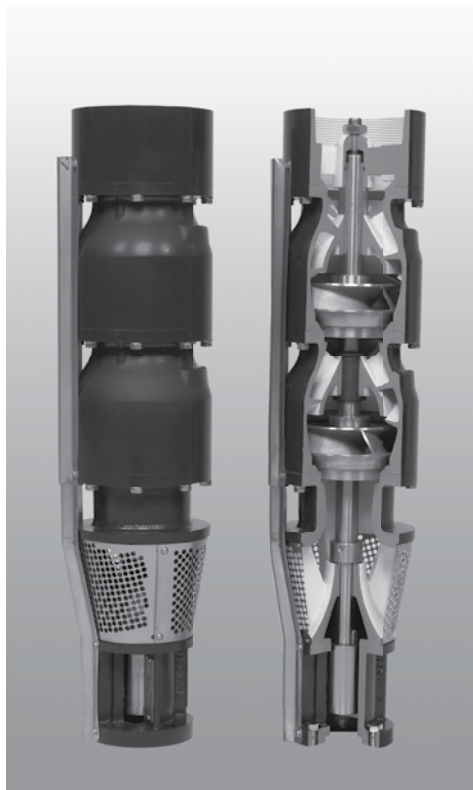


Submersible Turbine Pumps

8" Submersible Turbine Pump

550 GPM



FPS
*STS*series

Features

- Premium ductile iron casting for longer life and higher pressures
- Longer discharge and motor bracket bearings for increased pump life
- Spiral cutlass rubber intermediate bearings designed for abrasive environments
- 416 stainless steel pump shaft ground and polished for maximum durability
- Investment cast stainless steel impellers for maximum abrasion resistance
- Custom pumps available

Specifications

Minimum Well I.D.	8"
Minimum Submergence Above Inlet	10'
Discharge	4" or 6" NPT

Note: Refer to Franklin Electric AIM data for motor cooling requirements.

Materials of Construction

Part Name	Common Material Name	Material Spec. Number
Discharge Bracket	Ductile Iron	ASTM A536 65-45-12
Top Bowl	Ductile Iron	ASTM A536 65-45-12
Intermediate Bowl	Ductile Iron	ASTM A536 65-45-12
Bearings, Disch. & Suction	Bronze	ASTM 8584 C89835
Impeller	304 Stainless Steel	ASTM A743/A743M CF8
Pump Shaft	416 Stainless Steel	ASTM A582 S41600
Suction Bracket	Ductile Iron	ASTM A536 65-45-12
Bowl Bearing	Rubber	Rubber
Sand Collar	300 Stainless Steel	ASTM A666
Suction Screen	302 Stainless Steel	ASTM A240 S30200
Cable Guard	300 Stainless Steel	ASTM A666
Shaft Coupling	416 Stainless Steel	ASTM A582 S41600
Upthrust Bolt	300 Stainless Steel	ASTM A666
Taper Lock	416 Stainless Steel	ASTM A582 S41600
Bolting	300 Stainless Steel	ASTM A666

Note: Bowl bearing and shaft options available. Contact customer service for available options.

Model Number Explanation

Example: 350STS10D8C-0264

350 = GPM
STS = Sub Turbine
10 = Horsepower
D = Ductile Iron
8 = 8" Pump
C = Impeller Trim Configuration
02 = Number of Stages
6 = 6" Motor Bracket
4 = 4" Discharge

Submersible Turbine Pumps

Model 550STS8 Performance

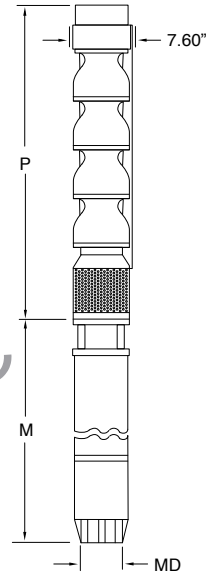
Dimension Information

HP	Stages	Trim	Motor Size	P	M*	MD*	Motor Wt.	Pump Wt.
				inch	inch	inch	lbs.	lbs.
10	1	1B	6"	25.4	25.4	5.44	103	95
15	1	1A	6"	25.4	28.0	5.44	114	95
20	2	2B	6"	32.5	30.6	5.44	126	125
25	2	2A	6"	32.5	33.1	5.44	140	125
30	3	3B	6"	39.6	35.7	5.44	154	155
40	4	4B	6"	46.7	40.8	5.44	182	185
40	4	4B	8"	48.1	36.4	7.70	274	209

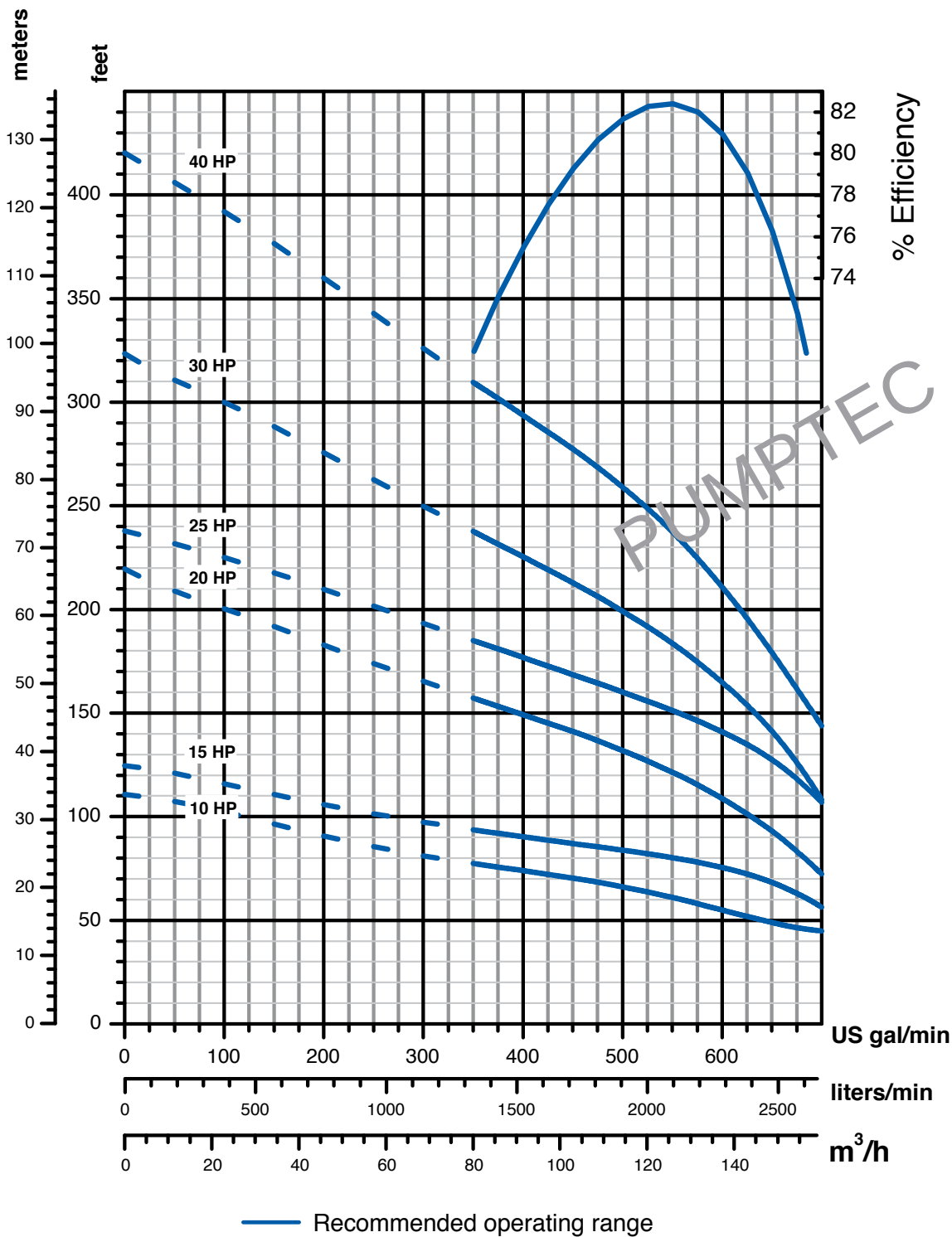
Note: *MD diameter = Franklin Electric Motor, M = Maximum Length of Franklin Electric Motor

Order Information

8" Submersible Turbine Pump Ends								
GPM	HP	Stages	Trim Size	Motor Bracket Size	Discharge Size	Order No.	Model No.	Shipping Weight (lbs.)
550	10	1	1B	6"	4" NPT	97080550001	550STS10D8B-0164	111
	10	1	1B	6"	6" NPT	97080550101	550STS10D8B-0166	111
	15	1	1A	6"	4" NPT	97080550201	550STS15D8A-0164	111
	15	1	1A	6"	6" NPT	97080550301	550STS15D8A-0166	111
	20	2	2B	6"	4" NPT	97080550002	550STS20D8B-0264	143
	20	2	2B	6"	6" NPT	97080550102	550STS20D8B-0266	143
	25	2	2A	6"	4" NPT	97080550202	550STS25D8A-0264	143
	25	2	2A	6"	6" NPT	97080550302	550STS25D8A-0266	143
	30	3	3B	6"	4" NPT	97080550003	550STS30D8B-0364	176
	30	3	3B	6"	6" NPT	97080550103	550STS30D8B-0366	176
	40	4	4B	6"	4" NPT	97080550004	550STS40D8B-0464	209
	40	4	4B	6"	6" NPT	97080550104	550STS40D8B-0466	209
	40	4	4B	8"	4" NPT	97080550604	550STS40D8B-0484	233
	40	4	4B	8"	6" NPT	97080550704	550STS40D8B-0486	233



Model 550STS8 Performance



Note: Performance based on:
 -Fresh water, 68 °F
 -6" motor / 3450 rpm

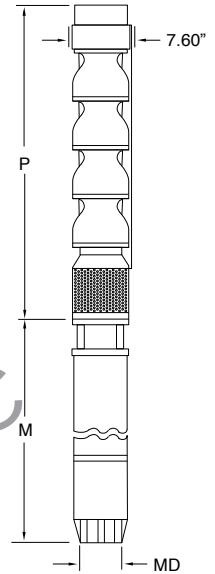
Submersible Turbine Pumps

Model 550STS8 Performance

Dimension Information

HP	Stages	Trim	Motor Size	P	M*	MD*	Motor Wt.	Pump Wt.
				inch	inch	inch	lbs.	lbs.
50	4	4A	6"	46.7	55.3	5.44	263	185
50	4	4A	8"	48.1	39.4	7.70	309	209
60	5	3A 2B	6"	53.8	61.3	5.44	291	215
60	5	3A 2B	8"	55.1	42.1	7.70	344	240
75	6	4A 2B	8"	62.2	47.4	7.70	399	270
100	8	6A 2B	8"	76.4	54.9	7.70	481	331
125	10	7A 3B	8"	90.6	68.8	7.70	644	391

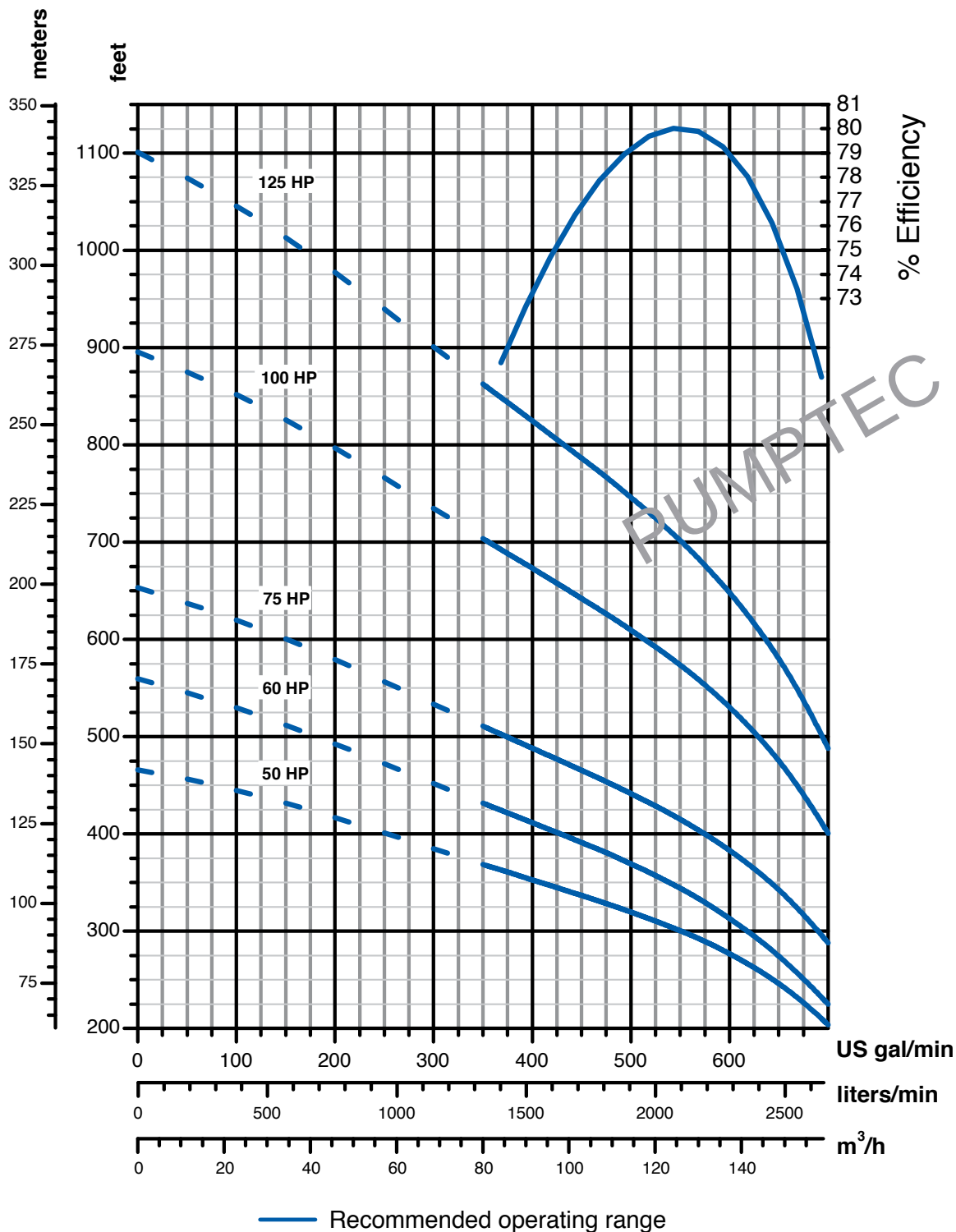
Note: *MD diameter = Franklin Electric Motor, **M** = Maximum Length of Franklin Electric Motor



Order Information

8" Submersible Turbine Pump Ends								
GPM	HP	Stages	Trim Size	Motor Bracket Size	Discharge Size	Order No.	Model No.	Shipping Weight (lbs.)
550	50	4	4A	6"	4" NPT	97080550204	550STS50D8A-0464	209
	50	4	4A	6"	6" NPT	97080550304	550STS50D8A-0466	209
	50	4	4A	8"	4" NPT	97080550804	550STS50D8A-0484	233
	50	4	4A	8"	6" NPT	97080550904	550STS50D8A-0486	233
	60	5	3A 2B	6"	4" NPT	97080550005	550STS60D8X-0564	243
	60	5	3A 2B	6"	6" NPT	97080550105	550STS60D8X-0566	243
	60	5	3A 2B	8"	4" NPT	97080550805	550STS60D8X-0584	268
	60	5	3A 2B	8"	6" NPT	97080550905	550STS60D8X-0586	268
	75	6	4A 2B	8"	4" NPT	97080550806	550STS75D8X-0684	301
	75	6	4A 2B	8"	6" NPT	97080550906	550STS75D8X-0686	301
	100	8	6A 2B	8"	4" NPT	97080550808	550STS100D8X-0884	408
	100	8	6A 2B	8"	6" NPT	97080550908	550STS100D8X-0886	408
	125	10	7A 3B	8"	4" NPT	97080550810	550STS125D8X-1084	480
	125	10	7A 3B	8"	6" NPT	97080550910	550STS125D8X-1086	480

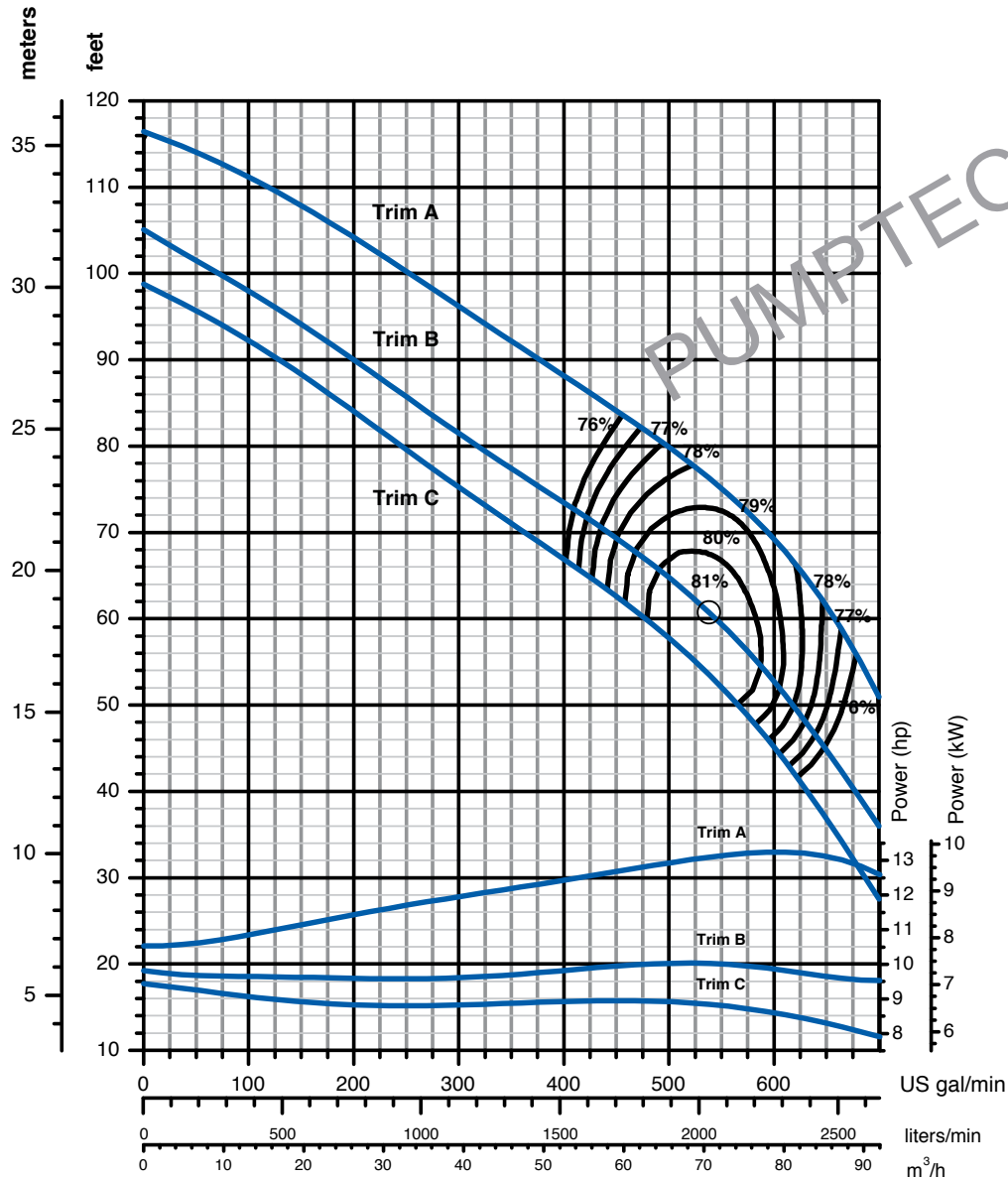
Model 550STS8 Performance



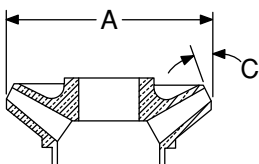
Note: Performance based on:
 -Fresh water, 68 °F
 -6" motor / 3450 rpm
 -8" motor / 3520 rpm

Model 550STS8 Performance

Single Stage Performance



Note: Efficiencies are typical, not guaranteed. Efficiency correction required for low stage count pumps.
 (1-stage 2%, 2-stage 1%, 3-stage 1%)
 Bowl #13 begins transition to double-bolted (8 bolts @ bottom, 16 bolts @ top)
 Nominal RPM: 3450



Impeller Dimensions

Trim	Diameter (in)	C Angle
A	5.674"	17 °
B	5.371"	17 °
C	5.227"	17 °