



PENTAIR
PENTEK

XE-6 / XE-8

6" AND 8" SUBMERSIBLE MOTORS



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

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

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*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. 10/01/15). 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

PENTEK® XE-6 / XE-8

6" and 8" SUBMERSIBLE MOTORS

For high-thrust water well applications; encapsulated design

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.

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



Drinking Water 267305
NSF/ANSI 61
NSF/ANSI 372



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
- Excellent forming and welding characteristics
- Excellent corrosion resistance

Upper and lower bracket

- Epoxy-coated cast iron - coating is TNEMEC 140, an 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
- Spring-less 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

- 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

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	

PHASE	MODEL #	HP	KW	VOLTS	FULL LOAD				SERVICE FACTOR 1.15				LOCKED ROTOR AMPS	THRUST LOAD (LBS)	KVA CODE	LENGTH (includes shaft ext)		WEIGHT		CRATE				WEIGHT MOTOR+CRATE									
					AMPS	WATTS	EFF %	PF %	AMPS	WATTS	EFF %	PF %				IN	MM	LBS	KG	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	48	1219	10	254	13.5	343	166	75.3						
	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	178	80.7						
	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							115	52.2						
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	127	57.6						
	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							134	60.8						
	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							48	1219	10	254	13.5	343	151	68.5
	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													166	75.3
	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							48	1219	10	254	13.5	343	180	81.6
	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													207	93.9
	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							32	813	10	254	13.5	343	115	52.2
	P60A0050A3	5	3.7		14.4	4830	77.5	86.5	16.1	5490	78.5	88.0	87		H	23.0	583	87	39.5													127	57.6
	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							48	1219	10	254	13.5	343	134	60.8
	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													151	68.5
	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	48	1219	10	254	13.5	343	166	75.3							
	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							180	81.6							
	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	64	1626	10	254	13.5	343	207	93.9							
	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							115	52.2							
	P60A0050A4	5	3.7	7.0	4830	77.5	86.5	8.0	5490	78.5	88.0	44	6750		H	23.0	583	87	39.5	32	813	10	254	13.5	343	127	57.6						
	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							134	60.8						
	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							48	1219	10	254	13.5	343	151	68.5
	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													166	75.3
	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							48	1219	10	254	13.5	343	180	81.6
	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													207	93.9
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	64	1626							10	254	13.5	343	229	103.9		
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													319	144.7		
P60A0500A4	50	37	65.8	44350	84.0	87.0	75.1	51200	84.0	88.0	385	3600		H	23.0	584	87	39.5	32							813	10	254	13.5	343	115	52.2	
P60A0050A5	5	3.7	5.8	4830	77.5	86.5	6.5	5490	78.5	88.0	35			H	24.3	617	97	44.0													127	57.6	
P60A0075A5	7.5	5.5	8.2	7000	80.0	87.5	9.3	8070	80.0	88.5	51			G	25.6	650	104	47.2		48	1219	10	254	13.5	343						134	60.8	
P60A0100A5	10	7.5	10.5	9090	82.5	86.5	11.8	10400	82.5	88.0	61			G	28.1	714	117	53.1													151	68.5	
P60A0150A5	15	11	15.0	13440	83.5	87.0	17.1	15460	83.5	88.5	88			G	30.3	770	132	59.9		48	1219	10	254	13.5	343						166	75.3	
P60A0200A5	20	15	20.9	17850	83.0	87.5	23.7	20630	83.0	89.0	122			G	32.8	833	144	65.3													180	81.6	
P60A0250A5	25	19	26.2	22110	84.0	85.5	29.7	25520	84.0	87.5	153			G	35.6	904	165	74.8		64	1626	10	254	13.5	343						207	93.9	
P60A0300A5	30	22	31.0	26420	84.5	86.0	35.0	30450	84.5	87.5	179			G	39.3	998	187	84.8													229	103.9	
P60A0400A5	40	30	41.5	35030	85.0	87.5	47.3	40500	85.0	89.0	247			10000	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	3600	K		38.9	987	330	150	60	1524						12	304.8	15
	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		52	43675	85.5	87.0	60	49950	86.0		88.0		439	575		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			190															

PENTEK® CONTROL BOXES

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

					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



293 Wright Street | Delavan, WI 53115 | Ph: 888.782.7483 | Orders Fax: 800.426.9446 | www.BerkeleyPumps.com

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