

# POOL AND SPA OEM PUMP/MOTOR REPLACEMENT GUIDE

## Square Flange and C-Flange Motors

<p>Motors and pumps need to be properly matched to one another to provide consistent, predictable performance. When selecting your Emerson® replacement motor you will need to know six important pieces of information:</p> <p>1) Pump Mounting (ie. Square Flange, C-Flange, etc.)                  2) Horsepower                  3) Service Factor                  4) Voltage                  5) Frequency                  6) Phase</p> <p>Most of this information can be attained from the motor nameplate. Always be sure that the total of horsepower times service factor of your new Emerson® motor is equal to or greater than the total of horsepower times service factor of the original motor.</p> <p>Total Output HP = (horsepower) X (service factor)</p>	Pump OEM	Brand Name	Category	Pump OEM	Brand Name	Category
	American	American Eagle	J	Jacuzzi Bros.	Magnum®/Magnum Force®	J
	American	(Ultra-Flow/Power Pump)	S	Letro	Legend®	P
	Aqua Flo	Ultra flow	C	Pentair/American	Ultra-Flow®	S
	Aqua Flo	Dominator	S	Pentair/Pac Fab	Challenger®	S
	Astral	2000 Series	J	Pentair/Pac Fab	Hydro Pump®	C
	Baker Hydro	Hydron	J	Pentair/Purex	Pinnacle®	S
	Hayward	Super Pump®	J	Pentair/Purex/Hydrotech		J
	Hayward	Super Pump® II	J	Polaris	Vac-Sweep® PB4 Booster Pump	P
	Hayward	Max-Flo®	J	Premier/Springwater		C
	Hayward	Northstar	N	Speck Pumps	Models 90,98,423,433,21-80	J
	Hayward	Tristar®	T	Sta-Rite	Dura-Glas®/Max-E-Glas®	S
	ITT Marlow	Argonaut	J	Sta-Rite	Dura-Glas® II/Max-E-Glas® II	S
	Jacuzzi Bros.	Bronze	C	Waterway	SVL56	S
	Jacuzzi Bros.	Cygnets®	S	Wet Institute		C
	Jacuzzi Bros.	Plastic	J	WMC		J

CATEGORY "C" NEMA C-FLANGE KEYED SHAFT				
HP	Service Factor	Voltage	Standard Efficiency 6.5" Frame	Energy Efficient extreme-E® 6.5" Frame
1/2	1.60	230/115	EB120	EB656
3/4	1.50	230/115	EB121	EB634
1	1.40	230/115	EB122	EB653
1.5	1.30	230/115	EB123	EB795
2	1.20	230	EB124	EB808
3	1.15	208-230		EB817

CATEGORY "J" NEMA C-FLANGE THREADED SHAFT						
HP	Service Factor	Voltage	Standard Efficiency 6.5" Frame	Standard Efficiency 5.5" Frame	Energy Efficient extreme-E® 6.5" Frame	Energy Efficient extreme-E® 5.5" Frame
1/2	1.60	230/115	EB126	EST1052	EB657	ECT1052
3/4	1.00	230/115	EB227	EUST1072		
	1.50	230/115	EB127	EST1072	EB638	ECT1072
1	1.00	230/115	EB228	EUST1102		
	1.40	230/115	EB128	EST1102	EB654	ECT1102
1.5	1.00	230/115	EB229	EUST1152		
	1.30	230/115	EB129	EST1152	EB796	
2	1.00	230/115	EB230	EUST1202		
	1.20	230	EB130	EST1202	EB809	
2.5	1.00	230	EB231	EUST1252		
3	1.15	208-230			EB818	
5	1.00	208-230			EB819	

CATEGORY "N" HAYWARD NORTHSTAR G-FLANGE THREADED SHAFT				
HP	Service Factor	Voltage	Standard Efficiency 6.5" Frame	Energy Efficient extreme-E® 6.5" Frame
3/4	1.85	208-230/115		ESN1072
1	1.40	208-230/115		EUSN1102
1	1.85	208-230/115		ESN1102
1.5	1.25	208-230/115		EUSN1152
1.5	1.60	208-230/115		ESN1152
2	1.20	208-230/115		EUSN1202
2	1.35	208-230		ESN1202
3	1.20	208-230		EUSN1302
3	1.60	208-230		ESN1302

CATEGORY "S" SQUARE FLANGE						
HP	Service Factor	Voltage	Standard Efficiency 6.5" Frame	Standard Efficiency 5.5" Frame	Energy Efficient extreme-E® 6.5" Frame	Energy Efficient extreme-E® 5.5" Frame
1/2	1.30	230/115	EB856	EUSQ1052		
	1.90	230/115	EB846	ESQ1052	EB845	EQC1052
3/4	1.27	230/115	EB852	EUSQ1072		EUQC1072
	1.65	230/115	EB847	ESQ1072	EB661	EQC1072
1	1.25	230/115	EB853	EUSQ1102		EUQC1102
	1.65	230/115	EB848	ESQ1102	EB841	EQC1102
1.5	1.10	230/115	EB854	EUSQ1152		EUQC1152
	1.50	230/115	EB858	ESQ1152	EB842	
2	1.10	230/115	EB859	EUSQ1202		
	1.30	230	EB748	ESQ1202	EB843	
2.5	1.04	230	EB840	EUSQ1252		
3	1.15	208-230	EB844		EB844	
5	1.00	208-230			EB850	

CATEGORY "T" HAYWARD TRISTAR REPLACEMENTS - SQUARE FLANGE				
HP	Service Factor	Voltage	Standard Efficiency 6.5" Frame	Energy Efficient extreme-E® 6.5" Frame
1/2	1.98	208-230/115		ET3205
3/4	1.85	208-230/115		ET3207
3/4	1.25	230/115	EB852	
1	1.85	208-230/115		ET3210
1	1.25	230/115	EB853	
1.5	1.60	208-230/115		ET3215
1.5	1.10	230/115	EB854	
2	1.35	208-230		ET3220
2	1.10	230/115	EB859	
2.5	1.04	230	EB840	
3	1.20	208-230		ET3230
3	1.15	208-230	EB844	

CATEGORY "P" POOL CLEANERS				
HP	Service Factor	Voltage	Brand	Emerson 56™ 6.5" Frame
3/4	1.50	230/115	Polaris	EB625
	1.50	208-230/115	Polaris	EB626
	1.50	230/115	Letro	EB668

† All non-Emerson Electric Co. marks shown within this document are properties of their respective owners.