

see selection options, page 3



# Submittal Data Information

## KS Series Vertical Split Coupled Pumps

301-1171

EFFECTIVE: JUNE 25, 2016

SUPERSEDES: JANUARY 8, 2010

3500 RPM MODEL 5007

JOB **Immucell**

ENGINEER **Stantec - NY**

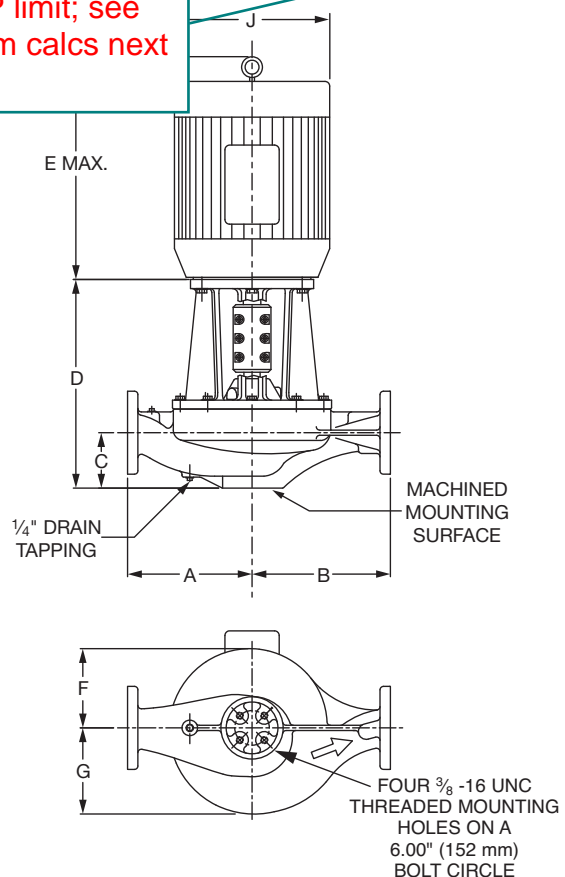
CONTRACTOR **AAA Energy**

REP. **Emerson Swan - KJSS**

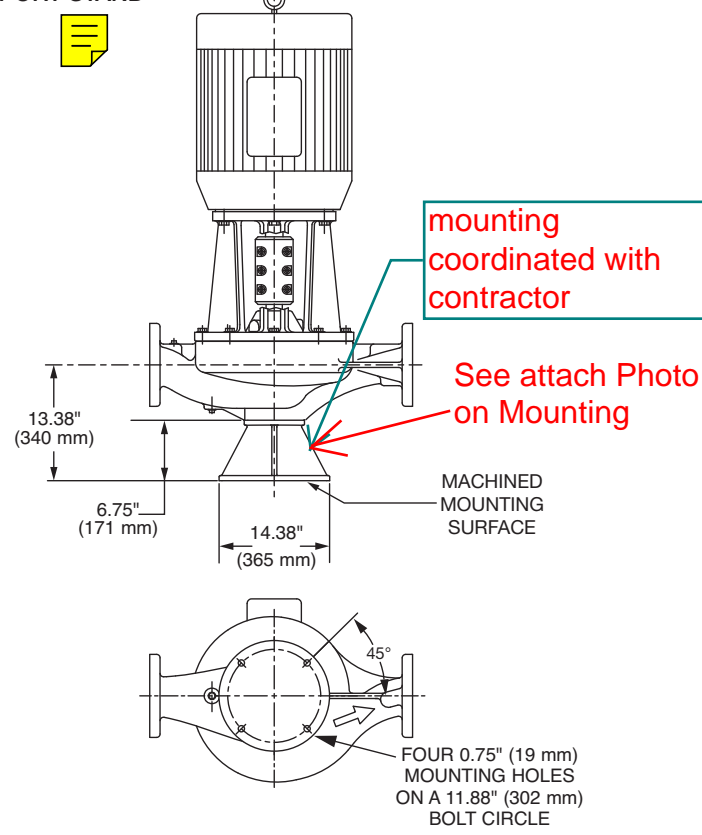
ITEM NO.	MODEL NO.	IMPELLER DIA.	G.P.M.	HEAD/FT.	H.P.	ELEC. CHAR.
<b>CGP-1 &amp; 2 REV</b>	<b>KS5007</b>	<b>7.1</b>	<b>988.7</b>	<b>156.9</b>	<b>50</b>	<b>460/3/60</b>

WEIGHT **1082#** PUMP/MOTOR

Flow/Impeller at 50 HP limit; see system calcs next page



### PUMP WITH OPTIONAL SUPPORT STAND



mounting coordinated with contractor

### OPERATING SPECIFICATIONS

	Standard	Optional
Flange	ANSI Class 125	ANSI Class 250
Pressure	175 PSIG* (1210 KPA)	300 PSIG (2070 KPA)
Temperature	250°F (120°C)	250°F (120°C)

### MAXIMUM ASSEMBLY WEIGHT

Motor Frame	Weight without Optional Stand Lbs (Kg)	Weight with Optional Stand Lbs (Kg)
254CZ - 256CZ	651 (295)	717 (325)
284CZ - 286CZ	778 (353)	844 (383)
<b>324CZ - 326CZ</b>	<b>1082 (491)</b>	<b>1148 (521)</b>

Motors: All NEMA Standard ODP Frame (CZ Shaft)  
 \* In accordance with ANSI Standard B16.1 Class 125  
 \*\* In accordance with ANSI Standard B16.1 Class 250 Dim.

### DIMENSIONS

\* A & B Dimensions apply for all pump sizes.

Model No.	Conn.	Motor Frame	HP 3500 RPM	Flange Size ASA	A*	B*	C	D	E MAX	F	G	H	J DIA
5007	5 x 5 (127 x 127)	254CZ	20	5 (127)	13.00 (330) if ANSI Class 125	11.00 (279) if ANSI Class 125	6.63  (168)	21.26 (540)	24.36 (619)	6.42  (163)	7.91  (201)	0.25  (6)	12.88 (327)
		256CZ	25					21.26 (540)	26.11 (663)				12.88 (327)
		284CZ	30					21.26 (540)	27.94 (710)				14.63 (371)
		286CZ	40		21.26 (540)	29.14 (740)		14.63 (371)					
		324CZ	50		23.01 (584)	31.07 (789)		16.50 (419)					
		326CZ	60**		23.01 (584)	32.57 (827)		16.50 (419)					

English dimensions are in inches. Metric dimensions are in millimeters. Metric data is presented in ( ).  
 \*\* Not available in TEFC. Do not use for construction purposes unless certified.

### System Curve Wizard

	Design Flow	Dynamic Head	Static Head	
<b>DESIGN INPUTS</b>	900	130	0	<a href="#" style="background-color: #0056b3; color: white; padding: 5px;">HELP</a>
	GPM	FT.	FT.	

[CLICK HERE TO COMPLETE ESTIMATION](#)

% Flow	New GPM	Dynamic FT.	Static FT.	Total Head
150	1350.0	292.5	0.0	292.5
125	1125.0	203.1	0.0	203.1
109.85	988.7	156.9	0.0	156.9
<b>100</b>	<b>900.0</b>	<b>130.0</b>	<b>0.0</b>	<b>130.0</b>
90	810.0	105.3	0.0	105.3
80	720.0	83.2	0.0	83.2
70	630.0	63.7	0.0	63.7
60	540.0	46.8	0.0	46.8
50	450.0	32.5	0.0	32.5

50 HP Max

Design

% Flow values can be changed to fine-tune your analysis

This Wizard is intended for water systems operating between 40 and 200 °F.

Dynamic Head - Friction and velocity losses due to flow.

**KS 5007 submitted for best efficiency.**

**Search for Pump**

① **PUMP TYPE** (chose one)

- SelfSensing Variable Speed Pump
- Standard Pump

② **SEARCH** (Standard Pump)

Design Flow  gpm  
 Design Head  ft  
 Min Eff  %

③ **OPTIONS** (Standard Pump)

**Fluid**

**RPM**  **Motor**

**Units**  **Number of Pumps**

**Thumbnail**

④ **Choose Pumps** (Standard Pump)

- End Suction Pumps
- Vertical Inline Pumps
  - KV Close Coupled
  - KS Split Coupled
- Horizontal Split Case Pumps
- Vertical Split Case Pumps
- Inline Circulators

Looking for VT Pumps? [Click here](#)

Taco on Pump-Flo [Click here](#)

Are you having trouble with this app? [Click here](#)

**Results**

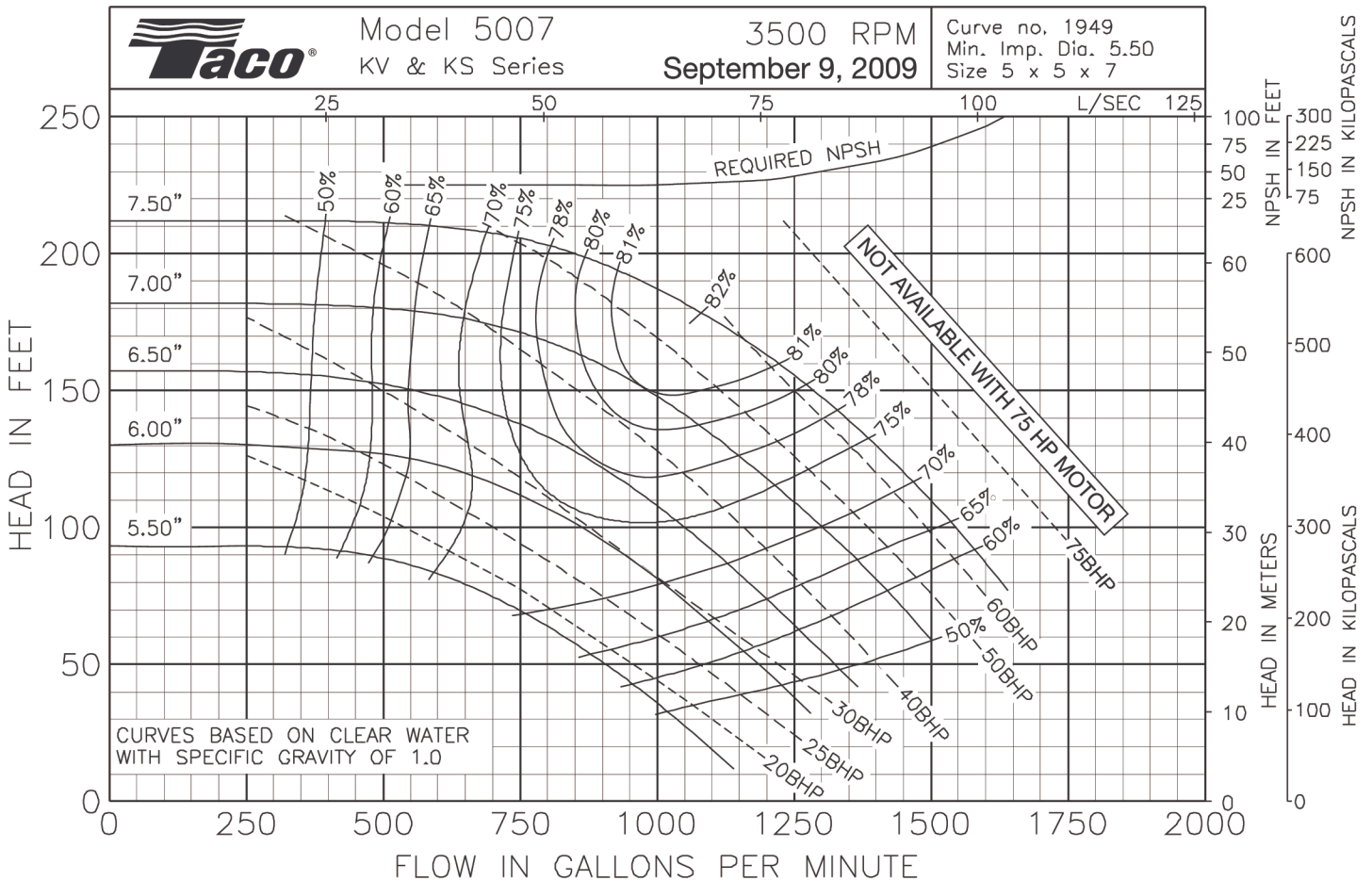
Thumbnail	Model	HP	NPSH(ft)	RPM	Imp. Dia.	Eff ▲	NOL HP	Suct/Disch
	KS4075	49.34	42	3500	7.1	82%	49.87	4" x 4"
	KS5007	49.91	33	3500	7.1	81%	52.25	5" x 5"
	KS8013	58.23	16	1760	12.8	70%	81.41	8" x 8"

**MATERIALS OF CONSTRUCTION**

	BRONZE FITTED			ALL IRON		
	STANDARD PUMP CONSTRUCTION		OPTIONAL	STANDARD PUMP CONSTRUCTION		OPTIONAL
	125# Flange	250# Flange	125# or 250#	125# Flange	250# Flange	125# or 250#
Casing	Cast Iron ASTM A48/ A48M-03 Class 30A	Ductile Iron ASTM A536-84 Grade 65-45-12	N/A	Cast Iron ASTM A48/ A48M-03 Class 30A	Ductile Iron ASTM A536-84 Grade 65-45-12	N/A
Impeller	Bronze ASTM B584 ALLOY C83600 or C84400	Bronze ASTM B584 ALLOY C83600 or C84400	N/A	Cast Iron ASTM A48/A48M-03 Class 30A	Cast Iron ASTM A48/A48M-03 Class 30A	N/A
Wear Ring	N/A	N/A	Bronze ASTM B584-98A C92200	N/A	N/A	N/A
Shaft	Stainless Steel TYPE 416"Ti" or 410"Ti" ASTM A582	Stainless Steel TYPE 416"Ti" or 410"Ti" ASTM A582	N/A	Stainless Steel TYPE 416"Ti" or 410"Ti" ASTM A582	Stainless Steel TYPE 416"Ti" or 410"Ti" ASTM A582	N/A
Coupling	Aluminum Alloy 6061-T6	Aluminum Alloy 6061-T6	N/A	Stainless Steel TYPE 303 ASTM A276	Aluminum Alloy 6061-T6	N/A
Mechanical Seal	Ceramic/EPT	Ceramic/EPT	Tungsten Carbide/EPT or Silicon- Carbide/EPT	Ceramic/EPT	Ceramic/EPT	Tungsten Carbide/EPT or Silicon- Carbide/EPT
Seal Flush Line	Copper & Brass C3600	Copper & Brass C3600	CF	Copper & Brass C3600	Copper & Brass C3600	CF
Support Stand	N/A	N/A	Ductile Iron ASTM A536-84 Grade: 65-45-12	N/A	N/A	Ductile Iron ASTM A536-84 Grade: 65-45-12

CF - Consult Factory

N/A - Not Available



Comments:

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# Vertical Pumps Model: KS5007

**Tag: CGP-1 & 2 REV**

**Flow Rate (Gpm):** 988.7  
**Head Loss (Ft):** 156.9  
**Working Fluid:** Propylene Glycol 30% @ 40 F  
**Efficiency (%):** 81%  
**Construction:** Iron  
**Design Hp:** 49.91  
**Nol Hp:** 52.25  
**Motor Hp:** 50  
**Npsh (Ft):** 33  
**Rpm:** 3500  
**Imp Dia:** 7.1  
**Volt/Ph/Hz:** 460/3/60  
**Notes:**

trim to maximize HP

