

959 Mearns Road
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 ☎ 215-343-6000
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St. Rt. 2 North
 Belmont, WV 26134
www.TeikokuPumps.com
 ☎ 304-684-2459
 ☎ 304-684-7593

Proposal

Date 7-30-2014	Quote No. 2014-18291 Rv2	Inquiry No.	Project Name	Terms (in US Currency) Net 30	
To: Rick Vondra Patriot Renewable Fuels, LLC			Representative for Teikoku USA, Inc.		
Address: P.O. Box 560 Annawan, Illinois 61234			Travis Munn Superior Industrial Equipment 1609 Afton Road Sycamore, Illinois 60178		
Country: United States			United States		
Phone: 309-935-5700			815-899-8900		
Fax: rvondra@patriotethanol.com			815-899-8898		
Email:			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
14	P-709	1	F60-3315N4BL-0204TF1-AV	\$6,183.45	\$6,183.45
Application Data:		Materials of Construction:		Motor Data:	
Fluid:	Methanol	Pump Case:	316 SS	Insulation:	H
TDH (feet):	169.0	Impeller:	316 SS	Frame:	3315
Capacity (GPM):	25.0	Gaskets/O-rings:	PTFE	Stator Fill:	None
Specific Gravity:	0.801	Rotor Liner:	316L SS	Voltage:	460
Viscosity (cps):	0.3409	Stator Liner:	Hast C	Phase:	3
Op. Temp. (F):	150.0	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):	2.75
Suct. Press. (psig):		Journal/Sleeves:	316 SS Hard Chrome	Runout Power (HP):	5.43
Dsch. Press. (psig):		Suct. Conn:	1.5 / 150# RF	Motor Rating (HP):	16.6
Diff. Press. (psi):	58.6	Dsch. Conn.:	1.0 / 150# RF	F.L. Amp:	24.0
NPSHAvail. (feet):	18.52	Case Drain:	1/2 in. NPT	F.L. KW:	12.4
NPSHReq. (feet):	5.19	Circ. Assy.:	None	Start KVA:	76.16
Eff. @ Diam. (%):	31.0	Circulation Path:	Internal	Motor Rating:	TELC
Imp. Diam. (in):	6.5	Net Wgt. (lbs):	264	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:					

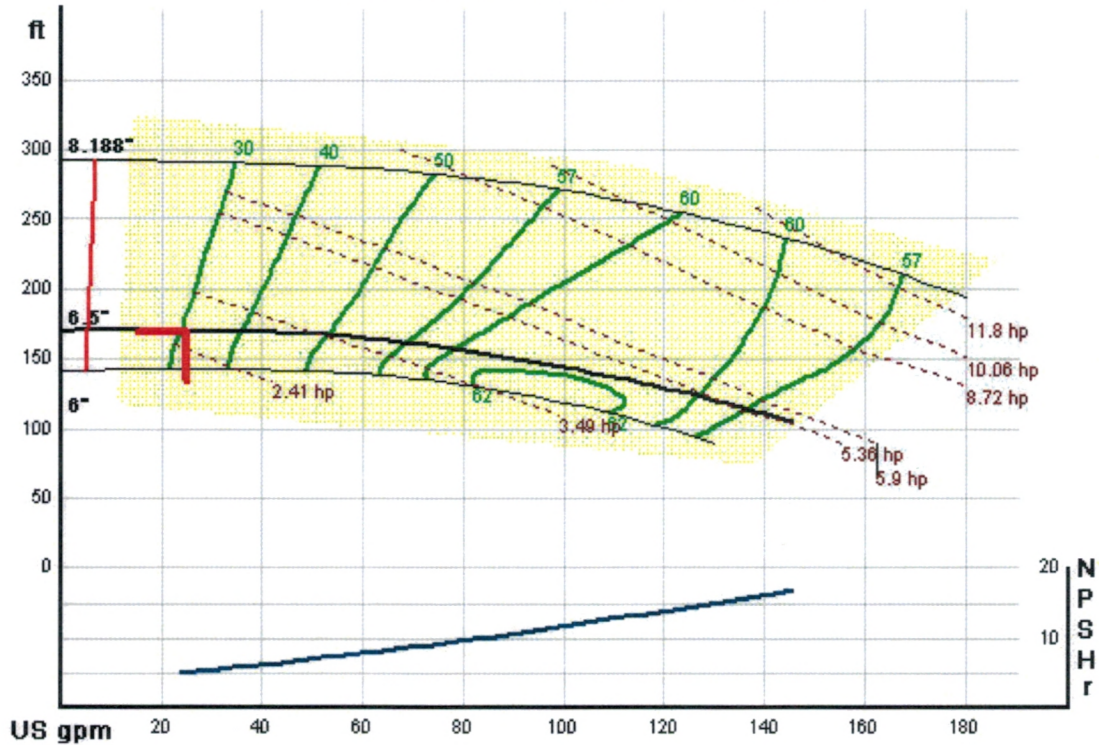
Thank you for your inquiry.
 Please feel free to visit our website at: www.TeikokuPumps.com
 Abhilash Abraham/AE x 2847

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Pump Data Sheet
Equipment Number: P-709
Service: Reflux Pump
Quote Number: 2014-18291 Rv2



Pump Properties

Model = F60-3315N4BL-0204TF1-AV
Frame Size =
Suction = 1.5
Discharge = 1.0
Frame = 3315

Application Properties

Flow = 25.0 (GPM)
Head = 169.0 (feet)
Speed = 3450 (RPM)
Diameter = 6.5 (in)
Power = 2.75 (hp)
NPSHr = 5.19 (feet)
Minimum Flow = 5.28 (GPM)

Pump Drawings

[Outline Link](#)

[Cross Section Link](#)