

NEW Models Available!

PENTEK® XE SERIES 4" HIGH-THRUST SUBMERSIBLE MOTORS.



XE Series

Pentair Water
293 Wright St., Delavan, Wisconsin 53115
1-866-9-PENTEK, www.pumps.com



PENTEK®
Pentair Water



FINALLY, A MOTOR AS TOUGH AS OUR PUMPS.

- ▶ Proved to be as tough as our pumps in rigorous field and lab testing.
- ▶ 2-wire permanent split capacitor design draws 20% fewer amps than competitors' motor designs — the *Best in its Class*.
- ▶ 3-wire motors are 20% more efficient when sized with PENTEK SMC-CR control box.
- ▶ Quieter operation! 2-wire PSC design includes patented toroidal capacitor for smooth, vibration-free performance.
- ▶ 304L stainless steel end bells and shell provide maximum corrosion-resistance.
- ▶ Oversized Kingsbury-type bearings allow for higher thrust loads, promoting longer motor life.
- ▶ Professional grade Class F compliant motor insulation provides improved thermal handling and ensures longer motor life—2X that of Class B insulation design motors.
- ▶ All 115V and 230V motors are equipped with surge arrestors to provide maximum protection against lightning, transient and voltage surge conditions.
- ▶ Automatic motor thermal protection provides maximum protection against motor overheating. Standard on 2-wire designs to 1-1/2 HP and 3-wire designs to 1 HP single-phase. Provided in control box for all other ratings.
- ▶ PENTEK XE SERIES 4" High-Thrust Submersible Motors are backed by a 5-Year "no paperwork" Warranty PLUS 1-Year labor agreement (see programs for details).

Protector
+Plus Extended
Warranty
Program



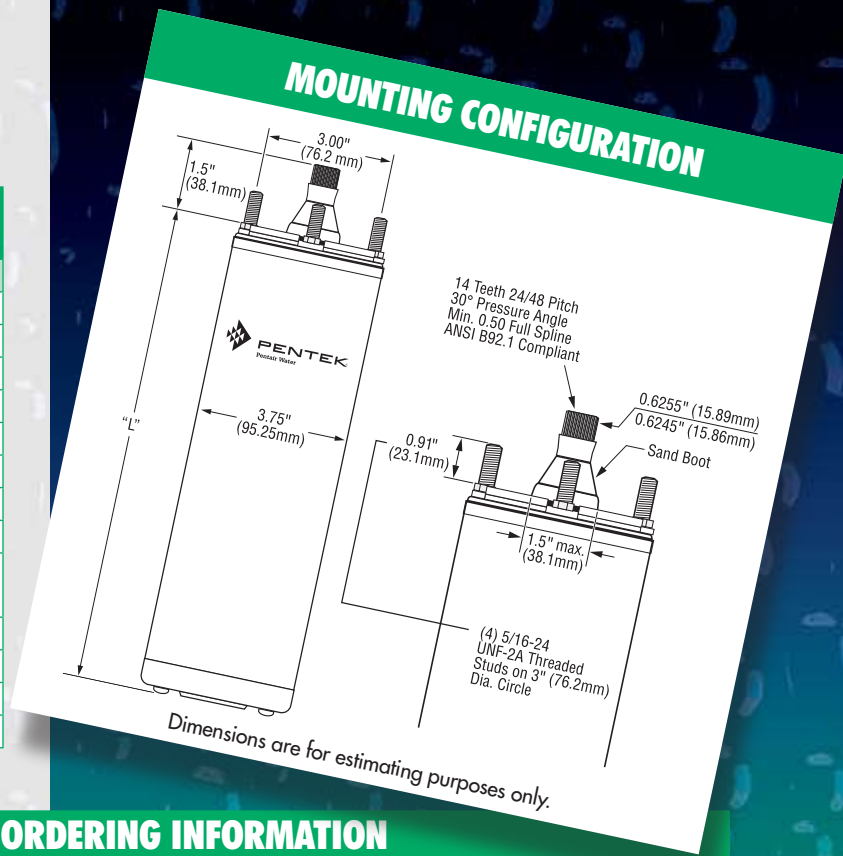
Tested. Tough. Technology.

4" HIGH-THRUST SUBMERSIBLE MOTORS

MATERIALS OF CONSTRUCTION

PARTS	MATERIALS
End Bell	304L cast stainless steel, rounded bottom
Shell	304L stainless steel, laser-welded to end bells
Motor Shaft	17-4 precipitation hardened SS
Insulation	Class F, 311°F (155°C)
Max. Water Temp.	86°F (30°C)
Fasteners	304-grade stainless steel
Lip Seal	Nitrile
Sand Boot	Nitrile
Cable	Field-serviceable, controlled compression design UL, CSA and NSF approved
Cable Length	48" - 1/2 HP to 1-1/2 HP; 100" - 2 HP and above
Diaphragm	EPDM
Thrust Bearings	Kingsbury-type, pivot shoe, carbon graphite mating ring
Thrust Load Capacity	Varies by rating. See table below.

Consult PENTEK Electronics Manual for high-temperature applications.



TECHNICAL DATA and ORDERING INFORMATION (Newly Available Ratings Highlighted in Yellow)

HP	kW	Volts	PH	Hz	Catalog Number	Amp Rating (full load)	Amp Rating (S.E)	Locked Rotor Amps	Winding Resistance* (Ohms)	Thrust Load Capacity (Lbs.)	Length (L) In.	Weight Lbs.
TWO-WIRE PSC MOTORS												
1/2	0.37	115	1	60	P42B0005A1	7.4	9.5	36.4	1.3-1.8	700	11.0	19.2
		230	1	60	P42B0005A2	3.7	4.7	19.5	4.5-5.2	700	11.0	19.2
3/4	0.55	230	1	60	P42B0007A2	5.0	6.4	24.8	3.0-4.8	700	12.4	22.7
1	0.75	230	1	60	P42B0010A2	7.9	9.1	21.7	4.2-5.2	700	13.3	24.5
1-1/2	1.1	230	1	60	P42B0015A2	9.2	11.0	42.0	1.9-2.3	700	14.9	28.9
THREE-WIRE MOTORS												
1/2	0.37	115	1	60	P43B0005A1	11.0	12.6	49.6	M=0.9-1.6, S=5.7-7.0	700	10.0	18.9
		230	1	60	P43B0005A2	5.5	6.3	22.3	M=4.2-4.9, S=17.4-18.7	700	9.7	18.1
3/4	0.55	230	1	60	P43B0007A2	7.2	8.3	32.0	M=2.6-3.6, S=11.8-13.0	700	10.8	21.4
1	0.75	230	1	60	P43B0010A2	8.4	9.7	41.2	M=2.2-3.2, S=10.3-12.3	700	11.7	23.1
1	0.75	230	3	60	P43B0010A3	4.0	4.7	26.1	4.1-5.5	700	11.7	23.1
1-1/2	1.1	230	1	60	P43B0015A2	9.2	11.1	47.8	M=1.6-2.3, S=7.9-8.7	700	13.6	27.4
1-1/2	1.1	230	3	60	P43B0015A3	5.2	6.1	32.4	2.8-3.4	700	11.7	23.1
2	1.5	230	1	60	P43B0020A2	9.9	12.2	49.4	M=1.6-2.2, S=10.8-12.0	900	15.1	31.0
2	1.5	230	3	60	P43B0020A3	6.5	7.6	44.0	1.8-2.4	900	13.8	27.4
3	2.2	230	1	60	P43B0030A2	14.3	16.5	76.4	M=1.1-1.4, S=2.0-2.5	900	18.3	40.0
3	2.2	230	3	60	P43B0030A3	9.2	10.1	58.9	1.3-1.7	900	15.3	32.0
5	3.7	230	1	60	P43B0050A2	24	27.0	101.0	M=.62-.76, S=1.36-1.66	1500	27.7	70.0
5	3.7	230	3	60	P43B0050A3	15.7	17.5	93.0	0.85-1.25	1500	21.7	55.0
7-1/2	5.5	230	3	60	P43B0075A3	24	26.4	140.0	0.55-0.85	1500	27.7	70.0
1	0.75	460	3	60	P43B0010A4	2.2	2.5	13.0	17.8-18.8	700	11.7	23.1
1-1/2	1.1	460	3	60	P43B0015A4	2.8	3.2	16.3	12.3-13.1	700	11.7	23.1
2	1.5	460	3	60	P43B0020A4	3.3	3.8	23.0	8.0-8.67	900	13.8	27.4
3	2.2	460	3	60	P43B0030A4	4.8	5.3	30.0	5.9-6.5	900	15.3	32.0
5	3.7	460	3	60	P43B0050A4	7.6	8.5	48.0	3.58-4.00	1500	21.7	55.0

*All values reflect line to line resistance unless indicated as Main (M) and Start (S).

NOTE: Amp ratings on 3-wire motors reflect use with CSIR controls. A CSCR control is recommended for lower values.