Pump Model: **K4CH**

Physical Data:

Discharge Size	ANSI 4" Horizontal
Solids Size	3-3/16"
Impeller Type	Sime-Open three vane design
Power/Control Cable Length	40' Standard
Paint	Blue, Water Reducible Enamel, One Coat, Air Dried – Standard

Motor Construction:

Motor Type	Enclosed Submersible Oil Filled
NEMA Insulation Code	Class H
Service Factor	1.2
NEMA Design Type	B (3Ø)
Motor Protection	Thermal Sensors Embedded in the Windings
Maximum Stator Temperature	311ºF (155ºC)
Power Cord Type	SOOW - 600V, 90º C; Type W - 2000V, 90º C
Control Cord Type	16-4 or 18-5 - SOOW - 600V, 90º C

Materials of Construction:

Cord Entry	Cast Iron, ASTM A48, Class 35
Motor Housing	Cast Iron, ASTM A48, Class 35
Bearing Housing	Cast Iron, ASTM A48, Class 35
Volute	Cast Iron, ASTM A48, Class 35
Wear Ring	Bronze, CDA 836
Impeller	Cast Steel, AISI 8630
Shaft	ANSI 400 Stainless Steel
Inboard Mechanical Seal	Silicone Carbide / Silicone Carbide
Outboard Mechanical Seal	Silicone Carbide / Silicone Carbide
Fasteners	ANSI 18-8 Stainless Steel
O-Rings	Nitrile Rubber
Upper Bearing	Conrad Style Single Row Deep Groove Ball Bearing
Lower Bearing	Single Row Angular Contact Ball Bearing
Labyrinth Seal	Bronze, CDA 836

Pump Model: **K4CH – 1750 RPM**

Thermal Data:

Maximum Liquid		140º F (60º C) Intermittent
Maximum Stator		311º F (155º C)
Heat Sensor	**Open:**	257º F (125º C) Max. / 239º F (115º C) Min.
	Closed:	194º F (90º C) Max. / 119º F (48º C) Min.
Oil Flash Point		390º F (199º C)

Electrical Data:

RPM	**1750**			
Electrical Ratings	Heat Sensor	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	Seal Fail	300VAC 5mAMPS		
Voltage Tolerance	± 10%			

HP	Voltage	Phase	NEC Code	Service Factor	Full Load AMPS	SF Amps	Locked Rotor AMPS	Run KW	Start KVA	Run KVA
15	208	3	H	1.2	53.8	64.6	277.2	16.5	99.7	18.3
	230				48.9	58.7	249.7			
	460				24.5	29.4	124.9			
	575				19.6	23.5	99.9			
20	208	3	E	1.2	69.3	83.2	277.2	22.4	99.7	25.0
	230				62.4	74.9	249.7			
	460				31.2	37.5	124.9			
	575				25.0	30.0	99.9			
25	208	3	G	1.2	78.5	94.2	417.6	25.5	150.3	28.3
	230				70.7	84.9	376.2			
	460				35.4	42.4	188.1			
	575				28.3	33.9	150.5			
30	208	3	F	1.2	104.4	125.3	417.6	33.8	150.3	37.6
	230				94.1	112.9	376.2			
	460				47.0	56.4	188.1			
	575				37.6	45.1	150.5			
40	208	3	E	1.2	135.6	162.7	542.4	43.9	195.1	48.8
	230				122.2	146.6	488.6			
	460				61.1	73.3	244.3			
	575				48.9	58.6	195.5			
50	230	3	D	1.2	135.2	162.3	540.9	48.6	215.8	54.0
	460				67.6	81.1	270.5			
	575				54.1	64.9	216.4			

60	460	3	C	1.0	81.1	81.1	270.5	58.2	215.8	64.6
	575				64.9	64.9	216.4			

Pump Model: **K4CH – 1750 RPM**

Motor Efficiencies & Power Factor									
		Motor Efficiency %				Power Factor %			
HP	**Phase**	**Service Factor Load**	**100% Load**	**75% Load**	**50% Load**	**Service Factor Load**	**100% Load**	**75% Load**	**50% Load**
15	3	84	83	79	72	86	83	80	70
20	3	85	84	80	73	87	84	82	74
25	3	87	86	81	74	86	84	81	75
30	3	86	85	80	73	88	86	83	78
40	3	87	86	81	74	87	86	82	78
50	3	87	87	82	75	86	85	80	77
60	3	86	86	85	81	85	84	83	79

Pump Model: **K6CH**

Physical Data:

Discharge Size	ANSI 6" Horizontal
Solids Size	3-1/2"
Impeller Type	Balanced, Enclosed, 2 Vane
Power/Control Cable Length	40' Standard
Paint	Blue, Water Reducible Enamel, One Coat, Air Dried – Standard

Motor Construction:

Motor Type	Enclosed Submersible Oil Filled
NEMA Insulation Code	Class H
Service Factor	1.2
NEMA Design Type	B (3Ø) L (1Ø)
Motor Protection	Thermal Sensors Embedded in the Windings
Maximum Stator Temperature	311ºF (155ºC)
Power Cord Type	SOOW - 600V, 90º C; Type W - 2000V, 90º C
Control Cord Type	16-4 or 18-5 - SOOW - 600V, 90º C

Materials of Construction:

Cord Entry	Cast Iron, ASTM A48, Class 35
Motor Housing	Cast Iron, ASTM A48, Class 35
Bearing Housing	Cast Iron, ASTM A48, Class 35
Volute	Cast Iron, ASTM A48, Class 35
Wear Ring	Bronze, CDA 836
Impeller	Ductile Iron, ASTM A536, 60-40-18
Shaft	ANSI 400 Stainless Steel
Inboard Mechanical Seal	Silicone Carbide / Silicone Carbide
Outboard Mechanical Seal	Silicone Carbide / Silicone Carbide
Fasteners	ANSI 18-8 Stainless Steel
O-Rings	Nitrile Rubber
Upper Bearing	Conrad Style Single Row Deep Groove Ball Bearing
Lower Bearing	Single Row Angular Contact Ball Bearing
Labyrinth Seal	Bronze, CDA 836

Pump Model: **K6CH – 1750 RPM**

Thermal Data:

Maximum Liquid		140º F (60º C) Intermittent
Maximum Stator		311º F (155º C)
Heat Sensor	**Open:**	257º F (125º C) Max. / 239º F (115º C) Min.
	Closed:	194º F (90º C) Max. / 119º F (48º C) Min.
Oil Flash Point		390º F (199º C)

Electrical Data:

RPM	**1750**			
Electrical Ratings	Heat Sensor	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	Seal Fail	300VAC 5mAMPS		
Voltage Tolerance	± 10%			

HP	**Voltage**	**Phase**	**NEC Code**	**Service Factor**	**Full Load AMPS**	**SF Amps**	**Locked Rotor AMPS**	**Run KW**	**Start KVA**	**Run KVA**
15	208	3	H	1.2	53.8	64.6	277.2	16.5	99.7	18.3
	230				48.9	58.7	249.7			
	460				24.5	29.4	124.9			
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	230				70.7	84.9	376.2			
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30	208	3	F	1.2	104.4	125.3	417.6	33.8	150.3	37.6
	230				94.1	112.9	376.2			
	460				47.0	56.4	188.1			
	575				37.6	45.1	150.5			
40	208	3	E	1.2	135.6	162.7	542.4	43.9	195.1	48.8
	230				122.2	146.6	488.6			
	460				61.1	73.3	244.3			
	575				48.9	58.6	195.5			
50	230	3	D	1.2	135.2	162.3	540.9	48.6	215.8	54.0
	460				67.6	81.1	270.5			
	575				54.1	64.9	216.4			

60	460	3	C	1.0	81.1	81.1	270.5	58.2	215.8	64.6
	575				64.9	64.9	216.4			

Pump Model: **K6CH – 1750 RPM**

Motor Efficiencies & Power Factor									
		Motor Efficiency %				Power Factor %			
HP	**Phase**	**Service Factor Load**	**100% Load**	**75% Load**	**50% Load**	**Service Factor Load**	**100% Load**	**75% Load**	**50% Load**
15	3	89	88	86	85	91	90	87	85
20	3	89	89	88	87	91	90	88	86
25	3	91	90	89	88	91	90	88	87
30	3	91	90	90	88	92	91	89	87
40	3	92	91	90	88	92	91	90	88
50	3	92	92	91	90	93	92	90	89
60	3	92	92	91	90	94	93	91	90