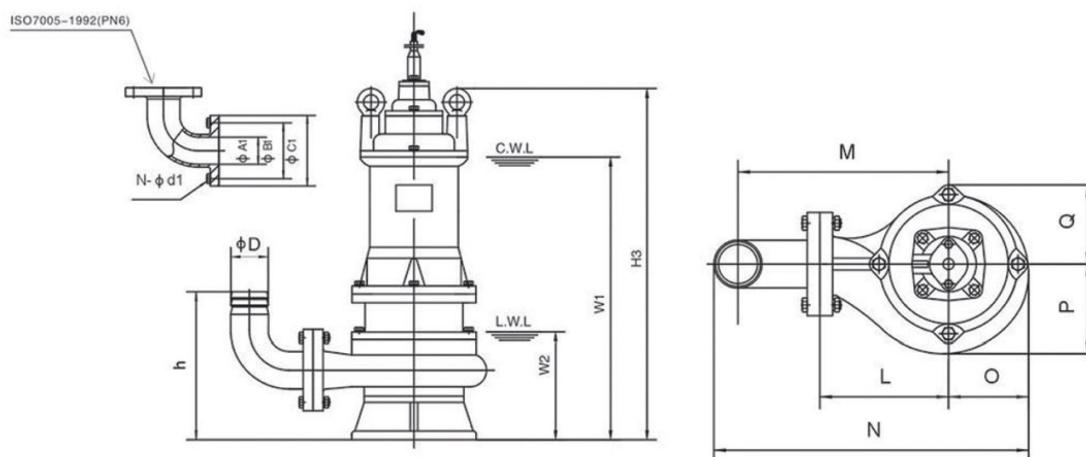
Model	ΦD	ΦA1	ΦB1	ΦC1	n-Φd1	h	W1	W2	H3	N	O	P	Q	L	M
100EWS60-9-3	100	80	170	210	4-Φ18	295	450	170	630	410	107	115	100	153	253
65EWS25-28-4	65	65	130	160	4-Φ14	240	455	160	650	406	111	116	106	179	249
80EWS40-18-4	80	80	150	190	4-Φ18	280	480	185	675	407	105	110	100	165	255
100EWS60-13-4	100	80	170	210	4-Φ18	305	480	185	675	430	105	110	100	165	265
50EWS15-40-5.5	50	50	110	140	4-Φ14	235	475	160	675	386	125	130	112	175	239
80EWS30-30-5.5	80	80	150	190	4-Φ18	275	495	175	690	427	115	120	110	175	265
100EWS65-15-5.5	100	100	170	210	4-Φ18	285	505	190	705	462	131	140	115	181	281
50EWS20-45-7.5	50	50	110	140	4-Φ12	265	540	210	4760	449	140	146	134	200	264
80EWS30-33-7.5	80	80	150	190	4-Φ18	305	540	210	760	490	140	146	134	200	290
100EWS65-22-7.5	100	100	170	210	4-Φ18	345	560	230	780	513	145	154	135	200	300
150EWS100-10-7.5	150	150	225	265	8-Φ18	405	575	245	795	598	145	160	135	210	360



# DIMENSIONAL DRAWING

## EWS - 50Hz

### Dimensions



Model	φD	φA1	φB1	φC1	n-φd1	h	W1	W2	H3	N	O	P	Q	L	M
100EWS65-15-5.5/4P	100	100	170	210	4-φ18	360	585	255	805	620	190	202	177	280	380
150EWS110-10-5.5/4P	150	150	225	265	8-φ18	430	615	285	835	725	200	215	185	300	450
100EWS100-15-7.5/4P	100	100	170	210	4-φ18	360	630	255	850	620	190	202	177	280	380
150EWS150-10-7.5/4P	150	150	225	265	8-φ18	430	660	285	880	725	200	215	185	300	450
200EWS250-6-7.5/4P	200	200	295	340	8-φ22	540	695	320	915	880	230	256	192	350	550
100EWS100-22-11/4P	100	100	170	210	4-φ18	355	650	255	910	671	206	217	193	310	410
150EWS150-15-11/4P	150	150	225	265	8-φ18	440	680	285	940	756	208	225	188	320	470
200EWS300-9-11/4P	200	200	295	340	8-φ22	545	720	325	980	866	226	253	191	340	540
100EWS100-27-15/4P	100	100	170	210	4-φ18	355	695	255	955	671	206	217	193	310	410
150EWS150-20-15/4P	150	150	225	265	8-φ18	440	725	285	985	756	208	225	188	320	470
200EWS300-12-15/4P	200	200	295	340	8-φ22	545	765	325	1025	866	226	253	191	340	540
100EWS100-31-18.5/4P	100	100	170	210	4-φ18	355	715	185	1010	693	218	227	206	325	425
150EWS150-24-18.5/4P	150	150	225	265	8-φ18	415	740	290	1035	781	221	235	206	335	485
200EWS300-15-18.5/4P	200	200	295	340	8-φ22	545	785	330	1080	883	233	260	203	350	550
100EWS100-36-22/4P	100	100	170	210	4-φ18	355	735	265	1030	693	218	227	206	325	425
150EWS150-28-22/4P	150	150	225	265	8-φ18	415	760	290	1055	781	221	235	206	335	485

# DIMENSIONAL DRAWING

## EWS - 50Hz

### Dimensions

Model	ΦD	ΦA1	ΦB1	ΦC1	n-Φd1	h	W1	W2	H3	N	O	P	Q	L	M
200EWS300-18-22/4P	200	200	295	340	8-Φ22	545	805	330	1100	883	233	260	203	350	550
250EWS500-11-22/4P	250	250	350	395	12-Φ22	635	860	400	1160	1150	280	313	270	400	673
150EWS150-34-30/4P	150	150	240	285	8-Φ22	475	855	340	1200	997	272	283	270	380	582
200EWS300-21-30/4P	200	200	295	340	8-Φ22	580	895	380	1240	1078	286	308	270	390	622
250EWS500-14-30/4P	250	250	350	395	12-Φ22	-	920	400	1265	1181	300	332	270	410	683
300EWS800-8-30/4P	300	300	400	445	12-Φ22	-	970	450	1315	1365	340	386	290	480	803
150EWS150-40-37/4P	150	150	240	285	8-Φ22	463	850	340	1255	997	272	283	270	380	582
200EWS300-25-37/4P	200	200	295	340	8-Φ22	593	890	380	1295	1078	286	308	270	390	622
250EWS500-18-37/4P	250	250	350	395	12-Φ22	665	910	400	1315	1181	300	332	270	410	683
300EWS800-11-37/4P	300	300	400	445	12-Φ22	750	860	450	1365	1365	340	386	290	480	803
200EWS300-30-45/4P	200	200	295	340	8-Φ22	560	930	380	1295	1078	286	308	270	390	622
250EWS500-21-45/4P	250	250	350	395	12-Φ22	665	950	400	1315	1181	300	332	270	410	683
300EWS800-14-45/4P	300	300	400	445	12-Φ22	750	1000	450	1365	1365	340	386	290	480	803

# PACKING INFORMATION

## EWS - 50Hz

Model	N.W	G.W	Packing dimension [mm]	Model	N.W	G.W	Packing dimension [mm]
	kg	kg			kg	kg	
50EWS10-10-0.75	18.5	20	490x255x240	150EWS110-10-5.5/4P	151	167.5	935x445x585
50EWSm10-10-0.75(F)	19.5	21	490x255x240	100EWS100-15-7.5/4P	158	175	955x415x555
50EWS8-16-1.1	24	25.5	490x255x240	150EWS150-10-7.5/4P	169	186	985x445x858
50EWSm8-16-1.1(F)	25.5	27	490x255x240	200EWS250-6-7.5/4P	200	218	730x490x1115
65EWS15-10-1.1	23	24.5	490x255x240	100EWS100-22-11/4P	253	271	700x470x1100
65EWSm15-10-1.1(F)	23.5	25	490x255x240	150EWS150-15-11/4P	256	274	700x470x1130
50EWS8-20-1.5	25	25	520x260x240	200EWS300-9-11/4P	280	298	700x500x1170
50EWSm8-20-1.5(F)	26	28	520x260x240	100EWS100-27-15/4P	275	293	700x470x1150
65EWS15-15-1.5	26.5	28	510x255x240	150EWS150-20-15/4P	277	295	700x470x1170
65EWSm15-15-1.5(F)	26.5	28	510x255x240	200EWS300-12-15/4P	302	320	700x500x1220
50EWS15-20-2.2	44	48	690x260x315	100EWS100-31-18.5/4P	326	344.5	700x480x1240
65EWS25-17-2.2	42	46	690x260x315	150EWS150-24-18.5/4P	327	346	700x480x1240
80EWS40-9-2.2	46	51.5	710x260x315	200EWS300-15-18.5/4P	354	373	720x510x1280
50EWS15-26-3	49	54	710x260x315	100EWS100-36-22/4P	346	366.5	700x480x1240
65EWS25-22-3	52	57	710x260x315	150EWS150-28-22/4P	347	367	700x480x1240
80EWS40-13-3	54	60	750x240x325	200EWS300-18-22/4P	374	395	720x510x1280
100EWS60-9-3	57	63	750x240x325	250EWS500-11-22/4P	390	411	720x600x1350
65EWS25-28-4	61	69	780x260x325	150EWS150-34-30/4P	497	519	780x600x1430
80EWS40-18-4	64	71.2	800x260x325	200EWS300-21-30/4P	519	541	820x620x1470
100EWS60-13-4	65	73	800x260x325	250EWS500-14-30/4P	512	535	780x650x1490
50EWS15-40-5.5	73	81	790x290x355	300EWS800-8-30/4P	557	581	860x720x1540
80EWS30-30-5.5	73	83	800x290x335	150EWS150-40-37/4P	557	579	780x600x1480
100EWS65-15-5.5	79	89	810x300x375	200EWS300-25-37/4P	576	598	820x620x1520
50EWS20-45-7.5	114	127.5	934x364x435	250EWS500-18-37/4P	570	593	780x650x1540
80EWS30-33-7.5	112	126	934x364x435	300EWS800-11-37/4P	614	638	860x720x1590
100EWS65-22-7.5	115	129.5	964x364x435	200EWS300-30-45/4P	612	634	820x620x1520
150EWS100-10-7.5	115	130	1014x384x455	250EWS500-21-45/4P	606	629	780x650x1540
100EWS65-15-5.5/4P	142	158	905x415x555	300EWS800-14-45/4P	650	674	860x720x1590

# TECNODYNE

## **TECNODYNE PUMPS INC.**

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