

## 4" Submersible Pumps



# J-CLASS

## SandHandler

### High Capacity

35, 45, 60 and 90 gpm Models

#### Features:

- 4 performance ranges - 35, 45, 60 and 90 gpm
- Stainless steel discharge head and motor bracket
- High flow impellers and stages are glass-filled Noryl®\* for maximum efficiency
- Ceramic shaft sleeve and rubber discharge bearing eliminates sand wear
- Intermediate bearing for increased shaft stability
- Floating eye and hub seals for improved performance and efficiency
- Stainless steel hex pump shaft, shell and shaft coupling
- High capacity upthrust assembly for protection during start-up and operation (45, 60 and 90 gpm models)
- Powered by Franklin corrosion-resistant 4" submersible motors
- 2" NPT discharge tapping
- Check valve must be ordered separately. See pg. 48.



5128 Flag Drive Gallows Bay  
Christiansted St. Croix 00824  
340.778.3156

\* Note: Noryl® is a registered trademark of G.E.

# 4" Submersible Pumps

## SandHandler 35-90 GPM

**Stainless Steel Units Ordering Information** (see pgs. 2-3 for model number explanation):

1 - 10 HP 4" PUMP ENDS							
GPM	HP	STAGES	ORDERING INFO.			DIMENSIONS	WT.
			OLD MODEL NO.	NEW MODEL NO.	ORDER NO.	PEA	
35	1	6	1S4356XM	35JS1S4-PE	92525807	15.00	9
	1.5	8	15S4358XM	35JS15S4-PE	92525815	17.50	10
	2	10	2S43510XM	35JS254-PE	92525823	20.00	11
	3	14	3S43514XM	35JS3S4-PE	92525831	25.00	13
	5	22	5S43522XM	35JS5S4-PE	92525849	35.00	17
45	1.5	6	15S4456XM	45JS15S4-PE	92525856	21.00	15
	2	8	2S4458XM	45JS2S4-PE	92525872	25.50	16
	3	11	3S44511XM	45JS3S4-PE	92525898	32.25	19
	5	18	5S44518XM	45JS5S4-PE	92525914	47.75	25
	7.5	26	75S44526XM	45JS7S4-PE	92525922	65.25	33
60	2	6	2S4606XM	60JS2S4-PE	92525930	21.00	15
	3	8	3S4608XM	60JS3S4-PE	92525948	25.50	17
	5	13	5S46013XM	60JS5S4-PE	92525963	36.75	21
	7.5	17	75S46017XM	60JS7S4-PE	92525971	45.25	25
	10	24	10S46024XM	60JS10S4-PE	92525989	61.00	31
90	2	5	2S4905XM	90JS2S4-PE	92526003	22.56	15
	3	7	3S4907XM	90JS3S4-PE	92526011	28.56	17
	5	12	5S49012XM	90JS5S4-PE	92526037	43.56	21
	7.5	19	75S49019XM	90JS7S4-PE	92526045	64.50	27

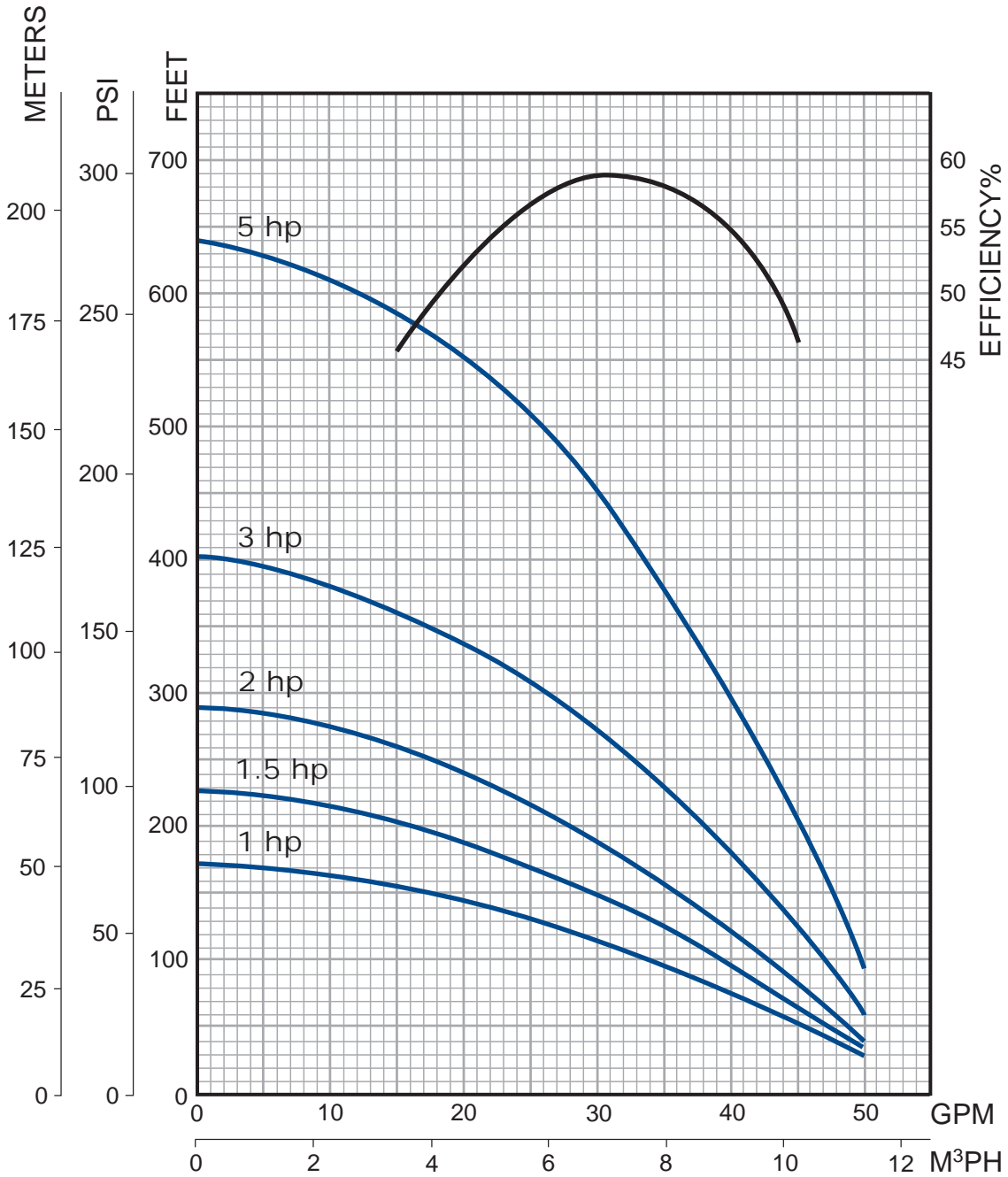
**Note:** All dimensions are in inches. Discharge is 2" NPT. Maximum diameter across cable guard is 3.90" on all models. Weight in pounds.

1 - 1.5 HP SINGLE-PHASE UNITS											
GPM	HP	STAGES	VOLTS	2-WIRE				3-WIRE			
				OLD MODEL NO.	NEW MODEL NO.	ORDER NO.	WT.	OLD MODEL NO.	NEW MODEL NO.	ORDER NO.	WT.
35	1	6	230	T1S4356XM-S2	35JS1S4-2W230	92526128	33	1S4356XM-S2	35JS1S4-3W230	92526052	33
	1.5	8	230	T15S4358XM-S2	35JS15S4-2W230	92526136	41	15S4358XM-S2	35JS15S4-3W230	92526060	39
45	1.5	6	230	T15S4456XM-S2	45JS15S4-2W230	92526144	46	15S4456XM-S2	45JS15S4-3W230	92526086	44

**Note:** All listed above have 2" NPT discharge. Order check valve separately. Pump and motor will be individually cartoned and require assembly.

# 4" Submersible Pumps

## SandHandler High Capacity 35 GPM Performance Curves



**Note:** 1. Performance shown does not include friction loss in the drop pipe.  
2. All performance data is based on rated motor nameplate voltage.

# 4" Submersible Pumps

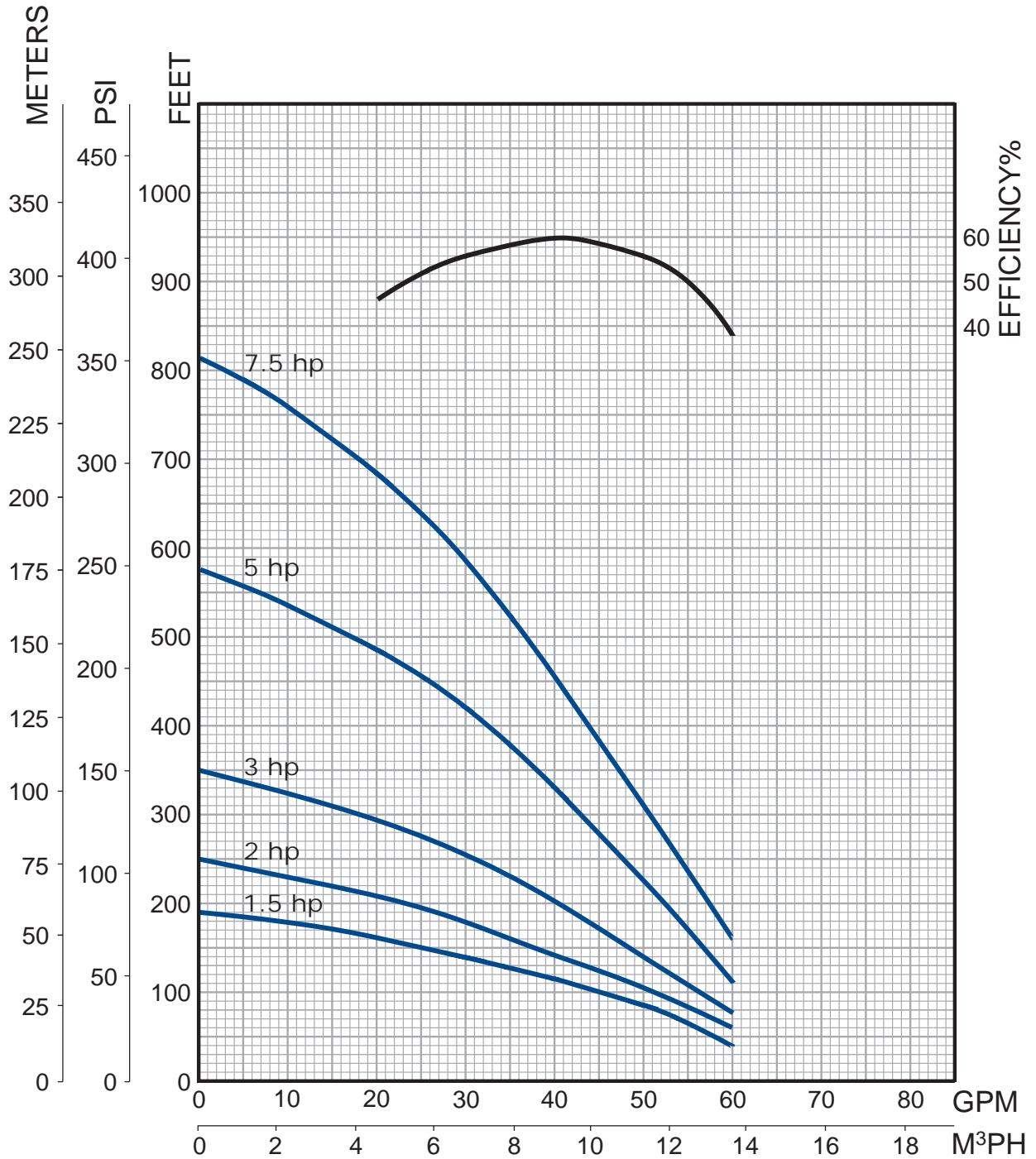
## SandHandler High Capacity 35 GPM Performance Charts

Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET																										
		20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	450	500	550	600			
1	0	-	48	44	39	34	28	21	11																	Shut-off 171 ft		
	20	42	37	32	26	18	7																					
	30	36	31	25																								
	40	30	24	15																								
	50	23	14																									
	60	12																										
	70																											
	80																											
Shut-off psi		65	57	48	39	31	22	13	5																			
1.5	0	-	49	46	43	40	36	32	27	22	16	8														Shut-off 226 ft		
	20	45	42	39	35	31	26	20	14																			
	30	41	38	34	30	25	20	13																				
	40	37	33	29	24	18	11																					
	50	33	29	24	18	10																						
	60	28	23	17	9																							
	70	22	16	7																								
	80	14	3																									
Shut-off psi		89	81	72	63	54	46	37	28	20	11	2																
2	0	-	50	48	45	43	40	37	34	31	28	24	19	14	7											Shut-off 288 ft		
	20	47	45	42	39	36	33	30	27	22	18	13	3															
	30	44	41	39	36	33	30	26	22	17	12																	
	40	41	38	35	32	29	25	21	16	10																		
	50	38	35	32	29	25	20	16	9																			
	60	35	31	28	24	20	15	8																				
	70	31	27	23	19	14	6																					
	80	27	23	18	13	4																						
Shut-off psi		116	107	99	90	81	73	64	55	47	38	29	21	12	3													
3	0	-	-	50	48	47	46	44	42	39	37	35	33	31	28	26	23	19	15	10						Shut-off 401 ft		
	20	49	48	47	45	43	41	39	37	35	33	30	28	25	22	18	14	8										
	30	48	46	45	43	41	39	37	35	32	30	27	25	21	17	13	7											
	40	46	44	42	40	38	36	34	32	29	27	24	20	17	12	5												
	50	44	42	40	38	36	34	31	29	26	24	20	16	12	4													
	60	42	40	38	36	33	31	29	26	23	19	15	11	2														
	70	39	37	35	33	31	28	26	22	19	15	10																
	80	37	35	33	30	28	25	22	18	14	9																	
Shut-off psi		165	156	148	139	130	122	113	104	96	87	78	70	61	52	44	35	26	18	9								
5	0	-	-	-	50	49	48	47	46	45	44	43	42	40	39	38	37	36	34	33	30	25	20	12		Shut-off 638 ft		
	20	-	-	49	48	47	46	45	44	42	41	40	39	38	36	35	34	33	32	30	26	20	13					
	30	-	49	48	47	46	45	44	43	42	41	40	39	38	36	35	34	33	31	30	28	23	17	8				
	40	49	48	47	46	45	44	43	42	41	40	39	37	36	35	34	32	31	30	28	26	21	13					
	50	48	47	46	45	44	43	42	41	40	38	37	36	35	33	32	31	30	28	26	24	18	9					
	60	47	46	45	44	43	42	41	39	38	37	36	34	33	32	31	29	28	26	24	21	14						
	70	46	45	44	43	42	40	39	38	37	35	34	33	32	31	29	27	25	23	21	18	10						
	80	45	44	42	41	40	39	38	36	35	34	33	32	30	29	27	25	23	20	18	15	3						
Shut-off psi		268	259	251	242	233	225	216	207	199	190	181	173	164	155	147	138	129	121	12	103	82	60	38	17			

# 4" Submersible Pumps

## SandHandler High Capacity 45 GPM Performance Curves



- Note:**
1. Performance shown does not include friction loss in the drop pipe.
  2. All performance data is based on rated motor nameplate voltage.
  3. Performances for former XP models are the same as 45 gpm models.

# 4" Submersible Pumps

## SandHandler High Capacity 45 GPM Performance Charts

Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET																		
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																		
		20	40	60	80	100	120	140	160	180	200	240	260	280	300	320	340	360	380	400
1.5	0	68	62	57	52	46	39	31												
	10	62	56	51	45	38	29	19												
	20	55	50	44	36	28	17	5												
	30	49	42	35	26	16	3													
	40	41	34	25	14															
	50	33	23	12																
	60	22	10																	
Shut-off psi		74	65	56	48	39	30	22	13	4										

Shut-off 190 ft

2	0	71	65	60	56	52	48	44	40	35	29									
	10	64	59	55	51	48	44	40	34	28	20									
	20	58	54	51	47	43	39	33	27	19	9									
	30	54	50	47	43	38	32	26	17	7										
	40	50	46	42	37	32	24	16	5											
	50	45	41	36	31	23	14	3												
	60	41	36	29	22	13	1.5													
Shut-off psi		104	95	87	78	69	61	52	43	35	26	9								

Shut-off 260 ft

3	0	72	68	65	62	59	56	53	50	47	43	36	31	26	20					
	10	68	64	61	58	55	52	49	46	43	39	30	25	19	12					
	20	64	61	58	55	52	49	46	42	38	34	24								
	30	60	57	54	52	48	45	42	38	34	29	17								
	40	57	54	51	48	45	41	37	33	28	22	16								
	50	54	51	47	44	41	37	32	27	21	15									
	60	50	47	44	40	36	31	26	20	14										
	70	46	43	39	35	31	25	19	13											
	80	43	39	35	30	24	18	12												
	90	38	34	29	24	18	11													
100	33	28	23	16	9															
Shut-off psi		143	134	126	117	108	100	91	82	74	65	48	39	30	22	13	4			

Shut-off 350 ft

5	0	-	-	69	66	63	61	59	57	55	53	50	48	46	44	42	40	38	36	33
	20	68	65	63	60	57	56	54	52	51	49	46	44	42	40	38	35	32	29	26
	40	62	60	57	56	54	52	50	48	48	47	45	39	37	34	32	28	25	21	
	60	57	55	51	51	50	48	46	44	43	41	36	33	31	27	24	20	16		
	80	53	51	49	47	46	44	42	40	38	35	30	26	23	19					
	100	49	47	45	43	41	39	37	34	32	29	25	18							
	120	45	43	41	39	36	34	31	28	24	20	16								
	140	40	38	35	33	30	27	23	19											
	160	35	32	29	26	22	18													
	170	31	28	25	21	17														
	Shut-off psi		236	227	219	210	201	193	184	175	167	158	141	132	123	115	106	97	89	80

Shut-off 575 ft

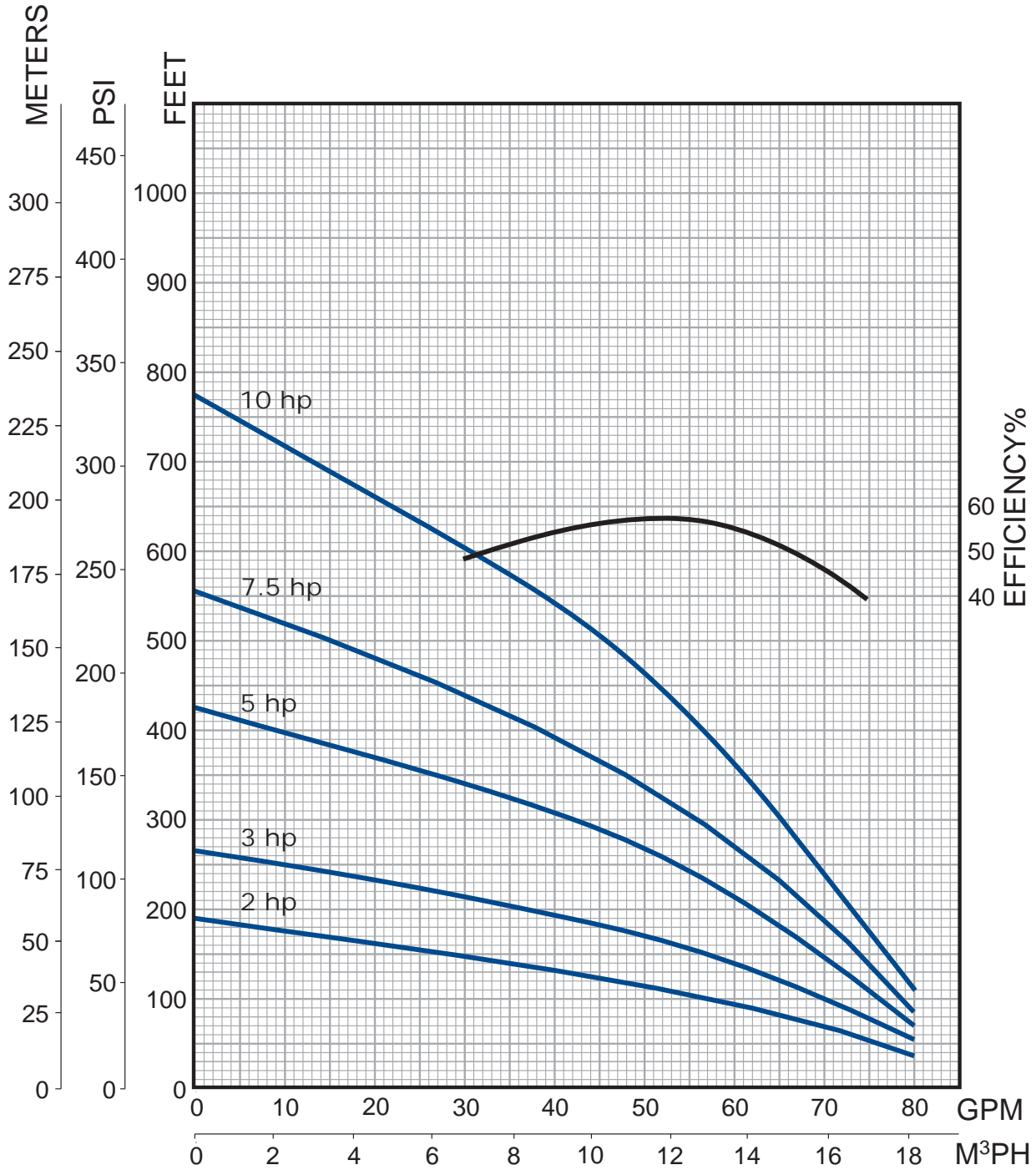
HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET																		
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																		
		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
7.5	0	-	-	-	57	54	50	47	44	40	36	32	28	24	18	11	3			
	20	-	-	57	54	50	47	44	40	36	32	28	24	18	11	3				
	40	-	58	54	51	48	45	41	37	33	29	24	18	12	5					
	60	58	55	52	48	45	41	37	33	29	25	19	12	5						
	80	55	52	48	45	41	37	33	29	25	19	12	5							
	100	52	48	45	42	38	34	30	25	20	14	6								
	120	49	45	42	38	34	30	25	21	14	7									
	140	45	42	38	35	30	26	21	15	7										
	160	42	39	35	31	26	21	15	8											
	180	39	35	31	27	22	16	8												
	200	35	31	27	22	16	9													
	220	32	27	22	17	10														
	Shut-off psi		331	310	288	266	245	223	201	180	158	136	115	93	71	50	28	6		

Shut-off 815 ft



# 4" Submersible Pumps

## SandHandler High Capacity 60 GPM Performance Curves



- Note:**
1. Performance shown does not include friction loss in the drop pipe.
  2. All performance data is based on rated motor nameplate voltage.
  3. Performances for former XP models are the same as 45 gpm models.

# 4" Submersible Pumps

## SandHandler High Capacity 60 GPM Performance Charts

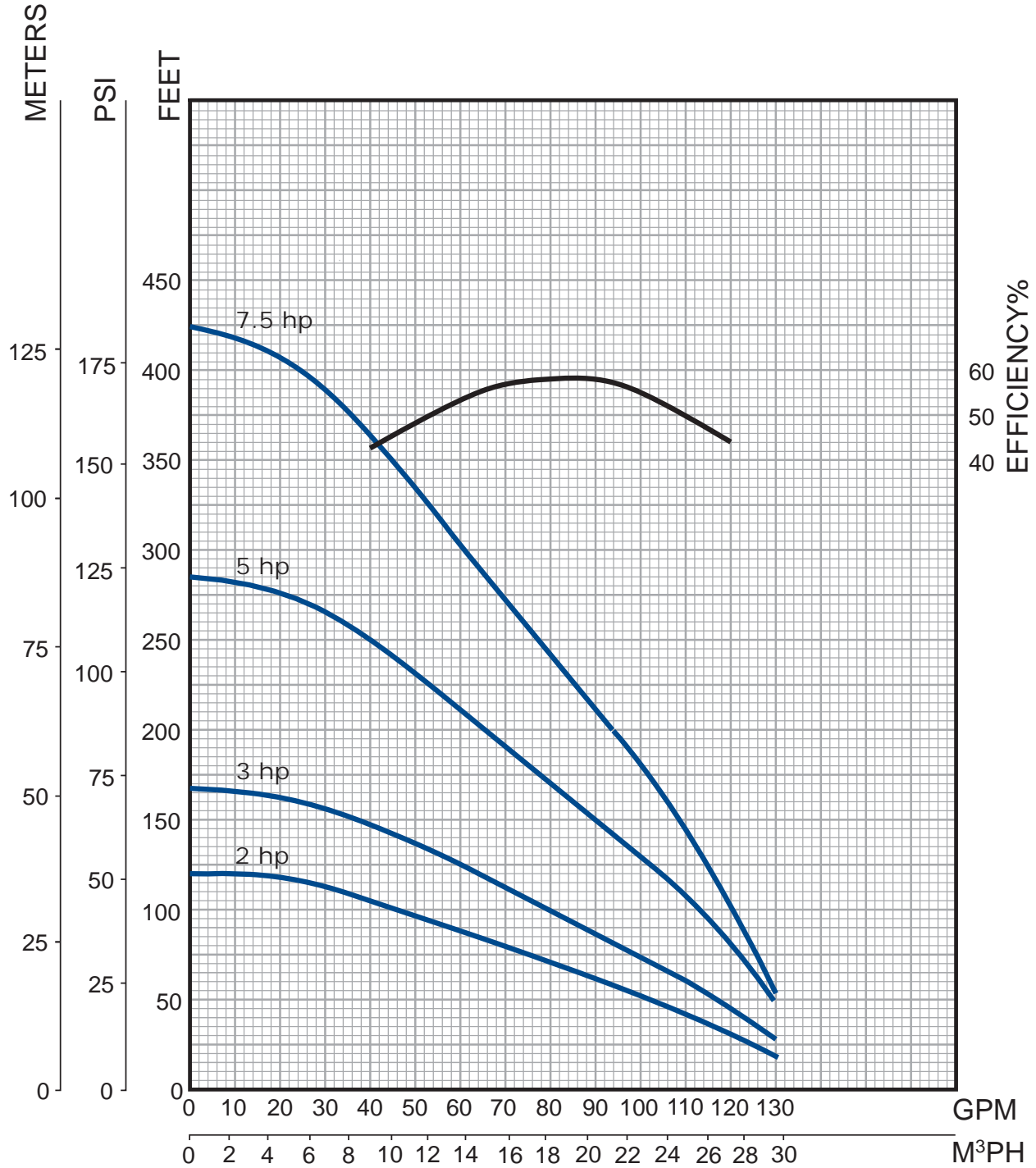
Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET																	
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																	
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
2	0	87	84	81	78	75	72	69	66	62	58	54	49						
	10	80	77	74	71	68	65	61	57	52	47	42	36						
	20	74	70	67	64	60	56	51	46	40	34	26	18						
	30	66	63	59	54	49	44	38	31	24	16								
	40	57	53	48	42	36	29	21	13										
	50	46	40	34	27	19													
	60	32	24	16															
Shut-off psi		74	69	65	61	56	52	48	43	39	30	26	22	17	13	9	4		
3	0	90	87	85	83	81	79	76	74	72	70	67	65	62	59	56	53	49	
	10	84	82	80	78	76	74	71	69	67	64	61	58	55	51	47	43	38	
	20	79	77	75	73	71	68	66	63	60	57	54	50	46	42	37	32	26	
	30	74	72	70	68	65	59	56	53	49	45	40	35	30	24				
	40	69	67	64	62	58	55	52	48	43	39	34	28	22					
	50	63	61	58	54	50	46	42	37	32	26								
	60	56	63	49	45	41	36	30	24										
Shut-off psi		108	104	100	95	91	87	82	78	74	69	65	61	56	52	48	43	39	
HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	
5	0	85	85	80	80	75	75	70	70	65	65	60	55	50	45	45	35	30	
	10	85	80	80	75	75	70	70	65	60	60	55	50	45	40	35	30	25	
	20	80	80	75	75	70	70	65	60	60	55	50	45	40	35	30	25	15	
	30	80	75	75	70	65	65	60	60	55	50	45	40	35	30	20	15	5	
	40	75	70	70	65	65	60	55	55	50	45	40	35	30	25	10	5		
	50	70	70	65	65	60	55	50	45	40	35	25	25	20	10	5			
	60	70	65	65	60	55	50	45	40	30	25	20	10	5					
	70	65	60	60	55	50	45	40	35	30	25	15	10						
	80	60	60	55	50	45	40	35	30	25	15	10							
	90	60	55	50	45	40	35	30	20	15	5								
100	55	50	45	40	35	30	20	15	5										
Shut-off psi		173	165	156	147	139	130	121	113	104	95	87	78	69	61	52	43	35	
HP	PSI	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	
7.5	0	-	78	73	68	63	56	49	40	28	15	2							
	20	78	73	68	63	56	49	40	28	15	2								
	40	75	69	64	58	50	41	30	18	3									
	60	70	64	58	50	42	31	18	4										
	80	65	59	51	43	32	19	5											
	100	59	52	43	32	20	6												
	120	52	44	33	21	8													
	140	44	34	21	8														
160	35	22	9																
Shut-off psi		221	199	177	156	134	113	91	69	48	26	4							
10	0	-	-	75	72	69	65	61	56	51	45	38	30	21	13	4			
	20	-	75	72	69	65	61	56	51	46	38	31	22	14	5				
	40	75	72	69	65	61	56	51	45	39	31	22	14	5					
	60	73	69	66	62	57	52	47	40	32	24	15	6						
	80	70	66	62	57	52	47	40	32	24	15	6							
	100	66	62	58	53	48	41	34	25	16	7								
	120	63	58	53	48	41	34	25	16	8									
	140	58	53	48	42	34	26	17	8										
160	54	49	43	35	27	18	9												
Shut-off psi		312	290	269	247	225	204	182	161	139	117	96	74	52	31	9			



# 4" Submersible Pumps

## SandHandler High Capacity 90 GPM Performance Curves



Note: 1. Performance shown does not include friction loss in the drop pipe.  
 2. All performance data is based on rated motor nameplate voltage.

# 4" Submersible Pumps

## SandHandler High Capacity 90 GPM Performance Charts

Capacities in U.S. Gallons per Minute:

HP	PSI	DEPTH TO PUMPING WATER LEVEL, OR LIFT, IN FEET																	
		SHADED AREAS INDICATE MOST EFFICIENT PERFORMANCE																	
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
2	0	130	120	110	100	90	80	70	60	45	30	10							
	10	105	100	90	80	70	55	40	20										
	20	85	75	65	50	35	15												
	30	60	45	30	10														
	40	25	5																
Shut-off psi		43	39	35	30	26	22	17	13	9	4								

Shut-off 120 ft

3	0	140	130	120	115	105	100	95	90	80	75	65	55	45	30	15			
	10	120	110	105	100	95	85	80	70	65	55	40	25	10					
	20	105	95	90	85	80	70	60	50	35	20	54							
	30	90	80	75	65	55	45	35	15										
	40	75	65	55	40	30	10												
	50	50	40	25	5														
60	20																		
Shut-off psi		64	59	55	51	46	42	38	33	29	25	20	16	12	7	3			

Shut-off 167 ft

HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	
5	0	145	135	125	120	110	105	95	85	80	70	55	45	30	10				
	10	135	125	115	110	100	95	85	75	65	55	40	25	10					
	20	125	115	110	100	95	85	75	65	55	40	25	5						
	30	115	105	100	90	85	75	65	50	40	20	5							
	40	105	100	90	80	70	60	50	35	20									
	50	95	90	80	70	60	45	35	15										
	60	90	80	70	60	45	30	15											
	70	80	70	55	45	30	10												
	80	65	55	40	25	5													
	90	50	40	25	5														
100	35	20																	
Shut-off psi		115	106	97	89	80	71	63	54	45	37	28	19	11	2				

Shut-off 285 ft

HP	PSI	20	50	80	110	140	170	200	230	260	290	320	350	380	410	440	470	500	
7.5	0	140	135	125	115	110	100	95	85	75	65	55	45	30	15				
	20	130	120	110	105	95	90	80	70	60	50	35	20	5					
	30	120	115	105	100	90	85	75	65	55	40	25	10						
	40	115	110	100	95	85	75	65	55	45	30	10							
	50	110	105	95	85	80	70	60	45	30	15								
	60	105	95	90	80	70	60	50	35	20	5								
	80	95	85	75	65	55	40	25	10										
	100	80	70	60	50	35	20												
	120	65	55	40	25	10													
	140	45	35	20															
160	25	10																	
Shut-off psi		175	162	149	136	123	110	97	84	71	58	45	32	19	6				

Shut-off 425 ft