4" SUBMERSIBLE MOTORS

These motors are built for dependable operation in 4" diameter or larger water wells.

BASIC FEATURES

- Corrosion-resistant stainless steel exterior
- Stainless steel splined shaft
- Hermetically-sealed windings
- StatorShield™ resin system
- Filter check valve
- Water lubrication
- Kingsbury-type thrust bearing
- Pressure-equalizing diaphragm
- Built-in lightning arrestors (all single-phase; 200 & 300 V three-phase)
- Removable Water-Bloc™ lead
- Franklin-manufactured control boxes available for single-phase motors
- UL 778 recognized (North American voltages)
- CSA certified
- ANSI/NSF 61 certified
- Industry standard NEMA mounting dimensions



SPECIAL FEATURES

- Flow inducer sleeve not required in water up to 86 °F (30 °C) for motors through 2 hp
- Two-wire motors are split-phase designs with integral starting components and do not require a control box; features Franklin's patented 2-wire BIAC starting switch, which provides reverse impact torque to aid starting in adverse environments and prevents extreme fast cycling (e.g. water-logged tank)
- Three-wire motors through 1 hp use Franklin's exclusive three-wire QD (Quick Disconnect) Control Box with the patented QD Relay. This relay provides the ultimate in operational life
- Single-phase motors can be used with Pumptec products to protect against dry-run and other installation conditions that can damage motors and/or pumps; see single-phase protection devices for details

CONSTANT PRESSURE OPTION

- Use Franklin's MonoDrive controller with 1.5 hp three-wire, single-phase motors to provide constant water pressure
- Three-phase motors can be used with SubDrive controllers to provide constant water pressure

POLLUTION RECOVERY OPTION

- Pollution Recovery motors are equipped for use in monitoring and recovery wells in which hydrocarbons and other chemicals may be present
- Features nitrile rubber parts and other chemical-resistant materials as listed in the construction materials chart

4" SUBMERSIBLE MOTORS - SPECIFICATIONS AND MATERIALS

MOTOR SPECIFICATIONS

Hz	Model	Phase	HP Range	kW Range	Poles	RPM	Max. Ambient Temp.	Duty Rating
50	Super Stainless	1	0.5 - 1.5	0.37 - 1.1	2	2875	86 °F / 30 °C	Continuous
		1	0.3 - 3	0.25 - 2.2				Continuous*
		3	0.5 - 3	0.37 - 2.2				Continuous*
	Pollution Recovery	1	0.5 - 1.5	0.37 - 1.1				Continuous
		1	0.3 - 2	0.25 - 1.5				Continuous*
		3	0.5 - 2	0.37 - 1.5				Continuous*
	High Thrust	1	1.5 - 5	1.1 - 3.7				Continuous*
		3	1.5 - 10	1.1 - 7.5				Continuous*
60	Super Stainless	1	0.3 - 1.5	0.25 - 1.1		3450		Continuous
		1	0.3 - 3	0.25 - 2.2				Continuous*
		3	0.5 - 3	0.37 - 2.2				Continuous*
	Pollution Recovery	1	0.3 - 1.5	0.25 - 1.1				Continuous
		1	0.3 - 2	0.25 - 1.5				Continuous*
		3	0.5 - 2	0.37 - 1.5				Continuous*
	High Thrust	1	1.5 - 5	1.1 - 3.7				Continuous*
		3	1.5 - 10	1.1 - 7.5				Continuous*

** 3 hp motors require 0.25 ft/sec flow past motor*

CONSTRUCTION MATERIALS

Component	Model	Construction Type			
		Standard Water Well	Coalbed Methane	Sand Fighter™	Pollution Recovery
Castings	Super Stainless	304 SS over Iron	-	-	304 SS over Iron
Stator Shell		301 SS	-	-	301 SS
Shaft Extension		17-4 SS or 303 SS	-	-	303 SS
Fasteners		305 SS or 302 SS	-	-	316 SS
Seal Cover		Acetal	-	-	ETFE
Seal		Nitrile Lip	-	-	FKM
Diaphragm		Nitrile	-	-	FKM
Slinger		Nitrile	-	-	FKM
Lead Wire (or Cable)		XLPE	-	-	Lead not furnished with motor
Lead Potting		Epoxy	-	-	Lead not furnished with motor
Lead Jam Nut		303 SS	-	-	Lead not furnished with motor

Component	Model	Construction Type			
		Standard Water Well	Coalbed Methane	Sand Fighter™	Pollution Recovery
Top Castings	High Thrust	303 SS	303 SS	303 SS	-
Bottom Castings		303 SS over painted cast iron	303 SS over painted cast iron	303 SS over painted cast iron	-
Stator Shell		301 SS	301 SS	301 SS	-
Stator Ends		Low-carbon steel	Low-carbon steel	Low-carbon steel	-
Shaft Extension		17-4 SS	17-4 SS	17-4 SS	-
Fasteners		300 series SS	300 series SS	300 series SS	-
Seal Cover		Acetal	Sintered bronze	Sintered bronze	-
Seal		Nitrile lip	Sand Fighter™ SiC/ SiC mech. seal	Sintered bronze	-
Diaphragm		Nitrile	Nitrile	Nitrile	-
Diaphragm Cup		316 SS	316 SS	316 SS	-
Diaphragm Spring		316 SS	316 SS	316 SS	-
Diaphragm Cover		Gray iron	Gray iron	304 SS	-
Slinger		Nitrile	Nitrile	Nitrile	-
Lead Wire (or Cable)		XLPE*	XLPE*	XLPE*	-
Lead Potting		Epoxy	Epoxy	Epoxy	-
Lead Screws / Clamp		316 SS	316 SS	316 SS	-
Filter		Delrin/polyester	Delrin/polyester	Delrin/polyester	-

Franklin Electric

4" SUBMERSIBLE MOTORS - ORDERING INFORMATION

3-WIRE MODELS

HP	Description	Volts	Hz	S.F.	Motor Lead	Model No.	In Stock	Thrust Rating	Wt. (Lbs)
1/3	Water Well	115	60	1.75	Yes	2145029004GS	Yes	300	17
		220	50	1.0	-	2145534116GS	-	300	17
		230	60	1.75	-	2145034416GS	-	300	17
		230	60	1.75	Yes	2145039004GS	Yes	300	17
	Pollution Recovery	115	60	1.75	-	2145024916GS	-	300	17
		230	60	1.75	-	2145034916GS	-	300	17
1/2	Water Well	115	60	1.6	-	2145044416GS	-	300	19
		115	60	1.6	Yes	2145049004GS	Yes	300	19
		220	50	1.0	-	2145554116GS	Yes	300	19
		220	50	1.0	Yes	2145559204GS	Yes	300	19
		230	60	1.6	-	2145054416GS	-	300	19
		230	60	1.6	Yes	2145059004GS	Yes	300	19
	Pollution Recovery	115	60	1.6	-	2145044916GS	-	300	19
		230	60	1.6	-	2145054916GS	-	300	19
3/4	Water Well	220	50	1.0	-	2145574116GS	Yes	300	21
		220	50	1.0	Yes	2145579204GS	-	300	21
		230	60	1.5	-	2145074416GS	-	300	21
		230	60	1.5	Yes	2145079004GS	Yes	300	21
	Pollution Recovery	230	60	1.5	-	2145074916GS	-	300	21
	Series 600M	230	60	1.5	Yes	2145070600GS	Yes	300	22
1	Water Well	220	50	1.0	-	2145581903GS	Yes	650	24
		220	50	1.0	Yes	2145589203GS	Yes	650	24
		230	60	1.4	-	2145081203GS	-	650	24
		230	60	1.4	Yes	2145089003GS	Yes	650	24
	Pollution Recovery	230	60	1.4	-	2145082303GS	-	650	24
	Series 600M	230	60	1.4	Yes	2145080610GS	Yes	650	25
1.5	Water Well	220	50	1.0	-	2243501903GS	Yes	650	28
		220	50	1.0	Yes	2243509203GS	Yes	650	28
		230	60	1.3	-	2243001903GS	Yes	650	28
		230	60	1.3	Yes	2243009203GS	Yes	650	28
		230	60	1.3	-	2243008600G	-	1500	38
	Pollution Recovery	230	60	1.3	-	2243002303GS	-	650	28
	Series 600M	230	60	1.3	Yes	2243000610GS	Yes	650	25
	316 SS	230	60	1.3	Yes	2243008502G	-	1500	40
2	Water Well	220	50	1.0	-	2243511916GS	Yes	650	33
		220	50	1.0	Yes	2243519204GS	Yes	650	33
		220	50	1.0	Yes	2243518602G	-	1500	43
		230	60	1.25	-	2243011916GS	Yes	650	33
		230	60	1.25	Yes	2243019204GS	Yes	650	33
		230	60	1.25	-	2243018600G	-	1500	43
		230	60	1.25	Yes	2243018602G	-	1500	43
	Pollution Recovery	230	60	1.25	-	2243012316GS	-	650	33
	Series 600M	230	60	1.25	Yes	2243010610GS	Yes	650	29
	Sand Fighter™	230	60	1.15	Yes	2243018802G	Yes	1500	43
	Oil Stripper	230	60	1.25	Yes	2243018702G	-	1500	46
	316 SS	230	60	1.25	Yes	2243018502G	-	1500	45
3	Water Well	220	50	1.0	-	2243522504G	Yes	900	41
		220	50	1.0	-	2243528600G	-	1500	56
		230	60	1.15	-	2243022504G	-	900	41
		230	60	1.15	Yes	2243022604G	Yes	900	41
		230	60	1.15	-	2243028600G	-	1500	56
		230	60	1.15	Yes	2243028602G	Yes	1500	56
	Series 600M	230	60	1.15	Yes	2243020620G	Yes	900	35
		230	60	1.15	Yes	2243020630G	Yes	1500	44
	Sand Fighter™	230	60	1.15	Yes	2243028802G	Yes	1500	56
	Oil Stripper	230	60	1.15	Yes	2243028702G	-	1500	56
	316 SS	230	60	1.15	Yes	2243028502G	-	1500	56
5	Water Well	220	50	1.0	-	2243538600G	Yes	1500	71
		230	60	1.15	-	2243038600G	-	1500	71
		230	60	1.15	Yes	2243038602G	Yes	1500	71
	Series 600M	230	60	1.15	Yes	2243030630G	Yes	1500	56
	Sand Fighter™	230	60	1.15	Yes	2243038802G	Yes	1500	71
	Oil Stripper	230	60	1.15	Yes	2243038702G	-	1500	71
	316 SS	230	60	1.15	Yes	2243038502G	-	1500	71

NOTE: Pack Designation (--S) = Single Pack, available in any quantity; All 3 hp motors are single-packed; Contact factory for lead time for non-stocked items; Pallet packs available but not shown; Contact customer service for availability