

959 Mearns Road  
 Warminster, PA 18974  
[www.TeikokuPumps.com](http://www.TeikokuPumps.com)  
 ☎ 215-343-6000  
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5880 Bingle Road  
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[www.TeikokuPumps.com](http://www.TeikokuPumps.com)  
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St. Rt. 2 North  
 Belmont, WV 26134  
[www.TeikokuPumps.com](http://www.TeikokuPumps.com)  
 ☎ 304-684-2459  
 ☎ 304-684-7593

## Proposal

Date	Quote No.	Inquiry No.	Project Name	Terms (in US Currency)	
7-30-2014	2014-18291 Rv2			Net 30	
Representative for Teikoku USA, Inc.					
To:	Rick Vondra Patriot Renewable Fuels, LLC	Travis Munn Superior Industrial Equipment			
Address:	P.O. Box 560 Annawan, Illinois 61234	1609 Afton Road Sycamore, Illinois 60178			
Country:	United States	United States			
Phone:	309-935-5700	815-899-8900			
Fax:		815-899-8898			
Email:	rvondra@patriotethanol.com	tmunn@superiorpumps.com			
We promise to furnish the equipment listed below at the price shown subject to Teikoku USA's Conditions of Sale. FOB Factory					
Item No.	Equip No.	Quantity	Pump Model	Unit Price	Total Price
9	P-502	1	F60-3211N4BL-0204SF1-AV	\$4,732.35	\$4,732.35
Application Data:		Materials of Construction:		Motor Data:	
Fluid:	Methyl Oleate	Pump Case:	316 SS	Insulation:	H
TDH (feet):	166.4	Impeller:	316 SS	Frame:	3211
Capacity (GPM):	15.0	Gaskets/O-rings:	PTFE	Stator Fill:	None
Specific Gravity:	0.832	Rotor Liner:	316L SS	Voltage:	460
Viscosity (cps):	0.697	Stator Liner:	Hast C	Phase:	3
Op. Temp. (F):	131.0	Brg. Hsg./Adapter:	316 SS	Hertz:	60
Vapor Press. (psia):		Shaft:	316 SS	RPM:	3450
Sp. Ht. (BTU/lbmF):		Bearings:	Carbon Graphite	Design Power (HP)	2.19
Suct. Press. (psig):		Journal/Sleeves:	316 SS Hard Chrome	Runout Power (HP):	3.74
Dsch. Press. (psig):		Suct. Conn:	1.5 / 150# RF	Motor Rating (HP):	5.3
Diff. Press. (psi):	59.9	Dsch. Conn.:	1.0 / 150# RF	F.L. Amp:	8.0
NPSHAvail. (feet):	21.8	Case Drain:	1/2 in. NPT	F.L. KW:	4.0
NPSHReq. (feet):	2.15	Circ. Assy.:	None	Start KVA:	22.71
Eff. @ Diam. (%):	23.9	Circulation Path:	Internal	Motor Rating:	TELC
Imp. Diam. (in):	6.375	Net Wgt. (lbs):	132	Area Class:	Class 1, Group D, Div 2
Design Pressure	150 psi				
Options:			Thermal TCO (F): 356		
Standard TRG bearing wear monitor included.			Perf. Curve No.:		
			Bulletin Number:		
			Outline Dwg.:		
			Shipment: 2 weeks		
			(wks) after drwg. approval or mfg. release.		
			Comments:		

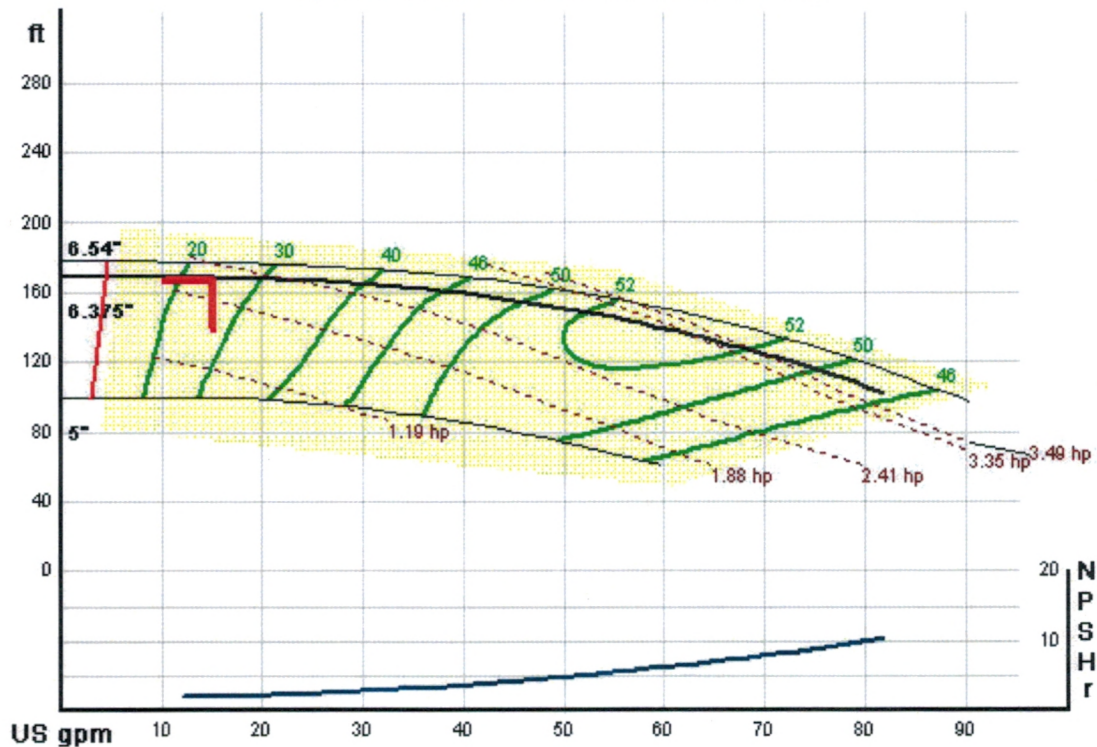
*Thank you for your inquiry.*  
 Please feel free to visit our website at: [www.TeikokuPumps.com](http://www.TeikokuPumps.com)  
 Abhilash Abraham/AE x 2847

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**Pump Data Sheet**  
**Equipment Number: P-502**  
**Service: ME Dryer Feed Pump**  
**Quote Number: 2014-18291 Rv2**



#### Pump Properties

Model = F60-3211N4BL-0204SF1-AV
Frame Size =
Suction = 1.5
Discharge = 1.0
Frame = 3211

#### Application Properties

Flow = 15.0 (GPM)
Head = 166.4 (feet)
Speed = 3450 (RPM)
Diameter = 6.375 (in)
Power = 2.19 (hp)
NPSHr = 2.15 (feet)
Minimum Flow = 4.26 (GPM)

### Pump Drawings

[Outline Link](#)

[Cross Section Link](#)