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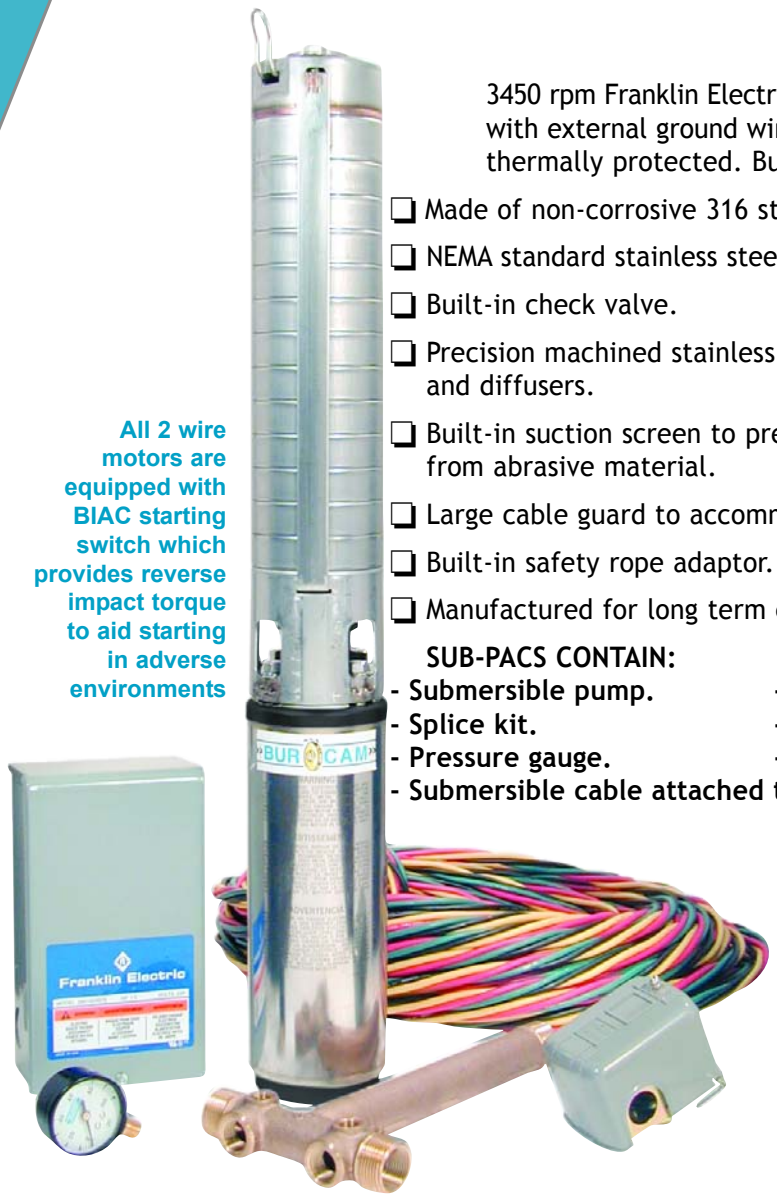
4” SUBMERSIBLE DEEP WELL PUMPS

5, 10, 25 GPM

Recommended for homes, cottages and farms for installation in water wells which are 4” or larger in diameter



All 2 wire motors are equipped with BIAC starting switch which provides reverse impact torque to aid starting in adverse environments

3450 rpm Franklin Electric motor, 2 or 3 wire with external ground wire, 115V or 230V, 1 PH, 60Hz, thermally protected. Built-in lightning arrestor.

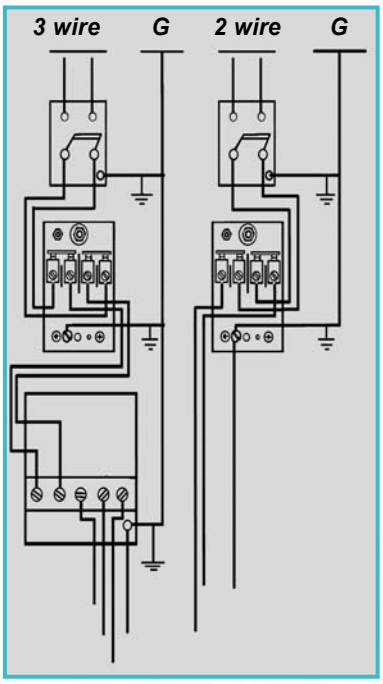
- ❑ Made of non-corrosive 316 stainless steel material.
- ❑ NEMA standard stainless steel interchangeable pump end.
- ❑ Built-in check valve.
- ❑ Precision machined stainless steel impellers and diffusers.
- ❑ Built-in suction screen to prevent pump damage from abrasive material.
- ❑ Large cable guard to accommodate motor lead.
- ❑ Built-in safety rope adaptor.
- ❑ Manufactured for long term endurance and performance.

All Stainless Steel Series

SUB-PACS CONTAIN:

- **Submersible pump.**
- **Splice kit.**
- **Pressure gauge.**
- **Control box (if required).**
- **LOP pressure switch.**
- **Bronze tank tee.**
- **Submersible cable attached to motor lead**

From distribution



To pump

Electrical diagram installation

NOT INCLUDED AND RECOMMENDED:

- Pitless adaptor.
- Torque arrestor.
- Well cap .
- Suspension cable.
- Pressure relief valve.

4" SUBMERSIBLE DEEP WELL PUMPS

All Stainless Steel

Performance charts

5 GPM

1/2 HP

PSI	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'	300'	325'
0				444	425	405	***385***	***366***	***341***	***315***	***286***	***244***	178
20	458	439	419	***399***	***380***	***360***	***340***	***320***	***290***	***252***	204	123	
30	436	416	***396***	***377***	***357***	***338***	***316***	***295***	***256***	206	137		
40	413	394	***374***	***355***	***334***	***314***	***289***	***263***	210	139			
50	***392***	***371***	***352***	***332***	***310***	***287***	***254***	220	145				**USGPH**

Best efficiency 20/40 120' @ 218'
30/50 97' @ 195'

3/4 HP

PSI	100'	120'	140'	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'
0			448	434	420	402	***384***	***359***	***350***	***332***	***313***	***267***	
20		444	430	416	401	***387***	***370***	***352***	***334***	***315***	***293***	***268***	203
30	442	427	414	***399***	***385***	***371***	***354***	***336***	***319***	***296***	***268***	238	156
40	425	412	***397***	***383***	***369***	***355***	***337***	***320***	***299***	***274***	***241***	200	86
50	410	***395***	***387***	***366***	***353***	***339***	***319***	***300***	***267***	***247***	205		**USGPH**

Best efficiency 20/40 183' @ 337'
30/50 160' @ 314'

1.0 HP

PSI	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'	450'	500'	550'
0			447	439	418	398	***390***	***373***	***358***	***331***	***299***	***257***	191
20	444	433	421	413	***392***	***378***	***363***	***349***	***336***	***314***	***263***	201	120
30	431	419	407	***392***	***378***	***363***	***350***	***336***	***320***	***286***	***237***	164	75
40	418	406	***395***	***380***	***366***	***352***	***337***	***321***	***305***	***268***	206	118	
50	404	***393***	***381***	***366***	***352***	***338***	***322***	***305***	***288***	***244***	171		**USGPH**

Best efficiency 20/40 246' @ 435'
30/50 223' @ 412'

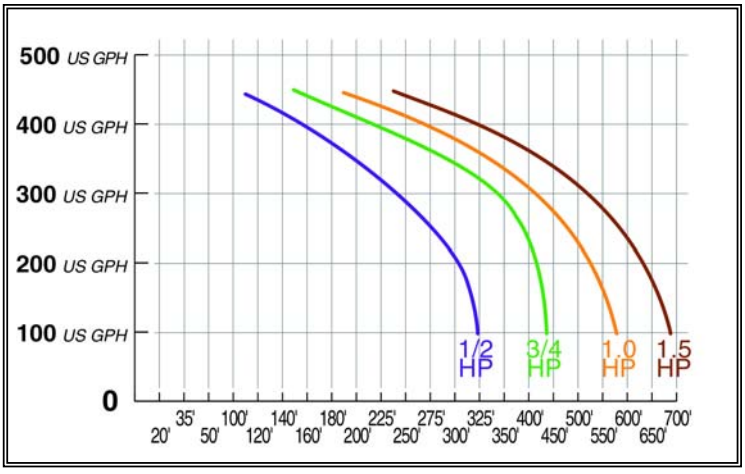
1.5HP

PSI	180'	200'	225'	250'	275'	300'	325'	350'	400'	450'	500'	550'	600'
0			444	429	419	407	***395***	***371***	***347***	***320***	***291***	***257***	
20		445	433	420	408	397	***384***	***372***	***349***	***323***	***294***	***256***	212
30	444	435	422	409	397	***384***	***372***	***361***	***337***	***310***	***279***	***235***	184
40	433	422	410	398	***385***	***374***	***362***	***350***	***325***	***296***	***261***	210	149
50	421	410	399	***386***	***375***	***363***	***351***	***338***	***311***	***281***	***242***		**USGPH**

Best efficiency 20/40 300' @ 536'
30/50 277' @ 513'

Technical Information

MODEL	Stages	HP	Volts	Wire	Motor lead
101124	13	1/2	115	2	48"
101125	13	1/2	115	3	48"
101126	13	1/2	230	2	48"
101127	13	1/2	230	3	48"
101074	13	1/2	230	3 SUB-PAC	200'
101134	18	3/4	230	2	48"
101135	18	3/4	230	3	48"
101059	18	3/4	230	3 SUB-PAC	250'
101144	22	1.0	230	2	48"
101145	22	1.0	230	3	48"
101156	26	1.5	230	2	48"
101154	26	1.5	230	3	48"



4" SUBMERSIBLE DEEP WELL PUMPS

All Stainless Steel

10 GPM

Performance charts

1/2 HP

PSI	0'	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'
0					889	842	***783***	***719***	***659***	***596***	***524***	***364***	
20			877	824	***763***	***700***	***638***	***576***	***496***	364	128		
30		869	816	***754***	***691***	***630***	***565***	***480***	336	77			
40		806	***743***	***681***	***620***	***554***	***462***	305					
50		***734***	***671***	***610***	***542***	443	271						**USGPH**

Best efficiency 20/40 73' @ 123'
30/50 50' @ 100'

3/4 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0					899	869	830	***785***	***738***	***691***	***633***	***573***	***463***
20			891	858	817	***771***	***723***	***676***	***631***	***584***	***528***	454	339
30		887	853	810	***763***	***716***	***669***	***624***	***576***	***519***	408	223	68
40	882	846	803	***756***	***709***	***663***	***616***	***568***	***508***	423	242		
50	840	796	***749***	***701***	***655***	***609***	***560***	***497***	385	267			**USGPH**

Best efficiency 20/40 114' @ 198'
30/50 91' @ 175'

1.0 HP

PSI	100'	120'	140'	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'
0			885	857	824	787	***740***	***693***	***647***	***601***	***546***	***467***	237
20	877	847	813	***776***	***738***	***700***	***655***	***609***	***559***	***495***	391	263	
30	842	807	***771***	***733***	***695***	***658***	***612***	***562***	***499***	413	255	70	
40	802	***764***	***723***	***689***	***652***	***616***	***565***	***505***	418	290	90		
50	***759***	***720***	***684***	***647***	***610***	***571***	***510***	426	294	104			**USGPH**

Best efficiency 20/40 156' @ 267'
30/50 133' @ 244'

1.5HP

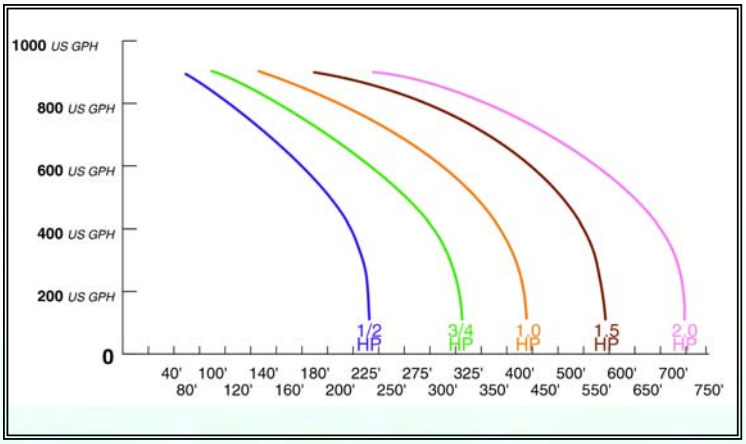
PSI	140'	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'	450'	500'
0			895	878	864	822	790	***757***	***722***	***689***	***624***	***551***	440
20	890	873	852	827	798	***762***	***728***	***694***	***661***	***628***	***560***	***456***	267
30	869	847	825	787	***765***	***731***	***697***	***664***	***631***	***595***	***520***	387	178
40	844	820	794	***768***	***733***	***699***	***666***	***634***	***600***	***562***	471	295	
50	816	790	***763***	***736***	***702***	***669***	***637***	***603***	***567***	***522***	408	**USGPH**	

Best efficiency 20/40 234' @ 406'
30/50 203' @ 383'

2.0 HP

PSI	225'	250'	275'	300'	325'	350'	400'	450'	500'	550'	600'	650'	700'
0		882	864	843	819	794	***742***	***689***	***639***	***571***	***525***	420	297
20	867	846	819	798	***772***	***746***	***693***	***643***	***589***	***523***	***446***	329	91
30	848	825	800	***774***	***748***	***721***	***670***	***619***	***563***	***485***	392	234	
40	826	802	***776***	***750***	***725***	***697***	***646***	***594***	***533***	439	324		
50	803	***778***	***752***	***726***	***699***	***673***	***622***	***568***	***497***	382	239		**USGPH**

Best efficiency 20/40 313' @ 545'
30/50 290' @ 522'



Technical Information

MODEL	Stages	HP	Volts	Wire	Motor lead
101129	9	1/2	115	2	48"
101123	9	1/2	115	3	48"
101130	9	1/2	230	2	48"
101128	9	1/2	230	3	48"
101161	9	1/2	230	2 SUB-PAC	150'
101151	9	1/2	230	3 SUB-PAC	150'
101131	12	3/4	230	2	48"
101136	12	3/4	230	3	48"
101162	12	3/4	230	2 SUB-PAC	200'
101152	12	3/4	230	3 SUB-PAC	200'
101147	15	1.0	230	2	48"
101146	15	1.0	230	3	48"
101163	15	1.0	230	2 SUB-PAC	200'
101153	15	1.0	230	3 SUB-PAC	200'
101158	21	1.5	230	2	48"
101155	21	1.5	230	3	48"
101165	27	2.0	230	3	48"

4” SUBMERSIBLE DEEP WELL PUMPS

All Stainless Steel

25 GPM

Performance charts

3/4 HP

PSI	20’	40’	60’	80’	100’	120’	140’	160’	180’	200’	225’	250’
0			2173	***1874***	***1506***	1139	626					
20	2074	***1800***	***1375***	950	472							
30	***1706***	***1418***	772	126								
40	***1229***	740	368									
50	635											**USGPH**

Best efficiency 20/40 25’ @ 43’
30/50 2’ @ 20’

1.0 HP

PSI	20’	40’	60’	80’	100’	120’	140’	160’	180’	200’	225’	250’
0				1974	***1795***	***1533***	***1271***	798	320			
20		2090	***1911***	***1738***	***1444***	1155	656	158				
30	2079	***1885***	***1670***	***1454***	819	604						
40	***1853***	***1674***	***1344***	1018	515							
50	***1596***	***1355***	898	441								**USGPH**

Best efficiency 20/40 55’ @ 73’
30/50 32’ @ 50’

1.5HP

PSI	20’	40’	60’	80’	100’	120’	140’	160’	180’	200’	225’	250’	300’
0					2027	***1890***	***1759***	***1559***	***1359***	939	493		
20				1985	***1848***	***1712***	***1491***	***1276***	913	556			
30			1968	***1832***	***1664***	***1491***	***1192***	893	494				
40		***1942***	***1800***	***1659***	***1422***	***1181***	809	430					
50	***1927***	***1790***	***1606***	***1418***	1097	772	388						**USGPH**

Best efficiency 20/40 85’ @ 122’
30/50 62’ @ 99’

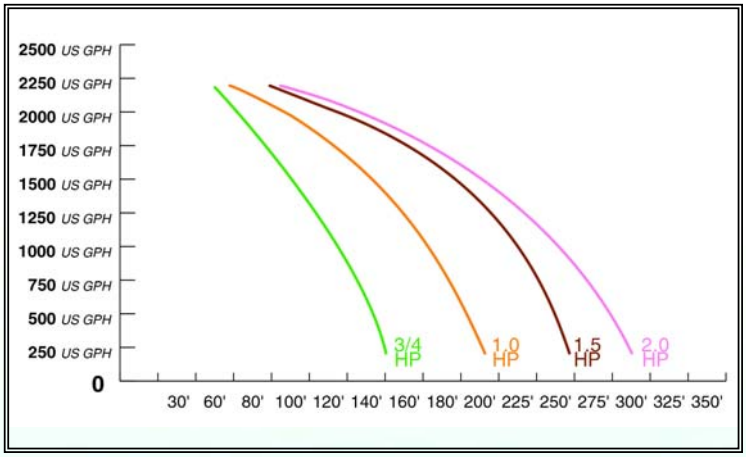
2.0 HP

PSI	40’	60’	80’	100’	120’	140’	160’	180’	200’	225’	250’	275’	300’
0				2084	1958	***1848***	***1738***	***1580***	***1355***	1040	669	210	
20			2048	***1926***	***1811***	***1701***	***1527***	***1355***	1021	653	240		
30		2016	***1911***	***1806***	***1664***	***1523***	***1297***	1066	677	331			
40	2005	***1895***	***1775***	***1659***	***1470***	***1286***	1044	719	299				
50	2006	***1895***	***1775***	***1659***	***1470***	***1286***	1002	719	336				**USGPH**

Best efficiency 20/40 116’ @ 172’
30/50 93’ @ 149’

Technical Information

MODEL	Stages	HP	Volts	Wire	Motor lead
101137	5	3/4	230	2	48”
101138	5	3/4	230	3	48”
101149	7	1.0	230	2	48”
101148	7	1.0	230	3	48”
101159	9	1.5	230	2	48”
101157	9	1.5	230	3	48”
101167	11	2.0	230	3	48”



4" SUBMERSIBLE DEEP WELL PUMPS

WARRANTY 2 YEARS

10 GPM

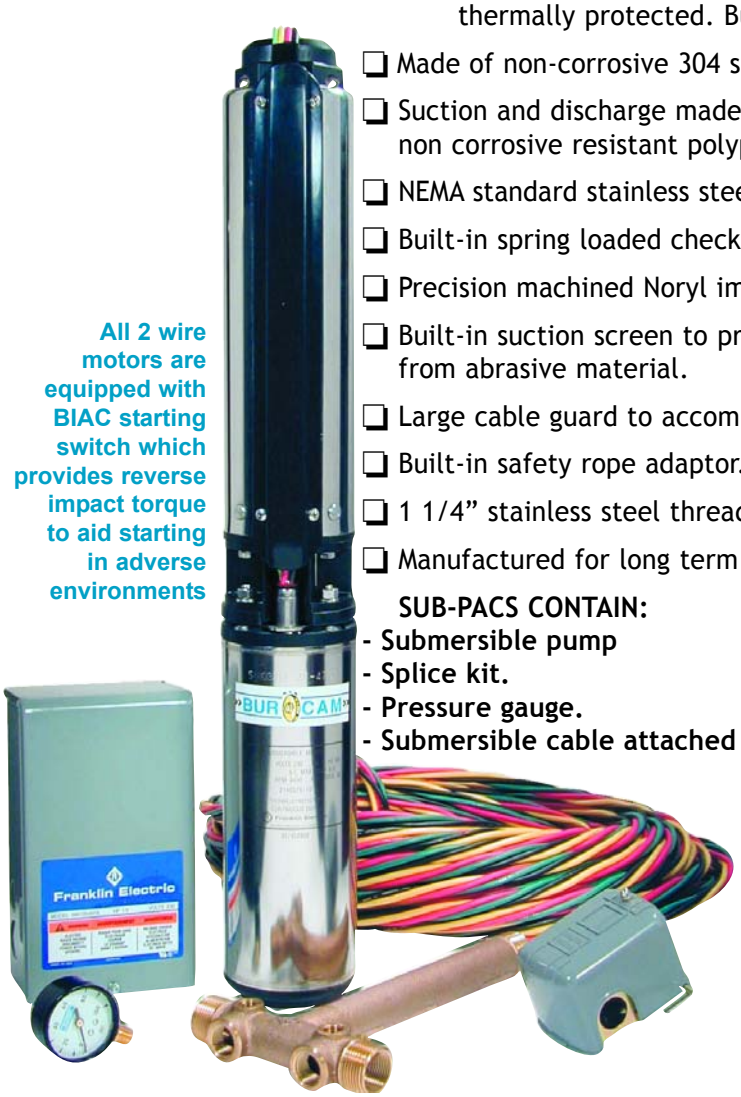
Recommended for homes, cottages and farms for installation in water wells which are 4" or larger in diameter

3450 rpm Franklin Electric motor, 2 or 3 wire with external ground wire, 115V or 230V, 1 PH, 60Hz, thermally protected. Built-in lightning arrestor.

Stainless Steel shell with Noryl suction & discharge, impellers & diffusers

- ❑ Made of non-corrosive 304 stainless steel material.
- ❑ Suction and discharge made from non corrosive resistant polypropylene.
- ❑ NEMA standard stainless steel interchangeable pump end.
- ❑ Built-in spring loaded check valve.
- ❑ Precision machined Noryl impellers and diffusers.
- ❑ Built-in suction screen to prevent pump damage from abrasive material.
- ❑ Large cable guard to accommodate motor lead.
- ❑ Built-in safety rope adaptor.
- ❑ 1 1/4" stainless steel threaded insert.
- ❑ Manufactured for long term endurance and performance.

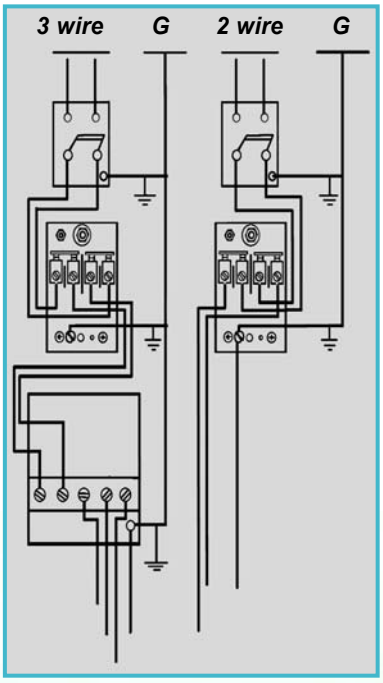
All 2 wire motors are equipped with BIAC starting switch which provides reverse impact torque to aid starting in adverse environments



SUB-PACS CONTAIN:

- **Submersible pump**
- **Splice kit.**
- **Pressure gauge.**
- **Submersible cable attached to motor lead**
- **Control box (if required).**
- **LOP pressure switch.**
- **Bronze tank tee.**

Electrical diagram installation



NOT INCLUDED AND RECOMMENDED:

- Pitless adaptor.
- Torque arrestor.
- Well cap .
- Suspension cable.
- Pressure relief valve.

2 WARRANTY YEARS

4" SUBMERSIBLE DEEP WELL PUMPS

Noryl

10 GPM

Performance charts

1/2 HP

PSI	0'	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'
0					890	***840***	***770***	***690***	***640***	***555***	***450***	***300***	
20			875	***819***	***746***	***675***	***615***	***524***	***414***	288			
30		868	***809***	***734***	***668***	***602***	***508***	***396***	252				
40		***798***	***722***	***660***	***589***	***492***	***378***	216					
50		***710***	***653***	***576***	***476***	***360***	180						**USGPH**

Best efficiency 20/40 70' @ 118'
30/50 47' @ 97'

3/4 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0				890	865	830	***800***	***760***	***720***	***670***	***610***	***530***	400
20		883	855	821	***788***	***748***	***705***	***656***	***607***	***543***	421	232	
30	879	849	817	***782***	***742***	***698***	***648***	***597***	***533***	431	248		
40	844	812	***776***	***736***	***690***	***641***	***588***	***520***	416	264			
50	808	***770***	***730***	***683***	***634***	***578***	***504***	400	240	80			**USGPH**

Best efficiency 20/40 92' @ 173'
30/50 69' @ 150'

1.0 HP

PSI	100'	120'	140'	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'
0			840	815	***790***	***755***	***710***	***660***	***605***	***550***	***490***	410	320
20	833	808	***780***	***744***	***708***	***668***	***614***	***559***	***500***	423	372	327	164
30	804	***774***	***739***	***702***	***662***	***618***	***563***	***504***	429	376	331	255	
40	***769***	***733***	***696***	***656***	***612***	***568***	***509***	436	379	334	262	177	
50	***728***	***690***	***649***	***605***	***561***	***514***	442	383	338	269	184	**USGPH**	

Best efficiency 20/40 125' @ 217'
30/50 102' @ 194'

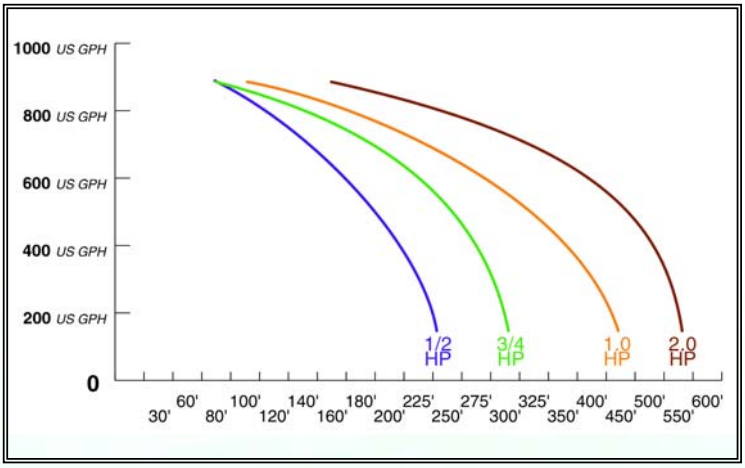
1.5HP

PSI	140'	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'	450'	500'
0		880	860	845	825	***795***	***760***	***725***	***690***	***655***	***600***	***515***	420
20	856	840	824	***800***	***766***	***731***	***696***	***661***	***632***	***604***	***522***	428	218
30	838	820	***796***	***768***	***733***	***698***	***663***	***634***	***607***	***568***	479	336	124
40	817	***792***	***764***	***736***	***701***	***666***	***636***	***609***	***571***	***529***	435	235	
50	***788***	***760***	***732***	***704***	***669***	***639***	***611***	***575***	***532***	***487***	354	**USGPH**	

Best efficiency 20/40 200' @ 390'
30/50 177' @ 367'

Technical Information

MODEL	Stages	HP	Volts	Wire	Motor lead
105335ST	6	1/2	115	2	48"
105305ST	6	1/2	115	3	48"
105337ST	6	1/2	230	2	48"
105307ST	6	1/2	230	3	48"
105561ST	6	1/2	230	2 SUB-PAC	150'
105551ST	6	1/2	230	3 SUB-PAC	150'
105339ST	8	3/4	230	2	48"
105309ST	8	3/4	230	3	48"
105362ST	8	3/4	230	2 SUB-PAC	200'
105352ST	8	3/4	230	3 SUB-PAC	200'
105333ST	11	1.0	230	2	48"
105313ST	11	1.0	230	3	48"
105363ST	11	1.0	230	2 SUB-PAC	200'
105353ST	11	1.0	230	3 SUB-PAC	200'
105336ST	17	1.5	230	2	48"
105316ST	17	1.5	230	3	48"



4" SUBMERSIBLE DEEP WELL PUMPS

WARRANTY 2 YEARS

5, 7, 10, 25, 55, 85 GPM

Recommended for homes, cottages and farms for installation in water wells which are 4" or larger in diameter

All 2 wire motors are equipped with BIAC starting switch which provides reverse impact torque to aid starting in adverse environments

3450 rpm Franklin Electric motor, 2 or 3 wire with external ground wire, 115V or 230V, 1 PH, 60Hz, thermally protected. Built-in lightning arrestor.

- ❑ Made of non-corrosive 304 stainless steel material.
- ❑ NEMA standard stainless steel interchangeable pump end.
- ❑ Built-in check valve.
- ❑ Precision machined Noryl impellers and diffusers.
- ❑ Polyethylene screen to prevent pump damage from abrasive material.
- ❑ Large cable guard to accommodate motor lead.
- ❑ Built-in safety rope adaptor.
- ❑ Manufactured for long term endurance and performance.

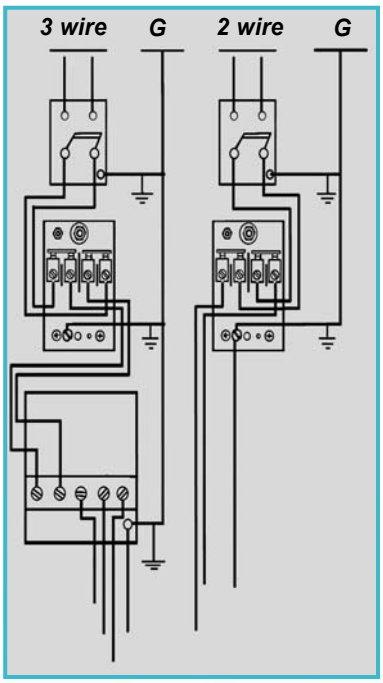
Stainless Steel *shell, suction & discharge.*

Noryl *impellers & diffusers*

SUB-PACS CONTAIN:

- **Submersible pump**
- **Splice kit.**
- **Pressure gauge.**
- **Submersible cable attached to motor lead**
- **Control box (if required).**
- **LOP pressure switch.**
- **Bronze tank tee.**

From distribution



To pump

Electrical diagram installation

NOT INCLUDED AND RECOMMENDED:

- Pitless adaptor.
- Torque arrestor.
- Well cap .
- Suspension cable.
- Pressure relief valve.

2 WARRANTY YEARS

4" SUBMERSIBLE DEEP WELL PUMPS

Stainless Steel

Performance charts

5 GPM

1/2 HP

PSI	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'	300'	325'
0		520	500	480	460	440	420	***400***	***360***	***320***	***280***	200	75
20	494	474	454	434	***414***	***390***	***358***	***326***	***286***	***213***	95		
30	471	451	431	***411***	***386***	***354***	***322***	***290***	***219***	105			
40	448	428	***408***	***381***	***349***	***317***	***285***	***226***	115				
50	425	***405***	***376***	***344***	***312***	***280***	***216***	125					**USGPH**

Best efficiency 20/40 126' @ 191'
30/50 103' @ 168'

3/4 HP

PSI	100'	120'	140'	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'
0	470	460	450	435	***420***	***400***	***370***	***340***	***310***	***270***	***240***	200	135
20	446	431	414	***393***	***369***	***345***	***315***	***276***	***245***	***206***	173	140	
30	428	411	***389***	***365***	***341***	***317***	***280***	***247***	***210***	175	143		
40	408	***386***	***362***	***338***	***314***	***283***	***250***	***213***	178	145			
50	382	***358***	***334***	***310***	***278***	***252***	***216***	181	148				**USGPH**

Best efficiency 20/40 153' @ 201'
30/50 130' @ 178'

1.0 HP

PSI	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'	450'	500'	550'
0	450	435	420	***405***	***385***	***365***	***345***	***320***	***295***	***250***	200	140	75
20	416	***404***	***388***	***368***	***348***	***324***	***299***	***276***	***254***	204	145		
30	***402***	***386***	***370***	***350***	***326***	***301***	***278***	***255***	231	177	115		
40	***383***	***367***	***351***	***328***	***303***	***280***	***257***	233	208	150			
50	***365***	***349***	***330***	***305***	***282***	***259***	235	210	182	121			**USGPH**

Best efficiency 20/40 171' @ 307'
30/50 148' @ 284'

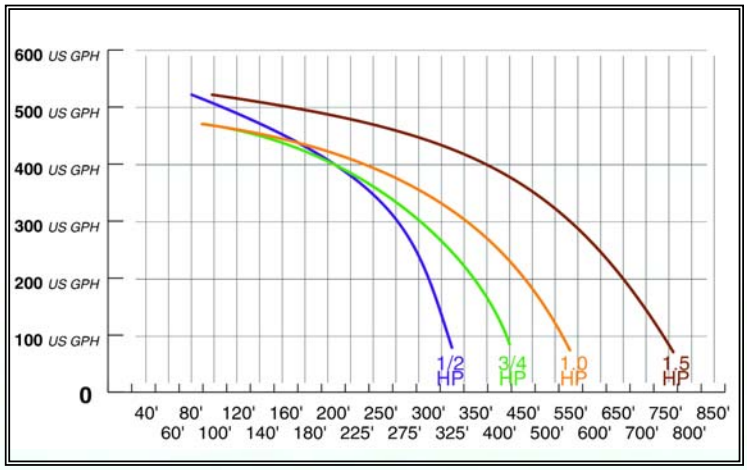
1.5HP

PSI	180'	200'	225'	250'	275'	300'	325'	350'	400'	450'	500'	550'	600'
0	490	480	470	460	450	440	430	***410***	***390***	***370***	***335***	***300***	***250***
20	470	462	452	442	432	***413***	***402***	***392***	***372***	***338***	***303***	***254***	209
30	460	452	442	432	***415***	***402***	***392***	***382***	***357***	***322***	***281***	233	188
40	451	443	433	***416***	***403***	***393***	***383***	***373***	***341***	***306***	***258***	212	167
50	442	434	418	***404***	***394***	***384***	***374***	***360***	***325***	***285***	237		**USGPH**

Best efficiency 20/40 326' @ 509'
30/50 303' @ 486'

Technical Information

MODEL	Stages	HP	Volts	Wire		Motor lead
105130	13	1/2	115	2		48"
105125	13	1/2	115	3		48"
105132	13	1/2	230	2		48"
105127	13	1/2	230	3		48"
105191	13	1/2	230	2	SUB-PAC	200'
105101	13	1/2	230	3	SUB-PAC	200'
105142	18	3/4	230	2		48"
105135	18	3/4	230	3		48"
105195	18	3/4	230	2	SUB-PAC	250'
105105	18	3/4	230	3	SUB-PAC	250'
105144	22	1.0	230	2		48"
105145	22	1.0	230	3		48"
105153	30	1.5	230	2		48"
105154	30	1.5	230	3		48"



4” SUBMERSIBLE DEEP WELL PUMPS

WARRANTY 2 YEARS

Stainless Steel

7 GPM

Performance charts

1/2 HP

PSI	40’	60’	80’	100’	120’	140’	160’	180’	200’	225’	250’	275’	300’
0			540	530	505	475	450	420	385	330	275	210	130
20	537	523	496	468	441	410	372	328	284	220	143		
30	519	492	464	437	404	365	321	277	226	149			
40	487	460	432	399	359	315	270	218	156				
50	456	428	394	352	308	262	210	146					USGPH

Best efficiency 20/40 32’ @ 124’
30/50 9’ @ 101’

3/4 HP

PSI	80’	100’	120’	140’	160’	180”	200’	225’	250’	275’	300’	325’	350’
0	580	570	560	550	530	515	500	470	430	390	350	275	180
20	557	544	526	511	493	468	436	396	356	287	195	136	83
30	541	523	508	489	464	432	400	360	293	203	140	88	
40	521	506	486	459	427	395	363	299	210	144	92		
50	504	482	454	422	390	358	305	218	149	96			USGPH

Best efficiency 20/40 85’ @ 205’
30/50 62’ @ 182’

1.0 HP

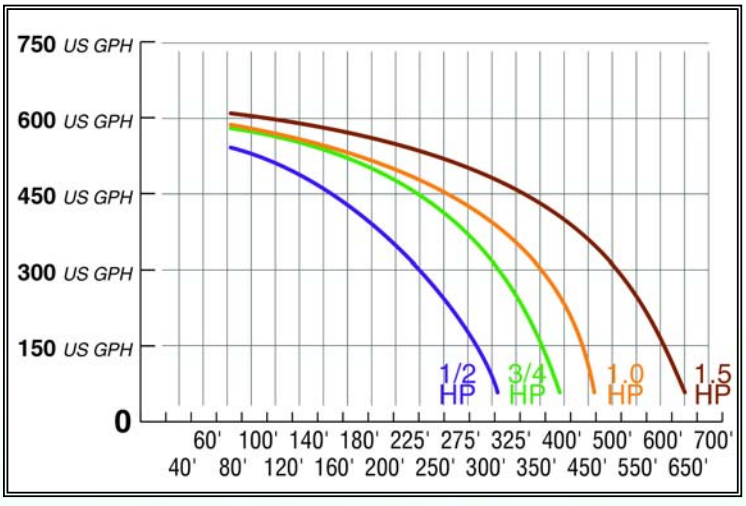
PSI	120’	140’	160’	180’	200’	225’	250’	275’	300’	325’	350’	400’	450’
0	570	555	540	520	500	480	460	440	420	380	320	265	145
20	534	514	495	479	463	443	423	386	330	297	269	155	
30	511	493	477	461	445	425	390	334	299	272	219		
40	490	474	458	442	426	393	339	301	274	224	164		
50	472	456	440	424	396	344	304	276	229	169			USGPH

Best efficiency 20/40 101’ @ 222’
30/50 78’ @ 199’

1.5HP

PSI	160’	180’	200’	225’	250’	275	300’	325’	350’	400’	450’	500’	550’
0	570	560	550	535	520	505	485	460	440	415	370	310	240
20	546	534	522	507	488	464	443	430	417	374	315	246	166
30	533	521	509	490	466	445	431	418	398	347	283	210	122
40	519	507	491	468	446	432	419	400	377	320	251	173	
50	505	489	470	448	433	420	402	379	352	289	216		USGPH

Best efficiency 20/40 153’ @ 373’
30/50 130’ @ 350’



Technical Information

MODEL	Stages	HP	Volts	Wire	Motor lead
105113	10	1/2	115	2	48”
105114	10	1/2	115	3	48”
105131	10	1/2	230	2	48”
105163	10	1/2	230	3	48”
105208	10	1/2	230	2 SUB-PAC	200’
105108	10	1/2	230	3 SUB-PAC	200’
105141	13	3/4	230	2	48”
105143	13	3/4	230	3	48”
105209	13	3/4	230	2 SUB-PAC	250’
105109	13	3/4	230	3 SUB-PAC	250’
105173	17	1.0	230	2	48”
105174	17	1.0	230	3	48”
105182	22	1.5	230	2	48”
105183	22	1.5	230	3	48”

2 WARRANTY YEARS

4" SUBMERSIBLE DEEP WELL PUMPS

Stainless Steel

Performance charts

10 GPM

1/2 HP

PSI	0'	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'
0				840	***780***	***710***	***650***	***570***	***490***	420	350	260	100
20		822	***759***	***692***	***626***	***546***	***469***	399	328	254	126		
30		***749***	***683***	***614***	***534***	***459***	389	318	234	106			
40		***674***	***602***	***522***	***448***	378	307	215	92				
50		***590***	***510***	***438***	368	296	196	80					USGPH

Best efficiency 20/40 27' @ 81'
30/50 5' @ 58'

3/4 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0			915	910	900	860	810	***755***	***700***	***640***	***550***	445	335
20	914	907	888	845	***794***	***739***	***682***	***618***	***546***	***462***	353	238	
30	906	882	838	***785***	***730***	***673***	***608***	***533***	***449***	361	248		
40	876	830	***777***	***722***	***664***	***597***	***521***	***436***	348	257			
50	823	***769***	***714***	***655***	***586***	***508***	***423***	335	243				USGPH

Best efficiency 20/40 98' @ 157'
30/50 75' @ 134'

1.0 HP

PSI	100'	120'	140'	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'
0	955	920	880	830	***790***	***750***	***700***	***650***	***600***	***540***	440	340	220
20	865	818	***778***	***738***	***698***	***658***	***608***	***550***	***456***	356	290	230	
30	812	***772***	***732***	***692***	***652***	***612***	***554***	***464***	364	294	234		
40	***766***	***726***	***686***	***646***	***606***	***559***	***472***	372	299	239			
50	***720***	***680***	***640***	***600***	***552***	***480***	380	304	244				USGPH

Best efficiency 20/40 129' @ 229'
30/50 106' @ 206'

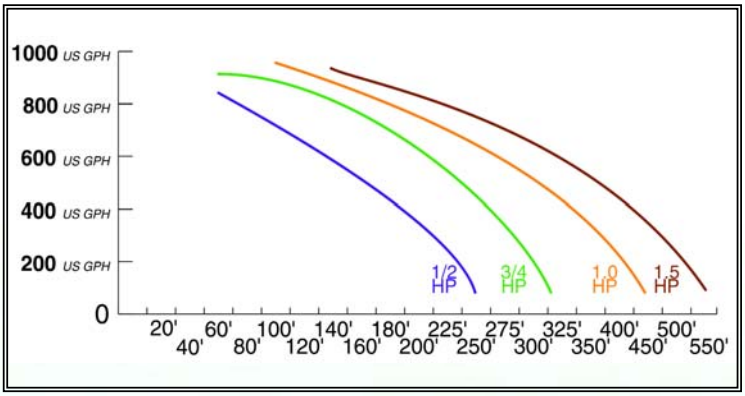
1.5HP

PSI	140'	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'	450'	500'
0	930	900	860	820	***780***	***730***	***690***	***645***	***590***	***530***	***460***	360	230
20	848	810	***778***	***738***	***696***	***652***	***599***	***540***	***501***	***466***	368	240	
30	806	***772***	***732***	***700***	***656***	***603***	***544***	***503***	***468***	422	311		
40	***766***	***727***	***695***	***659***	***608***	***549***	***506***	***471***	426	376	251		
50	***722***	***690***	***654***	***612***	***554***	***509***	***474***	430	380	321			USGPH

Best efficiency 20/40 166' @ 311'
30/50 143' @ 288'

Technical Information

MODEL	Stages	HP	Volts	Wire	Motor lead
105124	6	1/2	115	2	48"
105126	6	1/2	115	3	48"
105133	6	1/2	230	2	48"
105128	6	1/2	230	3	48"
105203	6	1/2	230	2 SUB-PAC	200'
105103	6	1/2	230	3 SUB-PAC	200'
105134	8	3/4	230	2	48"
105136	8	3/4	230	3	48"
105207	8	3/4	230	2 SUB-PAC	250'
105107	8	3/4	230	3 SUB-PAC	250'
105150	11	1.0	230	2	48"
105146	11	1.0	230	3	48"
105161	15	1.5	230	2	48"
105155	15	1.5	230	3	48"



4" SUBMERSIBLE DEEP WELL PUMPS

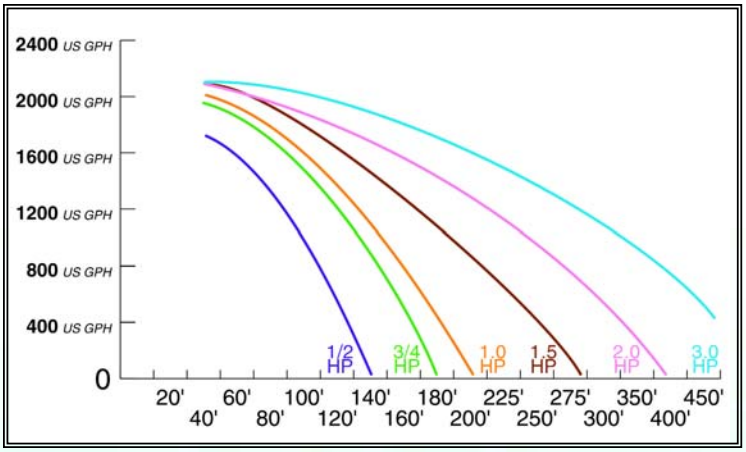
2 YEARS WARRANTY

Stainless Steel

25 GPM

Technical Information

MODEL	Stages	HP	Volts	Wire	Motor lead
105119	5	1/2	115	2	48"
105120	5	1/2	115	3	48"
105121	5	1/2	230	2	48"
105123	5	1/2	230	3	48"
105140	7	3/4	230	2	48"
105138	7	3/4	230	3	48"
105151	8	1.0	230	2	48"
105148	8	1.0	230	3	48"
105162	11	1.5	230	2	48"
105157	11	1.5	230	3	48"
105167	16	2.0	230	3	48"
105176	22	3.0	230	3	48"



1/2 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0			1740	1580	1360	990	540	60					
20		1514	1249			855	396						
30		1194				788	324						
40						720	252						
50						180							USGPH

3/4 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0			1950	1850	1700	1500	1200	900	520	40			
20		1805	1640	1410	1110		786	376					
30		1610	1365			1065	729	304					
40		1320				1020	672	232					
50						975	615	160					USGPH

1.0 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0			2040	1930	1800	1620	1350	1050	720	400	60		
20		1891	1746	1539	1260		951	624	298				
30		1719	1499	1215			902	576	247				
40		1458	1170				852	528	196				
50							1125	803	480	145			USGPH

1.5 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0			2100	2070	1980	1800	1590	1430	1260	1080	900	660	400
20		2043	1926	1737	1542	1379	1206		1026	842	650	442	
30		1899	1706	1518	1354	1179			999	814	618	410	
40		1674	1494	1328					1152	972	785	587	368
50		1470	1303						1125	945	756	556	320 USGPH

2.0 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0			2100	2050	1970	1880	1780	1670	1570	1460	1330	1150	960 760
20		2026	1943	1850	1747	1640	1537	1421	1287	1142		990	792575
30		1930	1835	1731	1625	1521	1402	1265	1120			968	808 593
40		1820	1714	1610	1504	1382	1244		1097	944	784	610	
50		1698	1595	1488	1363	1222			1074	920	760	584	USGPH

3.0 HP

PSI	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'	300'
0	2100	2080	2060	2030	1955	1870	1785	1700	1620	1485	1350	1215	1080
20	2051	2008	1930	1845	1760	1676	1588	1480	1372	1237		1102	912 603
30	1996	1917	1832	1747	1664	1571	1463	1355	1247			1112	928 629 409
40	1904	1819	1734	1652	1555	1447	1339	1231				1123	944 656 424 239
50	1806	1721	1640	1539	1431	1323	1215					1107	960 682 439 USGPH

2 YEARS WARRANTY

4" SUBMERSIBLE DEEP WELL PUMPS

Cast Iron

55 GPM **85 GPM**

55 GPM — 1.5 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0		4675	4250	3700	3000	2100							
20	4085	3490	2730	1470									
30	3385	2595	1155										
40	2460	840											
50	525												

US GPH

55 GPM — 2.0 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0		4780	4450	4110	3620	3040	2500	1445					
20	4348	3963	3446	2878	2260	1190							
30	3890	3359	2797	2140	935								
40	3272	2716	2020	680									
50	2635	1900	425										

US GPH

55 GPM — 3.0 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0		4800	4740	4490	4250	3950	3650	3300	2800	2300	1825		
20	4665	4418	4160	3860	3545	3150	2650	2186	1752				
30	4382	4115	3815	3493	3075	2575	2129	1533					
40	4070	3770	3440	3000	2500	2072	1314						
50	3725	3388	2925	2425	2015	1095							

US GPH

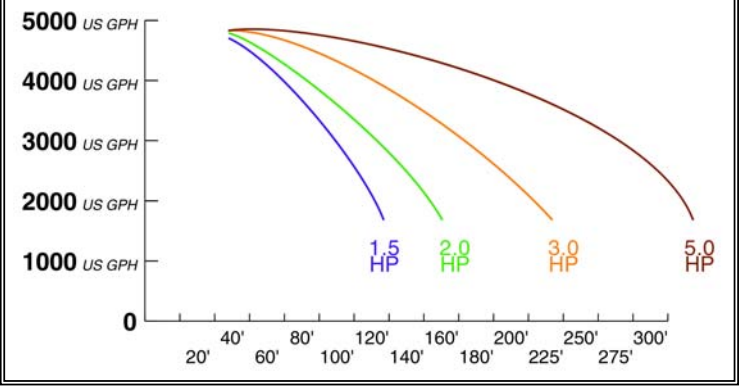
55 GPM — 5.0 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0		4820	4800	4740	4700	4550	4410	4250	4050	3840	3620	3380	3110
20	4782	4728	4655	4508	4362	4190	3987	3787	3610	3418	3153	2715	1892
30	4722	4633	4487	4338	4160	3956	3761	3582	3390	3175	2753	1964	
40	4610	4466	4314	4130	3924	3734	3553	3358	3142	2790	2035		
50	4445	4290	4100	3893	3708	3524	3326	3110	2734	2106			

US GPH

55 GPM Technical Information

MODEL	Stages	HP	Volts	Wire	Motor lead
105152	5	1.5	230	2	48"
105158	5	1.5	230	3	48"
105169	5	2.0	230	3	48"
105177	7	3.0	230	3	48"
105186	11	5.0	230	3	48"



85 GPM — 2.0 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0	7000	6250	5050	3800	2600	1300							
20	4675	3440	2210	910									
30	3260	2015	715										
40	1820	520											
50	325												

US GPH

85 GPM — 3.0 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0	7150	6750	6050	5400	4580	3730	3000	2250					
20	5855	5154	4325	3511	2775	1575							
30	5031	4198	3402	2663	1238								
40	4070	3292	2550	900									
50	3183	2438	563										

US GPH

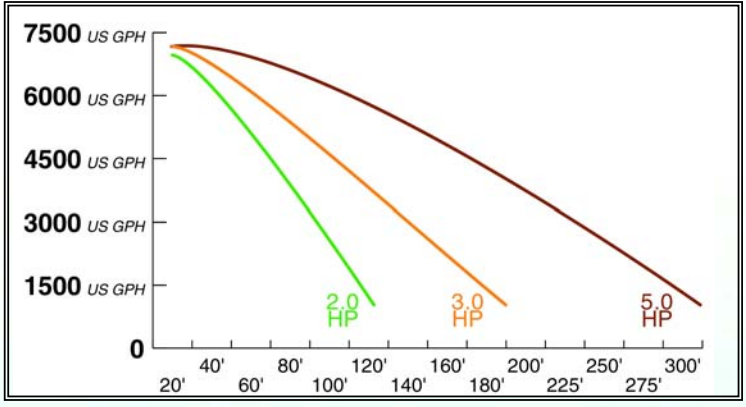
85 GPM — 5.0 HP

PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'
0	7150	7130	6950	6590	6160	5680	5200	4700	4200	3700	3120	2630	2000
20	6842	6461	6016	5536	5050	4550	4050	3561	3100	2708	2101		
30	6397	5944	5464	4975	4475	3975	3491	3042	2650	2151			
40	5872	5392	4900	4400	3900	3422	2983	2580	2076				
50	5320	4825	4325	3825	3352	2924	2504	2000					

US GPH

85 GPM Technical Information

MODEL	Stages	HP	Volts	Wire	Motor lead
105170	4	2.0	230	3	48"
105178	6	3.0	230	3	48"
105187	16	5.0	230	3	48"



SUBMERSIBLE DEEP WELL PUMPS

Accessories

Motors & Control boxes

With ground motor connections.

Larger models and sizes available upon request.

3 Wire Motors	2 Wire motors	HP.	Volt.	Phase	Control boxes
125225		1/3	115	1	***125325***
125226		1/3	230	1	***125326***
	125127	1/2	115	1	
125227		1/2	115	1	***125327***
	125128	1/2	230	1	
125228		1/2	230	1	***125328***
	125130	3/4	230	1	
125229		3/4	230	1	***125329***
	125132	1.0	230	1	
125235		1.0	230	1	***125335***
	125133	1.5	230	1	
125245		1.5	230	1	***125345***
125255		2.0	230	1	***125355***
125265		3.0	230	1	***125365***
125275		5.0	230	1	***125375***
125277		7.5	230	1	***125377***
125278		7.5	230	1	***125378***
125279		7.5	575	3	***125379***
125282		10	230	3	***125382***
125283		10	575	3	***125383***
125285		15	230	3	***125385***
125286		15	575	3	***125386***
125290		20	575	3	***125390***
125292		25	575	3	***125392***
125294		30	575	3	***125394***
125296		40	575	3	***125396***

Well caps

Cast and aluminium models available.

Prod. #	Diam. Well		Prod. #	Diam. Well	
150156	6”		**150179**	6”	Sealed

Well seals

Cast iron.

Prod. #	Well	Pipe	Material	Prod. #	Well	Pipe	Material
750927	4”	1”	C . I .	**750930**	6”	1¼”	C . I .
750928	4”	1¼”	C . I .	**750931**	5”	1”	C . I .
750929	6”	1”	C . I .				

Splice kits

Prod. #	Material	Qty. tubes	Qty connector	Fit size
150152	Heat shrink	3	3	#14, #12, #10
150143	Heat shrink	4	4	#14, #12, #10

Torque arrestor

Complete with:
two 2” stainless steel clamps for easier installation.

Prod. #	Casing size	Drop pipe size
150158	4”-8”	1” to 1¼”

SUBMERSIBLE DEEP WELL PUMPS

Accessories

Submersible cable with ground

Prod. #	Wire size	Prod. #	Wire size
150166	14-3	**150194**	10-4
150167	12-3	**150195**	8-4
150192	14-4	**150196**	6-4
150193	12-4		

Tank Tees

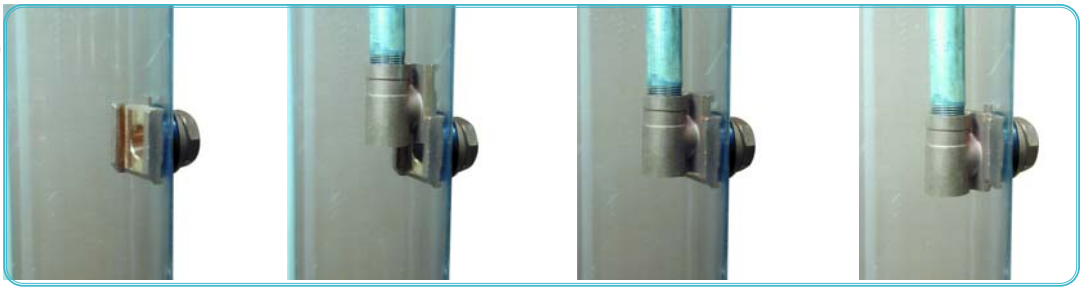
	Prod#	Size		Connection
Bronze	**650651**	1” NPT	long	2 drain ports 1/2” 2 accessories port 1/4” FNPT
Bronze	**650652**	1”NPT	short	2 drain port 1/2” 2 accessories ports 1/4” FNPT
Brass	**650662**	1” NPT	long	2 drain port 1/2” 2 accessories ports 1/4” FNPT
Bronze	**650665**			Tank T package

Miscellaneous

Prod.	Connection size			
150181	1 1/4” NPT	X	1”	Barb
150153	1/8”			Snifter valve
150175	1/4”			Snifter valve
150154	1/4”			Poly rope
150162	1/2”			Relief valve
650659	1/2”			Boiler valve
150134				Pumptec QD

SUBMERSIBLE DEEP WELL PUMPS

Accessories

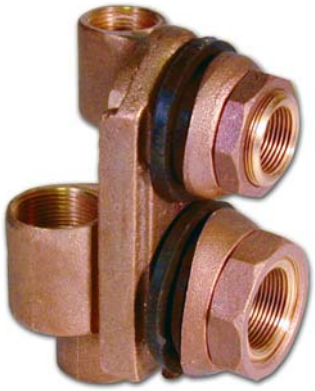


Pitless adaptors

150155	1”	Bronze
150176	1 ¼”	Bronze
150177	2”	Bronze
750850	1 ¼” X 1”	Bronze double

Installation steps

Slide the gasket (2) on the pitless threaded pipe (5).
Insert through the hole into the well pipe.
Insert the gasket (1) and screw the bolt (3) through outside of pipe.
Slide into part # 5.
Slide the top fixed on the upward part of the pitless adaptor (6).
Slide-in completely.



LOP pressure switch

Factory preset for 20 - 40 or 30 - 50 operating pressure

Rated for 1 HP / 115V.
or 1.5HP / 230V.

Available with barb, female and male connection.

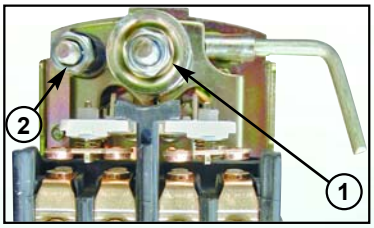
Selection chart

model	preset psi	connection
150159S	20 / 40	1/4” Female
150147S	30 / 50	1/4” Female

Shuts off the pump when water pressure is under 10 PSI. This situation may occur when the well is pumped down. This protects the pump from damage caused by a suction break.

Adjustment or modification of start/stop setting of pressure switch have to be done carefully. Turn adjustment nut 1 half turn at a time.

Turn nut 1 clockwise to raise start and stop pressure setting. Never turn nut 2. This will change the 20 PSI range between start and stop pressure and may damage your tank’s bladder or modify the efficiency of your water system. Check system operation after each adjustment.



2 YEARS WARRANTY

GENERAL UTILITY PUMPS

Designed for a maximum lift of 40'(12m), for emergency use.

1/12 HP

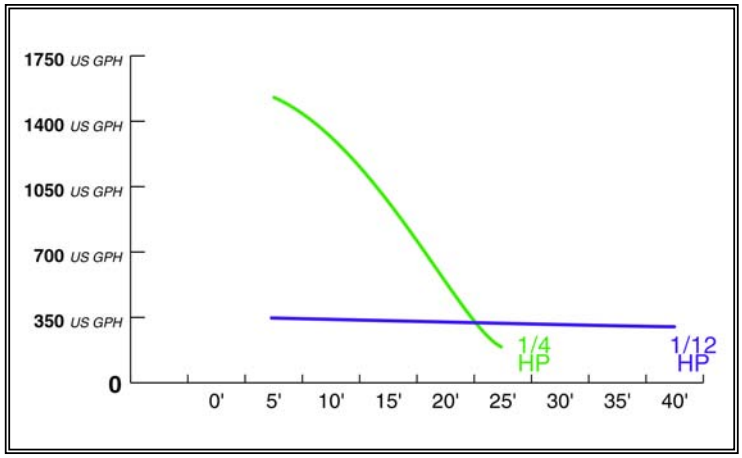
300308P

- ❑ 1/12 HP 115V 60Hz motor, brush type.
- ❑ Corrosion resistant pump body, easy to prime.
- ❑ 3/4" garden hose, suction and discharge.
- ❑ Accessories included: Garden hose and puddle scoop.
- ❑ 9' grounded power cord.
- ❑ Capacity up to 450 US GPH.
- ❑ This utility pump is designed to:
  - Empty water beds.
  - Empty washing machines.
  - Remove water from pool covers.
  - For dewatering around homes, farms and to empty stock tanks and transfer water.

USGPH	HEAD	LPH
300	40' 12	1125
320	20' 6.0	1210
350	5' 1.5	1335

300308P 1/12 HP

FRICTION LOSS IN PIPE NOT INCLUDED



Designed for a portable application and a maximum lift of 20' (6.0m) for domestic use, homes and cottages.

1/4 HP

300502
300503

USGPH	HEAD	LPH
200	25' 7.5	760
525	20' 6.0	1990
1000	15' 4.5	3785
1270	10' 3.0	4880
1525	5' 1.5	5770

300503-300502 1/4 HP

FRICTION LOSS IN PIPE NOT INCLUDED

300503 **Automatic**

300502 **Manual**

Water cooled continuous or automatic duty.
1/4 HP 115V 60 Hz with thermal overload protection.

- ❑ Pump body made of non-corrosive Noryl material.
- ❑ 1" NPT discharge garden hose adaptor.
- ❑ Bottom suction to 1/8" depth.
- ❑ 15' cable grounded power cord.
- ❑ Capacity up to 1525 US GPH.

GENERAL UTILITY PUMPS

WARRANTY 2 YEARS

1/4 HP
300507P

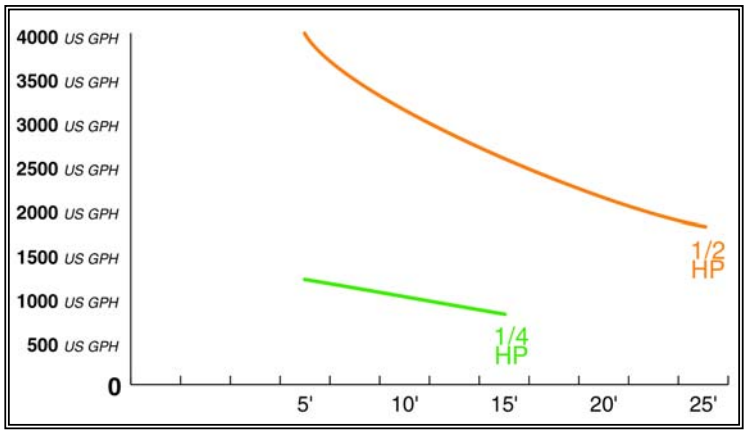
Designed for a portable application and a maximum lift of 15' (4.5m) for domestic use, homes and cottages.

- ❑ Water cooled continuous duty motor 1/4 HP 115V 60 Hz with automatic thermal overload protection.
- ❑ Pump body made of non-corrosive Noryl material.
- ❑ 1" NPT discharge garden hose adaptor, also included 3/4"and 1/2" barb.
- ❑ Bottom suction to 1/8" depth.
- ❑ 9' cable grounded power cord.
- ❑ For dewatering around homes.
- ❑ Capacity up to 1200 US GPH.

USGPH	HEAD	L P H
800	15' 4.5	3000
1000	10' 3.0	3750
1200	5' 1.5	4550

300507P 1/4 HP

FRICTION LOSS IN PIPE NOT INCLUDED



1/2 HP
300509P

Designed for a maximum lift of 25' (7.5m) to empty pool.

- ❑ Water cooled continuous duty motor 1/2 HP, 115V 60Hz with thermal and overload protection.
- ❑ Made of non-corrosive Noryl.
- ❑ 1 1/2" discharge.
- ❑ Recommended to empty pools and can also be used where volume and/or flow are extensive.
- ❑ Capacity up to 4000 US GPH.

USGPH	HEAD	L P H
1800	25' 7.5	6815
2150	20' 6.0	8140
2750	15' 4.5	10400
3000	10' 3.0	11350
4000	5' 1.5	15140

300509P 1/2 HP

FRICTION LOSS IN PIPE NOT INCLUDED

COMPLETE WITH:
- 1 1/2" check valve.
- 50' discharge hose.
- 1/4" X 12' poly rope.

GAS DRIVEN UTILITY PUMPS

1.5 HP
700808

Designed for a maximum vertical suction lift of 12' (3.65m) and a maximum vertical head of 100' (30.5m).

- ❑ 33CC cylinder.
- ❑ 2 stroke engine.
- ❑ Aluminium non-corrosive cast body for strength and durability.
- ❑ Stainless steel mechanical seal.
- ❑ Integrated handle for easy portability.
- ❑ 1" suction and discharge.
- ❑ Adaptors and strainer included.
- ❑ Built-in check valve in suction.
- ❑ Easy to prime body with open trash type impeller for better efficiency.
- ❑ Electronic ignition.
- ❑ 0.15 GAL (0,7L) tank capacity.
- ❑ (25:1) gas-oil mixture.
- ❑ Economic fuel consumption of 0.11 GPH.
- ❑ Lightweight and portable 10.3 Lbs (4,7 KG).

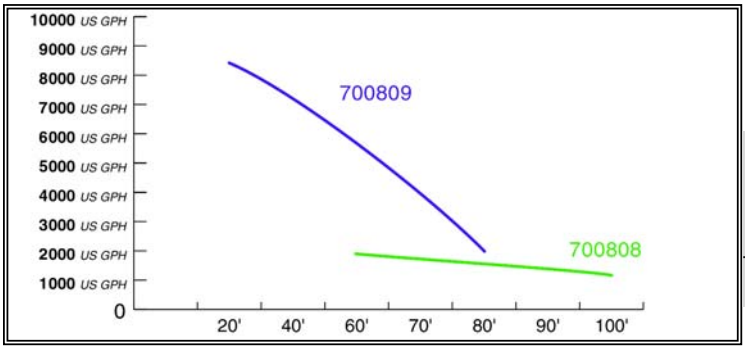
APPLICATIONS
SUMP DRAINAGE
LIVESTOCK WATERING
FORESTRY USE (FISHING AND HUNTING)
SWIMMING POOL MAINTENANCE
FILLING TANKS
IRRIGATION

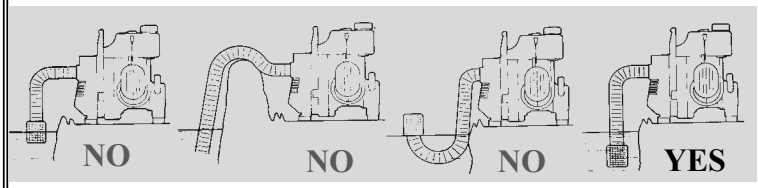
USGPH	HEAD	LPH
1140	100' 30.5	4300
1350	90' 27.5	5100
1565	80' 24.0	5900
1720	70' 21.0	6500
1875	60' 18.0	7100

700808 1.5HP

FRICTION LOSS IN PIPE NOT INCLUDED

6.5 HP
700809





USGPH	HEAD	LPH
2000	80' 24.5	7500
5700	60' 18.0	21500
7200	40' 12.0	27250
8400	20' 6.0	31800

700809 5.5 HP

FRICTION LOSS IN PIPE NOT INCLUDED

- ❑ 4 stroke engine.
- ❑ Aluminium non corrosive motor and pump casing.
- ❑ Stainless steel mechanical seal.
- ❑ Protective frame and support for easy portability.
- ❑ Built-in check valve.
- ❑ Easy to prime body with open trash type impeller for better efficiency.
- ❑ Electronic ignition.

CONDENSATE UTILITY PUMPS

1.45 AMP
310100

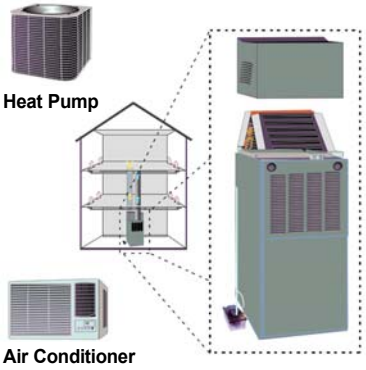
CONDENSATE PUMP

Designed to remove water or collect condensation from energy efficient cooling system.

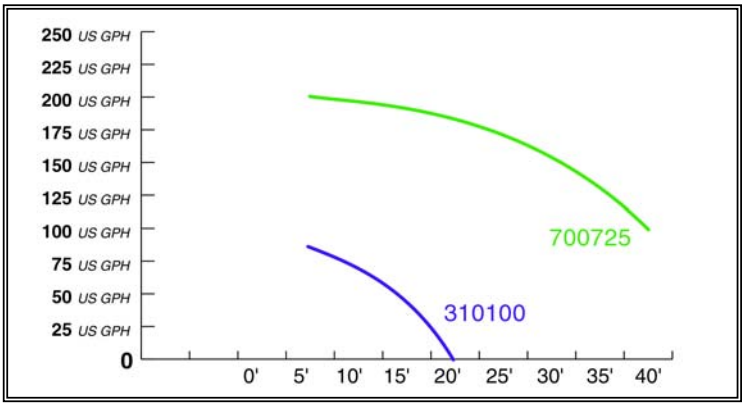
USGPH	HEAD	LPH
45	15' 4.5	170
70	10' 3.0	265
85	5' 1.5	320
95	1' 0.3	360
310100		1.45 AMP

FRICTION LOSS IN PIPE NOT INCLUDED

- ❑ ABS construction.
- ❑ Overflow safety switch.
- ❑ Thermally protected.
- ❑ Translucent base.
- ❑ 1/4" barb discharge with check valve.
- ❑ Ideal to pump liquid up to 185° F.
- ❑ Capacity 2 Quarts.



1/4" shaft
700725



DRILL PUMP

USGPH	HEAD	LPH
100	40' 12.0	375
130	35' 10.5	500
155	30' 9.0	585
185	20' 6.0	700
195	10' 3.0	740
200	5' 1.5	760
700725 with 1/4" drill at 2000 RPM		

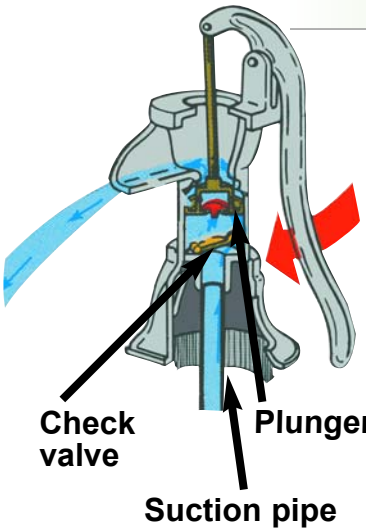
FRICTION LOSS IN PIPE NOT INCLUDED

Functions with any make of electrical drill (use 1/4" electric drill for optimum performance). May be used for many pumping and draining uses: aquariums, waterbeds, washing machines, etc.

- ❑ Easy to prime pump to 6 feet (2m).
- ❑ Made from high-strength thermoplastic.
- ❑ Auto lubricated shaft.
- ❑ Simply insert into any electrical drill.
- ❑ Capacity up to 220 US GPH (755 LPH)

2 WARRANTY YEARS

GENERAL UTILITY PUMPS



3" 700751

CISTERN PUMP

Designed for shallow well application depths to 25' (7.6m).

- ❑ Open spout design, made from heavy cast iron.
- ❑ Suction tapping for 1 1/4" drop pipe.
- ❑ Self drainage with handle, in "UP" position to prevent freezing.
- ❑ Moveable cap may be adjusted for wide range of handle positions.
- ❑ Ideal for campsites, parks, summer homes, residences, farms, cottages, picnic areas, fishing and hunting camps, and for decorative use as a lawn or patio ornament.

As the handle is pushed down causing the plunger to rise, water is discharged through the pump spout. The vacuum that develops in the cylinder below the plunger is filled with water from the suction pipe which connects the pump to the water source.

As the pump handle is raised, the plunger lowers, this causes the check valve to seat and trap water in the cylinder. The trap forces the plunger valve open allowing water to enter the cylinder area on the upper side of the plunger.

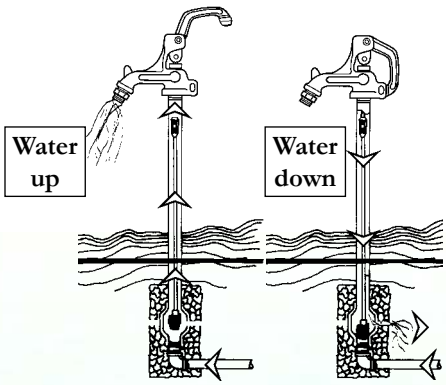
NONFREEZE YARD HYDRANTS
Ideal for livestock watering year round.

4 Feet 700761

6 Feet 700760

8 Feet 700758

10 Feet 700759



1. Select a yard hydrant with a bury depth 1 foot below the maximum frost level.
2. Dig a 2 foot trench, 2 feet deeper than the bury depth.
3. Set the yard hydrant on a firm base, such as concrete or cement block.
4. Connect to your water line.
5. Place 2 cubic feet of coarse gravel around the yard hydrant. Backfill remainder of the hole.

GENERAL UTILITY PUMPS

WARRANTY 2 YEARS

8 GPM

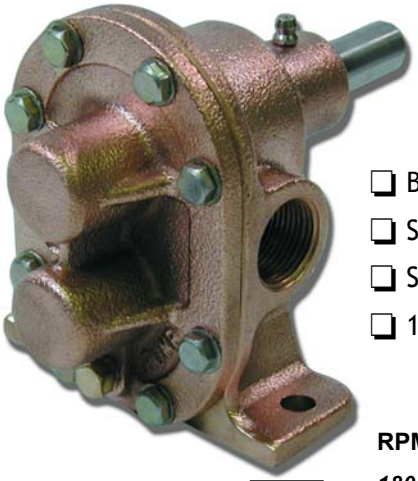
700710

GUZZLER PUMP

Designed as utility pump and jet pump primer.

- ❑ Hand pump with diaphragm.
- ❑ Constructed of Delrin with aluminium handle.
- ❑ Self priming.
- ❑ High capacity.
- ❑ Lightweight.
- ❑ 12 ft suction.
- ❑ Will not rust.
- ❑ Versatile and economic pump.
- ❑ Perfect for a variety of demanding applications.
- ❑ Additional accessories available.
- ❑ Pump up to 15Ft.
- ❑ 3/4" NPT ID, 1" NPT OD.

1/2 Inch 700720 — 3/4 Inch 700721 — 1 Inch 700722



GEAR PUMPS HIGH PERFORMANCE
Higher volume.
Higher pressure.

- ❑ Brass pump body.
- ❑ Stainless steel shaft.
- ❑ Stainless steel gears.
- ❑ 1/2", 3/4" and 1" NPT suction and discharge.

IDEAL FOR TRANSFER OF LIQUIDS

		0 PSI		25 PSI		50 PSI		75 PSI		100 PSI	
	RPM	HP	US GPH	HP	US GPH	HP	US GPH	HP	US GPH	HP	US GPH
1/2	*1800*	1/3	600	1/3	580	1/2	480	3/4	420	1.0	330
	1200	1/3	360	1/3	330	1/2	300	3/4	275	3/4	215
	900	1/3	300	1/3	280	1/3	240	1/2	210	3/4	160
3/4	*1800*	1/3	840	1/2	720	3/4	660	1.0	630	1.5	600
	1200	1/3	540	1/3	500	1/2	480	3/4	440	1.0	400
	900	1/3	420	1/3	375	1/3	360	1/2	330	3/4	300
1	*1800*	1/2	960	1.0	870	1.0	780	1.5	720	2.0	630
	1200	1/2	720	3/4	580	3/4	520	1.0	480	1.5	430
	900	1/3	480	1/2	435	1/2	390	3/4	360	1.0	320

2 YEARS WARRANTY

EMERGENCY BACK-UP PUMPS

Sump Buddy

BACK UP SUMP PUMP PROTECTION
A must for every home owner with municipal water and a need for a conventional type sump pump.

- ❑ Works from municipal water pressure.
- ❑ Easy to install.
- ❑ Non corrosive.
- ❑ Maximum lift of 15' (4.5m).
- ❑ Reliable and safe.

SUMP BUDDY is easily connected to the municipal water supply line and to your existing conventional sump pump discharge line. In the event of flooding during a power outage, the rising water, in the sump, will activate an automatic control valve which will start the system.

IT'S WATER PUMPING WATER NO ELECTRICITY REQUIRED NO BATTERY REQUIRED

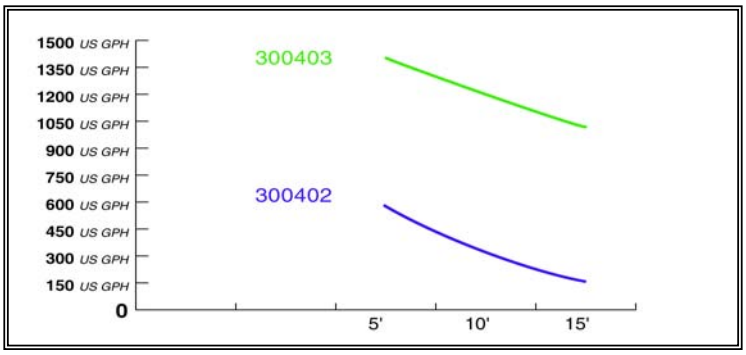
300402

Water under pressure will flow through the SUMP BUDDY which creates a vacuum and causes the water in the sump to be drawn out into the discharge line.

USGPH	HEAD	L P H
158	15' 4.5	600
317	10' 3.0	1200
581	5' 1.5	2200

300402 at 60 PSI

FRICTION LOSS IN PIPE NOT INCLUDED



12 Volt

Activates during power outage or pump failure
Designed for a permanent auxilliary application for submersible sump pump or column sump pump.

- ❑ To evacuate water during power outage, primary pump failure or when volume is too high for primary pump to handle.
- ❑ 24 hours fast recharge.
- ❑ Included with system:
  - Charger battery case.
  - Mechanical float switch.
  - Check valve.
- ❑ Performance charts.
  - 7 HRS to 5' (1.5m)
  - 9 HRS to 10' (3.0m)
  - 10 HRS to 15' (4.5m)

300403
AUTOMATIC OPERATION

USGPH	HEAD	L P H
1020	15' 4.5	3850
1200	10' 3.0	4550
1400	5' 1.5	5300

300403

FRICTION LOSS IN PIPE NOT INCLUDED

SUBMERSIBLE EFFLUENT PUMPS

WARRANTY 2 YEARS

1/2 HP

300620
300622
300750

Multi-purpose effluent pump will fill the need in most sump applications.

To pump effluent as a permanent installation pump.

Designed for a maximum lift of (4.5m) 15', for domestic use, homes, cottages and farms.

- ❑ 1/2 HP 115V 60Hz motor, water cooled, with automatic thermal and overload protection.
- ❑ Brass non-clog type impeller. Will not corrode, maintains pumping performance, year after year.
- ❑ Pump body made of specially treated and rugged cast iron, 1 1/2" suction and discharge, 3/4" solid handling capabilities.
- ❑ Corrosion resistant construction.
- ❑ Standard stainless steel, mechanical rotary seal.
- ❑ Mechanical type switch, 15A, tested up to 1 million cycles.
- ❑ Vertical switch 15A 60Hz. Ideal for restricted sump pits.
- ❑ 20' cord piggyback type.
- ❑ Carrying handle.
- ❑ Capacity up to 3300 USGPH.

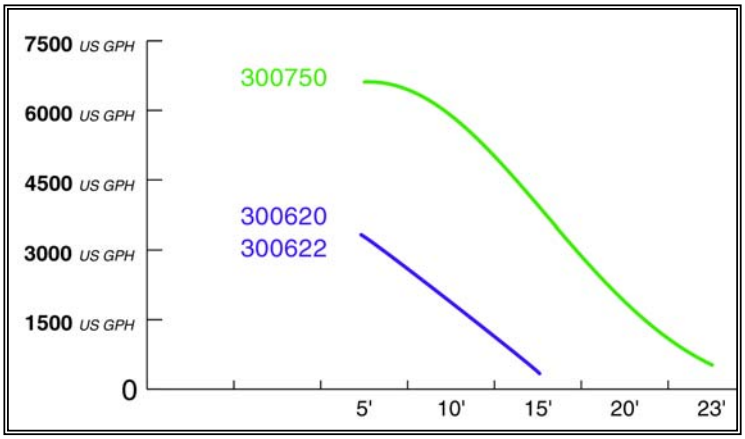
300622 **1/2HP**

300620 **1/2HP**

USGPH	HEAD	L P H
360	15' 4.5	1350
1900	10' 3.0	7200
3300	5' 1.5	12500

300620-22 1/2 HP

FRICTION LOSS IN PIPE NOT INCLUDED



Lifetime WARRANTY by BURCAM

USGPH	HEAD	LPH
400	29' 8.9	1500
2400	25' 7.5	9100
4375	20' 6.0	16600
6100	15' 4.5	23100
7000	10' 3.0	26500
7200	5' 1.5	27300

300750 1/2 HP

FRICTION LOSS IN PIPE NOT INCLUDED

CONTRACTORS SERIES

Designed for a permanent installation and a maximum lift of 29' (8.9 m)

- ❑ Stainless steel mechanical rotary seal
- ❑ 2" NPT discharge
- ❑ Oil filled motor
- ❑ 20' cord piggyback type
- ❑ Capacity up to 7200 US GPH.

300750 **1/2HP**

2 YEARS WARRANTY

SUBMERSIBLE SUMP PUMPS

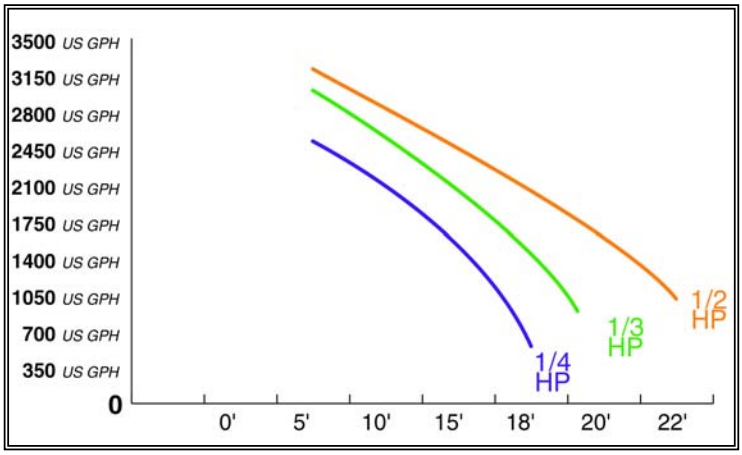
1/4 HP — 300508P 300601
1/3 HP — 300600P 300610
1/2 HP — 300700P 300710

Designed for a permanent installation and a maximum lift of 18' (5.5m) to 22'(6.7m) for domestic use, homes, cottages and farms.

300508P **1/4HP**
300600P **1/3HP**
300700P **1/2HP**

- ❑ Water cooled continuous duty motor with thermal and overload protection
- ❑ Pump body made of non-corrosive Noryl material
- ❑ 1 1/2"discharge, with 1 1/4" reducer.
- ❑ Automatic mechanical switch, independent and adjustable or vertical float switch, ideal for restricted sump pits.
- ❑ Noryl impeller (non-corrosive).
- ❑ 9' grounded power cable.
- ❑ Capacity from 2500 US GPH up to 3200 US GPH.

300601 **1/4HP**
300610 **1/3HP**
300710 **1/2HP**



USGPH	HEAD	LPH
550	18' 5.5	2080
1550	15' 4.5	5875
2100	10' 3.0	7950
2500	5' 1.5	9465

300508P 300601 1/4 HP

FRICTION LOSS IN PIPE NOT INCLUDED

USGPH	HEAD	LPH
1450	18' 5.5	5500
2000	15' 4.5	7800
2500	10' 3.0	9500
3000	5' 1.5	11350

300600P 300610 1/3 HP

FRICTION LOSS IN PIPE NOT INCLUDED

USGPH	HEAD	LPH
1000	22' 6.7	3775
1600	20' 6.0	6050
2300	15' 4.5	8700
2850	10' 3.0	10800
3200	5' 1.5	12100

300700P 300710 1/2 HP

FRICTION LOSS IN PIPE NOT INCLUDED

SUBMERSIBLE SUMP PUMPS

3 YEARS WARRANTY

1/3 HP
300618
300628

1/2 HP
300718
300728

Designed for a permanent installation and a maximum lift of 20' (6.0m) to 25' (7.5m) for light commercial, residential and farm use.

- ❑ Oil cooled continuous duty motor 115V 60Hz with thermal overload protection.
- ❑ Pump body made of specially treated and rugged cast iron.
- ❑ 1 1/2" discharge, with 1 1/4" reducer included.
- ❑ Mechanical switch type, automatic, independant and adjustable. 15A 60Hz. or vertical float switch, ideal for restricted sump pits.
- ❑ 9' cable grounded cord.
- ❑ Stainless steel bottom suction plate.
- ❑ Capacity from 2600 US GPH up to 3000 US GPH.

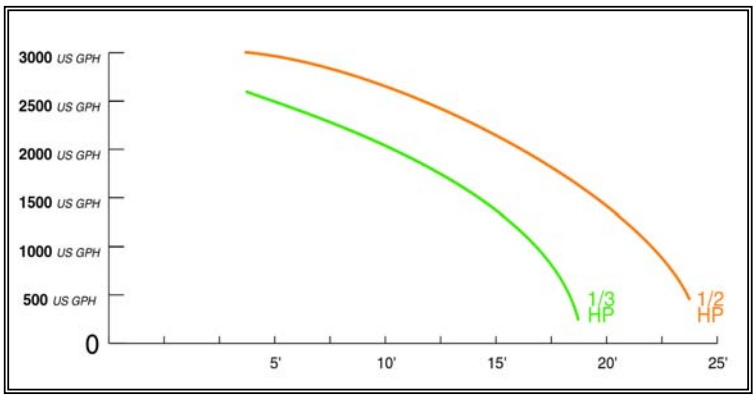
300628 **1/3HP**
300718 **1/2HP**

USGPH	HEAD	LPH
250	20' 6.0	1000
1600	15' 4.5	6000
2100	10' 3.0	8000
2600	5' 1.5	9800

300618 300628 1/3 HP

FRICTION LOSS IN PIPE NOT INCLUDED

300618 **1/3HP**
300728 **1/2HP**



USGPH	HEAD	LPH
475	25' 7.5	1800
1500	20' 6.0	5700
2300	15' 4.5	8600
2700	10' 3.0	10200
3000	5' 1.5	11100

300718 300728 1/2 HP

FRICTION LOSS IN PIPE NOT INCLUDED

SUBMERSIBLE SUMP PUMPS

1/2 HP

300505
300510

300505 **1/2HP**

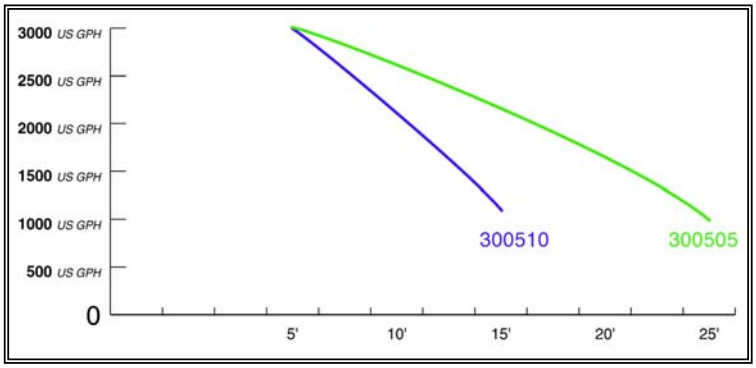
Designed for a permanent installation and a maximum lift of 25' (7.5m) for light commercial and residential use. Great for water transfer from flooded areas.

- ❑ Oil cooled continuous duty motor 15A 60Hz, with automatic thermal and overload protection.
- ❑ Cast iron and stainless steel construction.
- ❑ 1 1/2" NPT discharge, with 1 1/4" reducer.
- ❑ Automatic mechanical switch, independent and adjustable.
- ❑ Cast iron impeller.
- ❑ 9' grounded electric cable.
- ❑ Capacity up to 3500 US GPH.

USGPH	HEAD	LPH
1000	25' 7.5	3800
1650	20' 6.0	6250
2150	15' 4.5	8125
2600	10' 3.0	9850
3000	5' 1.5	11350

300505 1/2 HP

FRICTION LOSS IN PIPE NOT INCLUDED



Designed for a permanent installation and maximum lift of 15' (4.5m) for light commercial, residential and farm use. Great for water transfer from flooded areas.

- ❑ Oil cooled continuous duty motor 115V 60Hz, with automatic thermal and overload protection.
- ❑ Made of non-corrosive material pump body.
- ❑ 1 1/4" NPT discharge adaptor.
- ❑ Stainless steel mechanical rotary seal.
- ❑ 9' grounded cable, piggyback cord.
- ❑ Capacity up to 3000 US GPH.

USGPH	HEAD	L P H
1100	15' 4.5	4165
2100	10' 3.0	7950
3000	5' 1.5	11350

300510 1/3 HP

FRICTION LOSS IN PIPE NOT INCLUDED

300510 **1/2HP**

SUBMERSIBLE SUMP PUMPS

WARRANTY 2 YEARS

1/3 HP

300608
300800

Designed for a permanent installation and a maximum lift of 20' (6.0m) for residential use.

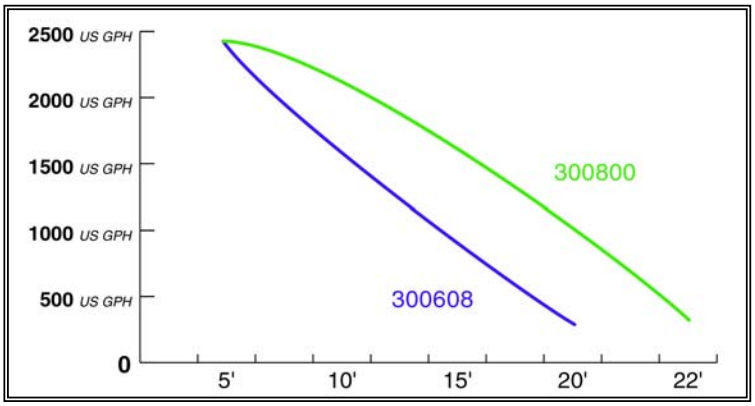
- ❑ Oil cooled continuous duty motor 15A 60Hz, with thermal and overload protection.
- ❑ Cast iron construction.
- ❑ 1 1/2" NPT discharge.
- ❑ Adjustable automatic mechanical switch.
- ❑ Noryl impeller.
- ❑ 9' grounded electric cable.
- ❑ Capacity up to 3500 US GPH.

300608 **1/3HP**

USGPH	HEAD	LPH
300	20' 6.0	1100
900	15' 4.5	3400
1600	10' 3.0	6000
2400	5' 1.5	9000

300608 1/3 HP

FRICTION LOSS IN PIPE NOT INCLUDED



Designed for a permanent installation and a maximum lift of 22' (6.7m) for residential use.

- ❑ Oil cooled continuous duty motor 15A 60Hz, with thermal and overload protection.
- ❑ Polypropylene pump body.
- ❑ 1 1/2" NPT discharge.
- ❑ Ideal for restricted sump pits.
- ❑ Automatic diaphragm switch.
- ❑ Nylon impeller + 30% GF.
- ❑ 10' grounded electric cable.
- ❑ Capacity up to 2400 US GPH.

300800 **1/3HP**

USGPH	HEAD	LPH
320	22' 6.7	1210
1020	20' 6.0	3860
1590	15' 4.5	6020
2110	10' 3.0	7990
2400	5' 1.5	9085

300800 1/3 HP

FRICTION LOSS IN PIPE NOT INCLUDED

SUBMERSIBLE SUMP & SEWAGE PUMPS

Available on automatic 300 & 400 pump series

230 volts

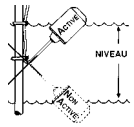
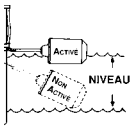
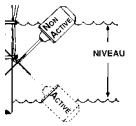
10'/90⁰ 450478

115 volts

10'/90⁰ 450453
15'/90⁰ 450467
20'/90⁰ 450468
10'/30⁰ 450461
rev 10'/90⁰ 450462

Mechanical type switch, 15A, tested up to 1 million cycles.

- ❑ Universal type with piggyback, 115V, 15 A.
- ❑ Suitable for all make of submersible pumps.
- ❑ Selection chart.

model	*angle of action*	*cord length*	
450453	*90⁰*	*10'*	
450467	*90⁰*	*15'*	
450468	*90⁰*	*20'*	
450461	*30⁰*	*10'*	
450462	*90⁰*	*10'*	
	Reverse action		

115 volts

450446

Available on most 300 & 400 pump series !!!

Vertical type switch, 15A, tested up to 1 million cycles. *Ideal for restricted sump pits.*

Fix the switch to the discharge line (450446) or on the pump (450447) using the enclosed clamp or screws.

The clamp should be mounted approximately 17" above the base of the pump.

The minimum and maximum water level adjustments are pre-adjusted at the factory.

You may change the adjustment by raising or lowering the position of the metal stoppers.

COLUMN SUMP PUMPS

1 YEAR WARRANTY

1/3 HP

300530
300381

These domestic sump pumps are suitable for applications where the total vertical distance (head) does not exceed 15' (4.5m). Designed for residential homes. Maximum water temperature 125°F / 52°C. Designed as an economic and efficient means of protecting homes against water damage through seepage, where there is no natural draining.

300530 **1/3HP**

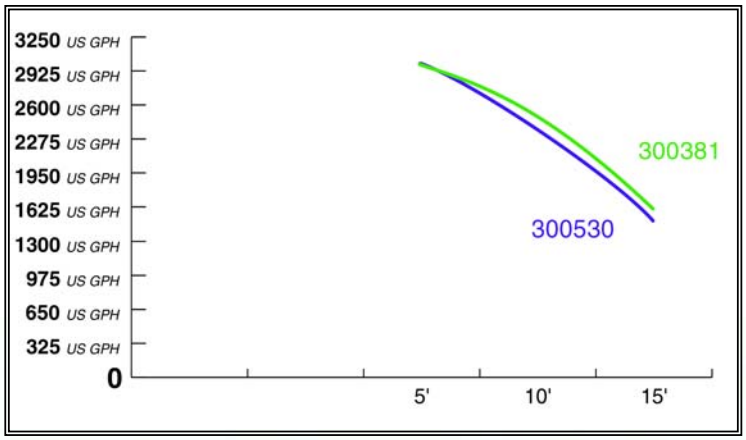
- ❑ 115V 60Hz motor.
- ❑ Thermal and overload motor protection.
- ❑ Bearing to bearing motor.
- ❑ Corrosion-resistant vinyl column and drive shaft.
- ❑ Stainless steel motor shaft and sintered bronze bearing.
- ❑ Free floating drive coupling reduces motor bearing wear.
- ❑ Top intake reduces chances of clogging.
- ❑ Polypropylene corrosion-resistant base.
- ❑ 1 1/4" NPT discharge.
- ❑ 9' grounded power cord.
- ❑ Capacity up to 3000 US GPH

300381 **1/3HP**

USGPH	HEAD	L P H
1500	15' 4.5	5600
2400	10' 3.0	9000
3000	5' 1.5	11300

300530 1/3 HP

FRICTION LOSS IN PIPE NOT INCLUDED



- ❑ Cast iron base

USGPH	HEAD	L P H
1600	15' 4.5	6100
2500	10' 3.0	9500
3000	5' 1.5	11300

300381 1/3 HP

FRICTION LOSS IN PIPE NOT INCLUDED

SUBMERSIBLE SUMP & SEWAGE PUMPS

Accessories

MODEL 350354

- ❑ 1 1/4” X 20’ sump pump drain hose kit.
- ❑ Adaptor and clamps included.

350354

MODEL 350375

- ❑ 1 1/2” X 24’ sump pump drain hose kit.
- ❑ Adaptor and clamps included.

MODEL 350445

- ❑ Top mounting top switch.
- ❑ Specially designed for our Column sump pumps (300530,300535).

350445

350363

350353

MODEL 350363

- ❑ Fits 1 1/2”- 2” discharge sump pumps.
- ❑ Designed with 1 1/2” drain kit barb fitting and 2” ABS pipe fitting.

MODEL 350353

- ❑ Fits 1 1/4”- 1 1/2” discharge sump pumps.
- ❑ Designed with 1 1/4” drain kit barb fitting and 1 1/2” ABS pipe fitting.

350362

450457

MODEL 350362

- ❑ Union sump pump check valve to connect 1 1/4” to 1 1/2” discharge pipe.

MODEL 450457

- ❑ Union sewage check valve to connect 2” discharge pipe.

2 YEARS WARRANTY

LAUNDRY TUB PUMPS

1/3 HP
300514W
300315W

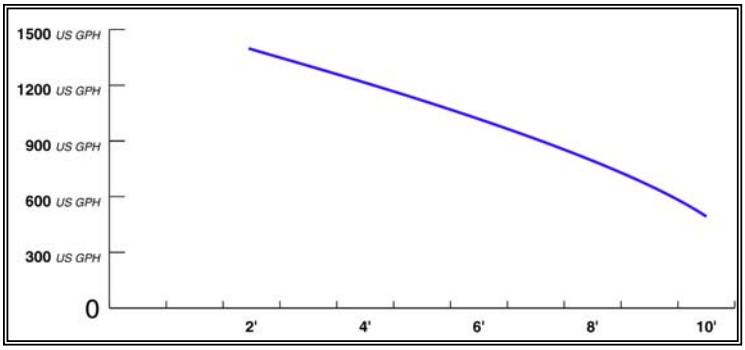
300514W **1/3HP**
Automatic operation

USGPH	HEAD	LPH
500	10' 3.0	1900
800	8' 2.4	3000
1020	6' 1.8	3850
1200	4' 1.2	4550
1400	2' 0.6	5300

300315W 300514W 1/3HP

FRICTION LOSS IN PIPE NOT INCLUDED

Designed for a maximum lift of 10' (3.0m) to handle normal waste water from domestic washing machines, bar sinks and all waste water not containing solids. Designed for a permanent installation. To be installed directly under tub strainer. Takes no floor space.



- ❑ 115V 60Hz motor. Body pump Noryl, corrosion resistant.
- ❑ Automatic switch starts motor when water enters in the pump body.
- ❑ Mounts directly to tail piece of laundry tub.
- ❑ Fits under wet bars, kitchenettes, vanities and utility sinks. Complete self-contained unit.
- ❑ Thermal and overload protection.
- ❑ Allows sink installation without breaking concrete.
- ❑ No trap or inlet piping required.
- ❑ No vent connection required.
- ❑ Maximum water temperature 140º F (60ºC).
- ❑ Capacity up to 1400 US GPH.

300316HH
Automatic kit

300315W **1/3HP**
Manual operation

2 YEARS WARRANTY

SUBMERSIBLE SEWAGE PUMPS

4/10 HP
400505

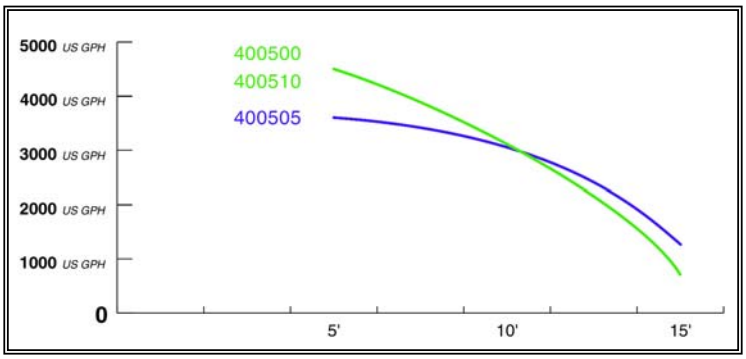
These pumps are designed for permanent installation and a maximum lift of 15' (4.5m) for homes and cottages, and are also suitable for raw sewage applications where the total head requirements do not exceed 15 feet.

To be used in basements, washrooms and laundry tubs.

USGPH	HEAD	L P H
1260	15' 4.5	4775
3060	10' 3.0	11600
3600	5' 1.5	13600

400505 4/10HP

FRICTION LOSS IN PIPE NOT INCLUDED



USGPH	HEAD	L P H
720	15' 4.5	2725
3120	10' 3.0	11800
4500	5' 1.5	17000

400500 1/2 HP

FRICTION LOSS IN PIPE NOT INCLUDED

1/2 HP
400500
400510

- ❑ 115V 60 Hz. motor oil filled with automatic thermal and overload protection.
- ❑ Vortex impeller, clog-free type, made from Noryl, will not corrode, maintains pumping performance, year after year.
- ❑ Pump body made from rugged cast iron, 2" suction and discharge.
- ❑ Standard stainless steel mechanical rotary seal.
- ❑ Mechanical switch type 15A tested for 1 million cycles.
- ❑ SJTW, 9' cord, piggyback cord type.
- ❑ Capacity from 3600 US GPH up to 4500 US GPH.

400510 **1/2HP**

SUBMERSIBLE SEWAGE PUMPS

WARRANTY 2 YEARS

1/2 HP 400401T *115V*

3/4 HP 400405T *115V*

1.0 HP 400406T *230V*

2.0 HP 400409T *230V*

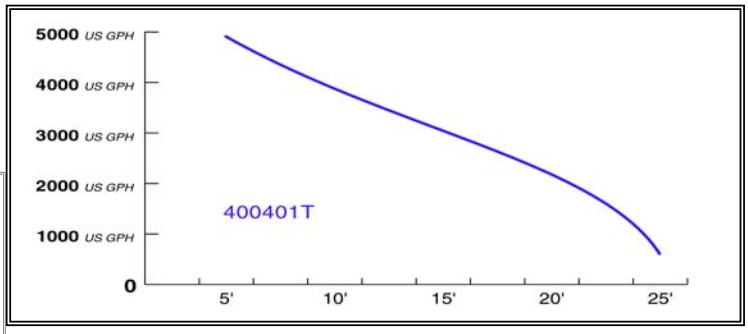
HEAVY DUTY SEWAGE PUMPS

400401T **1/2HP**

USGPH	HEAD	LPH
600	25' 7.5	2275
2200	20' 6.0	8325
3000	15' 4.5	11350
3900	10' 3.0	14765
4900	5' 1.5	18550

400401T 1/2 HP

FRICTION LOSS IN PIPE NOT INCLUDED



Designed for a permanent installation and a lift of 25' (7.5m) to a maximum of 40' (12.0m) for commercial, residential use, homes and cottages. These submersible sewage pumps are designed and suitable for raw sewage applications where the total head requirements do not exceed 40 feet.

- ❑ 115V and 230V 60Hz motor with automatic thermal overload protection.
- ❑ Pump body made of stainless steel and cast iron complete with carrying handle.
- ❑ Vortex impeller, clog-free type, made from cast iron.
- ❑ 2" suction and discharge pipe. Solid sewage handling capabilities.
- ❑ Bottom base suction with cast iron grip plate.
- ❑ Independent mechanical switch type. (*Some models need specific switch, sold separately*).
- ❑ SJTW cord piggyback type.
- ❑ Capacity from 4900 US GPH up to 10200 US GPH.

USGPH	HEAD	LPH
600	25' 7.5	2275
1500	20' 6.0	5775
2400	15' 4.5	9100
3300	10' 3.0	12500
4200	5' 1.5	15900

400405T 3/4 HP

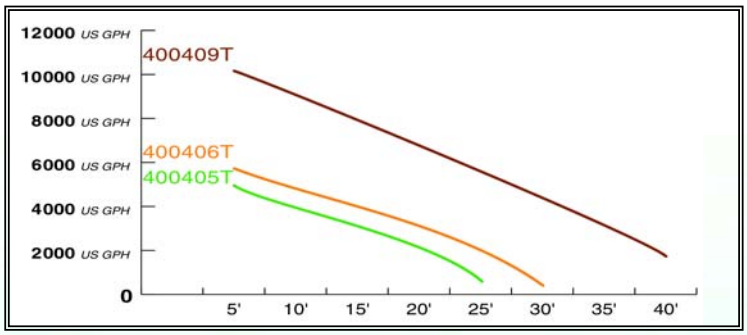
FRICTION LOSS IN PIPE NOT INCLUDED

USGPH	HEAD	LPH
400	35' 10.5	1515
2100	25' 7.5	7950
3000	20' 6.0	11350
3900	15' 4.5	14765
4800	10' 3.0	18170
5700	5' 1.5	21575

400406T 1.0 HP

FRICTION LOSS IN PIPE NOT INCLUDED

400405T **3/4HP**
400406T **1.0HP**
400409T **2.0HP**



USGPH	HEAD	LPH
1800	40' 12.0	6825
4200	30' 9.0	15900
5400	25' 7.5	20050
6600	20' 6.0	25000
7800	15' 4.5	29525
9000	10' 3.0	34070
10200	5' 1.5	38610

400409T 2.0 HP

FRICTION LOSS IN PIPE NOT INCLUDED

SEWAGE TANK KITS

1/2HP 400420 400430 400411T

4/10HP 400419T

400419T **4/10HP**
Pre-assembled

Designed for a permanent installation and a maximum lift of 25' (7.5m) for residential use, homes and cottages.

- ❑ Non corrosive fiberglass cover.
- ❑ 18" x 30" polyethylene heavy duty basin.
- ❑ 3" and 2" adaptor "Aquaflex" gasket for discharge pipe. Can be installed with 2" or 3" pipe.
- ❑ 3" side vent to facilitate cover dismantling to service the pump.
- ❑ "Aquaflex" gasket for a perfect seal of the power cables.
- ❑ 4" "Aquaflex" gasket for sewage line.
- ❑ 2" sewage check valve included.

450448
Basin 18" X 30"

400420 **1/2HP**
Not assembled
400430 **1/2HP**
Pre-assembled

400411T **1/2HP**
Not assembled

PUMP FEATURES:

- **400419T:** 4/10 HP, 115V 60 Hz. motor oil filled with automatic thermal and overload protection. Capacity up to 3600 US GPH. *Pump # 400505*
- **400411T:** 1/2HP 115V 60 Hz. motor oil filled with automatic thermal and overload protection. Capacity up to 4900 US GPH. *Pump # 400401T*
- **400420:** 1/2HP 115V 60 Hz. motor oil filled with automatic thermal and overload protection. Mechanical or vertical switch. Capacity up to 4500 US GPH. *Pump # 400500*
- **400430:** Same as 400420 pre-assembled. *Pump # 400500*

SUBMERSIBLE SEWAGE PUMPS

WARRANTY 2 YEARS

3/4 HP 400416T 115V

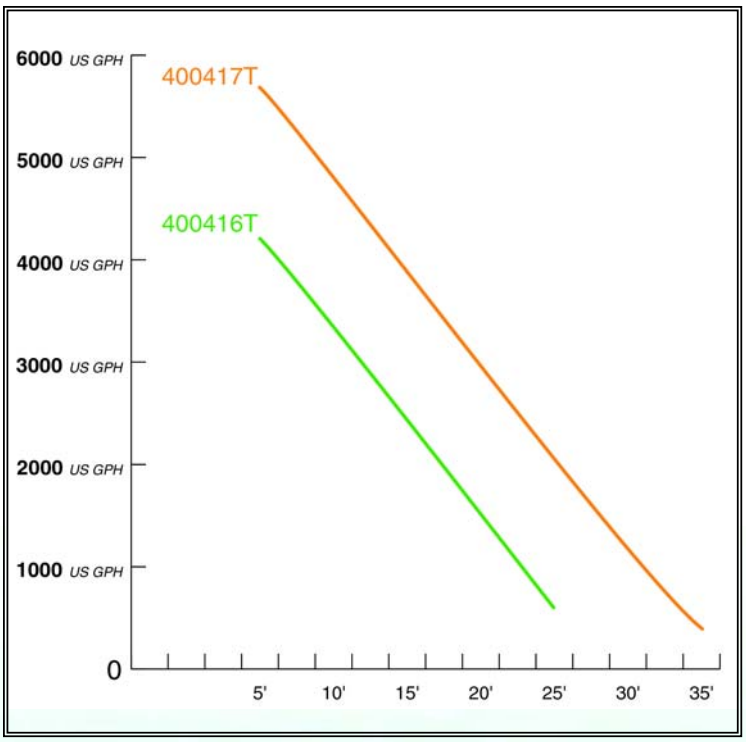
1.0 HP 400417T 230V

GRINDER SEWAGE PUMPS

Designed for a maximum lift of 35' (10.5m) for homes, cottages, farms and commercial applications. These submersible sewage pumps are designed and suitable for raw sewage applications where the total head requirements do not exceed 35 feet.

- ❑ 115V or 230V 60Hz motor with automatic thermal overload protection, oil filled base.
- ❑ Stainless steel and cast iron construction, complete with carrying handle.
- ❑ Grinder designed impeller made from cast iron.
- ❑ 2" suction and discharge pipe. Solid sewage handling capabilities.
- ❑ Bottom suction base with cast iron grip plate.
- ❑ SJTW 15' cord, piggyback type.
- ❑ Mechanical switch not included.
- ❑ Capacity from 1400 US GPH, up to 5700 US GPH.

450447G **Impeller**



USGPH	HEAD	LPH
600	25' 7.5	2275
1500	20' 6.0	5700
2400	15' 4.5	10100
3300	10' 3.0	12500
4200	5' 1.5	15900

400416T 3/4 HP

FRICTION LOSS IN PIPE NOT INCLUDED

USGPH	HEAD	LPH
400	35' 10.5	1500
1100	30' 9.0	4175
2100	25' 7.5	7950
3000	20' 6.0	11350
3900	15' 4.5	14765
5700	5' 1.5	21575

400417T 1.0 HP

FRICTION LOSS IN PIPE NOT INCLUDED

SUBMERSIBLE SEWAGE PUMPS

1/2 HP

400550

CONTRACTOR SERIES

LIFETIME WARRANTY SEWAGE PUMP

Designed for a permanent installation for residential use, homes and cottages.

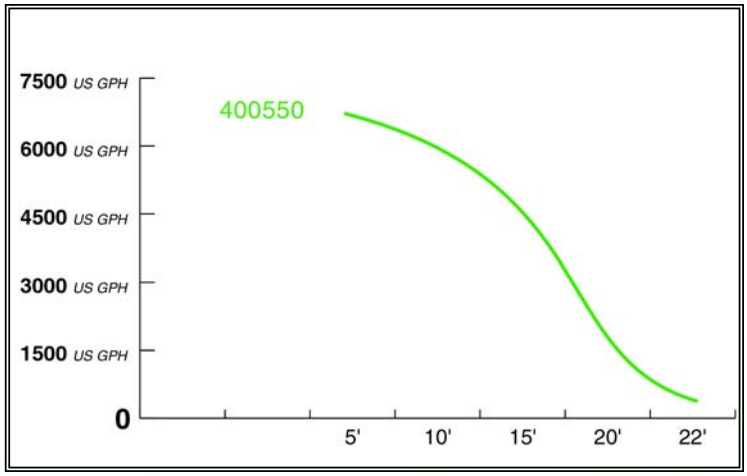
This submersible sewage pump is designed and suitable for raw sewage applications where the total head requirement does not exceed 22 feet.

- ❑ 115V motor oil filled with automatic thermal and overload protection.
- ❑ Heavy duty motor for maximum reliability. Rugged cast iron motor housing.
- ❑ Noryl impeller, clog-free type.
- ❑ Stainless steel mechanical rotary seal.
- ❑ 2" suction and discharge.
- ❑ Pump body made from rugged cast iron.
- ❑ Mechanical switch type, 15A tested for 1 million cycles.
- ❑ SJTW, 20' piggyback cord type.
- ❑ Capacity up to 6500 US GPH.

USGPH	HEAD	LPH
400	22' 6.7	1500
1500	20' 6.0	5700
5000	15' 4.5	18900
5800	10' 3.0	22000
6700	5' 1.5	25300

400550 1/2 HP

FRICTION LOSS IN PIPE NOT INCLUDED



BURCAM
WWW.BURCAM.COM

SUBMERSIBLE SEWAGE EASY FLUSH

WARRANTY 2 YEARS

1/2 HP

450475

PRACTICAL INFORMATIONS

Weight .....80 Lbs, 36 Kg
Width .....24 1/2”
Length .....40 1/4”
Height .....20 3/4”
Base Height .....5 1/2”

EASY FLUSH SYSTEM

Designed to build up a complete washroom.
No need to destroy walls and concrete floors.

CAN BE INSTALLED ALMOST ANYWHERE. . .

- ❑ Accommodates vanity, shower, bath and humidifier.
- ❑ Can be installed free standing on any level surface and all piping and basin can be hidden behind a wall and under the floor (2X6).
- ❑ Perfect for basements, family rooms, additions, warehouses, factories and garages.
- ❑ Reduces construction cost.

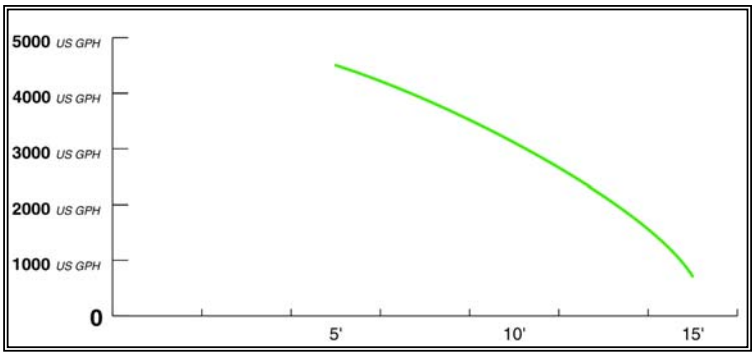
COMES COMPLETE WITH ALL PARTS. . .

- ❑ Polyethylene basin and lid.
- ❑ 2” solid sewage pump 1/2HP.
- ❑ 2” check valve.
- ❑ 2” discharge plastic pipe and adaptor.
- ❑ Floor flange and wax seal.
- ❑ Aquaflex 2” pump discharge gasket.
- ❑ Aquaflex 2” additionnal fixtures gasket.
- ❑ Aquaflex 3” vent gasket.
- ❑ Aquaflex 2 wire seal.
- ❑ Hardware and step by step instructions.

USGPH	HEAD	L P H
720	15’ 4.5	2725
3120	10’ 3.0	11800
4500	5’ 1.5	17000

400500E 1/2HP

FRICTION LOSS IN PIPE NOT INCLUDED



TYPICAL HIDDEN SOLUTION

- ❑ Easy to install.
- ❑ Quiet and efficient.
- ❑ To be used with any conventional toilet cabinets.
- ❑ No chemical product required.
- ❑ 2” solid handling.
- ❑ Clogfree vortex impeller.
- ❑ Basin made of polyethylene.

2 WARRANTY YEARS

SHALLOW WELL CAST IRON JET PUMPS

1/2 HP
506121S
506132S
506120S

3/4 HP
506221S
506232S
506220S

Shallow well pumps designed for water levels up to 25 feet.
Recommended for home, cottage and farm applications.

- ❑ TEFC motor 115/230V 60Hz. Totally enclosed, with thermal and overload protection.
- ❑ Cast iron pump body.
- ❑ Self priming due to design and large pump body.
- ❑ Continuous duty capacitor, to eliminate starting wear.
- ❑ Stainless steel shaft.
- ❑ Long life and high performance Noryl impeller.
- ❑ Built-in ejector.
- ❑ Maximum pressure of 65 PSI (1/2HP) and 70 PSI (3/4HP).
- ❑ Capacities up to 715 US GPH (1/2HP) and 800 US GPH (3/4HP).

USGPH	HEAD	LPH
710	5' 1.5	2687
629	10' 3.0	2381
570	15' 4.5	2157
496	20' 6.0	1877
444	25' 7.5	1680

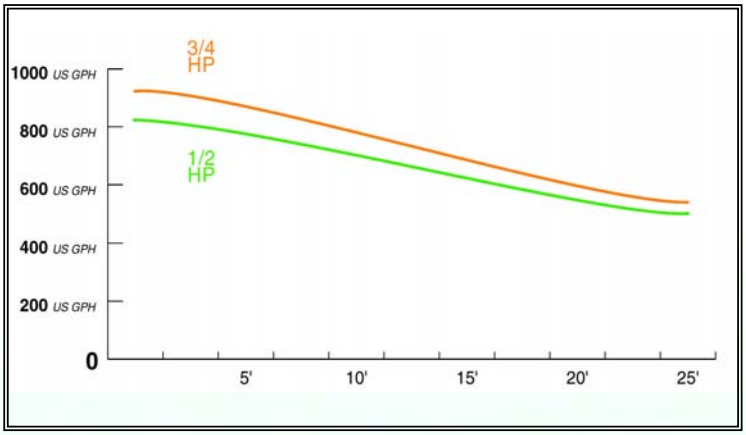
506 CI Series 1/2 HP at 30 psi

FRICTION LOSS IN PIPE NOT INCLUDED

USGPH	HEAD	LPH
792	5' 1.5	2998
685	10' 3.0	2592
619	15' 4.5	2343
545	20' 6.0	2063
479	25' 7.5	1813

506 CI Series 3/4 HP at 30 psi

FRICTION LOSS IN PIPE NOT INCLUDED



1/2 HP SUCTION CAPACITY

PSI	0'	5'	10'	15'	20'	25'	
0	820	787	697	631	549	492	
20	780	749	663	601	523	468	
30	740	710	629	570	496	444	
40	535	514	455	412	358	321	
50	310	298	264	239	208	186	USGPH

3/4 HP SUCTION CAPACITY

PSI	0'	5'	10'	15'	20'	25'	
0	920	883	764	690	607	534	
20	860	826	714	645	568	499	
30	825	792	685	619	545	479	
40	595	571	494	446	393	345	
50	345	331	286	259	228	200	USGPH

SHALLOW WELL CAST IRON JET PACKAGES

3/4HP 1/2HP

Cast Iron

With CAPTIVE AIR TANK

Designed for water systems equipped with a jet pump.

- ❑ No water-air contact, rust-free operation.
- ❑ No water-tank contact, eliminates seeping.
- ❑ No waterlogging, eliminates the need for air volume controls.

C/W 1/2HP
506127S wt **ML25H 25** Litre
506128S wt **ML60H 60** Litre
506131S wt **ML80H 80** Litre

3/4HP
506228S wt **ML60H 60** Litre
506231S wt **ML80H 80** Litre

SPRINKLER version

Designed for a maximum vertical lift of 25' (7.5m) for the following water sources: sand point, lake or river.

- ❑ Designed for intermediate or continuous operation.
- ❑ 1" garden hose adaptor included.
- ❑ Strong and practical transportation handle.

506120S **1/2HP**
506220S **3/4HP**

With FLUOMAC

Electronic system. No need for a conventional type tank. Compact, portable, easy to use and store in wintertime.

- ❑ No maintenance.
- ❑ Fully electronic.
- ❑ Maintains a constant pressure.
- ❑ No need for a pressure switch.
- ❑ Protects the pump from running dry.
- ❑ Not recommended for sand point applications.

The main feature of the Fluomac System is its ability to regulate and control the delivery of water and to maintain a constant pressure without the inconvenience of fluctuating pressure, which is especially useful when taking a shower along with many other applications.

506132S **1/2HP**
506232S **3/4HP**

2 YEARS WARRANTY

SHALLOW WELL S. S. JET PUMPS

1/2 HP

506521SS
506132SS
506520SS
115V

3/4 HP

506518SS
506530SS
115/230V
506532SS
115V

Stainless Steel

Designed for a shallow well application for a maximum vertical lift of 25 feet (7.5m). Recommended for home, cottage and farm applications.

- ❑ TEFC motor 60Hz. Totally enclosed, bearing to bearing with thermal and overloaded protection.
- ❑ Stainless steel pump body, large capacity, easy to prime.
- ❑ Designed for intermediate or continuous operation.
- ❑ High performance Noryl impeller for quiet performance.
- ❑ Noryl built-in ejector.
- ❑ Stainless steel shaft.
- ❑ Stainless steel rotary mechanical seal.
- ❑ Maximum pressure of 65 PSI (1/2HP) and 70 PSI (3/4HP).
- ❑ Capacities up to 800 US GPH (1/2HP) and 900 US GPH (3/4HP).

USGPH	HEAD	LPH
792	5' 1.5	2998
688	10' 3.0	2528
569	15' 4.5	2153
495	20' 6.0	1873
421	25' 7.5	1593

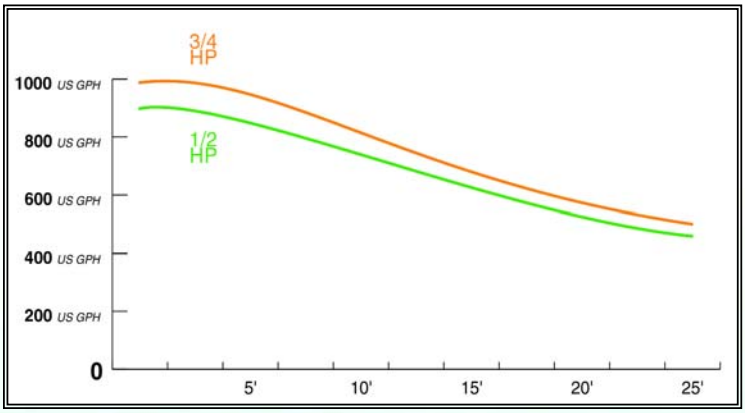
506 SS Series 1/2 HP at 30 psi

FRICTION LOSS IN PIPE NOT INCLUDED

USGPH	HEAD	LPH
897	5' 1.5	3395
749	10' 3.0	2835
638	15' 4.5	2415
555	20' 6.0	2100
472	25' 7.5	1786

506 SS Series 3/4 HP at 30 psi

FRICTION LOSS IN PIPE NOT INCLUDED



1/2 HP SUCTION CAPACITY

PSI	0'	5'	10'	15'	20'	25'	
0	900	864	729	621	540	449	
20	861	827	697	594	517	439	
30	825	792	668	569	495	421	
40	595	571	482	411	357	303	
50	350	336	284	242	210	179	USGPH

3/4 HP SUCTION CAPACITY

PSI	0'	5'	10'	15'	20'	25'	
0	985	955	798	680	591	502	
20	945	917	765	652	567	482	
30	925	897	749	638	555	472	
40	655	635	531	452	393	334	
50	370	359	300	255	222	189	USGPH

SHALLOW WELL PUMP PACKAGES

3/4HP 1/2HP Stainless Steel

With CAPTIVE AIR TANK

Designed for water systems equipped with a jet pump.

- ❑ No water-air contact, rust-free operation.
- ❑ No water-tank contact, eliminates seeping.
- ❑ No waterlogging, eliminates the need for air volume controls.

C/W 1/2HP
506527SS wt **ML25H 25** Litre
506128SS wt **ML60H 60** Litre
506131SS wt **ML80H 80** Litre
3/4HP
506538SS wt **ML60H 60** Litre
506541SS wt **ML80H 80** Litre

SPRINKLER version

Designed for a maximum vertical lift of 25' (7.5m) for the following water sources: sand point, lake or river.

- ❑ Designed for intermediate or continuous operation.
- ❑ 1" garden hose adaptor included.
- ❑ Strong and practical transportation handle.

506520SS **1/2HP**
506530SS **3/4HP**

With FLUOMAC

Electronic system. No need for a conventional type tank. Compact, portable, easy to use and store in wintertime.

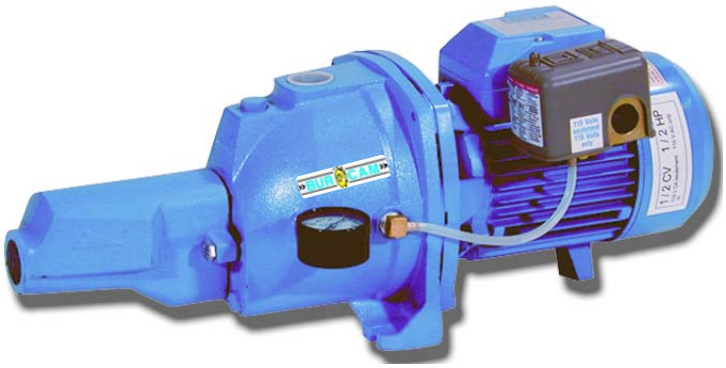
- ❑ No maintenance.
- ❑ Fully electronic.
- ❑ Maintains a constant pressure.
- ❑ No need for a pressure switch.
- ❑ Protects the pump from running dry.
- ❑ Not recommended for sand point applications.

The main feature of the Fluomac System is its ability to regulate and control the delivery of water and to maintain a constant pressure without the inconvenience of fluctuating pressure, which is especially useful when taking a shower along with many other applications.

506132SS **1/2HP**
506532SS **3/4HP**

2 YEARS WARRANTY

CONVERTIBLE JET PUMPS



1/2 HP 506321 506332

3/4 HP 506721 506732

CAST IRON CONVERTIBLE

Convertible jet pumps are designed for shallow well installation for water levels up to 25 feet (7.5m), or for deep well installation for water levels up to 80 feet (24.5m).

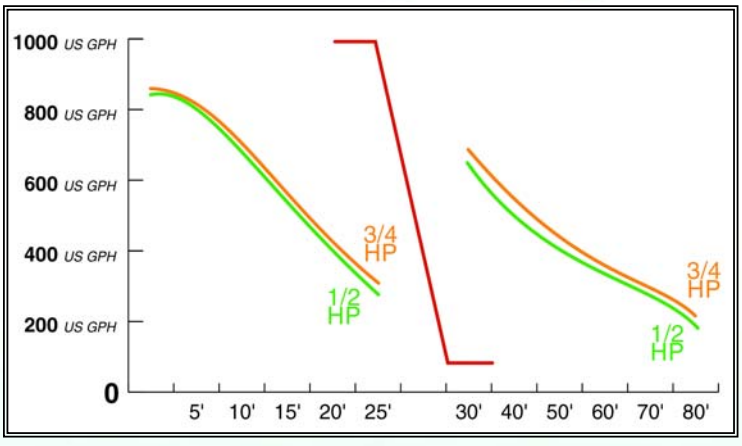
- ❑ TEFC motor,115 / 230V 60Hz totally enclosed, bearing to bearing. With thermal and overload protection.
- ❑ Cast iron, large capacity, easy to prime.
- ❑ Continuous duty capacitor to eliminate starting wear.
- ❑ Radial type impeller for quiet performance.
- ❑ Stainless steel shaft & rotary mechanical seal.
- ❑ Designed for intermediate or continuous operation.
- ❑ Maximum pressure of 85 PSI.
- ❑ Capacities up to 650 US GPH (1/2HP) and 660 US GPH (3/4HP).

USGPH	HEAD	LPH
648	5' 1.5	2452
513	10' 3.0	1941
439	15' 4.5	1661
331	20' 6.0	1252
223	25' 7.5	844
520	30' 4.5	1968
331	50' 15.0	1252
149	80' 15.0	564

506 Convertible Series 1/2 HP at 30 psi
FRICTION LOSS IN PIPE NOT INCLUDED

USGPH	HEAD	LPH
658	5' 1.5	2490
521	10' 3.0	1972
445	15' 4.5	1684
349	20' 6.0	1321
247	25' 7.5	934
548	30' 4.5	2074
349	50' 15.0	1321
171	80' 15.0	647

506 Convertible Series 3/4 HP at 30 psi
FRICTION LOSS IN PIPE NOT INCLUDED



3/4 HP SUCTION CAPACITY

PSI	0'	5'	10'	15'	20'	25'	30'	40'	50'	60'	70'	80'
0	855	821	650	556	436	308	684	556	436	342	299	214
20	750	720	570	488	383	270	600	488	383	300	263	188
30	685	658	521	445	349	247	548	445	349	274	240	171
40	620	595	471	403	316	223	496	403	316	248	217	155
50	545	523	414	354	278	196	436	354	278	218	191	136

US GPH

1/2 HP SUCTION CAPACITY

PSI	0'	5'	10'	15'	20'	25'	30'	40'	50'	60'	70'	80'
0	840	806	638	546	412	277	647	521	412	328	286	185
20	750	720	570	488	368	248	578	465	368	293	255	165
30	675	648	513	439	331	223	520	419	331	263	230	149
40	600	576	456	390	294	198	462	372	294	234	204	132
50	520	499	395	338	255	172	400	322	255	203	177	114

US GPH

CONVERTIBLE JET PUMP PACKAGES

1/2HP 3/4HP CAST IRON CONVERTIBLE

With CAPTIVE AIR TANK

Designed for water systems equipped with a jet pump.

- ❑ No water-air contact, rust-free operation
- ❑ No water-tank contact, eliminates seeping
- ❑ No waterlogging, eliminates the need for air volume controls.

C/W 1/2HP
506327 wt **ML25H 25** Litre
506328 wt **ML60H 60** Litre
506331 wt **ML80H 80** Litre
3/4HP
506728 wt **ML60H 60** Litre
506731 wt **ML80H 80** Litre

With FLUOMAC

Electronic system. No need for a conventional type tank. Compact, portable, easy to use and store in wintertime.

- ❑ No maintenance.
- ❑ Fully electronic.
- ❑ Maintains a constant pressure.
- ❑ No need for a pressure switch.
- ❑ Protects the pump from running dry.
- ❑ Not recommended for sand point applications.

The main feature of the Fluomac System is its ability to regulate and control the delivery of water and to maintain a constant pressure without the inconvenience of fluctuating pressure, which is especially useful when taking a shower along with many other applications.

Ejector installed at the factory

Easy to install, simply use a two pipe system for deep well, no need to change the venturi

506332 **1/2HP**
506732 **3/4HP**

JET PUMPS

Accessories

Pressure gauges

model		
750768	0 - 100	1/8”
750769	0 - 100	1/4”

Air volume control

To maintain air to water ration in galvanized tanks.

750766	Air volume control
750845	Plastic AVC kit
750797	AV-45 AVC
750798	AV-100 AVC
750748	1/8” plastic tubing
750767	1/4” plastic tubing

Pressure switches

Factory preset for 20 - 40 or 30 - 50 operating pressure

Rated for 1 HP / 115V. or 1.5HP / 230V.

Available with barb, female and male connection.

Selection chart

model	*preset psi*	*connection*	
750775S	20 / 40	1/4”	Barb
750932S	30 / 50	1/4”	Barb
750776S	20 / 40	1/4”	Female
750933S	30 / 50	1/4”	Female
750820A	40 / 60	1/4”	Female
750777S	20 / 40	1/4”	Male
750934S	30 / 50	1/4”	Male
750953S	20 / 40	1/8”	Barb
750779	80 / 100	1/4”	Female
750820	40 / 60	1/4”	Female
150159S	20 / 40	1/4”	Female
150147S	30 / 50	1/4”	Female

BARB

FEMALE

MALE

JET PUMPS

Accessories

Spring loaded bronze check valves

- ❑ Precision machined.
- ❑ Tapered seat valve.
- ❑ Abrasion resistant “O” ring.
- ❑ Positive sealing.
- ❑ Stainless steel spring.
- ❑ Noise free and chatter proof action.

MODEL

750749	diam.	1/2”	**750760**	diam.	3/4”
750761	diam.	1”	**750762**	diam.	1 1/4”
750763	diam.	1 1/2”	**750764**	diam.	2”

P V C check valves

- ❑ Fits any make of pump or water system.
- ❑ Economic and water resistant.

MODEL

750731	diam.	3/4”	**750732**	diam.	1”
750733	diam.	1 1/4”	**750738**	diam.	1 1/2”

Foot valves

- ❑ BRONZE
- ❑ Assures positive and reliable operation.
- ❑ Bronze body, stainless steel strainer, tapered seat and stainless steel spring.

MODEL

750754	diam.	1/2”	**750755**	diam.	3/4”
750756	diam.	1”	**750757**	diam.	1 1/4”
750758	diam.	1 1/2”	**750759**	diam.	2”

- ❑ P V C
- ❑ Fits any make of pump or water system.
- ❑ Economic and corrosion resistant.

MODEL

750751P	diam.	3/4”	**750752P**	diam.	1”
750753P	diam.	1 1/4”	**750758P**	diam.	1 1/2”

JET PUMPS

Accessories

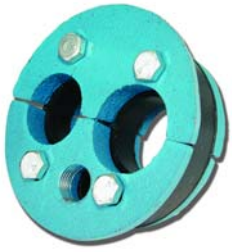
Well caps

Cast and aluminium models available.

Prod. #	Diam.Well	Prod. #	Diam. well	
150178	*8”*	***150180***	*8”*	*Sealed*

Well seals

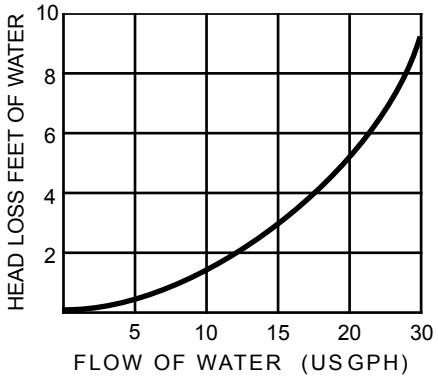
Prod. #	Well	Pipe	Material	Prod. #	Well	Pipe	Material
750925	*4”*	*1”-1 ¼”*	*C.I.*	**750926**	*6”*	*1”-1¼”*	*C.I.*



Well points

Cast Iron

	Size		Total length		Screen size	Gauge
750770	1 1/4”	X	24”	X	18”	60G
750975	1 1/4”	X	24”	X	18”	80G
750771	1 1/4”	X	30”	X	24”	60G
750778	1 1/4”	X	30”	X	24”	80G
750772	1 1/4”	X	36”	X	30”	60G
750773	1 1/4”	X	36”	X	30”	80G
750985	1 1/2”	X	36”	X	30”	60G
750986	1 1/2”	X	36”	X	30”	80G
750994	2”	X	36”	X	30”	60G
750995	2”	X	36”	X	30”	80G



Sand filter

750896

The Visual Liquid Strainer (VLS) will stop sand and grit over 170 microns from getting in your critical valves and pump parts, etc.

Ideal for use with electronic Fluomac.

Specifications	
Max. Press.:	**100 PSI**
Max. Temp.:	**130°F (55°C)**
Max. Vacuum:	**30 In**
Screen Mesh:	**60**
Screen Material:	**Brass**
Thread Size:	**1¼ In IPS**
Body Material:	**Cast iron**

JET PUMPS

Accessories

Bronze adaptors

750865	1”	long
750866	1 1/4”	long
750870	3/4”	short
750871	1”	short
750872	1 1/4”	short

Galvanized well seal venturi and elbows

750860	1”	MNPT		Well seal elbow
750861	1 1/4”	MNPT		Well seal elbow
750863	1”	X	10”	Male venturi adaptor
750864	1 1/4”	X	10”	Male venturi adaptor

Adaptors

750949	1”	FNPT	X	1”	Barb	long
750865	1”	NPT	X	1”	Barb	long
750866	1 1/4”	NPT	X	1 1/4”	Barb	long
750870	3/4”	NPT	X	3/4”	Barb	short
750871	1”		X	1”	Barb	short
750872	1 1/4”		X	1 1/4”	Barb	short

Fittings

750810	1/8”	NPT	X	1/4”	Barb	
750811	1/4”	NPT	X	1/4”	Barb	
750812	1/4”	NPT	X	1/4”	Barb	90º
750853	1/8”	NPT	X	1/8”	Barb	
750855	1/4”	NPT	X	1/8”	Barb	
750856	1/8”	NPT	X	1/8”	Barb	90º

JET PUMPS

Accessories

Hoses

750918	3/4”	Braided
750919	1”	Braided

Seals

750900	2000	5/8”
750901	1000	5/8”

Frictionless cup & valve leathers

750803	1 1/4”	X	1/2”
750804	1 1/4”	X	5/8”
750805	1 3/8”	X	5/8”
750806	1 1/2”	X	1/2”
750807	1 1/2”	X	5/8”
750808	1 5/8”	X	5/8”

550550		Repair kit	For cistern pump
550551	3”	X 2 1/16”	For cistern pump
550552	3”	valve	For cistern pump

Piston pump

250254	300	Beatty1 1/4”
250255	300	Beatty1 1/2”
250260	K255	Duro
250261	S250	Southern
250262	K365	Duro

Iron rid

95024B

CAPTIVE AIR PRESSURE TANKS

Upright

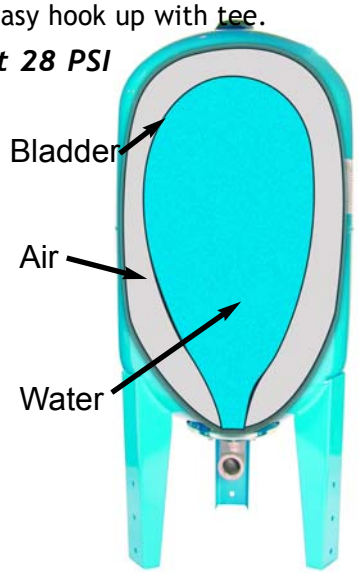
Inter-changeable BLADDER

600544 **ML60** **60** Litre
600645 **ML80** **80** Litre
600646 **ML100** **100** Litre
600648 **ML200** **200** Litre
600649 **ML300** **300** Litre

Designed for water systems equipped with a jet pump or a submersible pump.

- ❑ No water-air contact, rust-free operation.
  No water-tank contact, eliminates seeping.
  No waterlogging, eliminates the need for air volume controls.
- ❑ Replaceable bladder. Made of Butyl rubber to increase reliability and life span.
- ❑ Tough, epoxy-baked finish.
- ❑ Pressure:
  Tested to 100 PSI.
  Maximum operation pressure of 75 PSI.
- ❑ Connection
  1" NPT for models 600544,600645
  1 1/4" NPT for models 600646, 600648, 600649
  through-tank connection, easy hook up with tee.

Factory pre-charged at 28 PSI



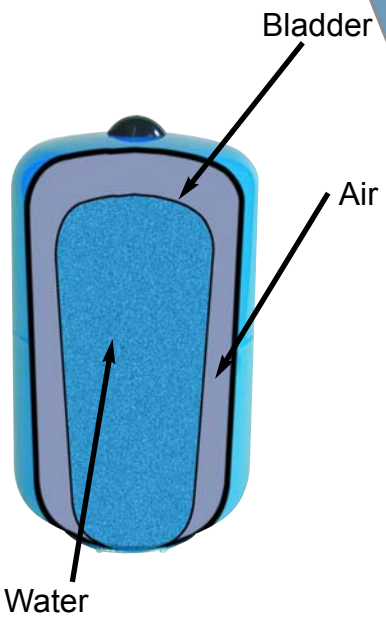
Product	Pre charged set to:	Pressure switch should be	Drawdown	Tank volume
600544	18 PSI 28 PSI	20/40 30/50	5.0 US GPH 4.0 US GPH	**15** US GPH
600645	18 PSI 28 PSI	20/40 30/50	7.5 US GPH 6.0 US GPH	**20** US GPH
600646	18 PSI 28 PSI	20/40 30/50	8.8 US GPH 7.0 US GPH	**26** US GPH
600648	18 PSI 28 PSI	20/40 30/50	17.6 US GPH 14.0 US GPH	**53** US GPH
600649	18 PSI 28 PSI	20/40 30/50	29.6 US GPH 23.7 US GPH	**85** US GPH

CAPTIVE AIR PRESSURE TANKS

inline

Inter-changeable BLADDER

600641	**ML8**	**8** Litre
600542	**ML20**	**20** Litre
600643	**ML35**	**35** Litre



Designed for water systems equipped with a jet pump or a submersible pump.

- ❑ No water-air contact, rust-free operation.
  No water-tank contact, eliminates seeping.
  No waterlogging, eliminates the need for air volume controls.
- ❑ Replaceable bladder. Made from Butyl rubber to increase reliability and life span.
- ❑ Tough, epoxy-baked finish.
- ❑ Pressure:
  Tested to 100 PSI.
  Maximum operation pressure of 75 PSI.
- ❑ Connection
  3/4" NPT through-tank connection, easy hook up with tee.

Factory pre-charged at 28 PSI

Product	Pre charged set to:	Pressure switch should be	Drawdown	Tank volume
600641	18 PSI 28 PSI	20/40 30/50	0.7 US GPH 0.6 US GPH	**2** US GPH
600542	18 PSI 28 PSI	20/40 30/50	1.6 US GPH 1.3 US GPH	**5** US GPH
600643	18 PSI 28 PSI	20/40 30/50	3.2 US GPH 2.6 US GPH	**9** US GPH

CAPTIVE AIR PRESSURE TANKS

Horizontal

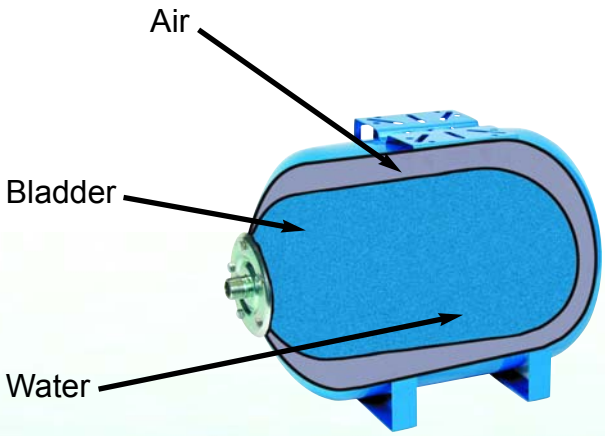
Designed for water systems equipped with a jet pump.

- ❑ No water-air contact, rust-free operation.
  No water-tank contact, eliminates seeping.
  No waterlogging, eliminates the need for air volume controls.
- ❑ Replaceable bladder. Made from Butyl rubber to increase reliability and life span.
- ❑ Tough, epoxy-baked finish.
- ❑ Pressure:
  Tested to 100 PSI.
  Maximum operation pressure of 75 PSI.
- ❑ Connection
  1" NPT through tank connection, easy hook up with tee.

Factory pre-charged at 28 PSI

600650 **ML25H** **25** Litre
600652 **ML60H** **60** Litre
600614 **ML80H** **80** Litre

Inter-changeable BLADDER



Product	Pre charged set to:	Pressure switch should be	Drawdown	Tank volume
600650	18 PSI 28 PSI	20/40 30/50	2.4 US GPH 6.0 US GPH	**7** US GPH
600652	18 PSI 28 PSI	20/40 30/50	5.0 US GPH 4.0 US GPH	**15** US GPH
600614	18 PSI 28 PSI	20/40 30/50	7.5 US GPH 6.0 US GPH	**20** US GPH

5 YEAR WARRANTY

CAPTIVE AIR PRESSURE TANKS

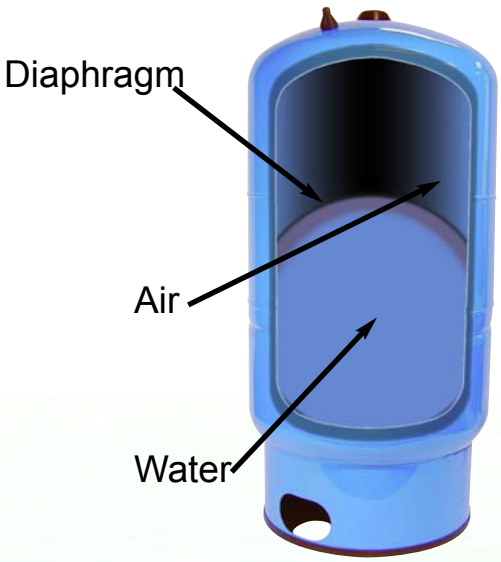
Upright Permanent DIAPHRAGM

Designed for water systems equipped with a jet pump or a submersible pump.

- ❑ Exclusive Butyl diaphragm.
  Polypropylene liner for complete corrosion resistance.
  Extremely resistant to bacterial growth in potable water.
- ❑ Rubber air stem.
- ❑ NSF standard 61 listed.
- ❑ Pressure:
  Helium tested.
  Maximum operation pressure of 90 PSI.
- ❑ Connection
  1" NPT Stainless steel tank connection.
- ❑ Maximum working temperature is 200° F.

Factory pre-charged at 38 PSI

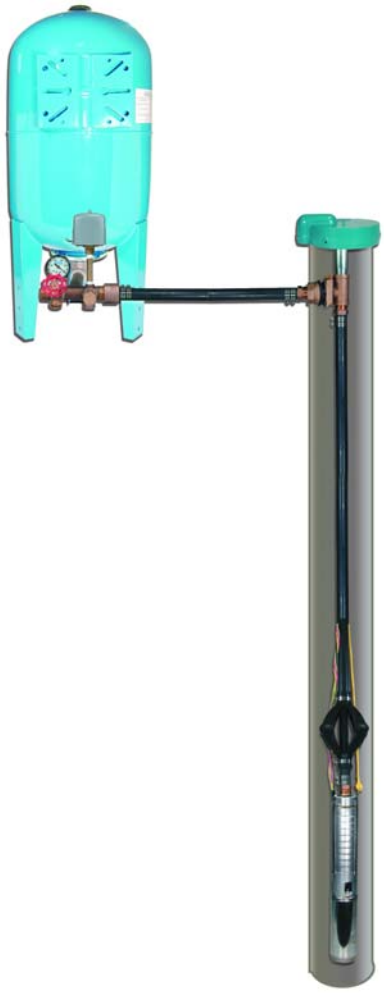
600609	**20 US Gal.**
600619	**26 US Gal.**
600610	**32 US Gal.**
600656	**86 US Gal.**
600658	**119 US Gal.**



Product	Pre charged set to:	Pressure switch should be	Drawdown	Tank volume
600609	18 PSI 28 PSI	20/40 30/50	7.3 US GPH 6.2 US GPH	**20** US GPH
600619	18 PSI 28 PSI	20/40 30/50	10.5 US GPH 8.8 US GPH	**26** US GPH
600610	18 PSI 28 PSI	20/40 30/50	12.9 US GPH 10.9 US GPH	**32** US GPH
600656	18 PSI 28 PSI	20/40 30/50	31.4 US GPH 26.6 US GPH	**86** US GPH
600658	18 PSI 28 PSI	20/40 30/50	43.5 US GPH 36.8 US GPH	**119** US GPH

TANKS

TYPICAL INSTALLATION



When using a separate tank from your pump, we recommend installing a captive air tank (as shown in our typical installation diaphragm), which has air injected into the tank at the factory. This air, in addition to atmospheric pressure, increases the ability of the tank to deliver more water between on/off cycles, thus increasing the efficiency of your water system. Connect the pump discharge to the tank **T**, using adaptors and braided hose, then connect the other side of tank **T** to your home's plumbing distribution line.

Make sure that the precharged air pressure (before connecting the tank) is 2 PSI less than the starting pressure selected on the pressure switch of your pump.

If you adjust the air pressure after the installation, follow these steps:

- Check the starting pressure of the pump on the pressure gauge.
- Disconnect the power to the pump.
- Open nearest faucet to the tank and relieve all pressure in tank, then close the faucet.
- Adjust the air pressure of the tank (by pumping or removing air at the snifter valve). 2 PSI below pressure switch "ON" setting.
- Turn power back on to pump.

Your tank is now precharged. Run the pump through a few cycles to verify that it functions properly.

Other types of tanks may be used, such as galvanized standard tanks, epoxy or glass lined tanks, although these products do not achieve the benefits of captive air tanks.

Burcam Tank	600650 ML 25H	600652 ML 60H	600614 ML 80H	600641 ML 8	600542 ML 20	600643 ML 35	600544 ML60	600610 VW 32	600609 VW 20	600646 ML100	600619 VW26 XL	600648 ML200	600649 ML300
Quant. Fixtures	3-6	8-11	12-15	1-2	2-4	5-7	8-11	16-19	11-13	16-19	13-15	20-35	36 +
Capacity	7	15	20	2	5	9	15	32	20	26	26	53	85
Drawdown 20/40	2.4	5.0	7.5	0.7	1.6	3.2	5.0	12.9	8.0	8.8	10.5	17.6	29.6
Drawdown 30/50	1.9	4.0	6.0	0.6	1.3	2.6	4.0	10.9	6.8	7.0	8.8	14.0	23.7
Std. Galvan. tank equiv.	15 usgal	30 usgal	42 usgal	10 usgal	15 usgal	20 usgal	30 usgal	usgal	usgal	82 usgal	usgal	usgal	usgal

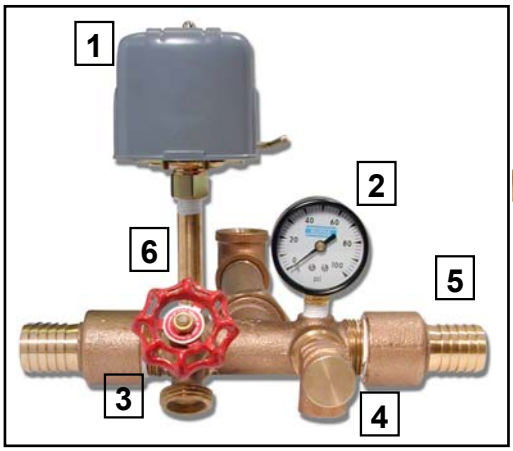
Concurrency equivalent chart

H2OW-TO	HT-5.3H	HT-14H		HT-2	HT-4.4	HT-86	HT-14	HT-30	HT-20	HT-32		HT-62	HT-86
WELL X TROL	WX103PS	WX200PS		WX101	WX102	WX103	WX201		WX202	WX203	WX202XL	WX251	WX302
CON-AIR	FP7100TH		FP7110TH	FP7105		FP7100			FP-7110	FP-710TH		FP125	FP7130
WELL-RITE	RT-5		RT-6	RT-1	RT-3		RT-10		RT-2	RT-4		RT-7	RT-9
AQUA-AIR				V-6P	V-15P	V-25P	V-45		V-60	V-100		V-200	V-260
FLEXON				JR6-01	JR15-02	JR25-03	WR45-01		WR60-02	WR100-03		WR200-02	WR260-03
PERMA-AIR	PADH-7		PADH-14	PIL-2	PIL-5	PIL-7	PAD-14		PAD-20	PAD-36S		PAD-52	PAD-96

Accessories

- ❑ Fits all makes of captive air tanks, bottom discharge.
- ❑ Made from durable bronze for long life.

650652	Short 4”
650651	Long 11”
650662	Long 11” with union



Typical assembly

1 Pressure switch (150159S)
2 Pressure gauge (750769)
3 Drain valve (650659)
4 Relief valve (150162)
5 Adaptor 1” female (750949)
6 3” nipple

Replaceable bladders

600501	ML8 Bladder
600509	ML20 Bladder
600509	ML25H Bladder
600509	ML35 Bladder
600503	ML40 Bladder
600504	ML60 Bladder
600505	ML60 Bladder
600505	ML60H Bladder
600519	ML80 Bladder
600519	ML80H Bladder
600519	ML100 Bladder
600520	ML200 Bladder
600508	ML300 Bladder

Flanges

600516	ML8 3/4” Flange (4 holes, 4”)
600512	ML20 3/4” Flange (5 holes, 6”)
600517	ML25H 1” Flange (5 holes, 6”)
600512	ML35 3/4” Flange (5 holes, 6”)
600517	ML60 1” Flange (5 holes, 6”)
600517	ML60H 1” Flange (5 holes, 6”)
600517	ML80 1” Flange (5 holes, 6”)
600517	ML80H 1” Flange (5 holes, 6”)
600517	ML100 1” Flange (5 holes, 6”)
600514	ML200 11/4” Flange (6 holes, 10”)
600513	1” Flange (6 holes, 10”)
600515	11/4” Flange (6 holes, 10.5”)
600518	11/4” Flange (5 holes, 6”)

HEAVY DUTY IRRIGATION PUMPS

1.5 HP 700506 230V

2.0 HP 700508 230V

- Self priming large pump body.
- Stainless steel mechanical seal.
- Suction up to 15 feet depth.
- Thermally protected motor.
- Stainless steel shaft, bearing to bearing.
- Capacity up to 25 sprinklers, 80 GPM US maximum flow, 110’ maximum head.
- Can be used as a booster pump to increase pressure.
- Brass impeller.

1.5HP SUCTION CAPACITY

PSI	0’	5’	10’	15’	20’	25’
0	4680	4540	4352	4025	3744	2340
20	3850	3735	3581	3311	3080	1925
30	2950	2862	2744	2537	2360	1475
40	1700	1649	1581	1462	1360	850

USGPH

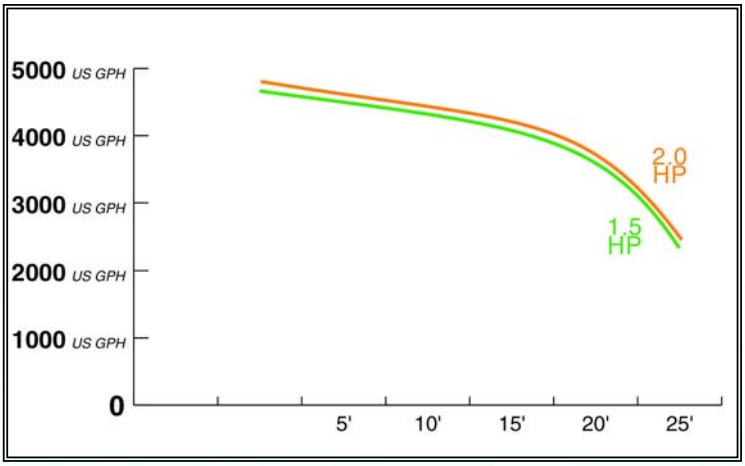
2.0HP SUCTION CAPACITY

PSI	0’	5’	10’	15’	20’	25’
0	4800	4656	4464	4128	3840	2400
20	4300	4171	3999	3698	3440	2150
30	3200	3104	2976	2752	2560	1600
40	2200	2134	2046	1892	1760	1100

USGPH

HEAVY DUTY CAST IRON LAWN SPRINKLER HIGH HEAD TYPE

Designed to be used with automatic sprinkler systems



TECHNICAL INFORMATION

Relationship of pipe size to water flow

A PRO TIP

MANY CONSUMERS DO NOT REALIZE THE RELATIONSHIP OF PIPE SIZE TO WATER FLOW.

A small increase in the size of the pipes you install for your water system will cost you more initially, but will contribute much more in increasing system efficiency and in providing for future needs.

Please note that the friction loss is applicable to all types of pumps. (Deep well submersible, jet, centrifugal, sump, sewage, etc.).

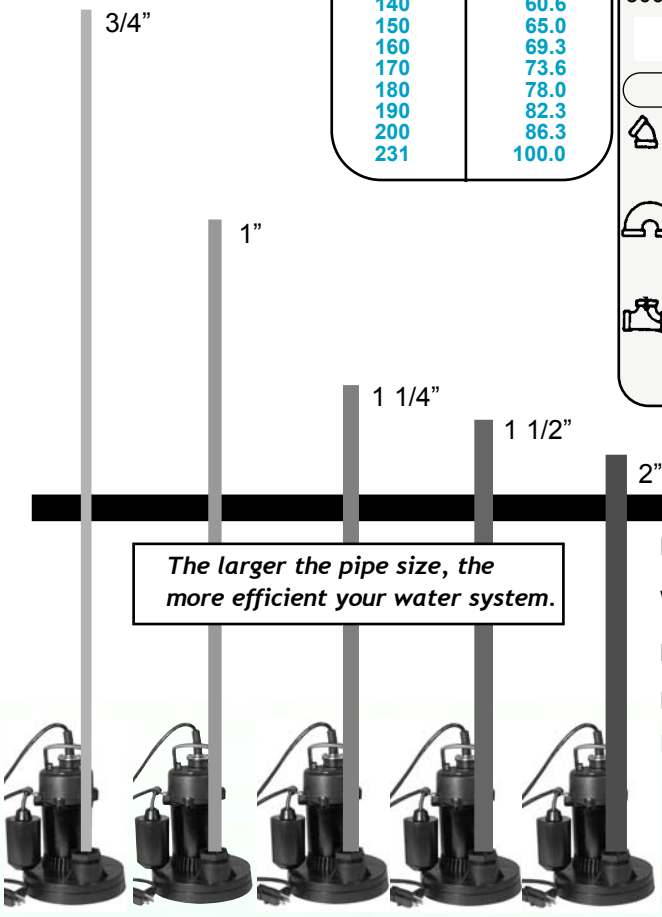
HEAD VS PSI EQUIVALENT

HEAD IN FEET	PSI
1	.4
2	.9
3	1.3
4	1.7
5	2.2
6	2.6
7	3.0
8	3.5
9	3.9
10	4.3
20	8.7
30	13.0
40	17.3
50	21.7
60	26.0
70	30.3
80	34.7
90	39.0
100	43.3
110	47.7
120	52.0
130	36.3
140	60.6
150	65.0
160	69.3
170	73.6
180	78.0
190	82.3
200	86.3
231	100.0

Friction loss table per 100' of polyethylene pipe

GPH-GPM		1/2"		3/4"		1.0"		1 1/4"		1 1/2"		2.0"	
		FT	PSI	FT	PSI	FT	PSI	FT	PSI	FT	PSI	FT	PSI
60	1	1.4	0.6	0.4	0.2	0.1	0.0						
120	2	4.8	2.1	1.2	0.5	0.4	0.2	0.1	0.0				
180	3	10.0	4.4	2.5	1.1	0.8	0.4	0.2	0.1	0.1	0.0		
240	4	17.1	7.5	4.2	1.8	1.3	0.6	0.4	0.2	0.2	0.1		
300	5	25.8	11.3	6.3	2.8	1.9	0.8	0.5	0.2	0.3	0.1		
360	6	36.3	15.9	8.8	3.9	2.7	1.2	0.7	0.3	0.3	0.1		
480	8	97.5	42.8	15.2	6.7	4.6	2.0	1.2	0.5	0.6	0.3		
600	10			26.0	11.4	6.9	3.0	1.8	0.8	0.8	0.4	0.3	0.1
900	15			49.7	21.8	14.6	6.4	3.8	1.7	1.7	0.7	0.5	0.2
1200	20			86.9	38.1	25.1	11.0	6.4	2.8	2.9	1.3	0.9	0.4
1500	25					38.4	16.9	9.7	4.3	4.4	1.9	1.3	0.6
1800	30					50.0	21.9	13.6	6.0	6.3	2.8	1.8	0.8
2100	35					62.8	29.9	18.2	0.5	8.4	3.7	2.4	1.0
2400	40					84.0	36.9	23.6	10.4	10.7	4.7	3.1	1.4
2700	45							29.4	12.9	13.5	5.9	3.8	1.7
3000	50							35.6	15.6	16.5	7.2	4.6	2.0

	1/2"	3/4"	1.0"	1 1/4"	1 1/2"	2.0"
	1.5'	2.0'	2.7'	3.5'	4.3'	5.9'
	0.8'	1.0'	1.3'	1.7'	2.0'	2.5'
	1.0'	1.4'	1.7'	2.3'	2.7'	3.5'
	3.6'	5.0'	6.0'	8.3'	10.0'	13.0'
	1.0'	1.5'	2.0'	3.0'	3.0'	4.0'
	3.3'	4.5	5.7'	7.6'	9.0'	12.0'
	17.0'	22.0'	27.0'	36.0'	43.0'	55.0'



The larger the pipe size, the more efficient your water system.

Example

Water flow

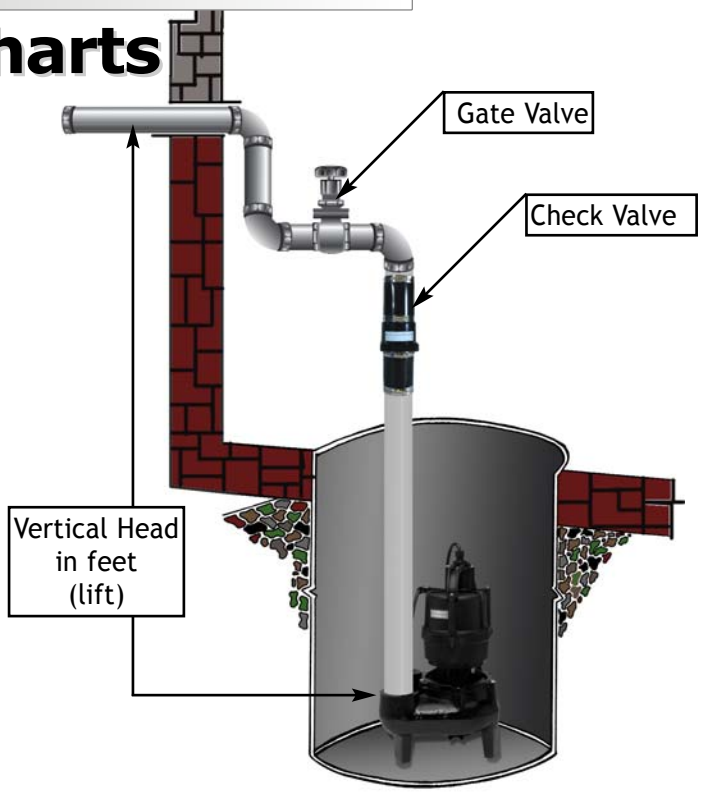
Pipe size	3/4"	1"	1 1/4"	11/2"	2"
Friction loss equivalent	88.6'	25.7'	6.6'	3.0'	0.9'
In feet of head%	444%	100% BASE	25%	11%	3%

$$\frac{\text{(Straight length + Fittings loss) x Factor in feet}}{100}$$

TECHNICAL INFORMATION

Flow calculation Charts

RECOMMENDED BASIN DIAMETERS	GPM	18”	24”	30”	36”	48”
	20	↓	↓	↓	↓	↓
	25	↓	↓	↓	↓	↓
	30	↓	↓	↓	↓	↓
	35	↓	↓	↓	↓	↓
	40		↓	↓	↓	↓
	45		↓	↓	↓	↓
	50		↓	↓	↓	↓
	60		↓	↓	↓	↓
	70			↓	↓	↓
	80			↓	↓	↓
	90			↓	↓	↓
	100			↓	↓	↓
	125				↓	↓
	150				↓	↓
	175					↓
	200					↓
	225					↓
GALLONS / FOOT OF BASIN DEPTH		**13.25**	**23.5**	**36.8**	**53.0**	**94.2**
GALLONS IN 2 1/2” OF BASIN DEPTH		**33.10**	**58.8**	**92.0**	**132.5**	**235.5**



Select minimum basin depth so that 2 1/2 ft. of basin depth in US Gallons = Pump Capacity in GPM

V = Velocity in Ft./Sec.
Hf = Head loss in Ft. per 100 Ft. of pipe.
Q = Flow in GPM
** Min. GPM & velocity per pipe size for liquids containing solids.*

VELOCITY AND HEAD LOSS CHART FOR SDR-21 PIPE (Flow coefficient C=150)

Flow GPM	1”		1 - 1/4”		1 - 1/2”		2”		2 - 1/2”		3”		4”		6”		8”	
G	V	H_f	V	H_f	V	H_f	V	H_f	V	H_f	V	H_f	V	H_f	V	H_f	V	H_f
1	.30	.05	.19	.01	.14	.01												
2	.60	.16	.37	.05	.28	.03												
5	1.49	.90	.93	.28	.71	.15												
7	*2.09**	1.68	1.30	.53	.99	.27												
10	2.99	3.25	1.86	1.02	1.41	.52												
15	4.48	6.88	*2.79**	2.17	*2.12**	1.11	1.35	.37										
20	5.98	11.72	3.72	3.69	2.83	1.89	1.80	.63	1.23	.25								
25	7.47	17.72	4.65	5.58	3.53	2.86	*2.25**	.96	1.53	.37	1.03	.14						
30	8.97	24.84	5.58	7.82	4.24	4.01	2.70	1.34	1.84	.52	1.24	.20						
35	10.46	33.04	6.51	10.40	4.95	5.33	3.15	1.78	*2.15**	.70	1.44	.27						
40			7.44	13.32	5.66	6.83	3.61	2.28	2.45	.89	1.65	.34	1.00	.10				
45			8.37	16.57	6.36	8.49	4.06	2.84	2.76	1.11	1.86	.42	1.12	.12				
50			9.30	20.14	7.07	10.32	4.51	3.45	3.07	1.35	*2.06**	.52	1.25	.15				
60			11.16	28.23	8.48	14.47	5.41	4.84	3.68	1.89	2.48	.72	1.50	.21				
70					9.90	19.25	6.31	6.43	4.29	2.52	2.89	.96	1.75	.28				
75					10.60	21.87	6.76	7.31	4.60	2.86	3.10	1.09	1.87	.32				
80					11.31	24.65	7.21	8.24	4.91	3.23	3.30	1.23	*2.00**	.36	.92	.05		
90							8.11	10.25	5.52	4.01	3.72	1.53	2.25	.45	1.04	.07		
100							9.01	12.45	6.13	4.88	4.13	1.86	2.50	.55	1.15	.08		
125							11.28	18.83	7.67	7.37	5.16	2.81	3.12	.83	1.44	.13		
150									9.20	10.33	6.19	3.94	3.74	1.16	1.73	.18	1.02	.05
175									10.73	13.75	7.22	5.24	4.37	1.49	*2.02**	.23	1.19	.06
200											8.26	6.71	4.99	1.97	2.30	.30	1.36	.08
225											9.29	8.35	5.62	2.45	2.59	.37	1.53	.10
250											10.32	10.15	6.24	2.98	2.88	.45	1.70	.13
275											11.35	12.10	6.86	3.55	3.17	.54	1.87	.15
300													7.49	4.18	3.46	.64	*2.04**	.18
325													8.11	4.84	3.74	.74	2.21	.20
350													8.74	5.56	4.03	.86	2.38	.23
375													9.36	6.31	4.32	.96	2.55	.27
400													9.98	7.11	4.61	1.08	2.72	.30
450													11.23	8.85	5.18	1.35	3.06	.37
500															5.76	1.65	3.40	.45
550															6.34	1.95	3.74	.54

TECHNICAL INFORMATION

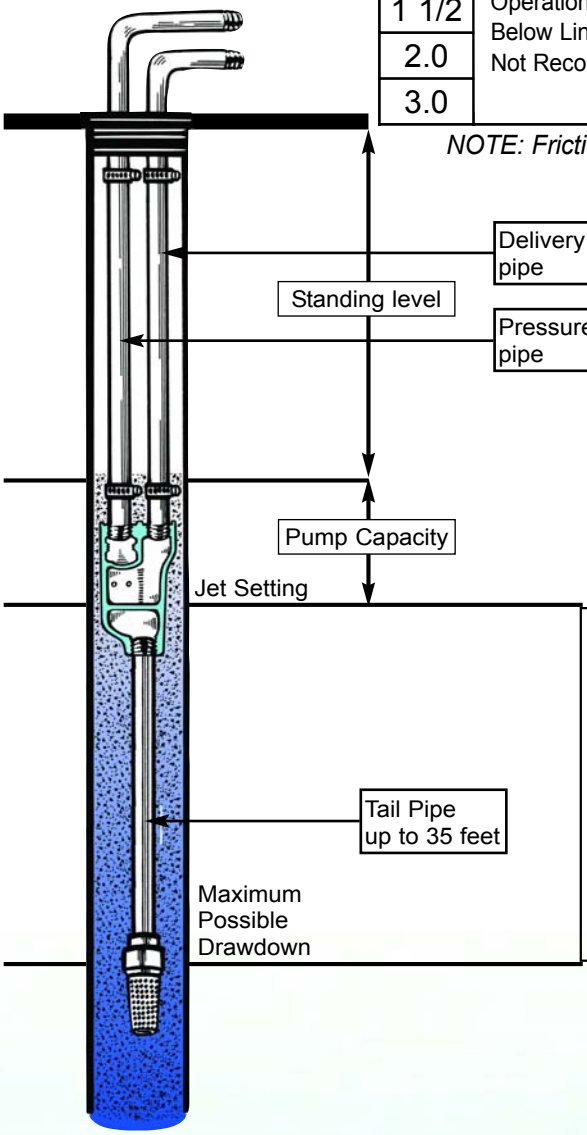
Offset jet pump friction

Where the jet pump is offset horizontally from the well site, add the following distances to the vertical lift to approximate capacity to be received.

PIPE FRICTION FOR OFFSET JET PUMPS
Friction loss in feet per 100 feet offset

JET SIZE H. P.	SUCTION AND PRESSURE PIPE SIZES (in inches)									
	1¼ x 1	1¼ x 1¼	1½ x 1¼	1½ x 1½	2 x 1½	2 x 2	2½ x 2	2½ x 2½	3 x 2½	3 x 3
1/2	18	12	8	6	3	2				
3/4		22	16	11	6	4				
1.0			25	16	9	6				
1 1/2	Operations Below Line Not Recommended				13	8	5	3		
2.0					20	13	7	5		
3.0							13	9	6	4

NOTE: Friction loss is to be added to vertical lift.



Installation of a long tailpipe on deep well Jet pumps

The pumping capacity of a deep well jet pump can be reduced to equalize with the well flow by installing a 35' tailpipe below the jet assembly

With tailpipe, pump delivery remains at 100% of capacity down to the ejector level. If water level falls below that, flow decreases in proportion to drawdown as shown by figures. When delivery equals well inflow, the water level remains constant until the pump shuts off.

0 ft	suction lift	100% rated	GPM
10 ft	suction lift	80% rated	GPM
15 ft	suction lift	70% rated	GPM
20 ft	suction lift	57% rated	GPM
25 ft	suction lift	40% rated	GPM
28 ft	suction lift	25% rated	GPM
29 ft	suction lift	17% rated	GPM

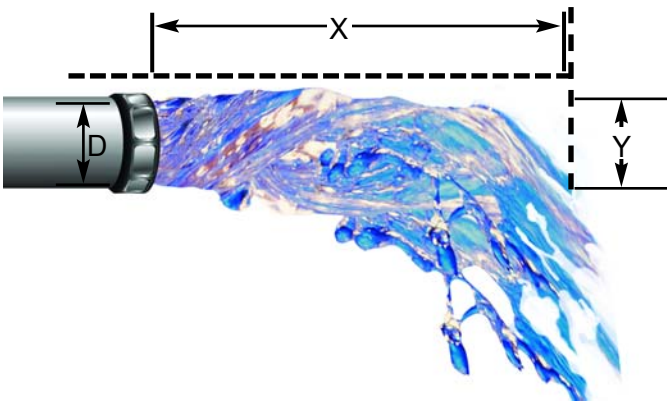
TECHNICAL INFORMATION

Approximating Water Flow

It is possible to approximate water flow from **horizontal** or **vertical** pipes when it is not practical to use flow meters or other measuring devices.

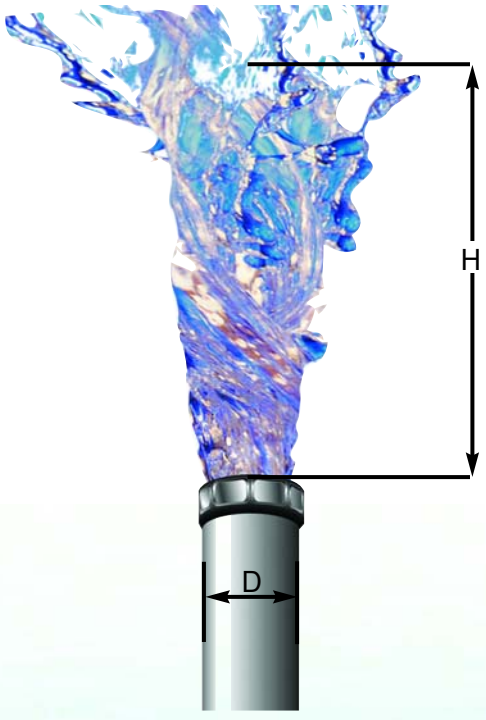
This can be done by measuring to the top of the flowing stream, always measuring the horizontal distance "**X**" in inches as illustrated, and determining the flow from the chart shown below.

Approximate capacity, GPM for full flowing horizontal pipes



Std. Wt. Steel pipe inside Dia. In.		Distance X, in., When Y = 12"										
Nominal	**Actual**	**12**	**14**	**16**	**18**	**20**	**22**	**24**	**26**	**28**	**30**	**32**
2	2.067	*42*	*49*	*56*	*63*	*70*	*77*	*84*	*91*	*98*	*105*	*112*
2 ½	2.469	*60*	*70*	*80*	*90*	*100*	*110*	*120*	*130*	*140*	*150*	*160*
3	3.068	*93*	*108*	*123*	*139*	*154*	*169*	*185*	*200*	*216*	*231*	*246*
4	4.026	*159*	*186*	*212*	*239*	*266*	*292*	*318*	*345*	*372*	*398*	*425*
5	5.047	*250*	*292*	*334*	*376*	*417*	*459*	*501*	*543*	*585*	*627*	*668*
6	6.065	*362*	*422*	*482*	*542*	*602*	*662*	*722*	*782*	*842*	*902*	*962*
8	7.981	*627*	*732*	*837*	*942*	*1047*	*1150*	*1255*	*1360*	*1465*	*1570*	*1675*
10	10.020	*980*	*1145*	*1310*	*1475*	*1635*	*1800*	*1965*	*2130*	*2290*	*2455*	*2620*
12	12.000	*1415*	*1650*	*1890*	*2125*	*2360*	*2595*	*2830*	*3065*	*3300*	*3540*	*3775*

Approximate capacity, GPM for full flowing vertical pipes



Std. Wt. Steel pipe Nominal I.D. Pipe in.	Vertical height, H, of water jet, In.										
	3	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**7**	**8**	**10**	**12**
2	*38*	*41*	*44*	*47*	*50*	*53*	*56*	*61*	*65*	*74*	*82*
3	*81*	*89*	*96*	*103*	*109*	*114*	*120*	*132*	*141*	*160*	*177*
4	*137*	*151*	*163*	*174*	*185*	*195*	*205*	*222*	*240*	*269*	*299*
6	*318*	*349*	*378*	*405*	*430*	*455*	*480*	*520*	*560*	*635*	*700*
8	*567*	*623*	*684*	*730*	*776*	*821*	*868*	*945*	*1020*	*1150*	*1270*
10	*950*	*1055*	*1115*	*1200*	*1280*	*1350*	*1415*	*1530*	*1640*	*1840*	*2010*

The accuracy of these methods will vary up to 10%.
The pipe must be flowing full.

TROUBLESHOOTING GUIDE

Submersible pumps
Problems - Causes & Remedies

Approximately 90% of all complaints result from improper installation of the pump or well failure. Please read these instructions carefully. In most cases, a correct diagnosis of the problem will suggest the proper remedy.

Fuses blow or circuit breaker trips when motor is started.

- ❑ Incorrect line voltage.
- ❑ Defective control box:
  - a) defective wiring
  - b) incorrect components
- ❑ Defective starting capacitor.
- ❑ Defective relay.
- ❑ Defective pressure switch.
- ❑ Pump is crooked well.
- ❑ Defective motor winding or cable.
- ❑ Pump is sand-locked.

Pump operates but delivers little or no water.

- ❑ Pump may be air locked.
- ❑ Water level in well too low.
- ❑ Discharge line check valve installed backward.
- ❑ Leak in drop pipe.
- ❑ Pump check valve jammed by drop pipe.
- ❑ Pump intake screen blocked.
- ❑ Pump parts worn.
- ❑ Motor shaft loose.

Pump starts too frequently.

- ❑ Pressure switch defective or out of adjustment.
- ❑ Leak in pressure tank above water level.
- ❑ Leak in plumbing system.
- ❑ Discharge in line check valve leaking.
- ❑ Air volume control plugged.
- ❑ Snifter valve plugged.

Motor does not start, but fuses do not blow.

- ❑ Overload protection out.
- ❑ No power.
- ❑ Defective control box.
- ❑ Defective pressure switch.

Fuses blow when motor is running.

- ❑ Incorrect voltage.
- ❑ Overheated overload protection box.
- ❑ Defective control box components.
- ❑ Defective motor wiring or cable.
- ❑ Pump becomes sand locked.

Pump won't shut off.

- ❑ Defective pressure switch.
- ❑ Water level in well too low.
- ❑ Leak in drop pipe line.
- ❑ Pump parts worn.

Jet pumps
Problems - Causes & Remedies

Approximately 90% of all complaints result from improper installation of the pump or well failure. Please read these instructions carefully. In most cases, a correct diagnosis of the problem will suggest the proper remedy.

Motor will not run.

- ❑ Be sure the switch is on.
- ❑ A fuse may be blown.
- ❑ Be sure the shaft turns properly.
- ❑ Motor starting switch may be defective.
- ❑ Wires at motor may be loose, disconnected, or wired incorrectly.
- ❑ Motor may be burned out.
- ❑ Pressure switch may be stuck in open position, or contacts may be dirty.

Motor runs but no water is delivered.

- ❑ Stop motor and reprime the pump. It may be necessary to repeat this operation several times.
- ❑ Leaky suction pipe, pressure pipe or air control connections.
- ❑ Foot valve may be stuck or strainer clogged by submergence in sand or mud.
- ❑ Ejector nozzle may be clogged.
- ❑ Pipe may not be pitched down from pump to well.
- ❑ Water level below foot valve.
- ❑ Pressure regulating valve may be out of adjustment.

Pumps does not deliver water full capacity.

- ❑ Water level in well lower than estimate. Check water level when pump is operating.
- ❑ Ejector nozzle clogged.
- ❑ Leaky suction pipe, pressure pipe or air control connections.
- ❑ Pipes may be corroded or limed causing excessive friction.
- ❑ Pipe size of offset lines too small.
- ❑ Foot valve stuck or strainer clogged.
- ❑ Motor not up to normal speed. For low voltage, check with power company.

Pump won't shut off.

- ❑ Pressure switch may be out of adjustment. Small hole at water connection may be clogged.
- ❑ Ejector nozzle clogged.
- ❑ Water level in well lower than estimate, making it impossible for pump to develop sufficient pressure.
- ❑ Leaky pipes.
- ❑ Motor not up to normal speed. For low voltage, check with power company.

Pump starts and stops too often.

- ❑ Pressure tank waterlogged (no air cushion). Check air control device for defects. Drain tank and allow to fill with air.
- ❑ Leak in piping system. Faucets or valves open.
- ❑ Leaky foot valve.
- ❑ Pressure switch out of adjustment.
- ❑ Leak in pressure tank.

Motor runs hot and overload kicks out.

- ❑ Motor wired incorrectly. Check motor and switch instruction cards.
- ❑ Low voltage. Install heavier wiring if necessary. Check with power company.
- ❑ Poor ventilation. Motors need to be properly ventilated for cool running.
- ❑ Starting and stopping too often. Leak in pressure tank.

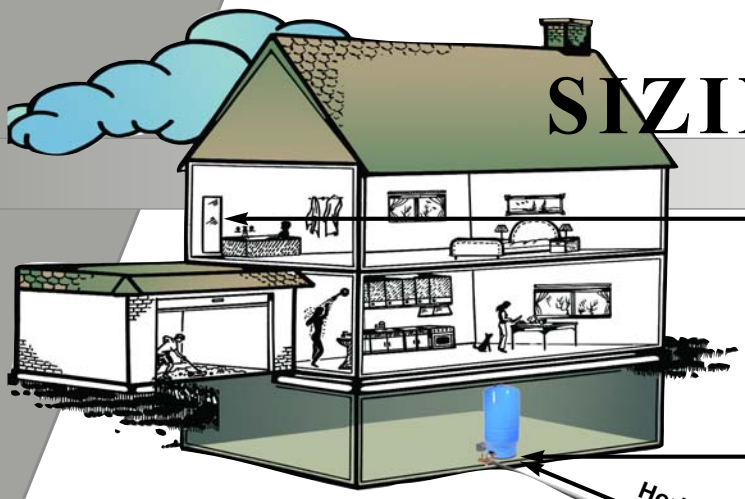
Pump is noisy.

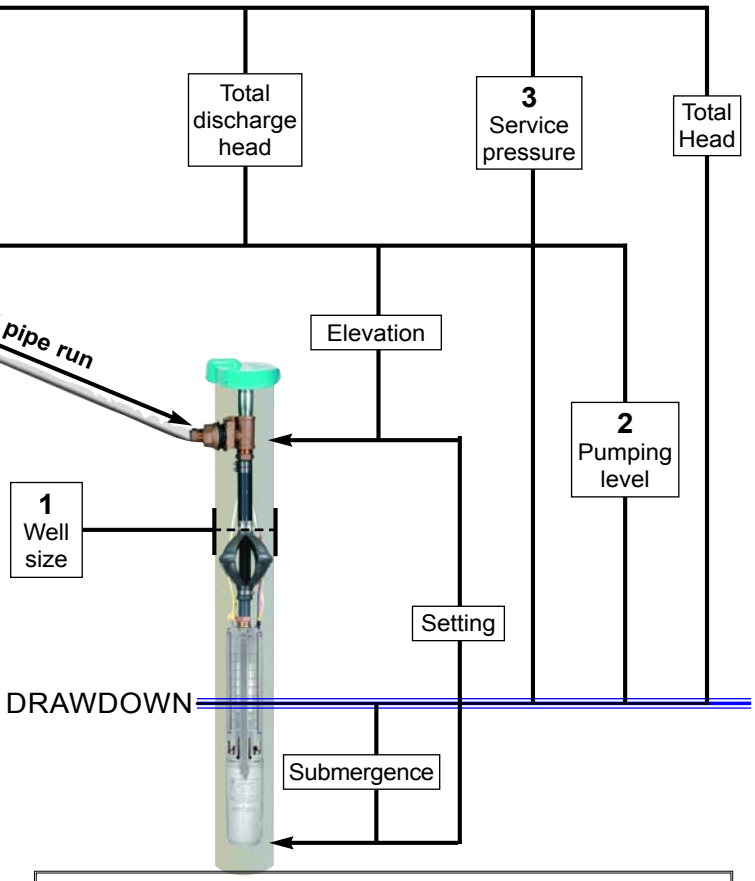
- ❑ Set pump on concrete or substantial sub-base. Wooden bases amplify noises.

Air spurts from faucets.

- ❑ Airlogged tank (tank too full of air) caused by defective air volume control.
- ❑ Leak in suction side of pump.
- ❑ Gas in water.

SIZING Chart





How to select the correct pumping equipment.

THE ANSWERS TO FOUR BASIC QUESTIONS WILL HELP SELECT THE PROPER PUMP.

1 WHAT IS THE SIZE OF THE WELL ?

The inside diameter of the well must be known so that the proper size pump, injector or drop pipe and foot valve can be determined.

2 WHAT IS THE PUMPING LEVEL ?

The vertical distance in feet from the pump to the water level while the pump is operating. If the pump is installed away from the well and is on higher ground, this elevation must also be included. The drawdown while being pumped must not be confused with the standing water level.

3 WHAT SHOULD BE THE AVERAGE DISCHARGE PRESSURE ?

Usual average discharge pressure is 30 lbs., halfway between the 20 lb. to 40 lb. switch setting of most water systems. When the tank is installed away from the pump at a higher level, or when house or yard fixtures are above the pump and tank, a greater pressure is needed and a larger pump must be used.

4 WHAT CAPACITY IS REQUIRED ?

The discharge capacity of the pump in gallons per hour that is needed for satisfactory service. The pump should have enough capacity so that it can deliver the total water requirement in 2 hours of continuous operation. See table of water requirement at right.

AVERAGE WATER REQUIREMENTS FOR GENERAL SERVICE AROUND THE HOME AND FARM

Each person per day, for all purposes	75 gal.
Each horse, dry cow or beef animal	12 gal.
Each milking cow	35 gal.
Each hog per day	4 gal.
Each sheep per day	2 gal.
Each 100 chicken per day	4 gal.

AVERAGE AMOUNT OF WATER REQUIRED BY VARIOUS HOME AND YARD FIXTURES

Drinking fountain, continuously flowing	50 to 100 gal./day
Each shower bath	Up to 30 gal.
To fill bath tub	20 gal.
To flush toilet	4.5 gal.
To fill sink	2 gal.
To sprinkle 1/4" of water on each 1000 square feet of lawn	160 gal.
Dish washing machine - per load	10 gal.
Automatic washer - per load	Up to 60 gal.
Regeneration of domestic water softener	50-100 gal.

AVERAGE FLOW RATE REQUIREMENTS BY VARIOUS FIXTURES

Shower	4 to 6 gal. per minute
Bathtub	4 to 8 gal. per minute
Toilet	4 to 5 gal. per minute
Sink	1 to 3 gal. per minute
Kitchen sink	2 to 3 gal per minute
1/2" hose and nozzle	200 gal. per hour
3/4" hose and nozzle	300 gal. per hour
Lawn sprinkler	120 gal. per hour

TECHNICAL INFORMATION

WIRE AND FUSE TABLE
From service entrance to pump motor or control box

H. P.	Volts	Full Load Amps.	Max.* Fuse Size Amps.	** Minimum wire size of rubber insulated copper wire A.W.G. Length wire from motor to meter or distribution point FEET									
				0-50	50-100	100-150	150-200	200-250	250-300	300-350	350-400	400-450	450-500
1/6	115	3.0	15	14	14	14	14	14	14	14	12	12	12
1/6	230	1.5	15	14	14	14	14	14	14	14	14	14	14
1/4	115	4.0	15	14	14	14	14	14	12	12	12	12	10
1/4	230	2.0	15	14	14	14	14	14	14	14	14	14	14
1/3	115	5.0	15	14	14	14	14	12	12	12	10	10	10
1/3	230	2.5	15	14	14	14	14	14	14	14	14	14	14
1/2	115	7.2	25	14	14	14	12	12	10	10	10	9	9
1/2	230	3.6	15	14	14	14	14	14	14	14	14	14	14
3/4	115	9.2	30	14	14	12	12	10	10	9	9	8	8
3/4	230	4.6	15	14	14	14	14	14	14	14	14	14	12
1.0	115	12.0	40	14	12	12	10	9	9	8	7	7	6
1.0	230	6.0	20	14	14	14	14	14	14	14	12	12	12
1.5	115	16.0	50	14	12	10	9	8	7	7	6	5	5
1.5	230	8.0	25	14	14	14	14	14	12	12	12	10	10
2.0	115	20.0	60	14	12	10	8	7	6	6	5	5	4
2.0	230	10.0	30	14	14	14	14	12	12	12	10	10	10
3.0	115	29.0	90	12	10	8	7	6	5	4	4	3	3
3.0	230	14.5	45	14	14	14	12	12	10	10	9	9	8
5.0	115	46.0	150	10	8	6	5	4	3	2	2	1	1
5.0	230	23.0	80	14	14	12	10	10	9	8	7	7	6

* Fuse sizes according to national Electric Code. These fuses are maximum for protection of wiring only and do not give motor overload protection.
** Wire sizes shown permit maximum voltage drop of 5%

Measurement of electric power

For DC Power use DC voltmeter and DC ampmeter

Power W = **E** X **I**;

H.P. input = $\frac{W}{746}$ = **W** X **1.34**

AC Power

Single phase

Use Power single phase wattmeter;

H.P. input = $\frac{W}{746}$ = **W** x **1.34**

3 Phase

a) one 3 phase wattmeter
b) Two single phase wattmeter
c) Power co. revolving disc watt hour meter

Method for calculating power for a revolving disc watt hour meter.

Kilowatts input = KW in = $\frac{K \times R \times 3.60}{t}$

H.P. input = $\frac{K \times R \times 3600}{746 \times t}$ $\frac{4.83 \times K \times R}{t}$

H.P. output = H.P. input x **Motor efficiency**

*** K** = Constant = Watts for one revolution of revolving disc
K is usually found on meter nameplate or on revolving disc.
R = Number of revolutions of disc.
t = Second for **R** revolutions.

Operating cost

C = Cost in dollars per 1000 gallons
C¹ = Cost in dollars per acre inch
r = Power rate per kilowatt hour (dollars)
KW Input = Kilowatts (measured at the meter)
GPH = Gallons per hour discharged by pump
GPM = Gallons per minute discharged by pump

Cost per 1000 gallons **C** = $\frac{\text{KW Input} \times r}{\text{GPH}}$

Cost per 1000 gallons **C¹** = $\frac{451 \times r \times \text{KW in}}{\text{GPM}}$

Approximate cost of Operating Electric motor

Motor H.P.	* Average kilowatts input or cost per hour based on 1 cent per kilowatts / hr. 1 - Phase	3 - Phase	Motor H.P.	* Av. Kw input or cost per hour based on 1 cent per Kw/hr. 3 - phase
1/4	.305	.....	15	12.8
1/3	.408	.....	20	16.9
1/2	.535	.520	25	20.8
3/4	.760	.768	30	25.0
1.0	1.00	.960	40	33.2
1.5	1.500	1.41	50	41.3
2.0	2.000	1.82	60	49.5
3.0	2.95	2.70	75	61.5
5.0	4.65	4.50	100	81.5
7.5	6.90	6.75	125	102.
10.0	9.30	9.00	150	122.
			200	162.

* For any other rate multiply the rate
Example: For ¾ H.P. pump, single phase at 3 cent per hour
Calculation = .760 X 3 = 2.280 cents. (approx 2 ¼ per hour)

BURKE manufactures water systems and related accessories and offers a complete line of products for retailers, wholesalers, pump specialty houses and well-drillers around the world. The company is extremely dynamic and is always concerned about meeting the needs of the market and providing value to its customers. BURKE is a leader thanks to the quality of its products, its innovations and its customer service. With 25 years of experience, BURKE relies on its own creative ability to constantly improve its range of products, and to suggest exclusive and innovative water systems and accessories to its customers.

THE BURKE PHILOSOPHY:

When I founded BURKE WATER SYSTEMS in 1979, my priority was to offer a line of pumps and accessories that would meet the real and specific needs of customers in Eastern Canada. Today, 25 years later, our products are in demand around the world and our mission statement remains the same - each one of our pumps has to perfectly meet a specific need.

Industry professionals have often praised BURKE for quality and customer service. However, our customers, the end consumer, are the ones who realize our greatest product qualities - reliability and longevity. To maintain this reputation, we continue to offer products that are not only dependable and efficient, but are innovative and consumer friendly.
I am particularly proud of our company's ability to launch one new innovative product into the market each year. By innovative, I don't mean a cosmetic approach, but a true innovation that comes from our commitment to research and development.

BURKE has become a leader in its industry. Over the last 25 years we have developed the internal structure and the business acumen necessary to provide outstanding sales and service that offers our customers peace-of-mind. We have been successful in capturing a considerable share of the market - but we have not done it alone. We owe a great deal of our success to the support of our marketing partners and our steadfast commitment to always making sure that the customer is satisfied.

Donald BURKE
President and C.E.O.