

6" AND 8" SUBMERSIBLE MOTORS

XE-6/XE-8 MODELS

Delivers 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 are the perfect solution for your submersible motor needs.

APPLICATIONS

High-thrust water well applications.

FEATURES

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

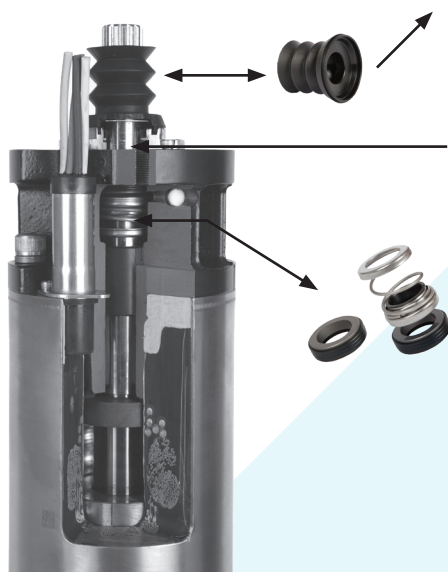
SPECIFICATIONS

- ◆ **Shaft:** 17-4 stainless steel.
- ◆ **Motor Casing:** 304 stainless steel.
- ◆ **Upper and Lower Bracket:** The TNEMEC 140 epoxy-coated, cast iron coating is NSF-certified.
- ◆ **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, providing 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

PENTEK 6" AND 8" SUBMERSIBLE MOTORS

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								
					AMPS	WATTS	EFF%	PF%	AMPS	WATTS	EFF%	PF%				IN	MM	LBS	KG	L		W		H		LBS	KG							
PHASE	MODEL #	HP	KW	VOLTS												IN	MM	LBS	KG	IN	MM	IN	MM	IN	MM	LBS	KG							
6" Motors	1	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						
		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							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						
	2	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	48	1219	10	254	13.5	343	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							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							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	48	1219	10	254	13.5	343	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							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							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						
	3	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	48	1219	10	254	13.5	343	115	52.2						
		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							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							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	G	39.3	999	187	84.8	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	H	23.0	584	87	39.5	3600	813	10	254	13.5	343	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							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							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	G	39.3	998	187	84.8							229	103.9							
8" Motors	3	P86A0500A4	50	37	460	65	43675	85.5	87.0	74	49950	86.0	88.0	540	10000	K	38.9	987	330	150	60	1524					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							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						
		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	60	1524					396	180						
		P80A0600A5	60	45		61	52225	85.5	88.0	70	59825	86.0	88.5	518		K	41.6	1057	385	175							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	12	304.8	15	381	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



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

- 2 - dual 1/2" - 3/4".
- 2 - dual 3/4" - 1".
- 2 - 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.

Size - 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; Grand Island, NE; Delavan, WI; Jacksonville, FL; Lubbock, TX.
- ◆ 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.



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