



6" AND 8" SUBMERSIBLE MOTORS XE-6 AND XE-8 SERIES



LOWER OPERATING COSTS*
LOWER AMPS, LOWER WATTS,
HIGHER EFFICIENCIES

**THREE LAYERS OF DEFENSE AGAINST
SAND AND DEBRIS INTRUSION**

pentair.com/pentek

*6" Motors - SOURCES: Table 8 "Characteristics of Irrigation Wells Used on Farms: 2013" - 2013 Farm and Ranch Irrigation Survey, (from the 2012 Census of Agriculture) United States Department of Agriculture (USDA) National Agricultural Statistics Service (NASS); Table 5.6.A: "Average Retail Price of Electricity to Ultimate Customer by End-Use Sector"; Electric Power Monthly, United States Electric Information Administration (U.S. EIA) data from May 2015; competitors' published data; Pentek XE-6 data tested and published in Pentek XE-6 Owner's Manual PN989 (Rev. 10/01/16). Based on the motor's watts at full service factor; average hours of operation for irrigation wells used on farms; average retail price of electricity for farms

PENTAIR® PENTEK® XE-6 AND XE-8

6" and 8" submersible motors with an encapsulated design for high-thrust water well applications

Delivers outstanding performance through lower amp draw and higher efficiencies, which yield lower operating costs.

Combined with many durable, innovative and advanced design features, Pentek XE-6 and XE-8 are the perfect solution for your submersible motor needs.

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



Shaft - 17-4 stainless steel

- High strength, high corrosion resistance
- Outstanding mechanical properties at high temps
- NEMA splined - spline detail includes chamfered edges for easier assembly to the pump

Motor casing - 304 stainless steel

- The most versatile and widely-used stainless steel
- Optimal forming and welding characteristics
- Excellent corrosion resistance

Upper and lower bracket

- Epoxy-coated cast iron coating is TNEMEC 140
- NSF-certified coating

Upper bracket - dual-flange design

- Faster and easier assembly to the pump

Motor lead - XLPE (not shown)

- 17 - potted connection, including ground wire
- Non-jacketed wire assembly for easier handling and connections
- Fully field replaceable

Thrust bearing

- Water-lubricated, Kingsbury-type
- Thrust ratings are between 3% and 35% better than leading 6" submersible motors



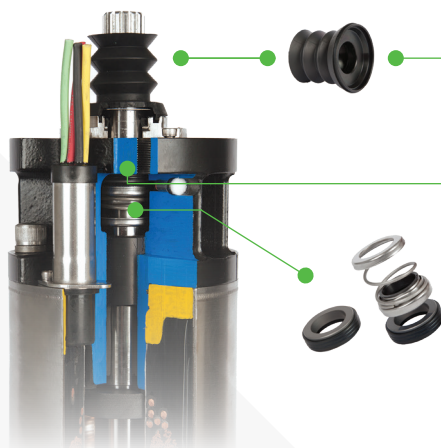
Pressure equalizing diaphragm

- Utilizes static pressure to regulate internal pressure and minimize expansion pressure
- Springless design - less parts, less complexity



EXCLUSIVE ADVANCED PROTECTION SYSTEM

Provides **THREE** layers of defense against sand and debris intrusion



1) External sand slinger boot

- Features a labyrinth seal design to better capture any sand or debris, keeping it away from the shaft

2) Lip seal

- Located below the sand slinger, providing an extra layer of protection

3) Mechanical seal - silicon carbide

- Superior 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

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 MOTOR+CRATE		
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		
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								
6" Motors	P60A0050A8	5	3.7	200- 208	16.1	4830	77.5	86.5	18.0	5490	78.5	88.0	96	3600	H	23.0	583	87	39.5	32	813	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	230	59.0	17850	83.0	87.5	67.1	20630	83.0	89.0	354		H	30.3	770	132	59.9	48	1219	10	254	13.5	343	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	6750	H	23.0	583	87	39.5	32	813	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	48	1219	10	254	13.5	343	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		
	P60A0050A4	5	3.7	7.0	4830	77.5	86.5	8.0	5490	78.5	88.0	44	H	23.0	583		87	39.5	64	1626							10	254	13.5
	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	460	20.4	13440	83.5	87.0	23.0	15460	83.5	88.5	117	6750	G		28.1	713	117	53.1	48	1219	10	254	13.5	343	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		3600		H	23.0	584	87	39.5	32	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	575	20.9	17850	83.0	87.5	23.7	20630	83.0	89.0	122			6750	G	30.3	770	132	59.9	48	1219	10	254	13.5	343	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	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	60	1524	12	304.8	15	381	382	174
	P86A0600A4	60	45		78	52225	85.5	88.0	89	59825	86.0	88.5	645				K	41.6	1057	371	168	60	1524	12	304.8	15	381	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	12	304.8	15	381	396	180
	P80A0600A4	60	45		78	52225	85.5	88.0	89	59825	86.0	88.5	645	K			41.6	1057	385	175	60	1524	12	304.8	15	381	437	199	
	P80A0750A4	75	56		95	64850	86.5	88.5	109	74650	86.5	89.0	803	K			46.6	1184	444	201	60	1524	12	304.8	15	381	496	225	
	P80A1000A4	100	75		128	85075	87.5	87.5	146	98350	87.5	88.5	1080	K			58.6	1488	525	238	96	2438.4	12	304.8	15	381	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	96	2438.4	12	304.8	15	381	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	12	304.8	15	381	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	12	304.8	15	381	437	199		
	P80A0750A5	75	56		76	64850	86.5	88.5	88	74650	86.5	89.0	645	K	46.6		1184	444	201	60	1524	12	304.8	15	381	496	225		
	P80A1000A5	100	75		100	85075	87.5	87.5	115	98350	87.5	88.5	855	K	58.6		1488	525	238	96	2438.4	12	304.8	15	381	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	96	2438.4	12	304.8	15	381	1016	462				

PENTAIR PENTEK CONTROL BOXES

For Pentek XE-6 Single Phase Motors

14 gauge steel enclosure

- 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

- Faster and easier assembly to the pump

Motor lead - XLPE (not shown)

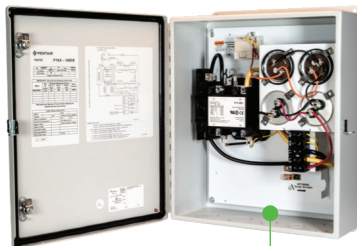
- 2 - dual 1/2" - 3/4"
- 2 - dual 3/4" - 1"
- 2 - dual 1-1/4" - 1-1/2"

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)

					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.



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