

T series – Thermax™ (thermoplastic)

Precision-engineered, corrosion resistant T Series – Thermax pumps in 5 to 25 GPM deliver efficient, dependable performance even in rough, aggressive water. Heads to over 900 feet and capacities to 35 GPM. Built to deliver long-term, trouble-free service.

- ▶ **Wide Range of GPM and HP Ratings Available** – Pump models to fill most all of your needs
- ▶ **Precision Molded Thermax™ Discharge Head** – Strong, corrosion resistant and lead-free
- ▶ **Built-in Flomatic® brand spring-loaded check valve poppet** – Positive sealing, field-proven, non-spin design
- ▶ **Lubricated and Sealed Top “A+” Bearing** – Seal keeps out sand. Lubrication prevents failure in dry run and gaseous well situations
- ▶ **Precision Molded, High-Impact Thermax™ Impellers “Float” in Diffuser Stages Fitted with Stainless Steel Wear Rings** – Superior sand handling and dry run capacities. No shims needed here!
- ▶ **Stainless Steel Cable Guard** – Protects motor leads
- ▶ **Cast Stainless Hardware and Precision Machined Pump Shell** – Strong and corrosion resistant
- ▶ **Precision Molded Thermax™ Motor Bracket with Wrap Around Suction Screen** – Strong and corrosion resistant with screen that prevents debris from entering pump
- ▶ **Aermotor Pump** – Driven by two- or three-wire water-lubricated motors with thermal overload and built-in lightning protection. Reliable, corrosion resistant, internationally recognized submersible motor built to NEMA standards and UL approved.



specifications

Discharge Head – Minlon® (Nylon), 1-1/4" NPT

Pipe Stop – Minlon® (Nylon), 1-1/4" NPT

Internal Check Valve – Acetal poppet, 300 grade stainless steel spring, nitrile Buna-N seal

Pump Shell – 304 grade stainless steel

Motor Bracket – Minlon® (Nylon)

Intake Screen – Polyethylene

Cable Guard – 304 grade stainless steel

Cable Guard Screws – 300 grade stainless steel (18-8)

Pump Shaft – 300 grade stainless steel, 1-1/2 HP and larger*

Motor Coupling – 316 grade stainless steel

Spacer Sleeve Journal, Bottom – 316 grade stainless steel

*400 grade stainless steel – 1/2 and 1 HP

Bearing Sleeve Journal, Top – 316 grade stainless steel

Stage Diffuser – Glass-filled Noryl®

Diffuser Insert – 300 grade stainless steel

Impeller – 5-22 GPM: Lexan®; 25 GPM: Glass-filled Noryl®

A+ Top Bearing – Delrin® (Acetal)

Stage Disc Plate – 5-22 GPM: Delrin® (Acetal); 25 GPM: Glass-filled Noryl®

Disc Plate Wear Ring – 5-22 GPM: N/A; 25 GPM: 300 grade stainless steel

Upthrust Disc (5 GPM Models) – 5-22 GPM: Phenolic; 25 GPM: N/A

Bearing Seal Ring – NSF 61 Nitrile

Motor Lead Protector – Temflex®

Serrated Nuts (Motor Studs) – 300 grade stainless steel (18-8)

application

Water Systems...for residential, industrial, commercial, multiple housing and farm use

certification



This product is Listed to UL and CSA Standards for Safety by CSA International.

Delrin® and Minlon® are registered trademarks of E.I. DuPont de Nemours and Co. Flomatic® is a registered trademark of Flomatic Corp. Noryl® and Temflex® are registered trademarks of General Electric Co. Thermax™ is a trademark of WICOR Industries.

4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR®**

T series – Thermax™ (thermoplastic)

ordering information – single phase

HP	Series	GPM	Stages	Volt.	2 WIRE* Pump and Motor w/Motor Lead			3 WIRE* Pump and Motor w/Motor Lead Order Control Box Separately			Control Box All Three Wire Units	
					Order No.	Length	Weight	Order No.	Length	Weight	Order No.	Weight
1/2	T5	5	13	115	02638	26-5/8	26	02626	26-5/8	26	280 104 49	3
				230	02639			02627			280 105 49	
	T8	8	10	115	02668	24-1/2	25	02632	24-1/2	25	280 104 49	
				230	02643			02633			280 105 49	
	T12	12	8	115	02647	26-3/8	23	02655	26-3/8	24	280 104 49	
				230	02648			02656			280 105 49	
	T16	16	7	115	02375	24-1/2	23	02377	24-1/2	24	280 104 49	
				230	02374			02376			280 105 49	
	T20	20	6	115	02707	23	22	02709	23	21	280 104 49	
				230	02708			02710			280 105 49	
3/4	T5	5	19	230	02640	32-3/8	32	02628	32-3/8	31	280 107 49	3
	T8	8	13	230	02644	28	29	02634	28	29		
	T12	12	11	230	02649	26-3/8	28	02657	26-3/8	28		
	T16	16	10	230	02378	28-5/8	28	02379	28-5/8	28		
	T20	20	9	230	02651	27	28	02659	27	27		
	T25	25	6	230	02290	25-3/4	24	02291	25-3/4	27		
1	T5	5	22	230	02641	36-1/2	35	02629	36-1/2	36	280 108 49	3
	T8	8	16	230	02661	31-1/8	33	02635	31-1/8	33		
	T12	12	14	230	02650	29-3/4	32	02658	29-3/4	32		
	T16	16	12	230	02380	31-3/4	32	02381	31-3/4	32		
	T20	20	11	230	02652	30-1/8	32	02660	30-1/8	31		
	T22	22	9	230	02662	31	31	02663	31	30		
	T25	25	8	230	02292	29-1/2	27	02293	29-1/2	26		
1-1/2	T5	5	29	230	02301	45-1/8	50	02302	43-5/8	42	282 300 81	7
	T8	8	22	230	02303	39-7/8	46	02304	38-3/8	39		
	T12	12	19	230	02664	36-3/4	49	02665	35-1/4	37		
	T16	16	17	230	02382	40	49	02383	38-1/2	37		
	T20	20	15	230	02666	37-1/2	46	02667	36	38		
	T25	25	11	230	02294	36-3/8	46	02295	35-1/8	38		

* Pump end, motor and lead factory assembled and tested as a complete unit.

HP	Series	GPM	Stages	Volt.	Pump End Assembly*			3 WIRE ¹ Motor and Lead Assembly			Control Box	
					Order No.	Length	Weight	Order No.	Length	Weight	Order No.	Weight
2	T5	5	34	230	89039	33-3/4	17	224 301 92	15-1/8	32	282 301 81	7
	T8	8	28	230	89041	29-1/4	14					
	T12	12	21	230	89043	24	12					
	T16	16	22	230	89223	30	13					
	T20	20	19	230	89045	27-1/4	13					
	T25	25	14	230	88025	25-1/2	1					

¹2 HP motor includes 48" lead.

* Pump end factory tested, but shipped separate from motor/lead assembly.

NOTE: ALL THERMAX PUMPS FEATURE BUILT-IN CHECK VALVE POPPET AND 1-1/4" NPT DISCHARGE.

4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR®**

T series – Thermax™ (thermoplastic)

ordering information – pump end assemblies (PEAs)

HP	Series	GPM	Stages	Pump End Assembly – Internal Poppet		
				Order No.	Length	Weight
1/2	T5	5	13	88823	17-1/8	13
	T8	8	10	88827	15	9
	T12	12	8	88831	13-1/2	7
	T16	16	7	89224	15	7
	T20	20	6	88816	13-1/2	6
3/4	T5	5	19	88824	21-5/8	12
	T8	8	13	88828	17-1/8	10
	T12	12	11	88832	15-5/8	11
	T16	16	10	89225	18	11
	T20	20	9	88834	16-1/2	9
	T25	25	6	88984	15	7
1	T5	5	22	88825	24-3/4	14
	T8	8	16	88829	19-1/2	12
	T12	12	14	88833	15-5/8	12
	T16	16	12	89226	20	12
	T20	20	11	88835	18-1/2	10
	T22	22	9	88800	19	9
	T25	25	8	88985	17-3/4	8
1-1/2	T5	5	29	89038	30	18
	T8	8	22	89040	24-3/4	14
	T12	12	19	88798	21-5/8	13
	T16	16	17	89227	25	13
	T20	20	15	88799	22-1/2	13
	T25	25	11	88986	21-1/2	11
2	T5	5	34	89039	33-3/4	20
	T8	8	28	89041	29-1/4	16
	T12	12	21	89043	24	15
	T16	16	22	89223	30	16
	T20	20	19	89045	27-1/4	15
	T25	25	14	89025	25-1/2	13

NOTE: Includes built-in Flomatic® poppet.

4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR**[®]

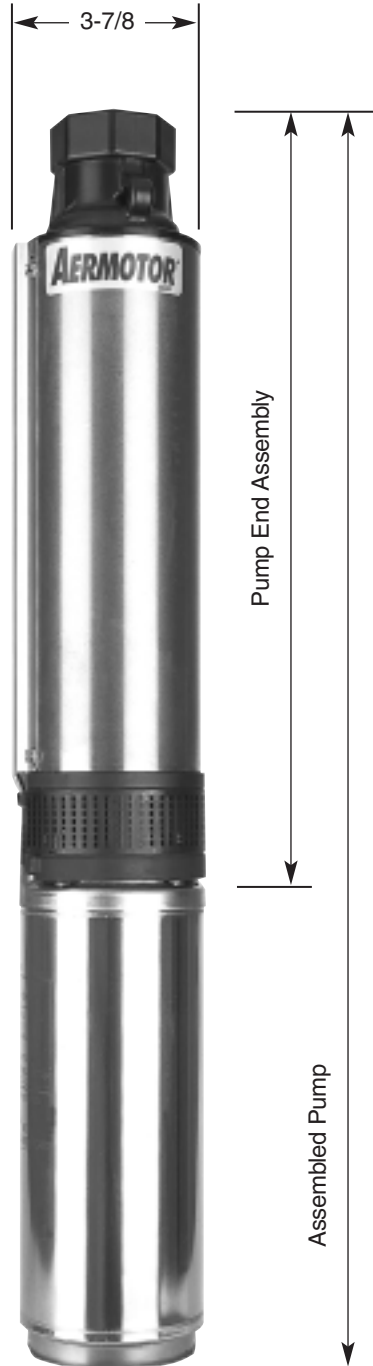
T series – Thermax[™] (thermoplastic)

outline dimensions

Discharge

5 GPM	1-1/4" NPT
8 GPM	1-1/4" NPT
12 GPM	1-1/4" NPT
16 GPM	1-1/4" NPT
20 GPM	1-1/4" NPT
22 GPM	1-1/4" NPT
25 GPM	1-1/4" NPT

For lengths, refer to Ordering Information tables.

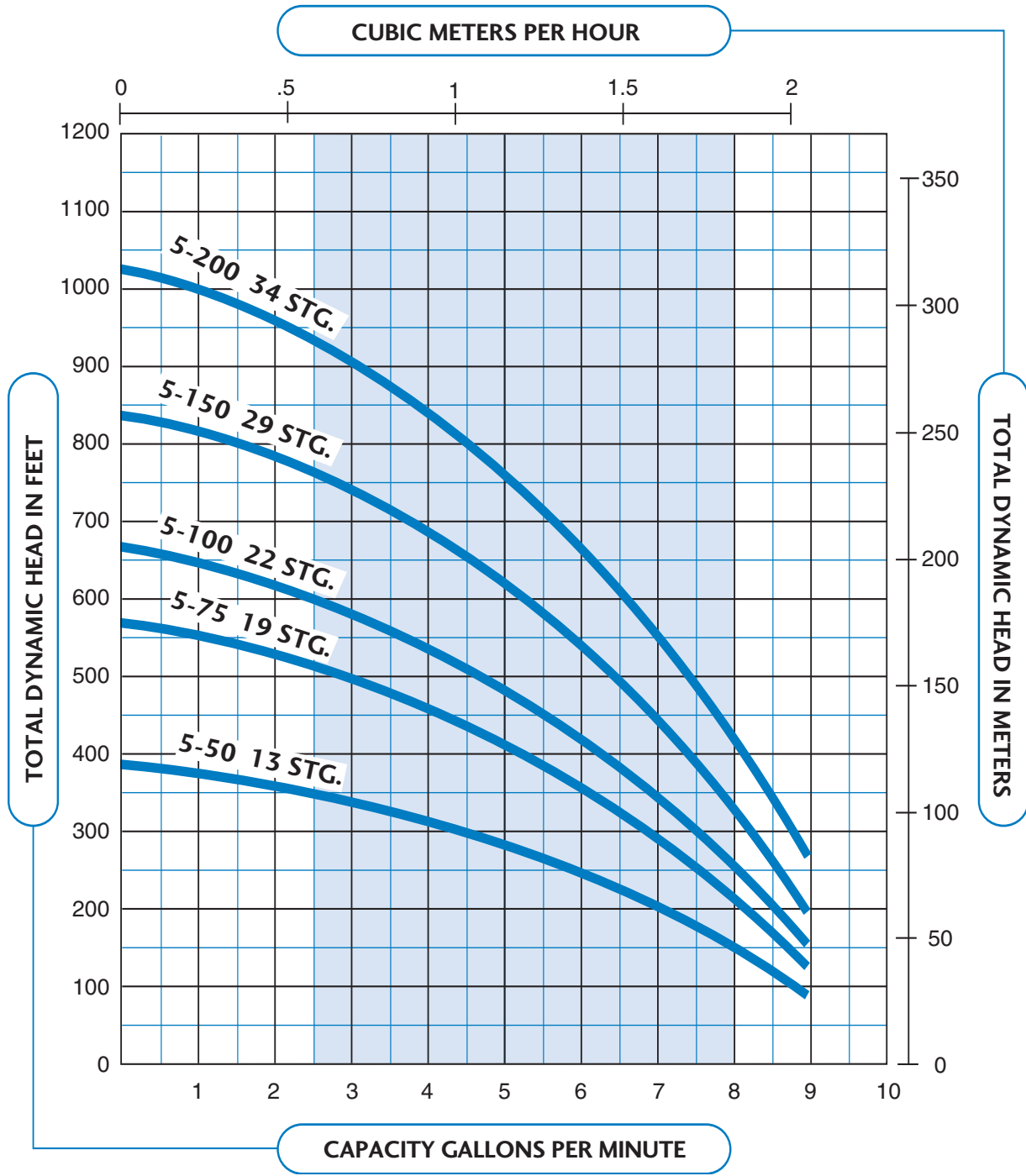


Dimensions (in inches) are for estimating purposes only.

4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR**

T series – Thermax™ (thermoplastic)

5 GPM pump performance

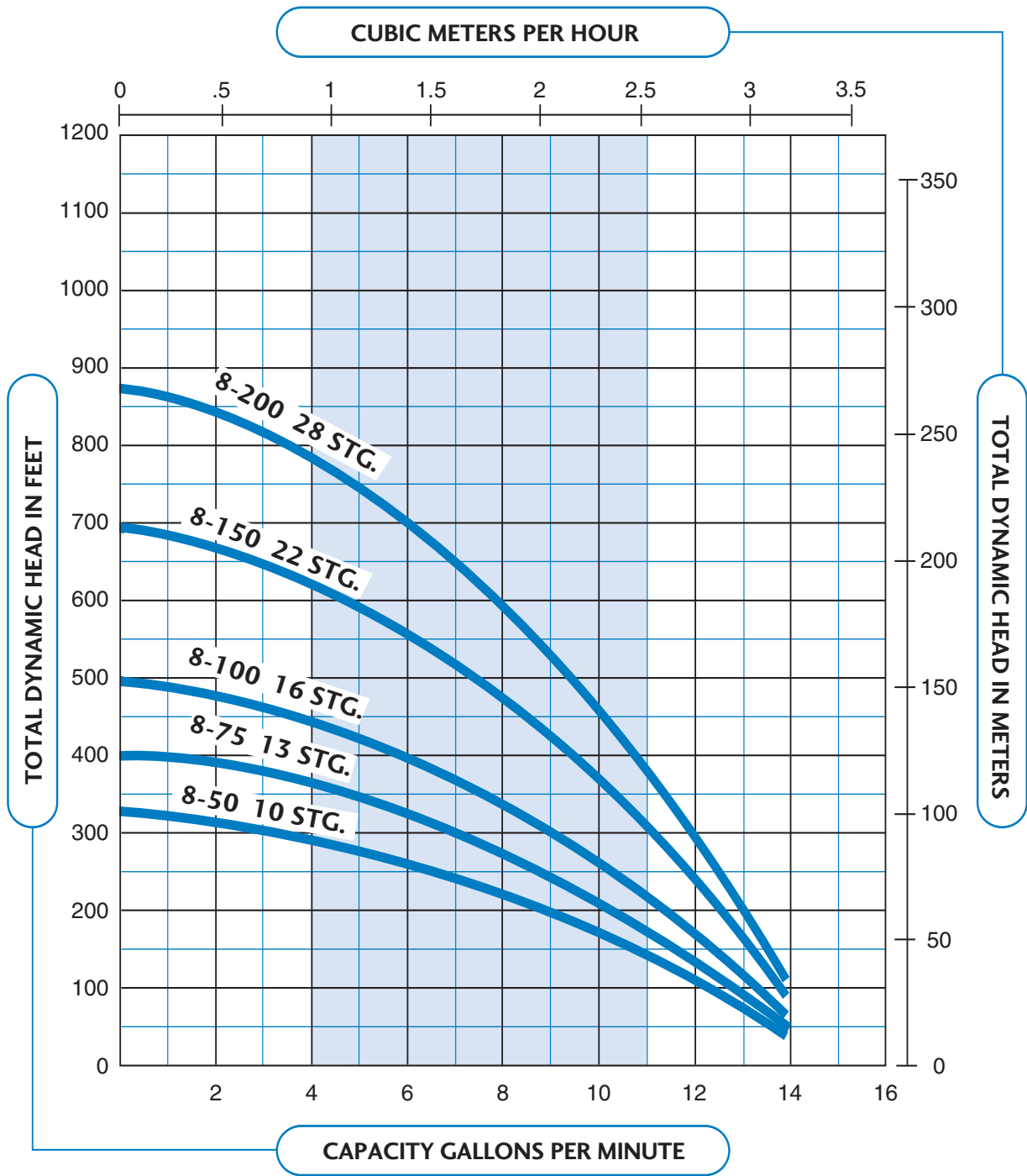


SHADED AREAS INDICATE MOST ECONOMICAL RANGE

4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR**

T series – Thermax™ (thermoplastic)

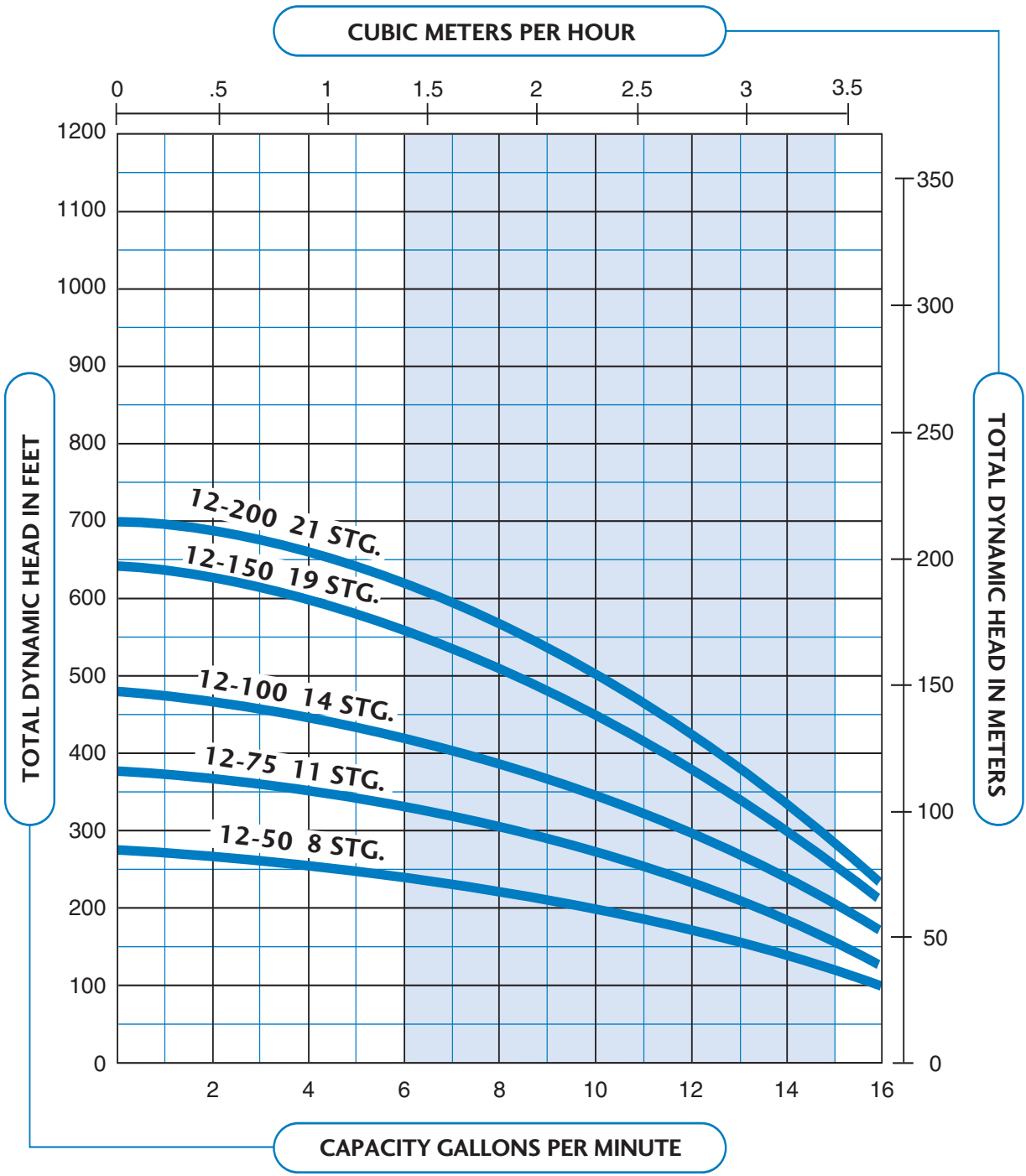
8 GPM pump performance



SHADED AREAS INDICATE MOST ECONOMICAL RANGE

T series – Thermax™ (thermoplastic)

12 GPM pump performance



SHADED AREAS INDICATE MOST ECONOMICAL RANGE

4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR®**

T series – Thermax™ (thermoplastic)

12 GPM pump performance

Pumping capacities in gallons per minute at indicated discharge pressures in pounds per square inch.

1-1/4" NPT DISCHARGE

Model Number	HP	PSI	Depth to Water in Feet																	Shutoff Head					
			20	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	500	FEET	PSI				
12-50 (8-STG)	1/2	20	-	-	15.0	14.0	13.0	11.5	9.5	7.2											265	115			
		30	-	14.9	13.8	12.8	11.6	9.8	7.3																
		40	14.8	13.8	12.6	11.3	9.8	7.6																	
		50	13.5	12.4	11.1	9.7	7.8																		
		60	12.2	10.9	7.7	7.5																			
12-75 (11-STG)	3/4	20	-	-	-	-	-	14.3	13.4	12.3	11.0	9.6	8.1	6.3							365	158			
		30	-	-	-	15.0	14.4	13.5	12.4	11.2	9.8	8.2	6.5												
		40	-	-	14.9	14.3	13.6	12.5	11.2	9.8	8.3	6.6													
		50	-	14.8	14.2	13.5	12.6	11.3	9.9	8.4	6.7														
		60	14.7	14.1	13.3	12.5	11.4	10.1	8.5	6.8															
12-100 (14-STG)	1	20	-	-	-	-	-	-	15.0	14.3	13.5	12.7	11.8	10.8	9.7	7.2					467	202			
		30	-	-	-	-	-	15.0	14.3	13.7	12.8	11.8	10.8	9.8	8.7										
		40	-	-	-	-	-	14.4	13.7	12.8	11.9	11.0	9.8	8.7	7.3										
		50	-	-	-	-	14.5	13.8	12.9	12.0	11.0	10.0	8.8	7.5	6.0										
		60	-	-	14.9	14.3	13.8	13.0	12.1	11.2	10.0	8.9	7.7	6.2											

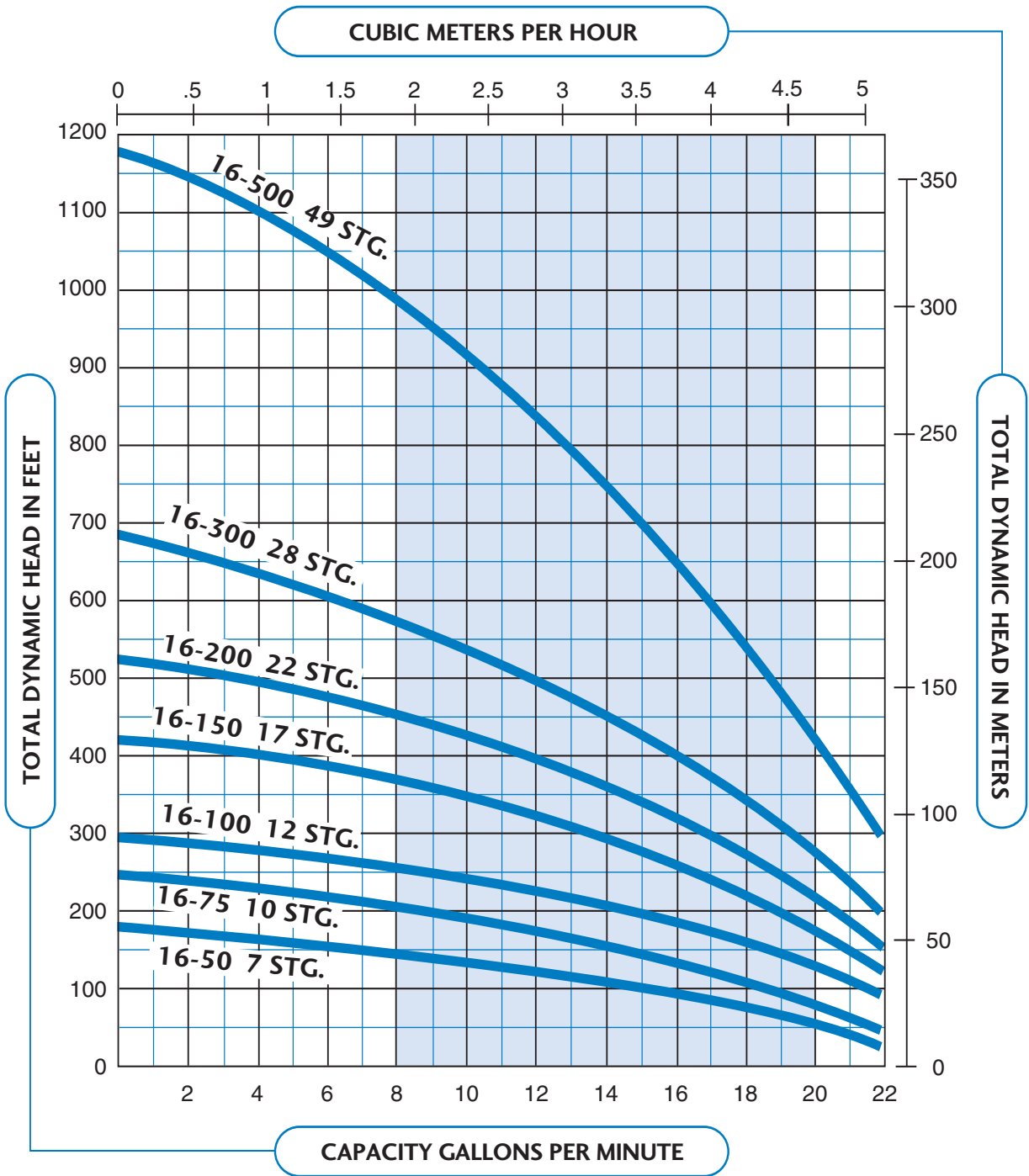
Model Number	HP	PSI	Depth to Water in Feet																	Shutoff Head				
			100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	FEET	PSI			
12-150 (19-STG)	1-1/2	20	-	-	-	-	-	14.7	14.2	13.6	12.8	11.5	10.0	8.3	6.5						632	274		
		30	-	-	-	-	14.8	14.3	13.7	13.0	12.3	10.8	9.3	7.5										
		40	-	-	-	14.8	14.3	13.7	13.0	12.3	11.6	10.1	8.5	6.7										
		50	-	-	14.8	14.3	13.7	13.0	12.3	11.7	10.9	9.3	7.7											
		60	-	14.8	14.3	13.8	13.1	12.4	11.7	11.0	10.2	8.7	6.8											
12-200 (21-STG)	2	20	-	-	-	-	-	-	14.8	14.3	13.8	12.6	11.3	9.8	8.4	6.8					698	302		
		30	-	-	-	-	-	14.8	14.3	13.8	13.3	12.0	10.7	9.2	7.7	6.0								
		40	-	-	-	-	14.8	14.3	13.8	13.3	12.7	11.3	10.0	8.5	7.0									
		50	-	-	-	14.8	14.4	13.9	13.3	12.8	12.1	10.8	9.3	7.8	6.2									
		60	-	-	14.9	14.5	13.9	13.4	12.8	12.2	11.5	10.2	8.7	7.1										

4" submersible pumps

4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR®**

T series – Thermax™ (thermoplastic)

16 GPM pump performance



SHADED AREAS INDICATE MOST ECONOMICAL RANGE

4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR®**

T series – Thermax™ (thermoplastic)

16 GPM pump performance

Pumping capacities in gallons per minute at indicated discharge pressures in pounds per square inch.

1-1/4" NPT DISCHARGE

Model Number	HP	PSI	Depth to Water in Feet															Shutoff Head			
			20	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	500	FEET	PSI
16-50 (7-STG)	1/2	20	21.5	19.0	16.5	14.0	9.0													163	71
		30	20.2	16.5	13.5	8.5															
		40	15.5	12.0	6.0																
		50	10.0																		
		60																			
16-75 (10-STG)	3/4	20	-	-	20.7	19.0	17.7													240	104
		30	-	20.5	19.0	17.5	15.5														
		40	20.0	17.5	16.2	15.5	11.5														
		50	17.5	16.5	15.0	12.0															
		60	16.0	13.0	11.0																
16-100 (12-STG)	1	20	-	-	-	22.5	21.5	19.5	17.0											290	126
		30	-	-	22.5	20.7	19.5	17.0	14.0												
		40	-	21.6	21.0	18.8	17.2	15.0	10.5												
		50	21.5	20.5	19.5	17.0	15.2	11.0													
		60	20.2	18.5	16.3	14.0	11.5														
16-150 (17-STG)	1-1/2	20	-	-	-	-	-	22.5	21.0	19.8	17.8	16.0	14.0	11.8						410	178
		30	-	-	-	-	22.8	21.0	19.8	18.6	16.0	14.5	12.0								
		40	-	-	-	-	23.0	21.2	19.8	18.5	17.5	14.5	11.5								
		50	-	-	-	23.0	21.5	20.0	18.2	16.5	15.5	12.0									
		60	-	-	22.5	21.2	20.0	18.4	17.0	15.5	12.0										
16-200 (22-STG)	2	20	-	-	-	-	-	-	-	-	22.3	21.3	19.8	18.5	17.3					521	226
		30	-	-	-	-	-	-	-	-	22.5	21.5	20.0	18.8	17.5	16.0					
		40	-	-	-	-	-	-	-	22.4	21.3	20.0	19.0	17.5	16.0	14.5					
		50	-	-	-	-	-	22.5	21.5	20.2	19.0	17.5	16.0	14.5							
		60	-	-	-	-	22.5	21.2	20.5	19.5	17.5	16.2	15.0								

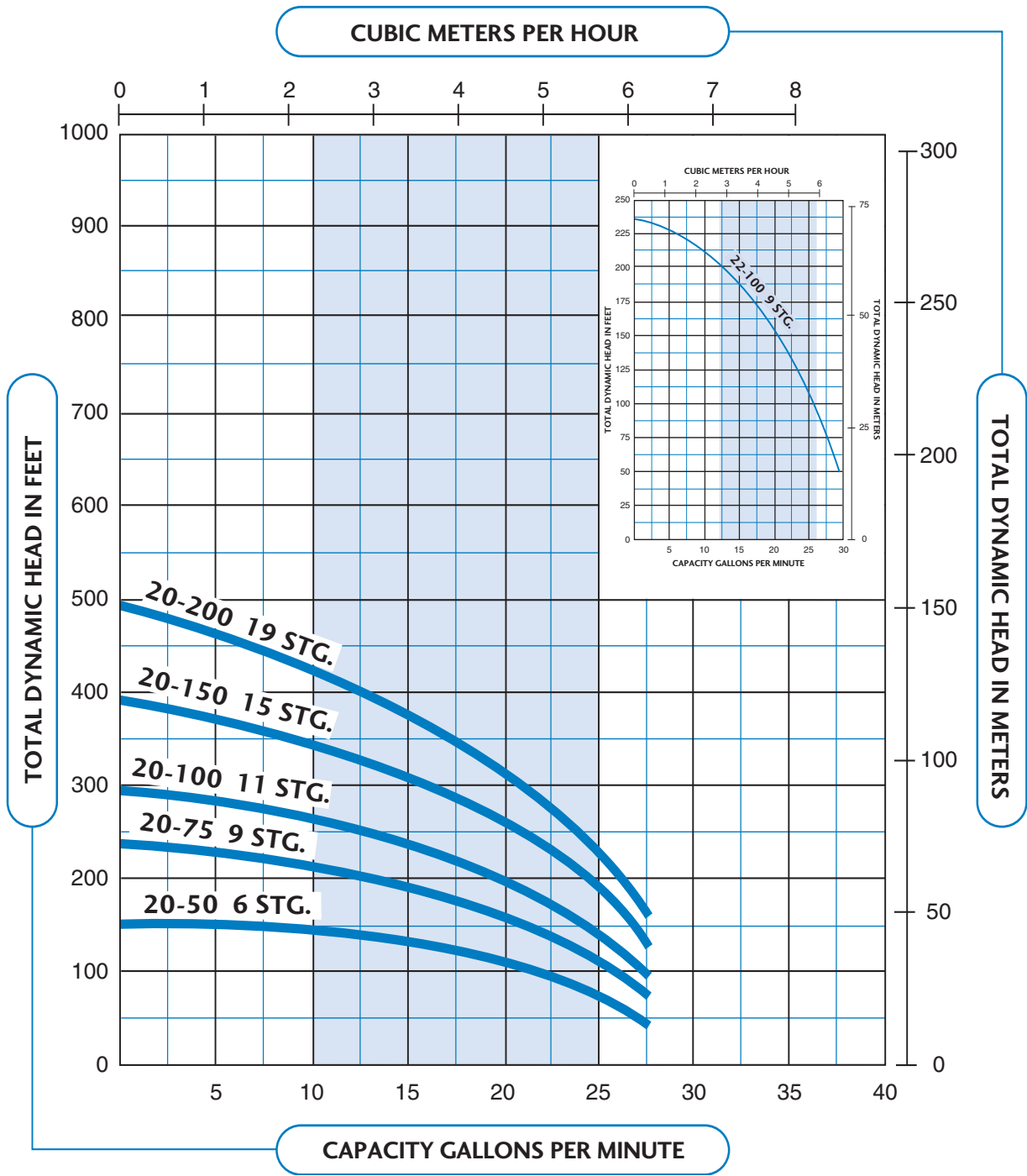
Model Number	HP	PSI	Depth to Water in Feet															Shutoff Head				
			100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	FEET	PSI	
16-300 (28-STG)	3	20	-	-	-	-	-	-	-	21.5	20.8	19.0	16.8	14.4						680	294	
		30	-	-	-	-	-	-	21.6	20.7	19.8	17.7	16.0	13.2								
		40	-	-	-	-	-	21.8	21.0	20.0	19.0	16.9	14.5									
		50	-	-	-	-	21.8	21.0	20.0	19.2	17.8	16.0	13.5									
		60	-	-	-	22.0	21.0	20.2	19.3	17.5	17.2	15.0	11.0									
16-500 (49-STG)	5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	18.8	18.0	17.3	1174	508		
		30	-	-	-	-	-	-	-	-	-	-	-	-	-	19.5	18.5	17.8			16.8	
		40	-	-	-	-	-	-	-	-	-	-	-	-	-	20.0	18.8	18.0			17.4	16.5
		50	-	-	-	-	-	-	-	-	-	-	-	-	20.4	19.5	18.5	17.8			17.0	16.0
		60	-	-	-	-	-	-	-	-	-	-	-	20.8	20.0	19.2	18.2	17.4			16.5	15.5

4" submersible pumps

4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR**

T series – Thermax™ (thermoplastic)

20 and 22 GPM pump performance



4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR®**

T series – Thermax™ (thermoplastic)

20 and 22 GPM pump performance

Pumping capacities in gallons per minute at indicated discharge pressures in pounds per square inch.

1-1/4" NPT DISCHARGE

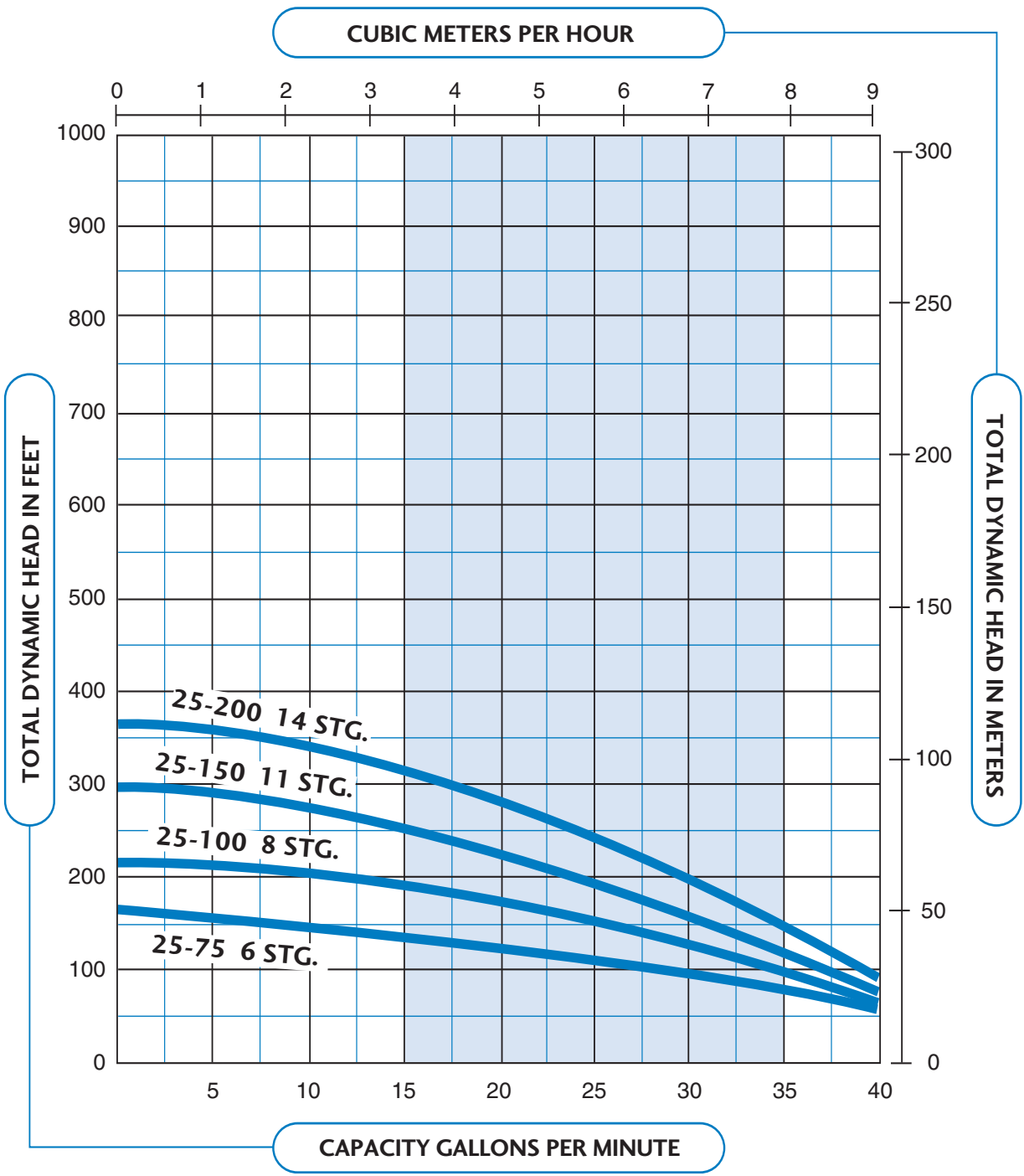
Model Number	HP	PSI	Depth to Water in Feet														Shutoff Head						
			20	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	500	FEET	PSI		
20-50 (6-STG)	1/2	20	25.0	22.5	19.7	15.7															156	67	
		30	20.2	16.5	13.5	8.5																	
		40	18.8	13.2																			
		50	10.8																				
		60																					
20-75 (9-STG)	3/4	20	-	-	-	23.3	21.3	17.0	11.7												234	101	
		30	-	25.0	23.2	21.0	19.7	12.3															
		40	24.8	22.8	20.3	17.3	12.7																
		50	22.5	20.2	16.8	11.8																	
		60	19.7	16.2	11.3																		
20-100 (11-STG)	1	20	-	-	-	-	24.2	22.1	19.7	15.8	10.4										285	123	
		30	-	-	-	23.9	22.2	19.8	16.2	11.0													
		40	-	23.5	21.9	20.0	16.5	11.3															
		50	21.5	20.5	19.5	17.0	15.2	11.0															
		60	23.2	21.5	19.3	16.3	12.2																
22-100 (9-STG)	1	20	-	-	-	25.8	24.1	22.8	18.8	14.2											231	101	
		30	-	25.7	23.7	21.5	19.5	14.7															
		40	25.4	23.5	21.2	18.5	16.5																
		50	23.3	21.0	18.0	14.3																	
		60	20.5	17.7	13.5																		
20-150 (15-STG)	1-1/2	20	-	-	-	-	-	-	24.1	22.5	20.8	18.5	15.7								386	167	
		30	-	-	-	-	-	24.3	22.7	20.9	18.7	16.0	12.3										
		40	-	-	-	-	24.3	22.3	21.0	18.8	16.2	12.5											
		50	-	-	-	24.2	22.8	21.2	19.0	16.3	12.8												
		60	-	-	24.0	22.7	21.3	19.2	16.7	13.2													
20-200 (19-STG)	2	20	-	-	-	-	-	-	24.8	23.5	22.0	20.5	18.9								483	209	
		30	-	-	-	-	-	-	24.9	23.6	22.2	20.7	19.0	17.2									
		40	-	-	-	-	-	25.0	23.7	22.3	20.8	19.1	17.3										
		50	-	-	-	-	25.0	23.8	22.3	20.9	19.2	17.5											
		60	-	-	-	25.0	23.8	22.5	21.2	19.4	17.7	15.7	13.0										

4" submersible pumps

4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR**

T series – Thermax™ (thermoplastic)

25 GPM pump performance



SHADED AREAS INDICATE MOST ECONOMICAL RANGE

4" SUBMERSIBLE PUMPS – 5, 8, 12, 16, 20, 22 AND 25 GPM **AERMOTOR®**

T series – Thermax™ (thermoplastic)

25 GPM pump performance

Pumping capacities in gallons per minute at indicated discharge pressures in pounds per square inch.

1-1/4" NPT DISCHARGE

Model Number	HP	PSI	Depth to Water in Feet																	Shutoff Head	
			20	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	500	FEET	PSI
25-75 (6-STG)	3/4	20	–	29.5	24.0	18.0														154	67
		30	28.8	22.5	16.0																
		40	21.5	14.5																	
		50	13.0																		
		60																			
25-100 (8-STG)	1	20	–	34.0	30.8	27.0	22.5													208	90
		30	33.8	30.0	26.5	21.5															
		40	29.5	25.3	20.5																
		50	24.5	20.0																	
		60	19.0																		
25-150 (11-STG)	1-1/2	20	–	–	–	33.5	31.0	27.3	23.5	19.0										284	123
		30	–	–	33.5	30.3	28.5	23.8	19.8												
		40	35.0	32.5	30.0	27.0	24.0	20.0													
		50	32.3	30.8	27.5	23.0	20.3														
		60	29.0	26.3	23.3	19.8															
25-200 (14-STG)	2	20	–	–	–	–	–	31.2	27.0	24.3	20.5	17.3								360	156
		30	–	–	–	–	30.0	27.5	24.5	21.0	17.5										
		40	–	–	–	–	30.3	27.8	24.8	21.3	17.3										
		50	–	–	–	29.8	27.9	24.9	21.5	17.5											
		60	–	–	29.5	27.3	25.0	21.8	18.3												

4" submersible pumps