

# BOMBAS SERIE 4ST



# 4ST(M)





Bombas sumergibles para pozos profundos de 4 "o grandes, fabricadas con materiales resistentes a la corrosión y abrasión, acopladas al motor sumergible NEMA standar.

Diseñado para caudales de hasta 28m3 / h y cabezal hasta 325 metros.

#### Características de construcción

#### Bomba

- Construcción resistente a la abrasión. La placa de desgaste delantera, combinada con los impulsores flotantes, garantiza una óptima resistencia a la abrasión.
- Los soportes superior e inferior están hechos de acero inoxidable de fundición de precisión, lo que garantiza resistencia a la corrosión, durabilidad y un acoplamiento robusto al motor.
- El eje hexagonal de la bomba garantiza una conducción efectiva del impulsor.
- Una válvula de retención de acero inoxidable se instala en la descarga para evitar cualquier flujo de agua hacia atrás y aliviar cualquier martillo de agua a la bomba, protegiendo así los impulsores y los difusores.
- Las bombas de la serie 4ST pueden acoplarse con motores 4SD (M).

## **Aplicaciones**

- Suministro de agua subterránea a obras sanitarias
- Riego en horticultura y agricultura.
- Aumento de presión
- Aplicaciones industriales
- Tratamiento de aguas

## **Especificaciones**

- Capacidad: hasta 24m3 / h, a 2850 rpm, 50Hz hasta 28m3 / h, a 3450 rpm, 60 Hz
- Cabeza: hasta 325 metros, a 2850 rpm, 50 Hz hasta 300 metros, a 3450 rpm, 60 Hz
- Potencia: 0.37KW (1 / 2HP) a 7.5kW (10HP)
- Alimentación: monofásica 230V ±10%, 50Hz 220V

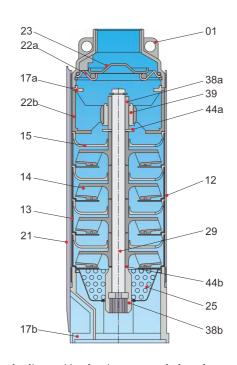
Trifásico 230V +10% 50Hz 220V +10%, 60Hz

- Temperatura del agua: hasta 35°C
- Los sólidos en el agua son menos de 0.02% (proporción pesada)
- PH de agua: 6.5-8.0
- Profundidad máxima de inmersión: 150 metros.

# 4ST(M)



#### Materiales de construcción

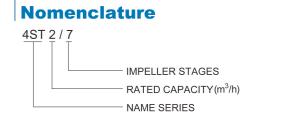


la dimensión	de ajuste	entre	la bom	ba y
el motor se c	umple co	n la no	rma N	EM.

Item No.	Pieza	Material
1	Cabezal de descarga	AISI304SS
12	Carcasa exterior	AISI304SS
13	Taza de succión	AISI304SS
14	Impulsor	PPO
15	Difusor	PC
17a	Anillo de acoplamiento	PC
17b	Adaptador de motor	AISI304SS
21	Tubo de cable	AISI304SS
22a	Asiento de válvula	AISI304SS
22b	Asiento ensamblado	PC
23	Válvula	AISI304SS
25	Colador	AISI304SS
29	Eje	AISI304SS
38a	Camisa del eje	AISI304SS
38b	Acoplamiento spline	AISI304SS
39	Rodamiento de cojinete	PU
44a	Lavadora	AISI304SS
44b	Arandela de ajuste	AISI304SS

## **Special features on request**

- Other voltages
- The length of cable is optional



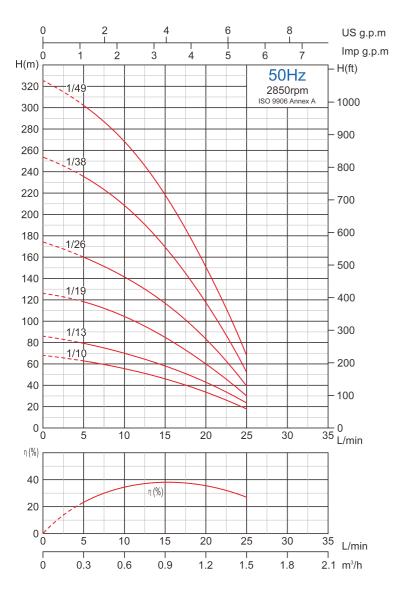
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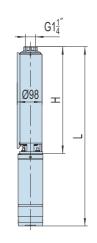
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#### **Performance curves**



## **Dimensions & weights**



Single Phase	Н	L	N.W kg			
Sillyle Filase	(mm)	(mm)	Н	L		
4STM1/10	332	665	3.2	10.7		
4STM1/13	382	715	3.7	11.2		
4STM1/19	481	834	4.7	13.0		
4STM1/26	596	974	5.8	14.8		
4STM1/38	832	1274	8.1	19.1		
4STM1/49	1052	1524	10.5	22.9		

Three Phase	Н	L	N.W kg			
Tillee Filase	(mm)	(mm)	Н	L		
4ST1/10	332	665	3.2	9.7		
4ST1/13	382	715	3.7	10.2		
4ST1/19	481	814	4.7	12.0		
4ST1/26	596	959	5.8	14.5		
4ST1/38	832	1239	8.1	17.8		
4ST1/49	1052	1494	10.5	21.6		

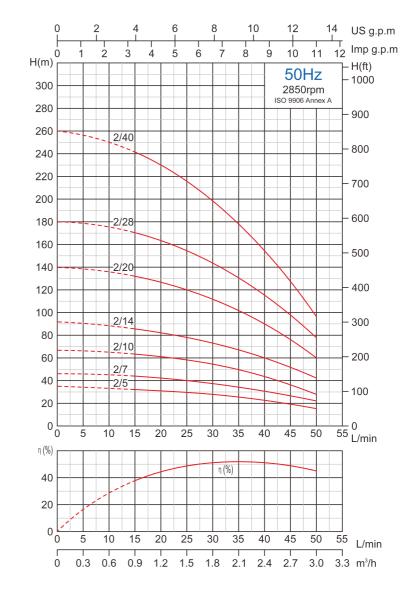
#### **Performance table**

Model(50	)Hz)	Мс	otor				Capacity			
Single Phase	Three	Po	wer	l/min	0	5	10	15	20	25
Offigie i flase	Phase	kW	HP	m³/h	0	0.3	0.6	0.9	1.2	1.5
4STM1/10	4ST1/10	0.37	0.5		67	63	55	46	33	18
4STM1/13	4ST1/13	0.37	0.5		86	78	70	56	42	23
4STM1/19	4ST1/19	0.55	0.75	Head	126	110	105	86	60	30
4STM1/26	4ST1/26	0.75	1	(m)	173	160	141	117	81	39
4STM1/38	4ST1/38	1.1	1.5		253	234	208	169	117	52
4STM1/49	4ST1/49	1.5	2		325	302	268	219	151	68

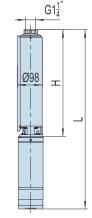
# **4ST 2**



#### **Performance curves**



## **Dimensions & weights**



Single Phase	Н	L	N.W kg			
Siligle Filase	(mm)	(mm)	Н	L		
4STM2/5	257	590	2.4	9.9		
4STM2/7	293	626	2.7	10.2		
4STM2/10	347	700	3.3	11.6		
4STM2/14	419	797	4.0	13.0		
4STM2/20	527	969	5.0	16.0		
4STM2/28	671	1143	6.4	18.8		
4STM2/40	963	1480	9.4	24.2		

Three Phase	Н	L	N.V	/ kg
Three Phase	(mm)	(mm)	Н	L
4ST2/5	257	590	2.4	8.9
4ST2/7	293	626	2.7	9.2
4ST2/10	347	680	3.3	10.6
4ST2/14	419	782	4.0	12.7
4ST2/20	527	934	5.0	14.7
4ST2/28	671	1113	6.4	17.5
4ST2/40	963	1465	9.4	23.2

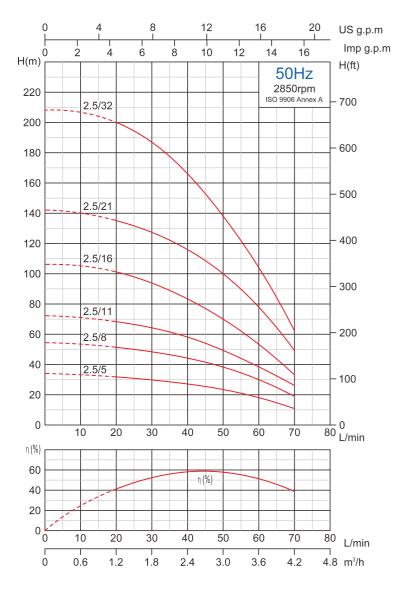
#### **Performance table**

Model(50	Model(50Hz) Motor		otor	Capacity									
Single Phase	Three	Po	wer	l/min	0	15	20	25	30	35	40	45	50
Offigie i flase	Phase	kW	HP	m³/h	0	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
4STM2/5	4ST2/5	0.37	0.5		34	32	31	29	27	25	23	19	16
4STM2/7	4ST2/7	0.37	0.5		46	43	42	39	36	33	29	26	22
4STM2/10	4ST2/10	0.55	0.75		67	64	61	58	54	49	43	36	28
4STM2/14	4ST2/14	0.75	1	Head (m)	92	86	83	79	74	67	60	52	42
4STM2/20	4ST2/20	1.1	1.5		139	131	127	120	111	101	90	75	60
4STM2/28	4ST2/28	1.5	2		180	170	164	154	144	131	115	97	78
4STM2/40	4ST2/40	2.2	3		260	243	230	215	198	178	154	137	96

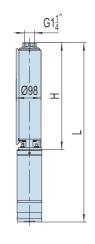
# **4ST2.5**



#### **Performance curves**



## **Dimensions & weights**



Single Phase	Н	L	N.W kg			
Siligle Filase	(mm)	(mm)	Н	L		
4STM2.5/5	265	598	2.4	9.9		
4STM2.5/8	323	676	2.9	11.2		
4STM2.5/11	382	760	3.4	12.4		
4STM2.5/16	479	921	4.3	15.3		
4STM2.5/21	577	1049	5.2	17.6		
4STM2.5/32	829	1346	7.4	22.2		

Thurs Dhass	Н	L	N.W kg			
Three Phase	(mm)	(mm)	Н	L		
4ST2.5/5	265	598	2.4	8.9		
4ST2.5/8	323	656	2.9	10.2		
4ST2.5/11	382	745	3.4	12.1		
4ST2.5/16	479	886	4.3	14.0		
4ST2.5/21	577	1019	5.2	16.3		
4ST2.5/32	829	1331	7.4	21.2		

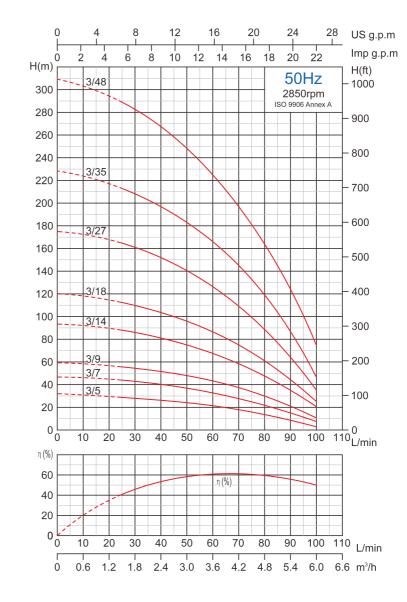
#### **Performance table**

Model(50	OHz)	Mc	otor					Ca	pacity					
Single Phase	Three	Po	wer	l/min	0	20	25	30	35	40	45	50	60	70
Offigie i flase	Phase	kW	HP	m³/h	0	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2
4STM2.5/5	4ST2.5/5	0.37	0.5		34	32	31	30	29	27	25	23	18	11
4STM2.5/8	4ST2.5/8	0.55	0.75		54	51	50	49	46	43	41	38	30	19
4STM2.5/11	4ST2.5/11	0.75	1	Head	72	68	66	64	61	58	54	49	38	26
4STM2.5/16	4ST2.5/16	1.1	1.5	(m)	106	101	98	95	89	83	77	70	54	33
4STM2.5/21	4ST2.5/21	1.5	2		142	135	132	127	122	115	106	100	79	49
4STM2.5/32	4ST2.5/32	2.2	3		208	200	194	187	177	165	152	138	104	62

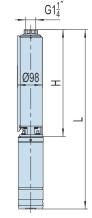
# **4ST 3**



#### **Performance curves**



## **Dimensions & weights**



Single Phase	Н	L	N.W kg			
Single I hase	nase (mm) (mm)		Н	L		
4STM3/5	275	608	2.5	10.0		
4STM3/7	318	671	2.8	11.1		
4STM3/9	361	739	3.2	12.2		
4STM3/14	468	910	4.2	15.2		
4STM3/18	554	1026	4.9	17.3		
4STM3/27	786	1303	6.9	21.7		

Three Phase	Н	L	N.V	/ kg
Tillee Filase	(mm) (mm)		Н	L
4ST3/5	275	608	2.5	9.0
4ST3/7	318	651	2.8	10.1
4ST3/9	361	724	3.2	11.9
4ST3/14	468	875	4.2	13.9
4ST3/18	554	996	4.9	16.0
4ST3/27	786	1288	6.9	20.7
4ST3/35	996	1548	9.1	25.7
4ST3/48	1275	1877	11.5	30.5

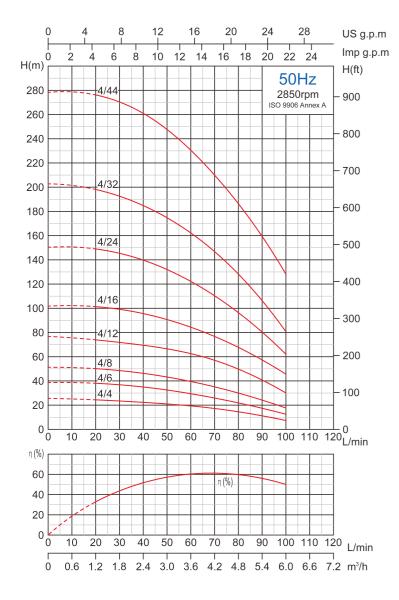
#### **Performance table**

Model(50	OHz)	Мс	otor						Сар	acity						
Single Phase	Three	Po	wer	l/min	0	25	30	35	40	45	50	60	70	80	90	100
Siligle Filase	Phase	kW	HP	m³/h	0	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0
4STM3/5	4ST3/5	0.37	0.5		33	29	28	27	26	25	24	21	18	13	8	3
4STM3/7	4ST3/7	0.55	0.75		46	43	42	41	39	38	36	33	28	22	15	7
4STM3/9	4ST3/9	0.75	1		59	55	54	52	51	49	47	43	37	28	20	10
4STM3/14	4ST3/14	1.1	1.5	Head	93	87	86	83	81	79	76	68	58	47	33	20
4STM3/18	4ST3/18	1.5	2	(m)	120	113	111	108	105	102	98	88	75	60	42	25
4STM3/27	4ST3/27	2.2	3		175	164	161	157	152	147	141	127	109	87	61	35
	4ST3/35	3	4		228	212	208	203	197	191	184	166	145	119	85	46
	4ST3/48	4	5.5		309	289	283	276	267	258	248	225	197	162	120	73

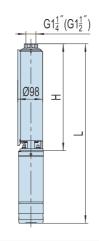
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#### **Performance curves**



## **Dimensions & weights**



Single Phase	Н	L	N.V	/ kg
Sillyle Filase	(mm)	(mm)	Н	L
4STM4/4	267	600	2.4	9.9
4STM4/6	317	670	2.8	11.1
4STM4/8	367	745	3.2	12.2
4STM4/12	467	909	4.1	15.1
4STM4/16	567	1039	4.9	17.3
4STM4/24	805	1322	7.0	21.8

Three Phase	Н	L	N.V	/ kg
Tillee Pilase	(mm)	(mm)	Н	L
4ST4/4	267	600	2.4	8.9
4ST4/6	317	650	2.8	10.1
4ST4/8	367	730	3.2	11.9
4ST4/12	467	874	4.1	13.8
4ST4/16	567	1009	4.9	16.0
4ST4/24	805	1307	7.0	20.8
4ST4/32	1043	1595	9.3	25.9
4ST4/44	1343	1945	11.9	30.9

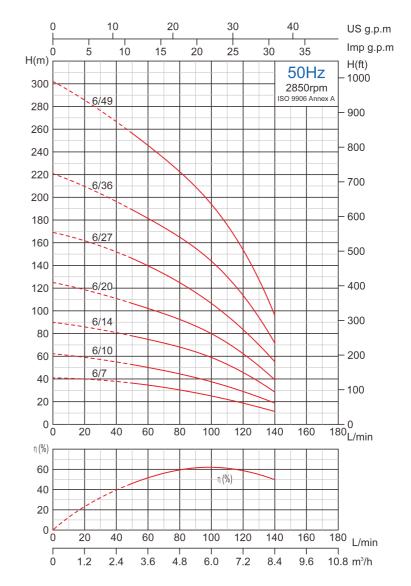
#### **Performance table**

Model(50	Hz)	Mc	otor					Ca	pacity					
Single Phase	Three	Po	wer	l/min	0	35	40	45	50	60	70	80	90	100
Sillyle Filase	Phase	kW	HP	m³/h	0	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0
4STM4/4	4ST4/4	0.37	0.5		26	23	22	22	21	19	17	14	11	7
4STM4/6	4ST4/6	0.55	0.75		38	36	35	33	32	30	26	22	18	12
4STM4/8	4ST4/8	0.75	1		51	47	46	44	43	39	35	30	24	18
4STM4/12	4ST4/12	1.1	1.5	Head	77	72	71	69	68	63	57	49	41	31
4STM4/16	4ST4/16	1.5	2	(m)	102	98	96	94	92	86	77	68	57	46
4STM4/24	4ST4/24	2.2	3		151	142	139	136	132	122	111	97	80	62
	4ST4/32	3	4		203	188	185	180	175	162	146	127	105	80
	4ST4/44	4	5.5		278	265	260	254	247	230	210	187	159	127

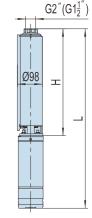
# **4ST 6**



#### **Performance curves**



## **Dimensions & weights**



Single Phase	Н	L	N.V	/ kg
Siligle Filase	(mm)	(mm)	Н	L
4STM6/7	395	773	3.4	12.4
4STM6/10	488	930	4.2	15.2
4STM6/14	612	1084	5.2	17.6
4STM6/20	836	1353	7.1	21.9

Three Phase	Н	L	N.W kg			
Tillee Pilase	(mm)	(mm)	Н	L		
4ST6/7	395	758	3.4	12.1		
4ST6/10	488	895	4.2	13.9		
4ST6/14	612	1054	5.2	16.3		
4ST6/20	836	1338	7.1	20.9		
4ST6/27	1053	1605	8.9	25.5		
4ST6/36	1370	1972	11.8	30.8		
4ST6/49	1849	2595	15.7	43.0		

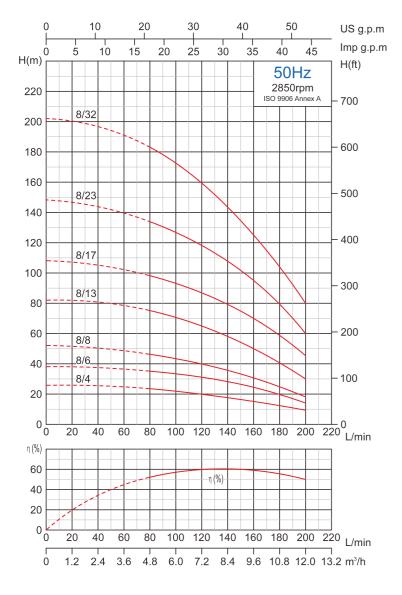
#### **Performance table**

Model(50	)Hz)	Мс	otor					Capac	ity				
Single Phase	Three	Po	wer	l/min	0	50	60	70	80	90	100	120	140
Sillyle Filase	Phase	kW	HP	m³/h	0	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4
4STM6/7	4ST6/7	0.75	1		42	36	34	32	30	28	25	19	11
4STM6/10	4ST6/10	1.1	1.5		62	53	51	48	45	41	38	29	18
4STM6/14	4ST6/14	1.5	2	l	90	77	74	71	68	63	59	46	28
4STM6/20	4ST6/20	2.2	3	Head (m)	125	107	102	97	92	86	80	62	40
	4ST6/27	3	4		169	145	139	131	123	115	107	84	55
	4ST6/36	4	5.5		221	190	181	173	164	154	143	112	72
	4ST6/49	5.5	7.5		302	257	246	234	222	209	193	151	96

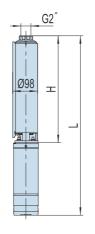
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#### **Performance curves**



## **Dimensions & weights**



Single Phase	Н	L	N.W kg			
Siligle Filase	(mm)	(mm)	Н	L		
4STM8/4	302	680	2.6	11.6		
4STM8/6	364	806	3.2	14.2		
4STM8/8	426	898	3.7	16.1		
4STM8/13	581	1098	5.0	19.8		

Three Dhase	Н	L	N.W kg			
Three Phase	(mm)	(mm) (mm)		L		
4ST8/4	302	665	2.6	11.3		
4ST8/6	364	771	3.2	12.9		
4ST8/8	426	868	3.7	14.8		
4ST8/13	581	1083	5.0	18.8		
4ST8/17	743	1295	6.3	22.9		
4ST8/23	929	1531	7.9	26.9		
4ST8/32	1246	1992	10.7	38.0		

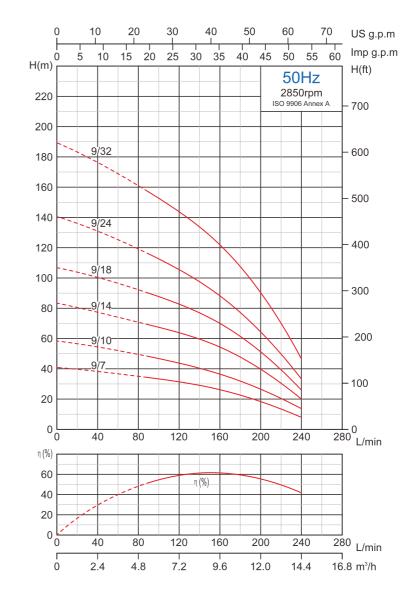
#### **Performance table**

Model(50	)Hz)	Мс	otor			Capacity								
Single Phase	Three	Po	wer	l/min	0	80	90	100	120	140	160	180	200	
Siligie Filase	Phase	kW	HP	m³/h	0	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12.0	
4STM8/4	4ST8/4	0.75	1		26	23	22	21	20	18	16	12	9	
4STM8/6	4ST8/6	1.1	1.5		38	35	34	33	31	28	24	19	14	
4STM8/8	4ST8/8	1.5	2		52	47	45	44	41	37	31	25	18	
4STM8/13	4ST8/13	2.2	3	Head (m)	82	75	73	71	66	59	50	40	30	
	4ST8/17	3	4		108	98	96	94	87	79	70	58	46	
	4ST8/23	4	5.5		148	134	131	127	118	108	95	79	60	
	4ST8/32	5.5	7.5		202	182	178	172	160	143	125	105	80	

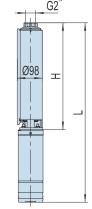
# **4ST 9**



#### **Performance curves**



## **Dimensions & weights**



Single Phase	Н	L	N.V	/ kg
Single i nase	(mm)	(mm)	Н	L
4STM9/7	490	932	4.2	15.2
4STM9/10	623	1095	5.3	17.7
4STM9/14	839	1356	7.0	21.8

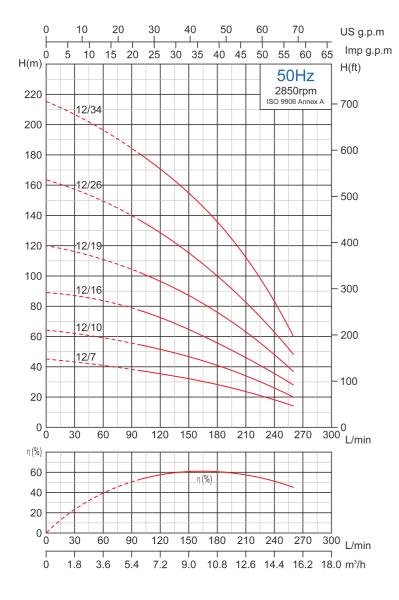
Three Phase	Н	L	N.W kg			
Tillee Fliase	(mm)	(mm)	Н	L		
4ST9/7	490	897	4.2	13.9		
4ST9/10	623	1065	5.3	16.4		
4ST9/14	839	1341	7.0	20.8		
4ST9/18	1017	1569	8.5	25.1		
4ST9/24	1284	1886	10.7	29.7		
4ST9/32	1754	2500	14.7	42.0		

#### **Performance table**

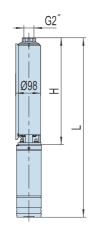
Model(50	OHz)	Мс	otor	Capacity										
Single Phase	Three	Po	wer	l/min	0	90	100	120	140	160	180	200	220	240
Siligle Filase	Phase	kW	HP	m³/h	0	5.4	6.0	7.2	8.4	9.6	10.8	12.0	13.2	14.4
4STM9/7	4ST9/7	1.1	1.5		41	34	33	32	29	26	23	18	14	8
4STM9/10	4ST9/10	1.5	2		58	48	47	44	41	37	32	27	20	13
4STM9/14	4ST9/14	2.2	3	Head	83	69	67	63	58	54	48	40	31	20
	4ST9/18	3	4	(m)	107	90	87	83	77	70	62	52	39	26
	4ST9/24	4	5.5		141	116	113	106	97	88	77	63	49	33
	4ST9/32	5.5	7.5		189	157	153	144	134	122	107	90	70	47



#### **Performance curves**



## **Dimensions & weights**



Single Phase	Н	L	N.V	/ kg
Olligie i flase	(mm)	(mm)	Н	L
4STM12/7	542	1014	4.5	16.9
4STM12/10	698	1215	5.8	20.6

Three Phase	Н	L	N.V	/ kg
Three Phase	(mm)	(mm)	Н	L
4ST12/7	542	984	4.5	15.6
4ST12/10	698	1200	5.8	19.6
4ST12/14	944	1496	7.8	24.4
4ST12/19	1204	1806	9.9	28.9
4ST12/26	1682	2428	13.9	41.2
4ST12/34	2098	2951	17.3	48.7

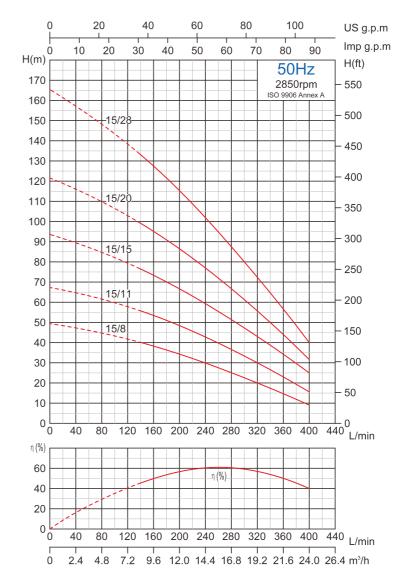
#### **Performance table**

Model(50Hz)		Мс	otor	Capacity										
Single Phase	Three Phase	Po	wer	l/min	0	100	120	140	160	180	200	220	240	260
Siligie Filase		kW	HP	m³/h	0	6.0	7.2	8.4	9.6	10.8	12.0	13.2	14.4	15.6
4STM12/7	4ST12/7	1.5	2		45	37	36	33	31	28	25	22	18	14
4STM12/10	4ST12/10	2.2	3		64	54	52	48	44	41	36	32	26	20
	4ST12/14	3	4	Head	89	76	72	67	62	56	49	43	35	28
	4ST12/19	4	5.5	(m)	120	102	97	91	89	76	68	58	48	37
	4ST12/26	5.5	7.5		163	136	129	120	111	100	87	75	61	48
	4ST12/34	7.5	10		215	180	170	157	144	136	110	93	77	60

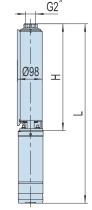
# **4ST 15**



#### **Performance curves**



## **Dimensions & weights**



Single Phase	Н	L	N.V	/ kg
Single i nase	(mm)	(mm)	Н	L
4STM15/8	680	1197	5.7	20.5

Thurs Dhass	Н	L	N.W kg			
Three Phase	(mm)	(mm)	Н	L		
4ST15/8	680	1182	5.7	19.5		
4ST15/11	883	1435	7.2	23.8		
4ST15/15	1153	1755	9.3	28.3		
4ST15/20	1528	2274	12.6	39.9		
4ST15/28	2068	2921	16.7	48.1		

#### **Performance table**

Model(50Hz)		Mc	otor	Capacity											
Single Phase	Three	Po	wer	l/min	0	140	180	220	240	260	300	320	360	400	
Single Filase	Phase	Phase	kW	HP	m³/h	0	8.4	10.8	13.2	14.4	15.6	18	19.2	21.6	24
4STM15/8	4ST15/8	2.2	3		49	39	35	32	30	28	23	20	15	9	
	4ST15/11	3	4		67	54	50	45	42	39	33	30	23	16	
	4ST15/15	4	5.5	Head (m)	93	76	69	62	59	55	47	43	34	25	
	4ST15/20	5.5	7.5		122	98	90	81	76	72	61	56	44	32	
	4ST15/28	7.5	10		165	132	122	108	103	95	80	73	55	40	