

Pump Model: **K3RH****Physical Data:**

<b>Discharge Size</b>	ANSI 3" Horizontal
<b>Solids Size</b>	2.5"
<b>Impeller Type</b>	Balanced, Vortex, 10-Vane
<b>Power/Control Cable Length</b>	40' Standard
<b>Paint</b>	Blue, Water Reducible Enamel, One Coat, Air Dried – Standard

**Motor Construction:**

<b>Motor Type</b>	Enclosed Submersible Oil Filled
<b>NEMA Insulation Code</b>	Class F
<b>Service Factor</b>	1.2
<b>NEMA Design Type</b>	B (3Ø) L (1Ø)
<b>Single Phase Configuration</b>	External Start and Run Components
<b>Motor Protection</b>	Thermal Sensors Embedded in the Windings
<b>Maximum Stator Temperature</b>	311°F (155°C)
<b>Power Cord Type</b>	SOOW - 600V, 90° C; Type W - 2000V, 90° C
<b>Control Cord Type</b>	16-4 or 18-5 - SOOW - 600V, 90° C

**Materials of Construction:**

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



Pump Model: **K3RH – 3450 RPM**

**Thermal Data:**

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

**Electrical Data:**

<b>RPM</b>	<b>3450</b>			
<b>Electrical Ratings</b>	Heat Sensor	24VDC 5AMPS	115VAC 5AMPS	230VAC 5AMPS
	Seal Fail	300VAC 5mAMPS		
<b>Voltage Tolerance</b>	± 10%			

HP	Voltage	Phase	NEC Code	Service Factor	Full Load AMPS	SF Amps	Locked Rotor AMPS	Run KW	Start KVA	Run KVA
3	208	1	H	1.2	20.9	25.1	93.1	5.5	19.3	7.2
	230				18.9	22.7	84.7			
3	208	3	E	1.2	17.0	19.0	51.6	3.1	13.8	4.1
	230				15.0	17.0	46.9			
	460				7.5	8.5	23.4			
5	208	1	F	1.2	34.2	41.1	144.3	7.5	26.3	9.8
	230				30.9	37.1	126.4			
5	208	3	G	1.2	20.0	24.0	77.4	6.3	27.9	9.3
	230				18.0	22.0	69.7			
	460				9.0	11.0	34.8			
7.5	208	3	E	1.2	35.0	38.0	150.3	8.3	36.7	7.3
	230				33.0	36.0	131.8			
	460				16.5	18.0	66.2			



Motor Efficiencies & Power Factor									
HP	Phase	Motor Efficiency %				Power Factor %			
		Service Factor Load	100% Load	75% Load	50% Load	Service Factor Load	100% Load	75% Load	50% Load
3	1	66	66	64	56	87	83	79	70
3	3	71	70	69	63	81	80	79	71
5	1	65	65	64	59	86	83	76	62
5	3	78	78	75	70	79	76	71	60
7.5	3	75	76	75	70	79	78	71	59