6" AND 8" SUBMERSIBLE MOTORS

XE-6/XE-8 SERIES

The Pentek XE-6 /XE-8 6" and 8" Submersible Motors deliver outstanding performance through lower amp draw and higher efficiencies, which yields lower operating costs. Combined with many durable, innovative, and advanced design features, the Pentek XE-6 and XE-8 Series is the perfect solution for submersible motor needs.

APPLICATIONS

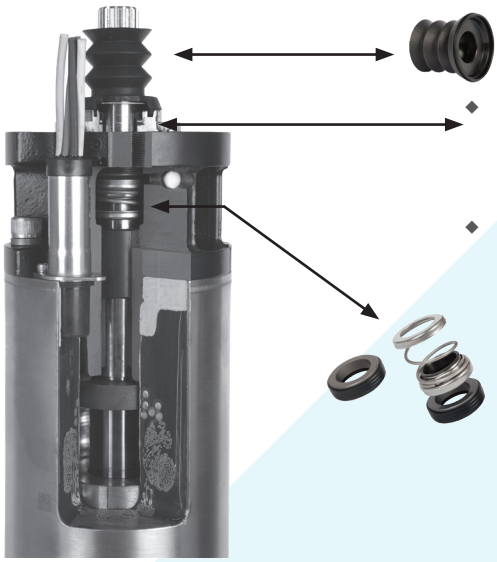
High-thrust water well applications.

FEATURES

- Exceptional insulation Class F rating and temperature rating (95 F / 35 C).
- IP68 protection rating.
- VFD-compatible.
- Vertical or horizontal operation.

SPECIFICATIONS

- **Shaft:** 17-4 stainless steel
- **Motor Casing:** 304 stainless steel
- **Upper and Lower Bracket:** TNEMEC 140 epoxy-coated cast iron coating (NSF-certified coating)
- **Upper Bracket:** Dual-flange design
- **Motor Lead:** XLPE
- **Thrust Bearing:** Water-lubricated, Kingsbury-type
- **Pressure Equalizing Diaphragm:** Springless design



EXCLUSIVE ADVANCED PROTECTION SYSTEM

Provides three layers of defense against sand and debris intrusion:

- **External Sand Slinger Boot**
  - Features a labyrinth seal design to better capture any sand or debris, keeping it away from the shaft.
- **Lip Seal**
  - Located below the sand slinger to provide an extra layer of protection.
- **Silicon Carbide Mechanical Seal**
  - Excellent abrasion, wear, and corrosion resistance.
  - Resists deflection in high-pressure, high-heat, and high-speed conditions.
  - High thermal conductivity (heat dissipation).
  - Provides superior protection against sand intrusion.

Drinking Water 267305
NSF/ANSI 61
NSF/ANSI 372

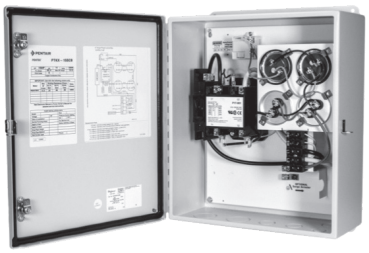
PN12129WS (03-01-24)

MOTOR PERFORMANCE AND DIMENSIONAL DATA

	XE-6	XE-8
NOMINAL DIAMETER	6" / 152.4mm	8" / 203.2mm
EFFECTIVE DIAMETER	5.43" / 138mm	7.70" / 195.6mm
SHAFT EXTENSION	2.87" / 73mm	4.00" / 101.6mm
INSULATION	Class F	
HZ/POLE/SPEED	60Hz / 2 Pole / 3450 RPM	

						FULL LOAD				SERVICE FACTOR 1.15				LOCKED ROTOR AMPS	THRUST LOAD (LBS)	KVA CODE	LENGTH (includes shaft ext)		WEIGHT		CRATE						WEIGHT MOOR +CRATE	
																					L		W		H			
PHASE	MODEL #	HP	KW	VOLTS	AMPS	WATTS	EFF%	PF%	AMPS	WATTS	EFF%	PF%				IN	MM	LBS	KG	IN	MM	IN	MM	IN	MM	LBS	KG
6" Motors	P60A0050A2	5	3.70	230	22.8	4975	74.5	97.0	26.0	5625	75.5	97.0	104	3600	E	25.6	650	104	47.2	32	813	10	254	13.5	343	134	60.8
1	P60A0075A2	7.5	5.60		35.2	7300	77.0	92.0	40.0	8300	77.5	92.5	162		F	28.1	714	117	53.1							151	68.5
	P60A0100A2	10	7.50		45.7	9700	76.5	94.0	52.4	11175	76.5	94.0	202		E	30.3	770	132	59.9	48	1219	10	254	13.5	343	166	75.3
	P60A0150A2	15	11.20		62.4	13725	81.5	98.0	72.5	15825	81.5	98.0	296		E	32.8	833	144	65.3							178	80.7
	P60A0050A8	5	3.7	200	16.1	4830	77.5	86.5	18.0	5490	78.5	88.0	96		H	23.0	583	87	39.5							115	52.2
	P60A0075A8	7.5	5.5		23.3	7000	80.0	87.5	26.8	8070	80.0	88.5	140		H	24.3	618	97	44.0	32	813	10	254	13.5	343	127	57.6
	P60A0100A8	10	7.5		31.5	9090	82.5	86.5	35.0	10400	82.5	88.0	187		H	25.6	650	104	47.2							134	60.8
	P60A0150A8	15	11		44.9	13440	83.5	87.0	50.8	15460	83.5	88.5	268		H	28.1	713	117	53.1							151	68.5
	P60A0200A8	20	15		59.0	17850	83.0	87.5	67.1	20630	83.0	89.0	354		H	30.3	770	132	59.9							166	75.3
	P60A0250A8	25	19		76.8	22110	84.0	85.5	86.5	25520	84.0	87.5	445		H	32.8	834	144	65.3	48	1219	10	254	13.5	343	180	81.6
	P60A0300A8	30	22		91.7	26420	84.5	86.0	103.3	30450	84.5	87.5	530		H	35.6	904	165	74.8							207	93.9
	P60A0050A3	5	3.7	230	14.4	4830	77.5	86.5	16.1	5490	78.5	88.0	87		H	23.0	583	87	39.5							115	52.2
	P60A0075A3	7.5	5.5		21.5	7000	80.0	87.5	24.1	8070	80.0	88.5	127		H	24.3	618	97	44.0	32	813	10	254	13.5	343	127	57.6
	P60A0100A3	10	7.5		28.0	9090	82.5	86.5	31.5	10400	82.5	88.0	164		H	25.6	650	104	47.2							134	60.8
	P60A0150A3	15	11		40.9	13440	83.5	87.0	46.3	15460	83.5	88.5	237		H	28.1	713	117	53.1							151	68.5
	P60A0200A3	20	15		53.2	17850	83.0	87.5	60.8	20630	83.0	89.0	312		G	30.3	770	132	59.9							166	75.3
	P60A0250A3	25	19		66.7	22110	84.0	85.5	76.0	25520	84.0	87.5	387		G	32.8	834	144	65.3	48	1219	10	254	13.5	343	180	81.6
	P60A0300A3	30	22		79.3	26420	84.5	86.0	90.2	30450	84.5	87.5	458		G	35.6	904	165	74.8							207	93.9
	P60A0050A4	5	3.7	460	7.0	4830	77.5	86.5	8.0	5490	78.5	88.0	44		H	23.0	583	87	39.5							115	52.2
3	P60A0075A4	7.5	5.5		10.0	7000	80.0	87.5	11.3	8070	80.0	88.5	62		H	24.3	618	97	44.0	32	813	10	254	13.5	343	127	57.6
	P60A0100A4	10	7.5		13.1	9090	82.5	86.5	14.8	10400	82.5	88.0	82		H	25.6	650	104	47.2							134	60.8
	P60A0150A4	15	11		20.4	13440	83.5	87.0	23.0	15460	83.5	88.5	117		G	28.1	713	117	53.1							151	68.5
	P60A0200A4	20	15		25.8	17850	83.0	87.5	29.4	20630	83.0	89.0	151		G	30.3	770	132	59.9							166	75.3
	P60A0250A4	25	19		32.8	22110	84.0	85.5	36.8	25520	84.0	87.5	187		G	32.8	834	144	65.3	48	1219	10	254	13.5	343	180	81.6
	P60A0300A4	30	22		39.3	26420	84.5	86.0	44.6	30450	84.5	87.5	226		G	35.6	904	165	74.8							207	93.9
	P60A0400A4	40	30		51.3	35030	85.0	87.5	58.6	40500	85.0	89.0	302	6750	G	39.3	999	187	84.8	64	1626	10	254	13.5	343	229	103.9
	P60A0500A4	50	37		65.8	44350	84.0	87.0	75.1	51200	84.0	88.0	385		G	54.1	1374	265	120.2							319	144.7
	P60A0050A5	5	3.7	575	5.8	4830	77.5	86.5	6.5	5490	78.5	88.0	35	3600	H	23.0	584	87	39.5							115	52.2
	P60A0075A5	7.5	5.5		8.2	7000	80.0	87.5	9.3	8070	80.0	88.5	51		H	24.3	617	97	44.0	32	813	10	254	13.5	343	127	57.6
	P60A0100A5	10	7.5		10.5	9090	82.5	86.5	11.8	10400	82.5	88.0	61		G	25.6	650	104	47.2							134	60.8
	P60A0150A5	15	11		15.0	13440	83.5	87.0	17.1	15460	83.5	88.5	88		G	28.1	714	117	53.1							151	68.5
	P60A0200A5	20	15		20.9	17850	83.0	87.5	23.7	20630	83.0	89.0	122		G	30.3	770	132	59.9							166	75.3
	P60A0250A5	25	19		26.2	22110	84.0	85.5	29.7	25520	84.0	87.5	153		G	32.8	833	144	65.3	48	1219	10	254	13.5	343	180	81.6
	P60A0300A5	30	22		31.0	26420	84.5	86.0	35.0	30450	84.5	87.5	179		G	35.6	904	165	74.8							207	93.9
	P60A0400A5	40	30		41.5	35030	85.0	87.5	47.3	40500	85.0	89.0	247	6750	G	39.3	998	187	84.8	64	1626	10	254	13.5	343	229	103.9
8" Motors	P86A0500A4	50	37	460	65	43675	85.5	87.0	74	49950	86.0	88.0	540	10000	K	38.9	987	330	150							382	174
	P86A0600A4	60	45		78	52225	85.5	88.0	89	59825	86.0	88.5	645		K	41.6	1057	371	168							423	192
	P80A0500A4	50	37		65	43675	85.5	87.0	74	49950	86.0	88.0	540		K	38.9	987	344	156	60	1524					396	180
	P80A0600A4	60	45		78	52225	85.5	88.0	89	59825	86.0	88.5	645		K	41.6	1057	385	175							437	199
	P80A0750A4	75	56		95	64850	86.5	88.5	109	74650	86.5	89.0	803		K	46.6	1184	444	201							496	225
	P80A1000A4	100	75		128	85075	87.5	87.5	146	98350	87.5	88.5	1080		K	58.6	1488	525	238							609	277
3	P80A1250A4	125	93		165	110125	84.5	87.0	188	126825	85.0	87.5	1410		K	66.9	1699	819	371	96	2438.4	12	304.8	15	381	903	410
	P80A1500A4	150	112		203	133025	84.5	85.5	228	151100	85.0	86.5	1643		K	75.1	1908	932	423							1016	462
	P80A0500A5	50	37	575	52	43675	85.5	87.0	60	49950	86.0	88.0	439		K	38.9	987	344	156							396	180
	P80A0600A5	60	45		61	52225	85.5	88.0	70	59825	86.0	88.5	518		K	41.6	1057	385	175	60	1524					437	199
	P80A0750A5	75	56		76	64850	86.5	88.5	88	74650	86.5	89.0	645		K	46.6	1184	444	201							496	225
	P80A1000A5	100	75		100	85075	87.5	87.5	115	98350	87.5	88.5	855		K	58.6	1488	525	238							609	277
	P80A1250A5	125	93		129	110125	84.5	87.0	148	126825	85.0	87.5	1133		L	66.9	1699	819	371	96	2438.4					903	410
	P80A1500A5	150	112		159	133025	84.5	85.5	178	151100	85.0	86.5	1320		K	75.1	1908	932	423							1016	462

CONTROLS FOR PENTEK XE-6 SINGLE PHASE MOTORS



C 232852 US

- **14 ga steel enclosure with polyester powder-coated paint.**
  - Heavy-duty construction, high durability, and corrosion-resistance.
- **Continuous hinge door.**
  - Easy access. No need to remove during installation or service.
  - Opens past 180° for easy access.
- **Integral mounting flange.**
  - Easy to wall mount while maintaining NEMA 4 rating.
- **Multiple knockout (embossed) options.**
  - Two dual 1/2" - 3/4".
  - Two dual 3/4" - 1".
  - Two dual 1-1/4" - 1-1/2".
- **Seamless, foamed-in-place door gasket.**
  - Excellent protection against intrusion from dirt, dust, rain, sleet, snow, or wind-directed water.
- **Bonding provision on door.**
  - When required by code.
- **NEMA 4 rated enclosure (compare to competition at only NEMA 3).**
- **IP66 Ingress Protection rating.**
- **Opens with two quarter-turn latches.**
  - No risk of lost door fasteners, no tools needed.
- **Locking hasp.**
  - Added security.
- **Sized to 16" x 14".**
  - Generous size allows for more room to work inside the box.
  - Easier conduit attachment, wire pulling, and wire connections.
- **Terminals accept up to 4AWG wire.**
- **Magnetic line contactors.**
  - Included standard on each box.
- **Removable back panel.**
  - All electric components mounted on panel.
  - Easy installation and servicing, when downtime is critical.

PENTEK SINGLE PHASE CONTROL BOXES FOR PENTEK XE-6 SINGLE PHASE MOTORS

- 60Hz • 2 pole.

ORDERING INFORMATION

					CONTROL BOX DIMENSIONS							
					HEIGHT		WIDTH		DEPTH			
PHASE	MODEL #	HP	KW	VOLTS	IN	MM	IN	MM	IN	MM	LBS	KG
1	PTKX-5SCB	5	3.70	230	14.0	356	12.0	304.8	6.0	152.4	30	13.6
	PTKX-7SCB	7.5	5.60								32	14.5
	PTKX-10SCB	10	7.50								33.2	15.1
	PTKX-15SCB	15	11.20									

FAST SHIPPING

- Available same day from the following Pentair locations:
  - Fresno, CA; Delavan, WI; Jacksonville, FL.
- Motors not stocked at your nearest facility will be drop shipped from another stocking location.

PRE-PAID FREIGHT

- Pre-paid freight to distributor location on one or more motors.
- If motor order is combined with other Pentair products, standard pre-paid freight terms apply.

WARRANTY

- 12 months from Date of Installation / 24 months from Date of Manufacture.
- For members of the Pro Dealer program, warranty is 24 months from Date of Installation / 36 months from Date of Manufacture.

NOTE: Pentek XE-6 single phase motors must use the corresponding Pentek control box. Use of any other control box will void the warranty.

293 Wright St
Delavan, WI 53115
Ph: 888.987.8677
Fx: 800.426.9446

490 Pinebush Road,Unit 4,
Cambridge, Ontario N1T 0A5, Canada
Ph: 800.363.7867
Fx: 888.606.5484

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