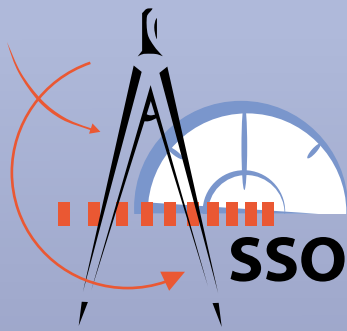




SSOCIATED PUMP ENGINEERS

CP, CPS SUBMERSIBLE SEWAGE PUMP



Description of CP, CPS pump

Cabinet:

built-in-cabinet with an integrated circuit inside to connect with float switch, TCS & D.Ut can switch on/off the pump automatically. Just connecting pump to power directly.

Cable:

Separate, water-pressure tight encapsulated connection chamber, cable inlet with strain relief and anti-kink protection. On the end of cable, connected with an indicator. Red light for power and yellow light indicates leakage.

Motor:

Squirrel-cage motor 110V-440V, 50 or 60Hz, single/three phase, 2 pole (2800 rpm), protection type IP 68, insulation class F=155°C, operation system SI, with TCS-Thermal-Control-System by thermal sensors in each phase of the stator to switch off the pump in the case of overheating of the motor.

Bearing:

Lubricated for life maintenance-free ball bearings. SKF or FAG

Mechanical seal:

Double highly quality sealing unit using a tungsten carbide mechanical seal, independent of direction of rotation and resistant to temperature shock.

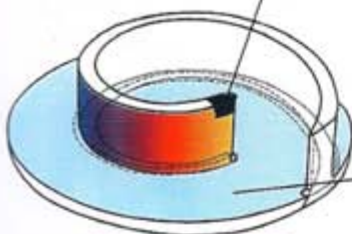
Oil chamber:

Filling in with lubricating oil. Dis system with a sensor in it to give a timely indication that an inspection is due and that leakage at the shaft seal has occurred.

Impeller:

Open single channel impeller with large free solids passage. Also with a hardened cutter in the edge, strictly static and dynamic balance checked, pump operating smoothly and fibrous material can be cut in piece and passed.

Cutter



CP,CPS Submersible Sewage Pump

Design

CP, CPS Submersible Sewage Pump are designed for economical and reliable pumping of sewage water from commercial, communal and industrial sources.

They are suitable for clear and waste water containing solid and fibrous material.

Used in conjunction with the automatic coupling system the below ground level wet installation is a particularly economical solution which also does not damage the environment.

The pump are also suitable for quick portable applications.

Maximum temperature: +40°C

Materials

Casing—Cast iron FC20

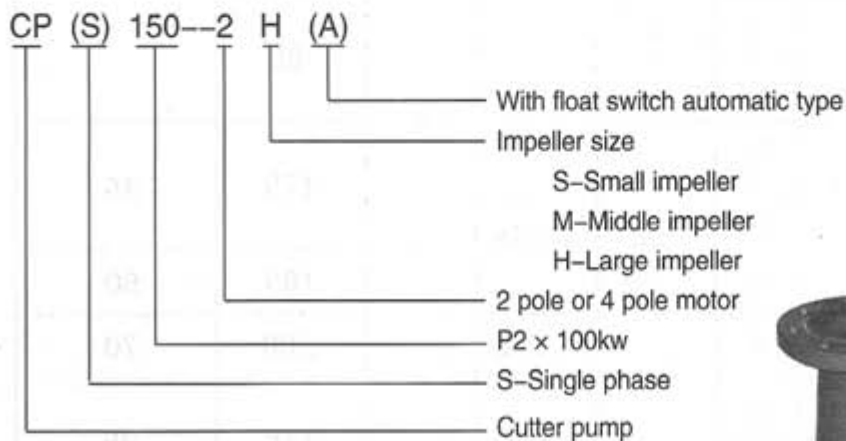
Shaft—Stainless steel SUS316

Impeller—Cast iron FC20

Fasteners—Stainless steel SUS304

Special materials on request

Model code



Submersible Sewage Pump

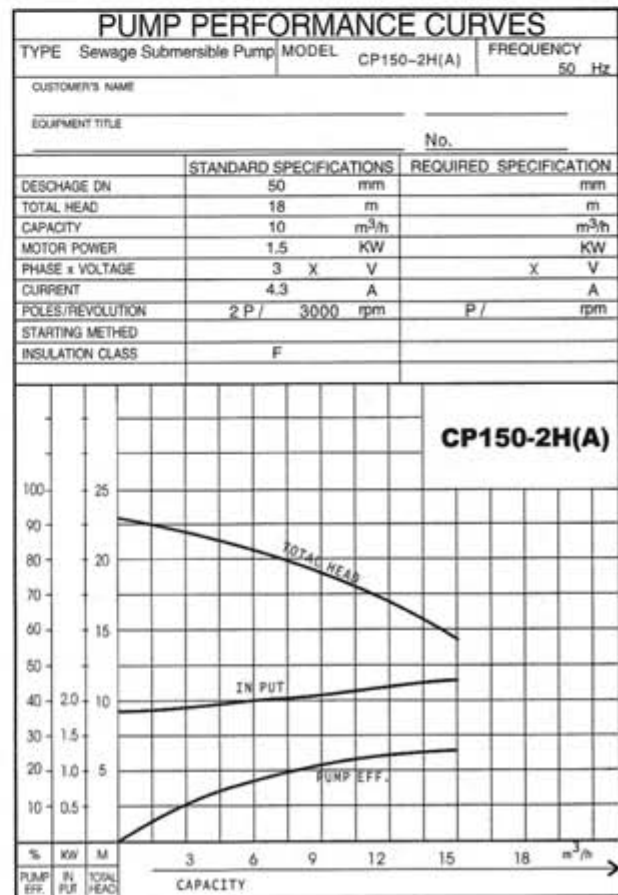
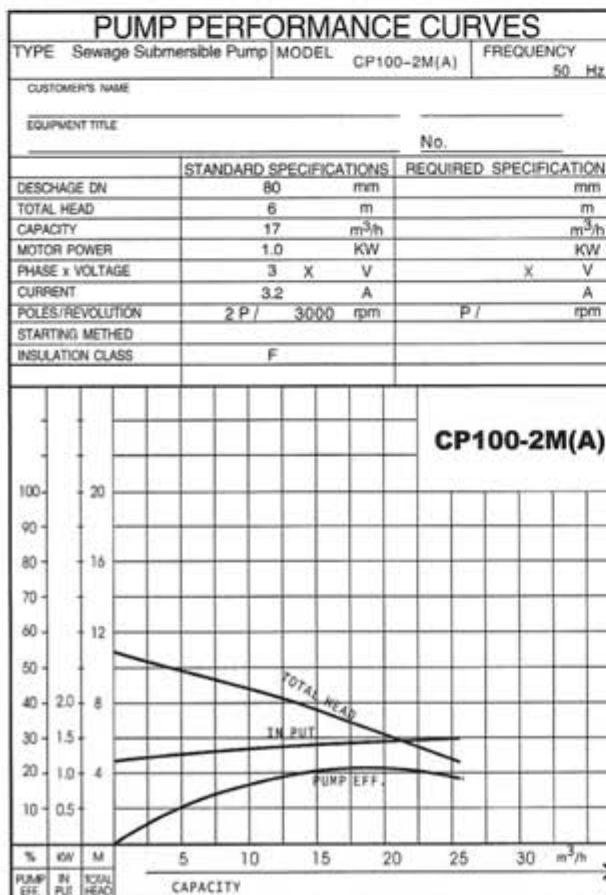
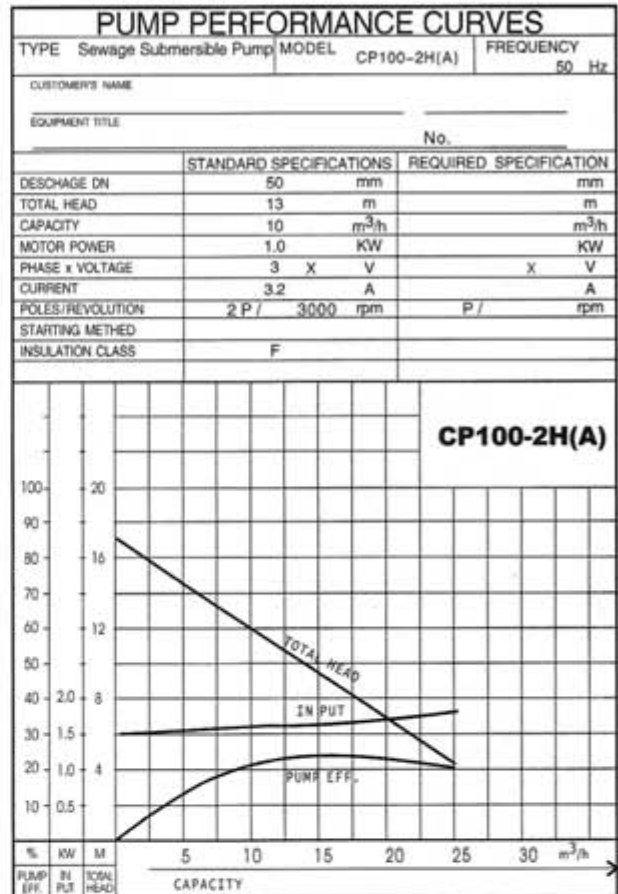
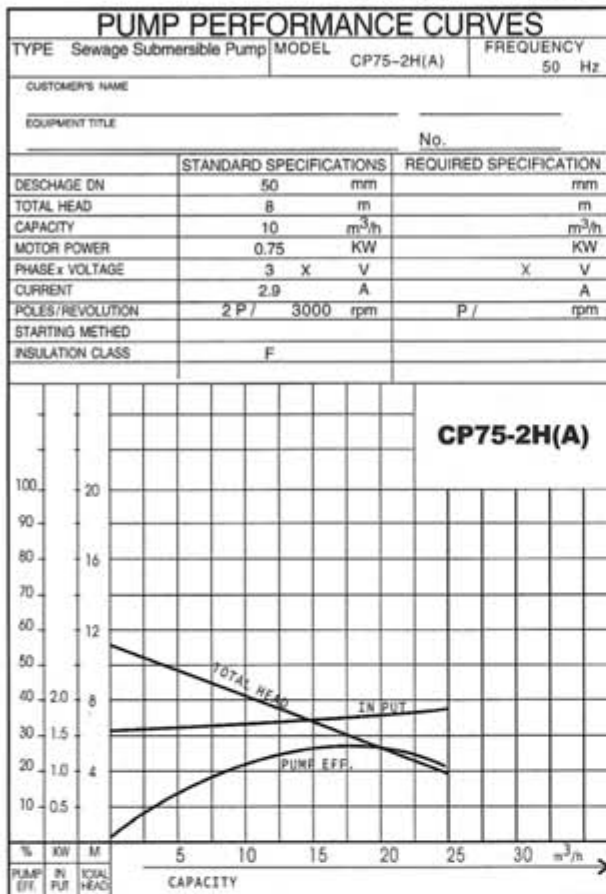
Specification

No	Model	Capacity (m³/h)	Head (m)	Power (kw)	Outle (ϕ mm)	Phase	Weight (kg)	Max Solids passed (ϕ mm)	
1	CP75–2H(A)	10	8	0.75	50GAK	3	35	25	
	CPS75–2H(A)					1			
2	CP100–2H(A)	10	13	1		3			
	CPS100–2H(A)	10	9			1			
3	CP150–2H(A)	10	18	1.5		3	40		
	CPS150–2H(A)	10	15			1			
4	CP100–2M(A)	17	6	1	80GAK	3	35	30	
	CPS100–2M(A)					1			
5	CP150–2M(A)	20	9	1.5		3	40		
	CPS150–2M(A)					1			
6	CP220–2H(A)	15	18	2.2		3	55		40
7	CP220–2M(A)	30	13						
8	CP300–2H(A)	20	22	3			57		
9	CP300–2M(A)	35	14						
10	CP400–2H(A)	20	25	4			85		
11	CP400–2M(A)	40	15						
12	CP550–2H	25	28	5.5	100GAK		175	35	
13	CP550–2M	30	24				185	50	
14	CP550–2S	65	15		150GAK		200	70	
15	CP550–4S	100	8				175	35	
16	CP750–2H	45	29	7.5	100GAK		185	50	
17	CP750–2M	70	20				200	70	
18	CP750–2S	80	15		150GAK				
19	CP750–4S	150	10						

Automatic type and common type are available on request.

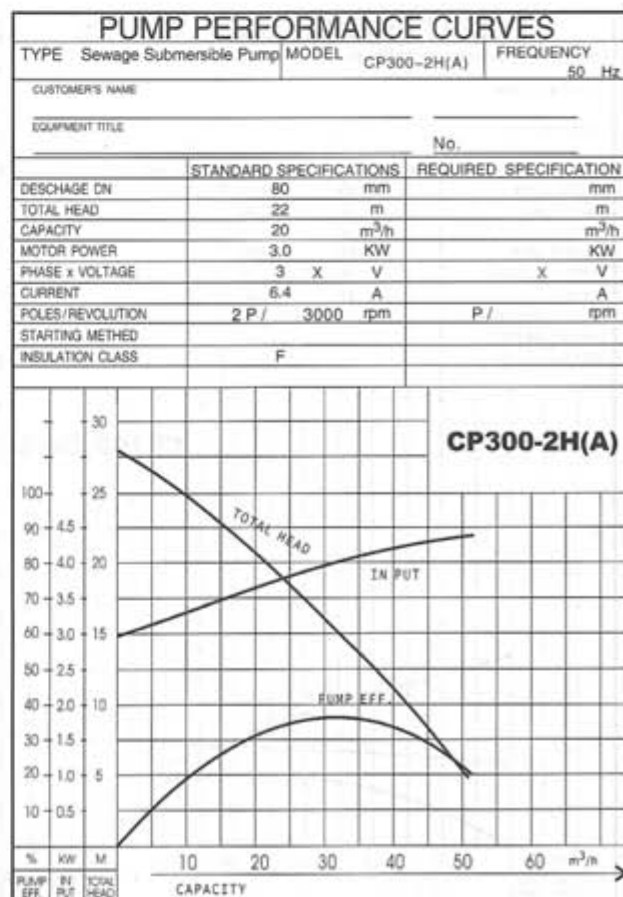
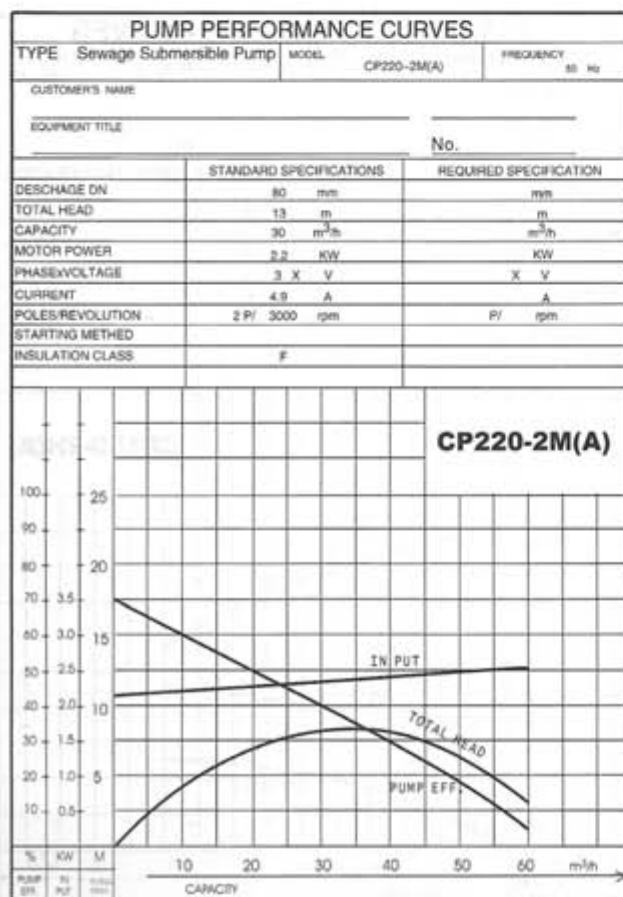
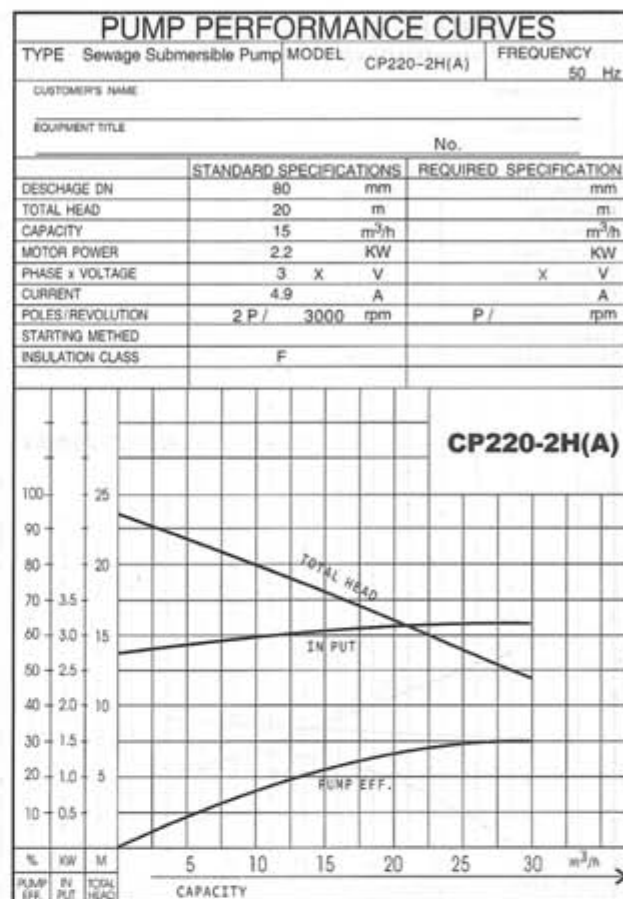
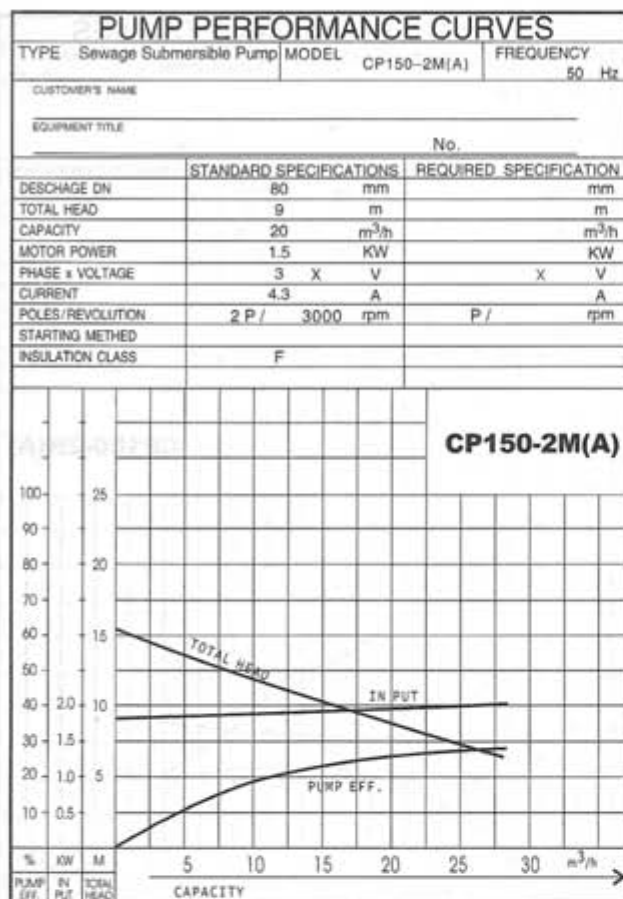
Submersible Sewage Pump

PERFORMANCE CURVES



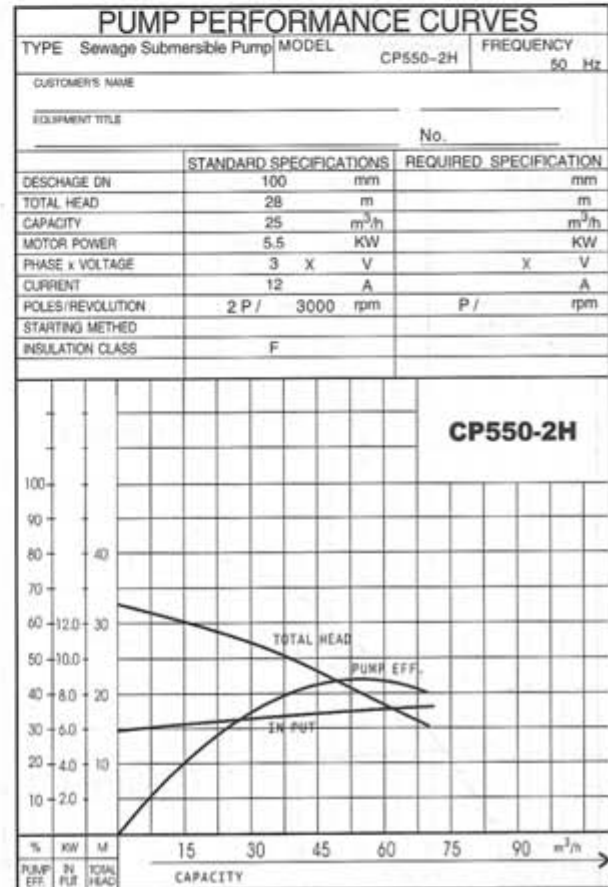
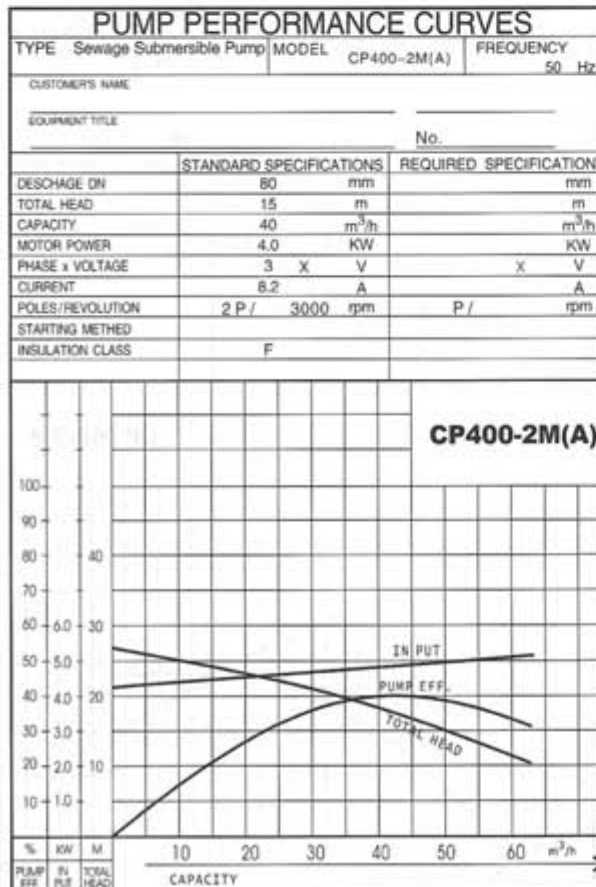
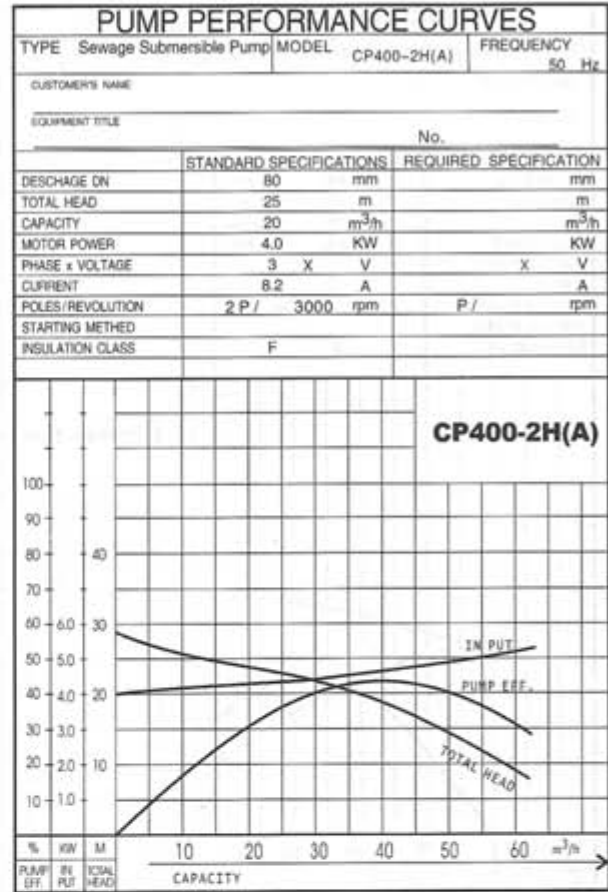
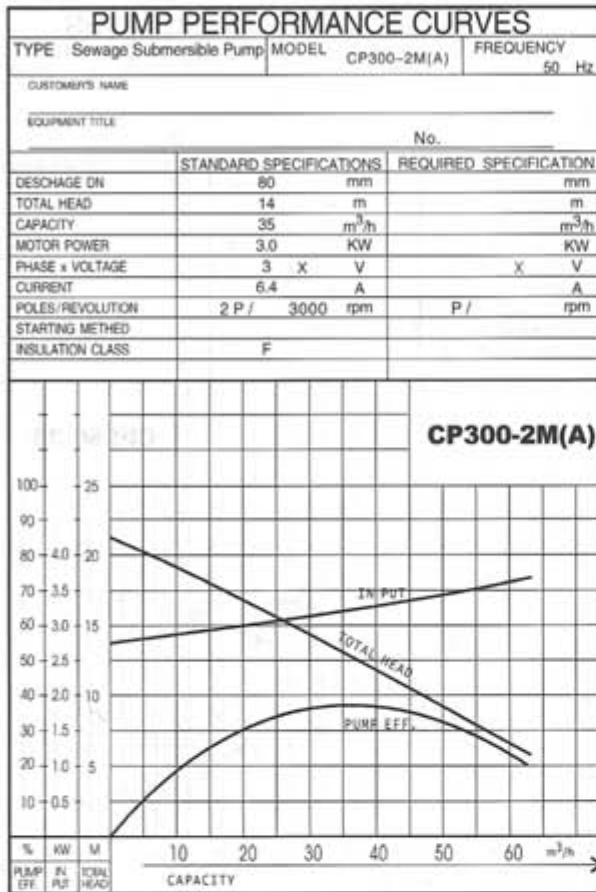
Submersible Sewage Pump

PERFORMANCE CURVES



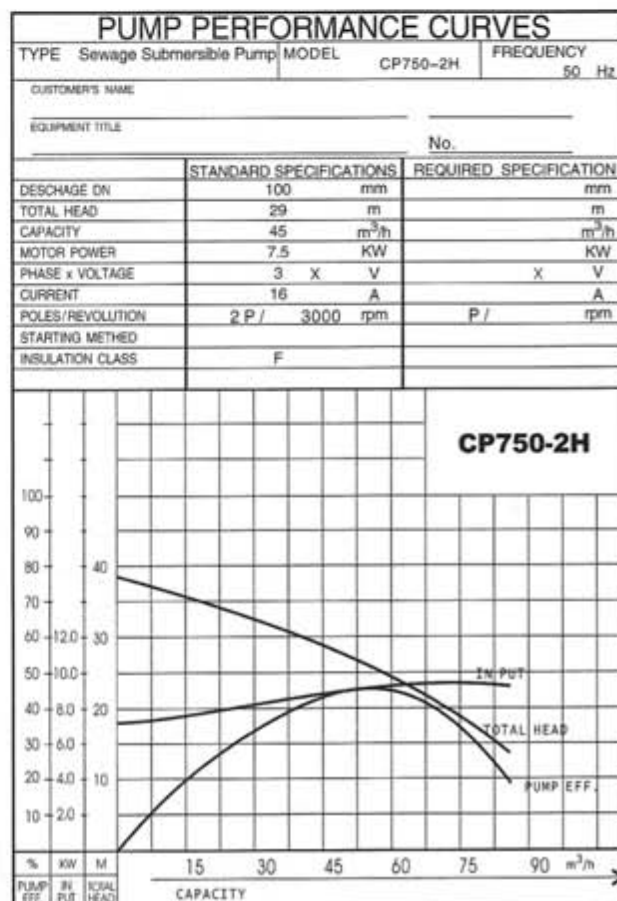
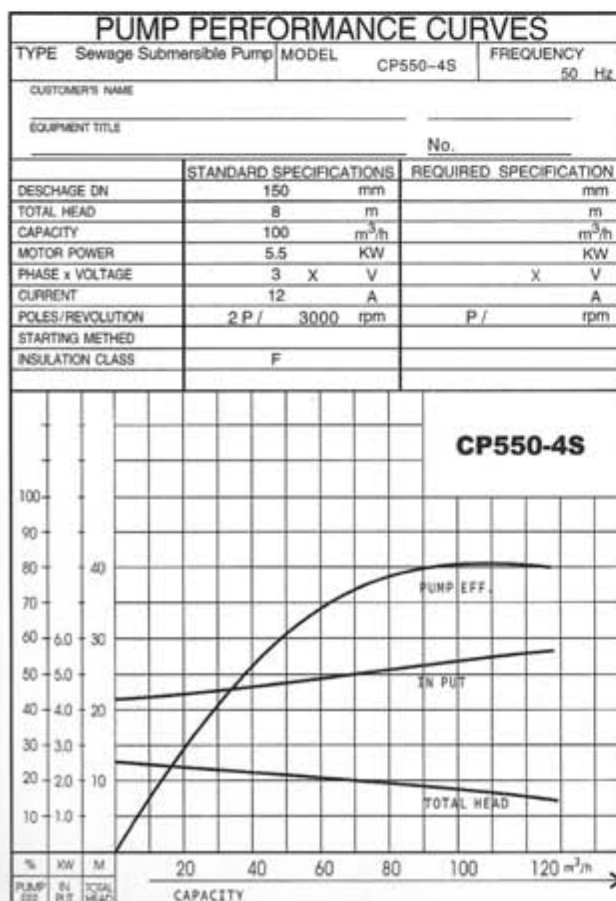
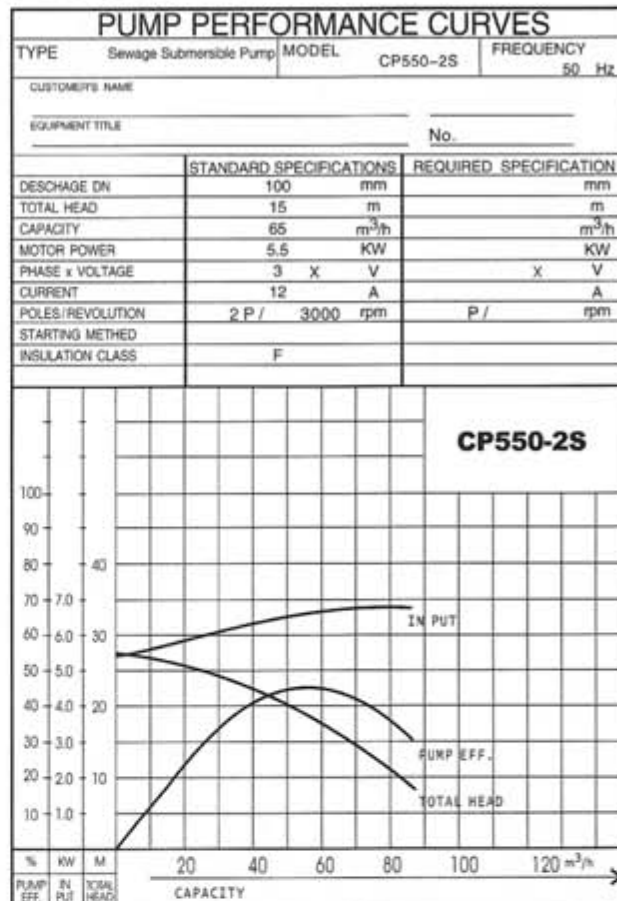
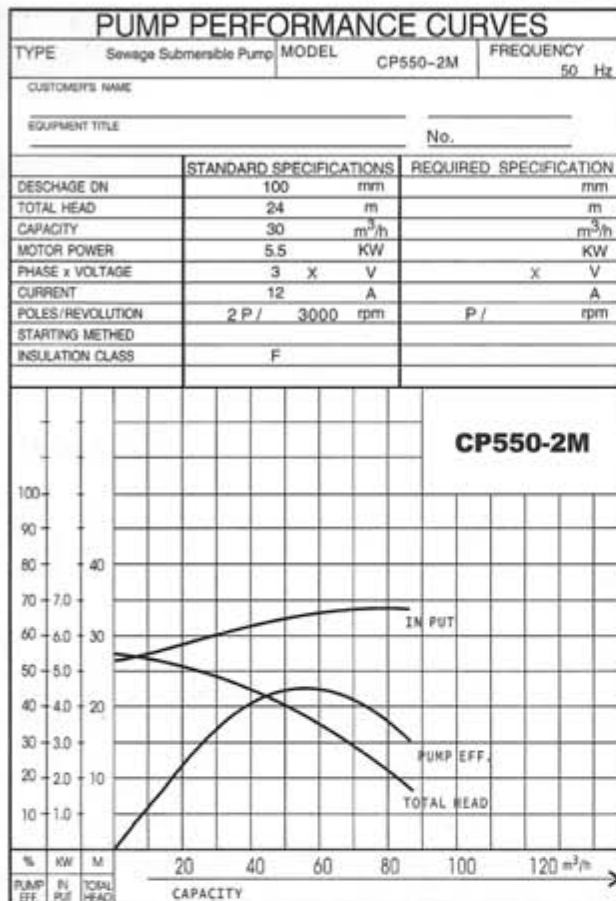
Submersible Sewage Pump

PERFORMANCE CURVES



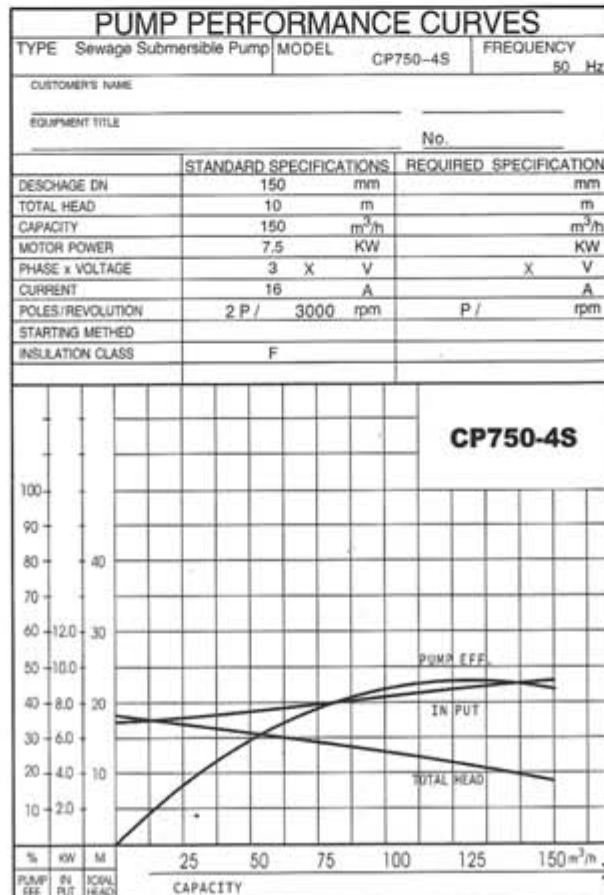
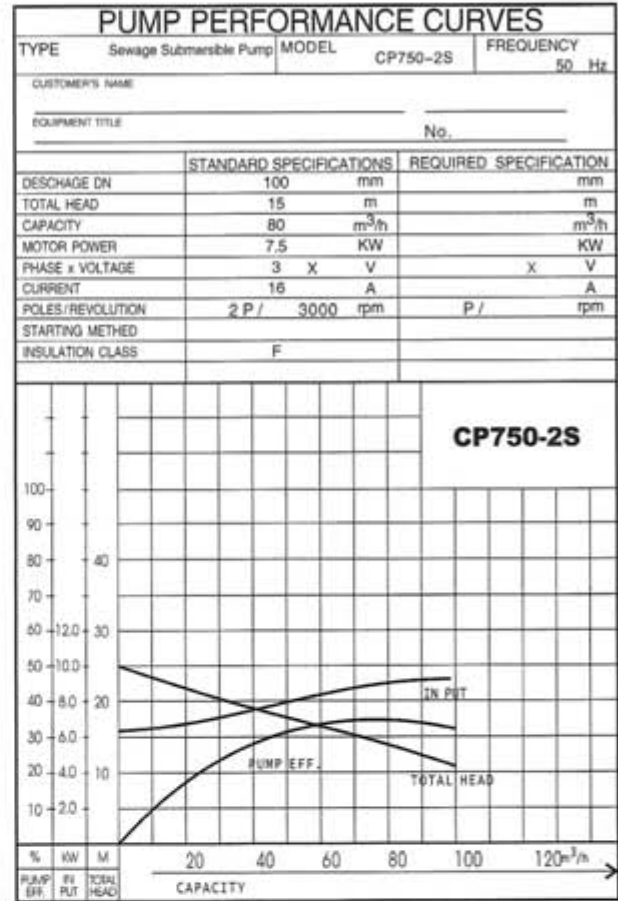
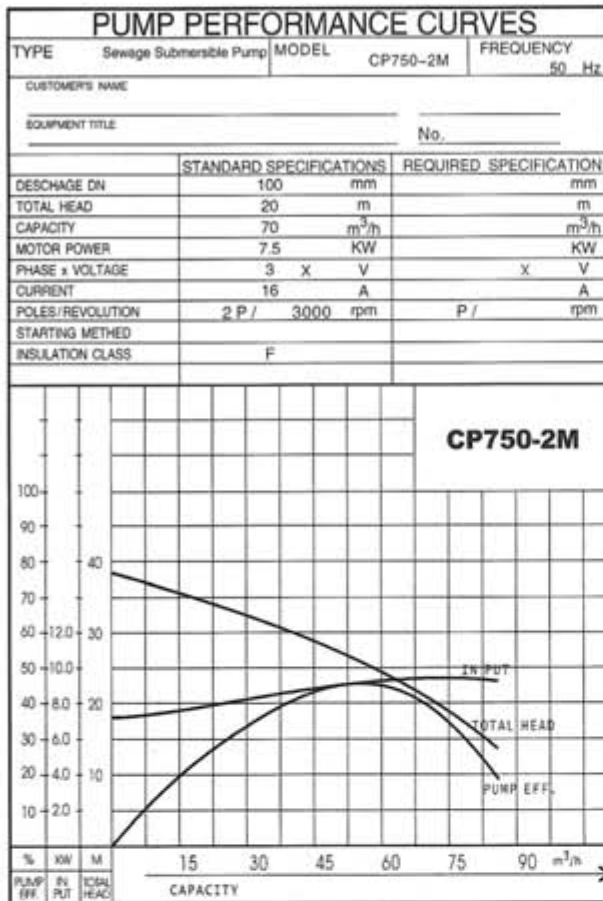
Submersible Sewage Pump

PERFORMANCE CURVES



Submersible Sewage Pump

PERFORMANCE CURVES

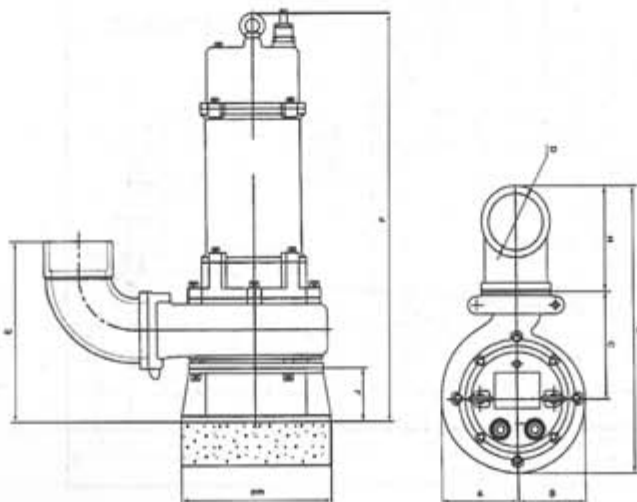


Submersible Sewage Pump

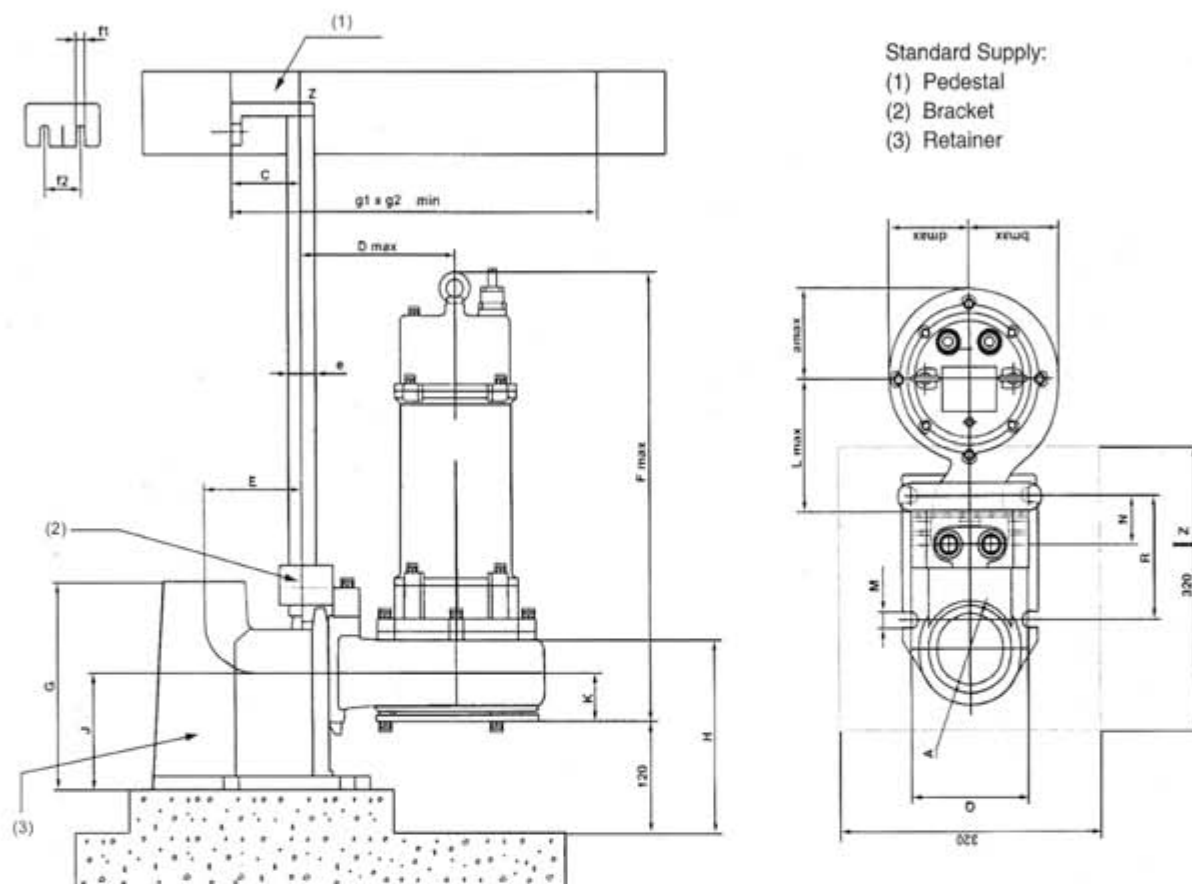
Dimenisons

No	Model	A	B	C	D	E	F	G	H	J	ØM
1	CP75-2H(A)	100	90	135	Rc2"	175	460	340	110	50	195
	CPS75-2H(A)										
2	CP100-2H(A)	110	98	145	Rc2"	200	550	360	110	75	220
	CPS100-2H(A)										
3	CP150-2H(A)	110	98	145	Rc2"	200	585	360	110	75	220
	CPS150-2H(A)										
4	CP100-2M(A)	117	96	145	Rc3"	235	550	387	135	75	220
	CPS100-2M(A)										
5	CP150-2M(A)	117	96	145	Rc3"	235	585	387	135	75	220
	CPS150-2M(A)										
6	CP220-2M(A)	126	106	165	Rc3"	250	615	415	135	90	240
	CP220-2H(A)										
7	CP300-2M(A)	126	106	165	Rc3"	250	615	415	135	90	240
	CP300-2H(A)										
8	CP400-2M(A)	170	133	210	Rc3"	285	784	496	135	105	260
9	CP400-2H(A)	130	128	200	Rc3"	285	775	465	135	105	260
10	CP550-2H	200	155	240	Rc4"	530	915	620	225	215	450
	CP550-2M										
	CP550-2S										
11	CP550-4S	230	180	248	Rc6"	587	975	725	275	215	450
12	CP750-2H	200	155	240	Rc4"	530	915	620	225	215	450
	CP750-2M										
	CP750-2S										
13	CP750-4S	230	180	248	Rc6"	587	975	725	275	215	450

Transportable



Automatic-Coupling System Installation (wet installation, stationary)



Type	A	C	D	E	F	G	H	J	L	M
50GAK	Rc2"	84	170	75	515	175	185	105	145	14
80GAK	Rc3"	84	205	120	600	240	200	135	175	18
100GAK	Rc4"	105	326	238	825	385	450	205	240	18
150GAK	Rc6"	105	450	310	920	435	335	235	350	18
Type	N	Q	$g^1 \times g^2(\text{min})$	R	a	b	d	k	f1/f2	e
50GAK	50	110	500 × 500	102	95	110	98	50	12/46	3/4"
80GAK	55	145	500 × 500	140	120	132	128	80	12/46	1"
100GAK	13	300	500 × 700	250	212	212	212	191	12/210	2"
150GAK	35	330	500 × 700	310	210	225	225	185	12/210	2"

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