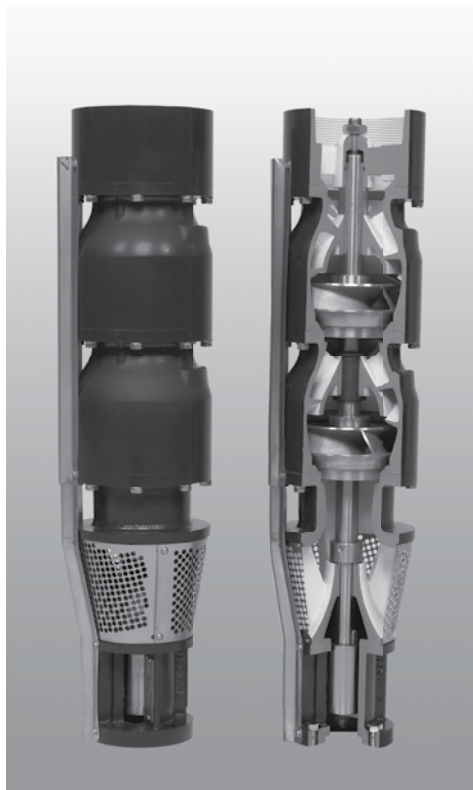


Submersible Turbine Pumps

8" Submersible Turbine Pump

350 GPM



FPS
STSseries

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

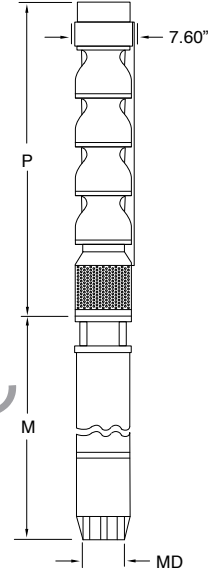
Submersible Turbine Pumps

Model 350STS8 Performance

Dimension Information

HP	Stages	Trim	Motor Size	P	M*	MD*	Motor Wt.	Pump Wt.
				inch	inch	inch	lbs.	lbs.
7.5	1	1B	6"	24.7	24.2	5.44	99	94
10	2	2C	6"	31.1	25.4	5.44	103	124
15	2	2B	6"	31.1	28.0	5.44	114	124
20	2	1A 1B	6"	31.1	30.6	5.44	126	124
25	2	2A	6"	31.1	33.1	5.44	140	124
30	3	2A 1B	6"	37.5	35.7	5.44	154	154

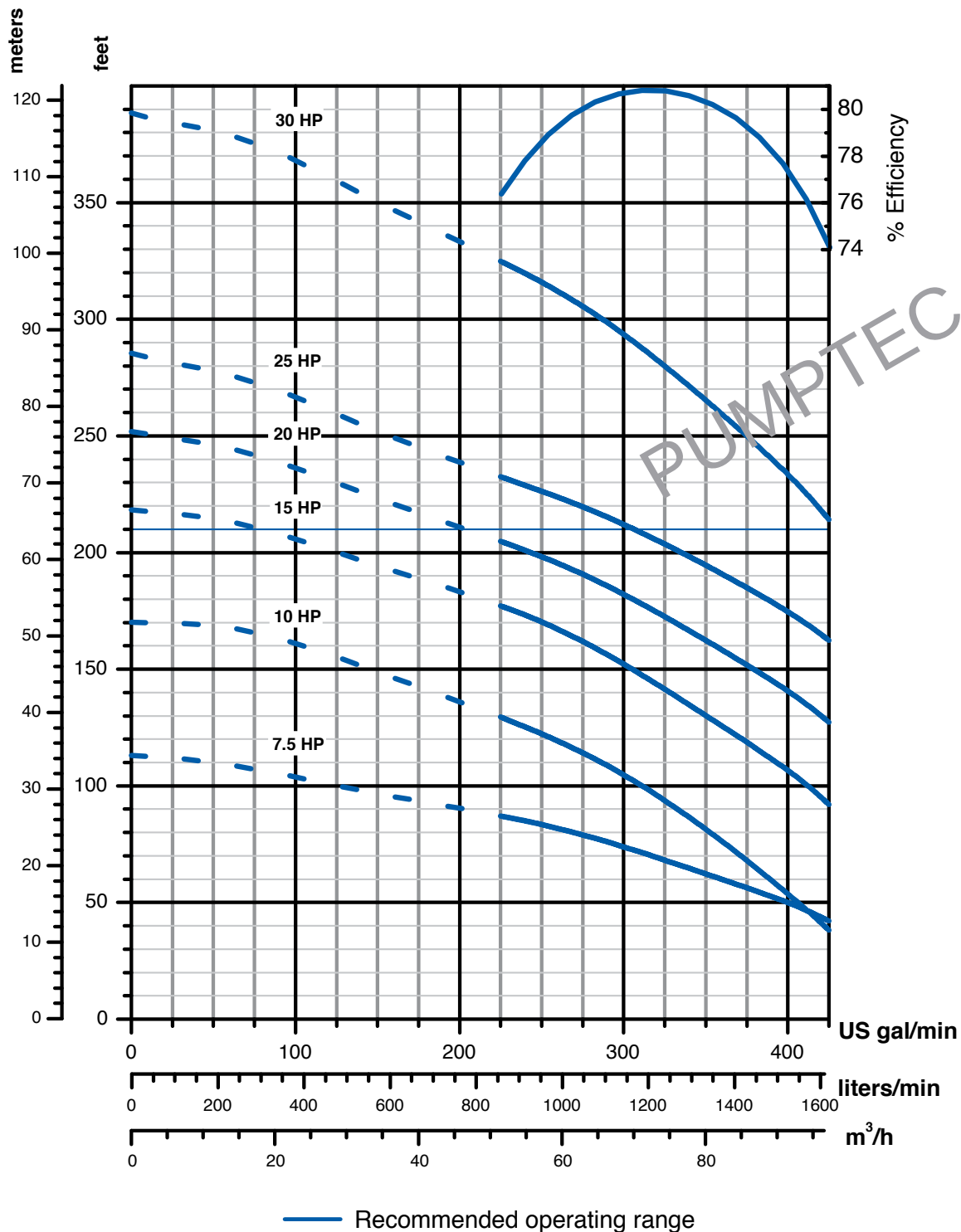
Note: *MD diameter = Franklin Electric Motor, M = Maximum Length of Franklin Electric Motor



Order Information

8" Submersible Turbine Pump Ends								
GPM	HP	Stages	Trim Size	Motor Bracket Size	Discharge Size	Order No.	Model No.	Shipping Weight (lbs.)
350	7.5	1	1B	6"	4" NPT	97080350001	350STS7D8B-0164	110
	7.5	1	1B	6"	6" NPT	97080350101	350STS7D8B-0166	110
	10	2	2C	6"	4" NPT	97080350002	350STS10D8C-0264	142
	10	2	2C	6"	6" NPT	97080350102	350STS10D8C-0266	142
	15	2	2B	6"	4" NPT	97080350202	350STS15D8B-0264	142
	15	2	2B	6"	6" NPT	97080350302	350STS15D8B-0266	142
	20	2	1A 1B	6"	4" NPT	97080350402	350STS20D8X-0264	142
	20	2	1A 1B	6"	6" NPT	97080350502	350STS20D8X-0266	142
	25	2	2A	6"	4" NPT	97080350602	350STS25D8A-0264	142
	25	2	2A	6"	6" NPT	97080350702	350STS25D8A-0266	142
	30	3	2A 1B	6"	4" NPT	97080350003	350STS30D8X-0364	175
	30	3	2A 1B	6"	6" NPT	97080350103	350STS30D8X-0366	175

Model 350STS8 Performance



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

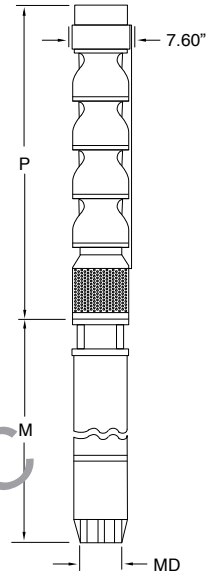
Submersible Turbine Pumps

Model 350STS8 Performance

Dimension Information

HP	Stages	Trim	Motor Size	P	M*	MD*	Motor Wt.	Pump Wt.
				inch	inch	inch	lbs.	lbs.
40	4	3A 1B	6"	43.8	40.8	5.44	182	184
40	4	3A 1B	8"	45.2	36.4	7.70	274	208
50	5	4A 1B	6"	50.2	55.3	5.44	263	213
50	5	4A 1B	8"	51.6	39.4	7.70	309	238
60	6	5A 1B	6"	56.6	61.3	5.44	291	243
60	6	5A 1B	8"	58.0	42.1	7.70	344	267
75	7	7A	8"	64.3	47.4	7.70	399	297
100	9	9A	8"	77.1	54.9	7.70	481	356
125	11	11A	8"	89.9	68.8	7.70	644	415

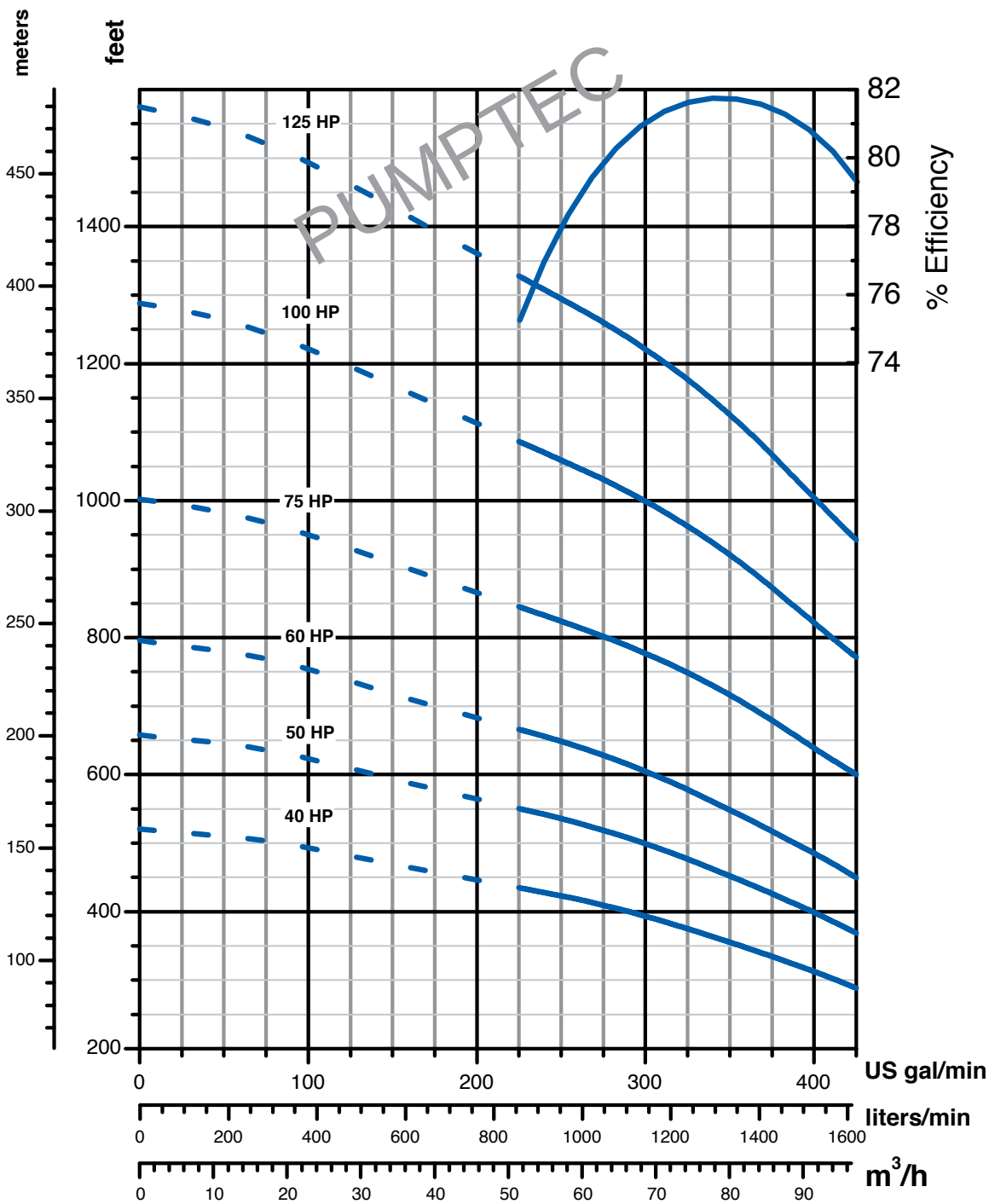
Note: *MD diameter = Franklin Electric Motor, M = Maximum Length of Franklin Electric Motor



Order Information

8" Submersible Turbine Pump Ends								
GPM	HP	Stages	Trim Size	Motor Bracket Size	Discharge Size	Order No.	Model No.	Shipping Weight (lbs.)
350	40	4	3A 1B	6"	4" NPT	97080350004	350STS40D8X-0464	208
	40	4	3A 1B	6"	6" NPT	97080350104	350STS40D8X-0466	208
	40	4	3A 1B	8"	4" NPT	97080350804	350STS40D8X-0484	232
	40	4	3A 1B	8"	6" NPT	97080350904	350STS40D8X-0486	232
	50	5	4A 1B	6"	4" NPT	97080350005	350STS50D8X-0564	241
	50	5	4A 1B	6"	6" NPT	97080350105	350STS50D8X-0566	241
	50	5	4A 1B	8"	4" NPT	97080350805	350STS50D8X-0584	266
	50	5	4A 1B	8"	6" NPT	97080350905	350STS50D8X-0586	266
	60	6	5A 1B	6"	4" NPT	97080350006	350STS60D8X-0664	271
	60	6	5A 1B	6"	6" NPT	97080350106	350STS60D8X-0666	271
	60	6	5A 1B	8"	4" NPT	97080350806	350STS60D8X-0684	295
	60	6	5A 1B	8"	6" NPT	97080350906	350STS60D8X-0686	295
	75	7	7A	8"	4" NPT	97080350807	350STS75D8A-0784	328
	75	7	7A	8"	6" NPT	97080350907	350STS75D8A-0786	328
	100	9	9A	8"	4" NPT	97080350809	350STS100D8A-0984	433
	100	9	9A	8"	6" NPT	97080350909	350STS100D8A-0986	433
	125	11	11A	8"	4" NPT	97080350811	350STS125D8A-1184	504
	125	11	11A	8"	6" NPT	97080350911	350STS125D8A-1186	504

Model 350STS8 Performance



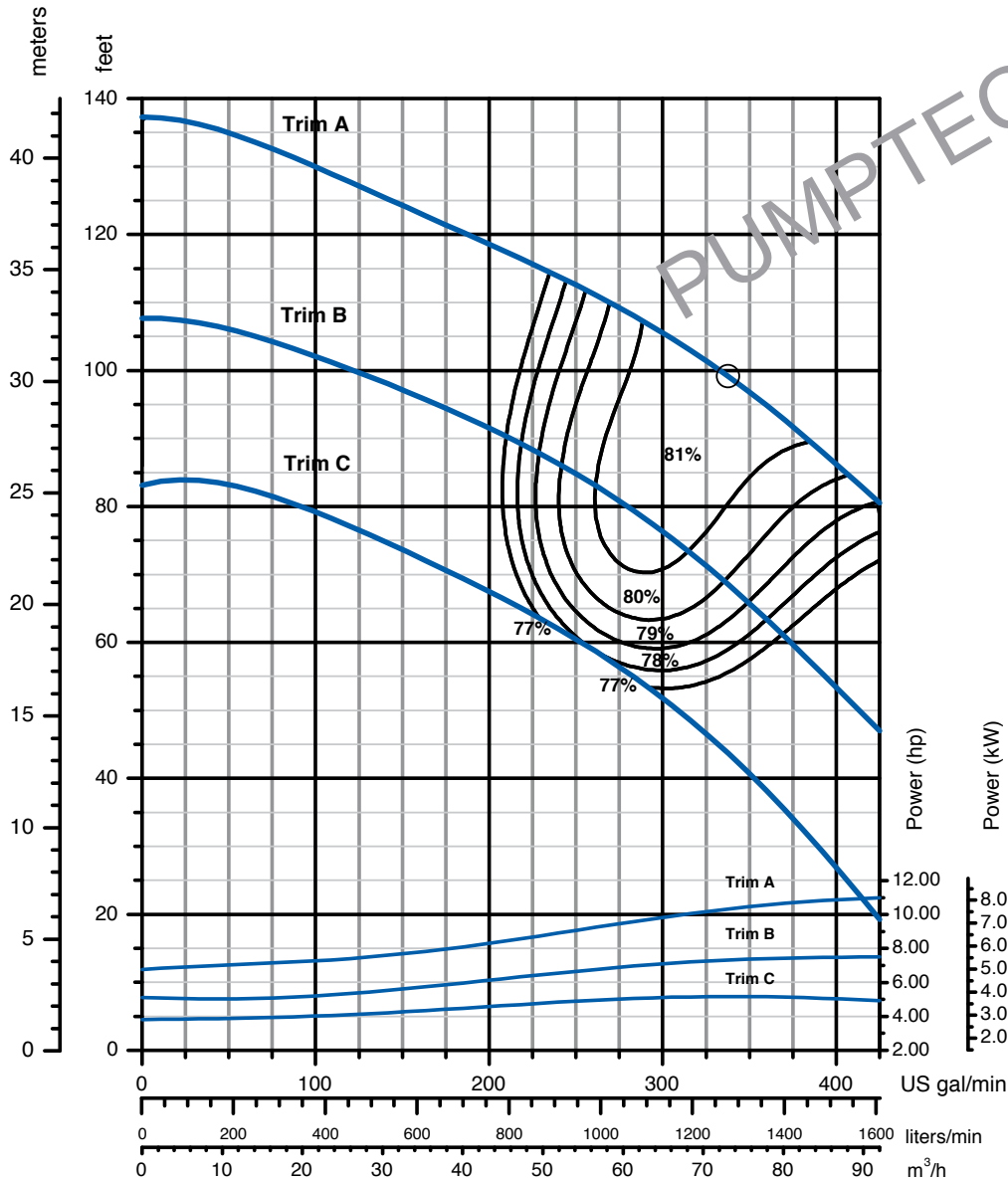
— Recommended operating range

Note: Performance based on:

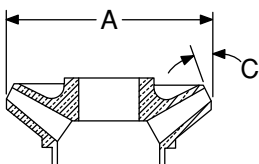
- Fresh water, 68 °F
- 6" motor / 3450 rpm
- 8" motor / 3520 rpm

Model 350STS8 Performance

Single Stage Performance



Note: Efficiencies are typical, not guaranteed. Efficiency correction required for low stage count pumps.
 (1-stage 5%, 2-stage 2%, and 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	5.701"	20 °
B	5.229"	20 °
C	4.757"	20 °