BURCAM

2013

Water Service Products
Pumps and Water Systems

Technical catalogue

WARRANTY 3 YEARS

4" SUBMERSIBLE DEEP WELL PUMPS

5, 10, 25 GPM

ALL Stainless Steel Series

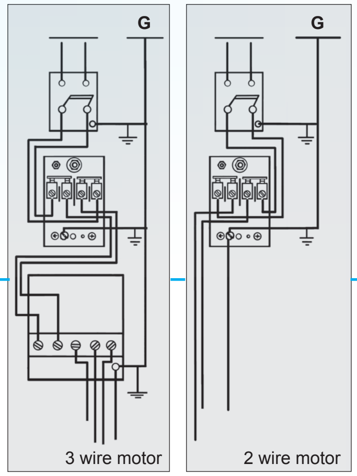
Recommended for homes, cottages and farms for installation in water wells which are 4" or larger in diameter.

3450 RPM motor, 2 or 3 wires 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.

Electrical installation diagram

From electrical distribution



To pump

SUB-PAC VERSION CONTAINS :

- Submersible pump.
- Control box (for 3 wire motor).
- Splice kit.
- Submersible cable attached to motor lead.
- Pressure gauge.
- LOP pressure switch.
- Bronze tank tee.

* NOT INCLUDED AND RECOMMENDED :

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

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4” SUBMERSIBLE DEEP WELL PUMPS

5 GPM

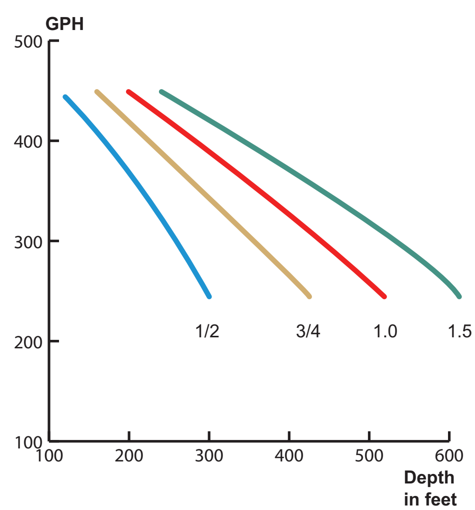
Performance Charts

HP	PSI	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'	450'	500'	550'	600'
1/2	0				444	425	405	385	366	341	315	286	244	178						
	20	458	439	419	399	380	360	340	320	290	252	204	123							
Best efficiency	30	436	416	396	377	357	338	316	295	256	206	137								
20/40 120'@218'	40	413	394	374	355	334	314	289	263	210	139									
30/50 97'@195'	50	392	371	352	332	310	287	254	220	145								USGPH		
3/4	0						448	434	420	402	384	359	350	332	313	267				
	20				444	430	416	401	387	370	352	334	315	293	268	203				
Best efficiency	30			442	427	414	399	385	371	354	336	319	296	268	238	156				
20/40 183'@337'	40			425	412	397	383	369	355	337	320	299	274	241	200	86				
30/50 160'@314'	50			410	395	387	366	353	339	319	300	267	247	205				USGPH		
1.0	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	
Best efficiency	30						431	419	407	392	378	363	350	336	320	286	237	164	75	
20/40 246'@435'	40						418	406	395	380	366	352	337	321	305	268	206	118		
30/50 223'@412'	50						404	393	381	366	352	338	322	305	288	244	171	USGPH		
1.5	0										444	429	419	407	395	371	347	320	291	257
	20								445	433	420	408	397	384	372	349	323	294	256	212
Best efficiency	30							444	435	422	409	397	384	372	361	337	310	279	235	184
20/40 300'@536'	40							433	422	410	398	385	374	362	350	325	296	261	210	149
30/50 277'@513'	50							421	410	399	386	375	363	351	338	311	281	242	USGPH	

* Friction loss in pipe not included

Ordering information

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



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4" SUBMERSIBLE DEEP WELL PUMPS

WARRANTY 3 YEARS

10 GPM

Performance Charts

HP	PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'	450'	500'	550'	600'	650'	700'
1/2	**0**				889	842	**783**	**719**	**659**	**596**	**524**	**364**												
	20		877	824	**763**	**700**	**638**	**576**	**496**	364	128													
Best efficiency	**30**	869	816	**754**	**691**	**630**	**565**	**480**	336	77														
20/40 73'@123'	**40**	806	**743**	**681**	**620**	**554**	**462**	305																
30/50 50'@100'	**50**	**734**	**671**	**610**	**542**	443	271																	**USGPH**
3/4	**0**					899	869	830	**785**	**738**	**691**	**633**	**573**	**463**										
	20			891	858	817	**771**	**723**	**676**	**631**	**584**	**528**	454	339										
Best efficiency	**30**		887	853	810	**763**	**716**	**669**	**624**	**576**	**519**	408	223	68										
20/40 114'@198'	**40**	882	846	803	**756**	**709**	**663**	**616**	**568**	**508**	423	242												
30/50 91'@175'	**50**	840	796	**749**	**701**	**655**	**609**	**560**	**497**	385	267													**USGPH**
1.0	**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							
Best efficiency	**30**					842	807	**771**	**733**	**695**	**658**	**612**	**562**	**499**	413	255	70							
20/40 156'@267'	**40**					802	**764**	**723**	**689**	**652**	**616**	**565**	**505**	418	290	90								
30/50 133'@244'	**50**					**759**	**720**	**684**	**647**	**610**	**571**	**510**	426	294	104									**USGPH**
1.5	**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				
Best efficiency	**30**							869	847	825	787	**765**	**731**	**697**	**664**	**631**	**595**	**520**	387	178				
20/40 234'@406'	**40**							844	820	794	**768**	**733**	**699**	**666**	**634**	**600**	**562**	471	295					
30/50 203'@383'	**50**							816	790	**763**	**736**	**702**	**669**	**637**	**603**	**567**	**522**	408						**USGPH**
2.0	**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
Best efficiency	**30**											848	825	800	**774**	**748**	**721**	**670**	**619**	**563**	**485**	392	234	
20/40 313'@545'	**40**											826	802	**776**	**750**	**725**	**697**	**646**	**594**	**533**	439	324		
30/50 290'@522'	**50**											803	**778**	**752**	**726**	**699**	**673**	**622**	**568**	**497**	382	239		**USGPH**

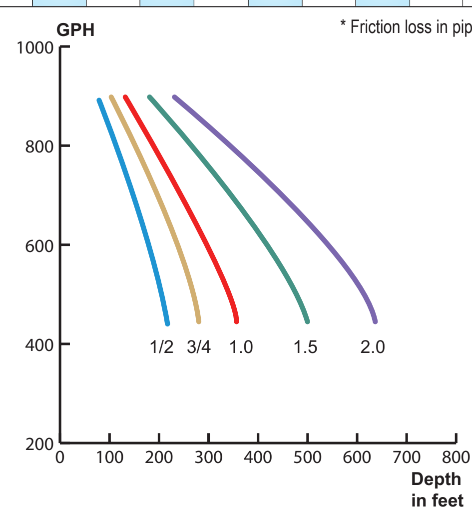
* Friction loss in pipe not included

Ordering information

MODEL	HP	Stages	Volts	Wire	Motor lead
101129	1/2	9	115	2	48"
101123	1/2	9	115	3	48"
101130	1/2	9	230	2	48"
101128	1/2	9	230	3	48"
101161	1/2	9	230	2	s-pac 150'
101151	1/2	9	230	3	s-pac 150'
101131	3/4	12	230	2	48"
101136	3/4	12	230	3	48"
101162	3/4	12	230	2	s-pac 200'
101152	3/4	12	230	3	s-pac 200'

Ordering information

MODEL	HP	Stages	Volts	Wire	Motor lead
101147	1.0	15	230	2	48"
101146	1.0	15	230	3	48"
101163	1.0	15	230	2	s-pac 200'
101153	1.0	15	230	3	s-pac 200'
101158	1.5	21	230	2	48"
101155	1.5	21	230	3	48"
101165	2.0	27	230	3	48"



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4” SUBMERSIBLE DEEP WELL PUMPS

WARRANTY 3 YEARS

25 GPM

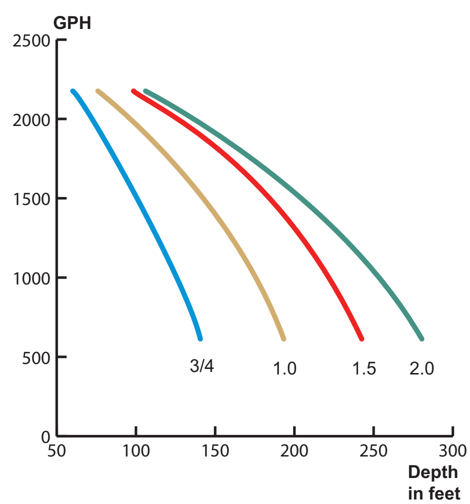
Performance Charts

HP	PSI	20'	40'	60'	80'	100'	120'	140'	160'	180'	200'	225'	250'	275'	300'	325'	350'	400'	450'	500'
3/4	0			2173	**1874**	**1506**	1139	626												
	20	2074	**1800**	**1375**	950	472														
Best efficiency	30	**1706**	**1418**	772	126															
20/40 25’@43’	40	**1229**	740	368																
30/50 2’@20’	50	635																		USGPH
1.0	0					1974	**1795**	**1533**	**1271**	798	320									
	20		2090	**1911**	**1738**	**1444**	1155	656	158											
Best efficiency	30	2079	**1885**	**1670**	**1454**	819	604													
20/40 55’@73’	40	**1853**	**1674**	**1344**	1018	515														
30/50 32’@50’	50	**1596**	**1355**	898	441															USGPH
1.5	0						2027	**1890**	**1759**	**1559**	**1359**	939	493							
	20				1985	**1848**	**1712**	**1491**	**1276**	913	556									
Best efficiency	30			1968	**1832**	**1664**	**1491**	**1192**	893	494										
20/40 85’@122’	40		**1942**	**1800**	**1659**	**1422**	**1181**	809	430											
30/50 62’@99’	50	**1927**	**1790**	**1606**	**1418**	1097	772	388												USGPH
2.0	0						2084	1958	**1848**	**1738**	**1580**	**1355**	1040	669	210					
	20					2048	**1926**	**1811**	**1701**	**1527**	**1355**	1021	653	240						
Best efficiency	30				2016	**1911**	**1806**	**1664**	**1523**	**1297**	1066	677	331							
20/40 116’@172’	40			2005	**1895**	**1775**	**1659**	**1470**	**1286**	1044	719	299								
30/50 93’@149’	50		2006	**1895**	**1775**	**1659**	**1470**	**1286**	1002	719	336									USGPH

* Friction loss in pipe not included

Ordering information

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



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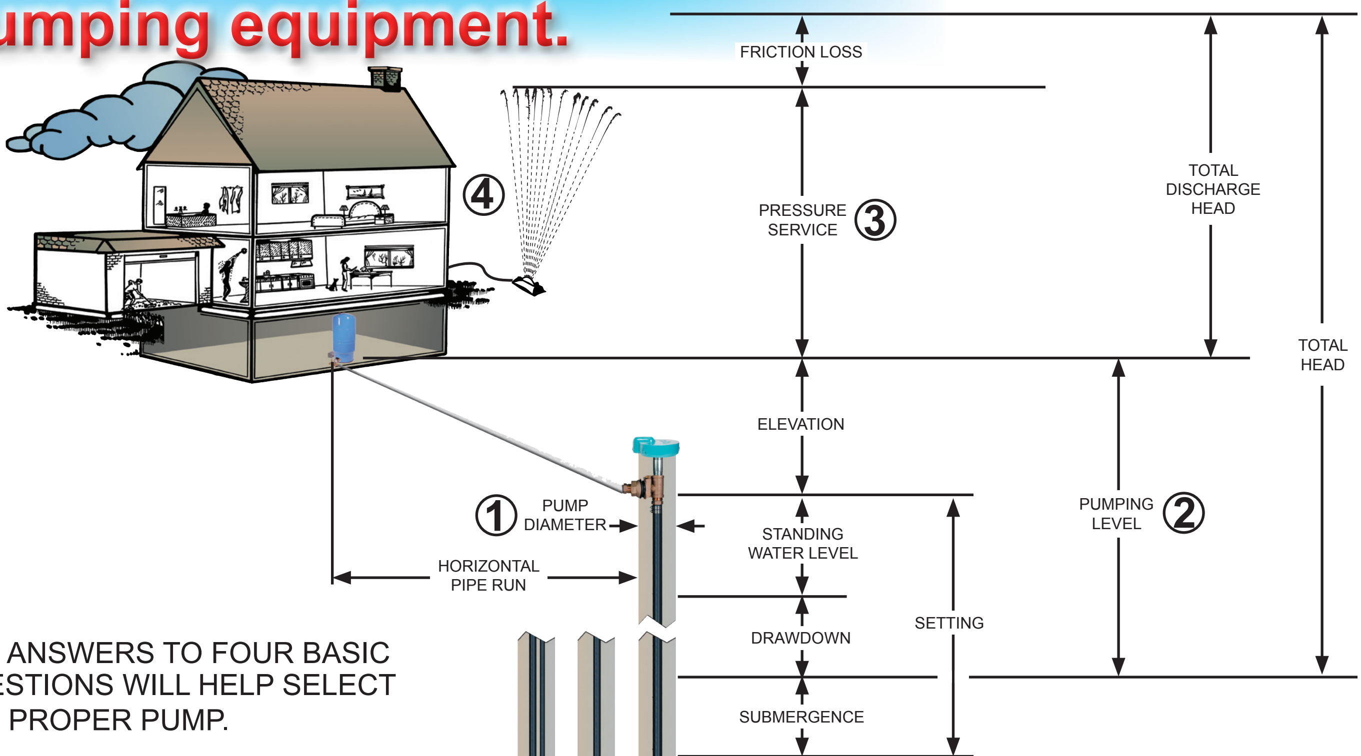
PUMP SIZING

How to select the correct pumping equipment.



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

① WHAT IS THE PUMP DIAMETER ?

The inside diameter of the well must be known so that the proper pump diameter, 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 level, or when house or yard fixtures are above the pump and tank, a greater pressure is needed and a large 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 REQUIREMENT 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.
Regenaration 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

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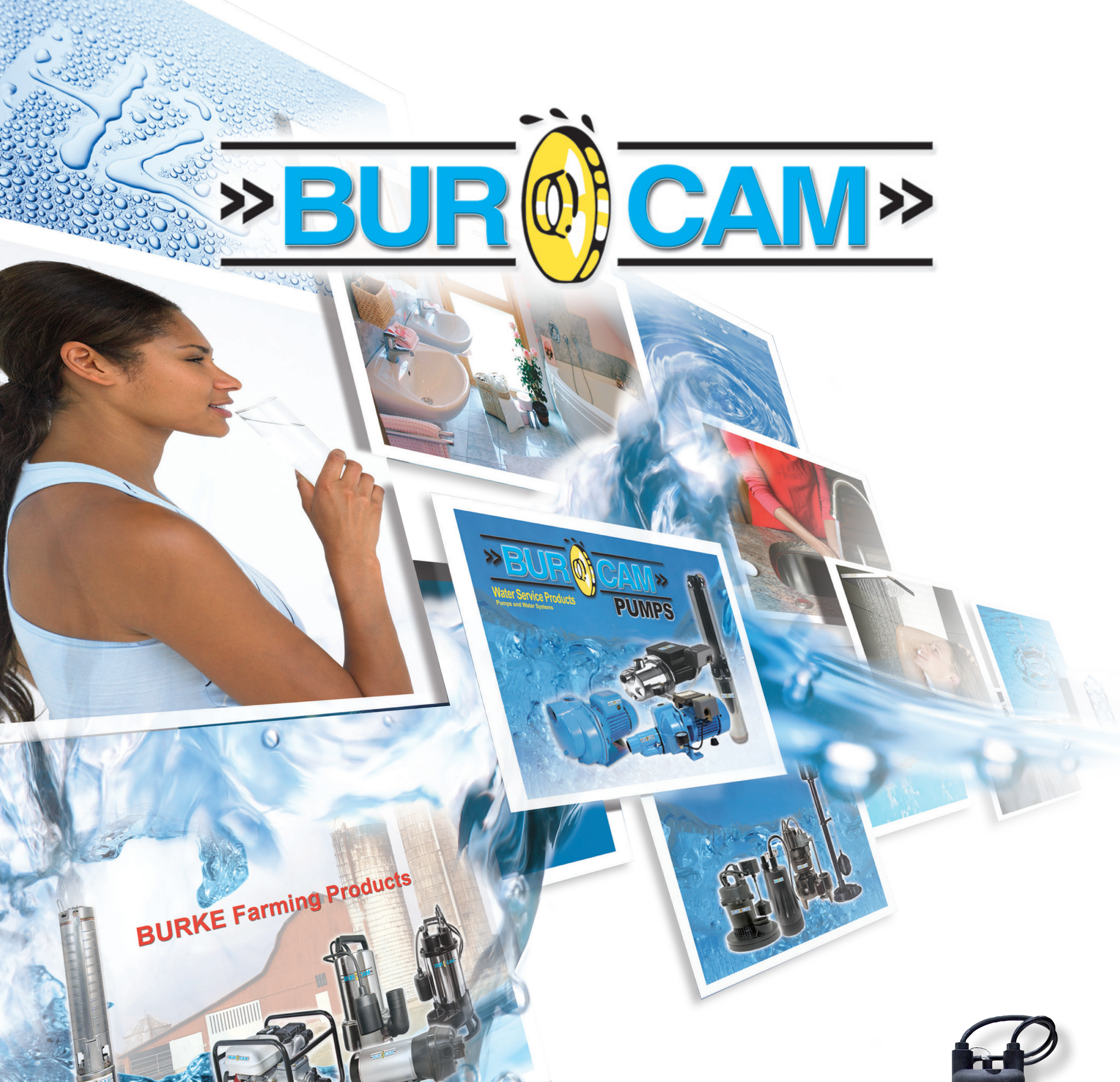

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