

PUMP:

18HH-2C

Speed: 1800rpm

Dimensions

Suction:	Bell
Discharge W/L:	N/A
Discharge O/L:	N/A
Impeller Eye Area:	97.9"
Shaft Diameter:	1 15/16"
Max Shaft Diam:	C.F.

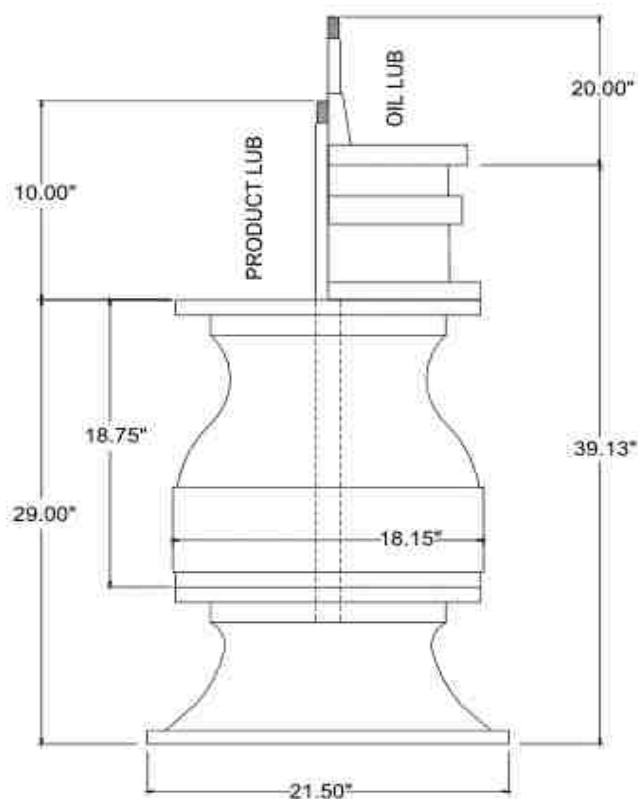
Weights

Water Lube First Stage:	590.0 LBS
Oil Lube First Stage:	598.4 LBS
Ad Stage:	388.5 LBS

Additional Data

Thrust "K" Factor:	35.0 LBS/Ft
Rotative Stage Weight:	81.4 LBS
NS:	4,997
NSS:	14,080
Max. Pressure in STD Ma:	314 PSI
Sphere Size:	0.88 "
Opt Lateral Setting:	0.25 "
STD.Lateral:	0.95 "
Min Submergence:	46"

SMART PUMPS
WARSON
BOMBAS



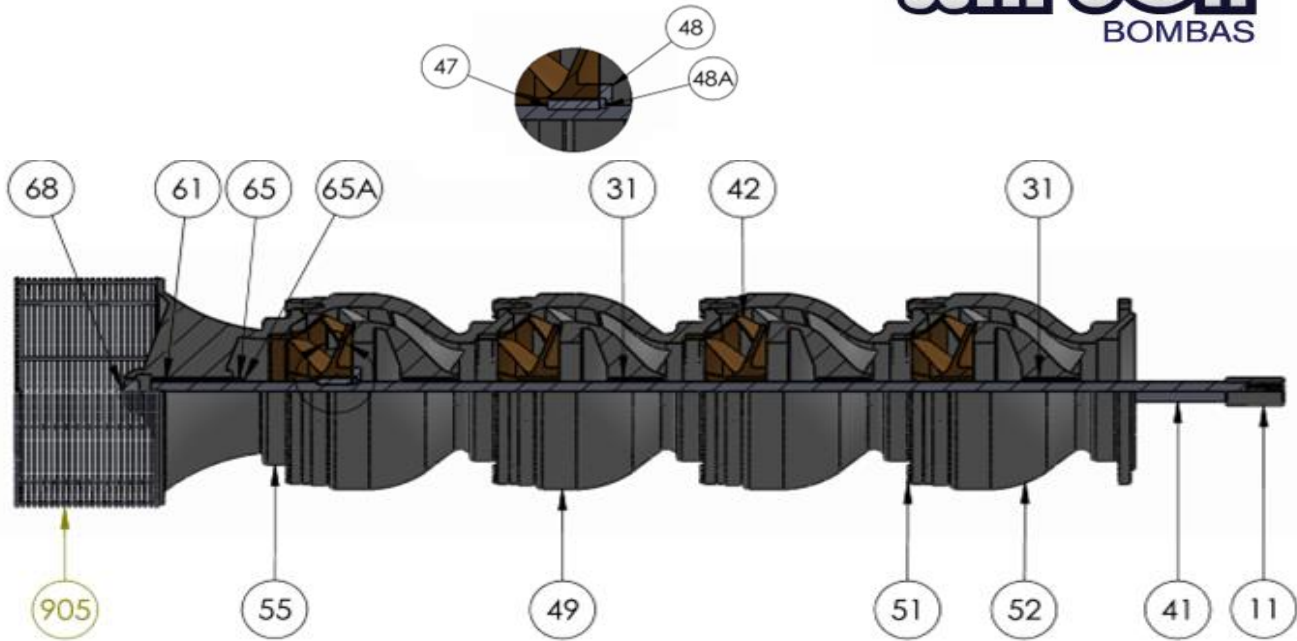
PUMP:

18HH-2C

Prod. Lube

Speed: 1800rpm

SMART PUMPS
WARSON
 BOMBAS



Materials					
Part No.	Name	Code	Std. Material	ASTM	UNS
11	Line shaft coupling	83	Carbon steel bars-cold finished	A108-90a	G12150
31	Bowl Bearing	38	Bronze sand castings	B584-90a	C84400
41	Bowl Shaft	97	Stainless Steel Bar 416	A582-88a	S41600
42	Enclosed Impeller	38	Bronze sand castings	B584-90a	C84400
47	Impeller Gib Key	83	Carbon steel bars-cold finished	A108-90a	G12150
48	Cap Impeller Key	101	Alloy steel castings ss304	A743-89	J92600
48A	Split Thrust Ring	101	Alloy steel castings ss304	A743-89	J92600
49	Intermediate Bowl	51	Cast Iron CI-30	A48-90	F12101
51	Bowl Cap Screw Set	84	Carbon steel threaded std. Fasteners	A307-90	N/A
52	Top-Bowl	51	Cast Iron CI-30	A48-90	F12101
55	Suction Bell	51	Cast Iron CI-30	A48-90	F12101
61	Suction Case Bushing	38	Bronze sand castings	B584-90a	C84400
65	Sand Collar	97	Stainless Steel Bar 416	A582-88a	S41600
65A	Collar Set Screw	38	Bronze sand castings	B584-90a	C84400
68	Suction End Plug	84	Carbon steel threaded std. Fasteners	A307-90	N/A
905	Clip-On Strainer w/Bolts	157	Commercial std. Galv. Steel	N/A	N/A

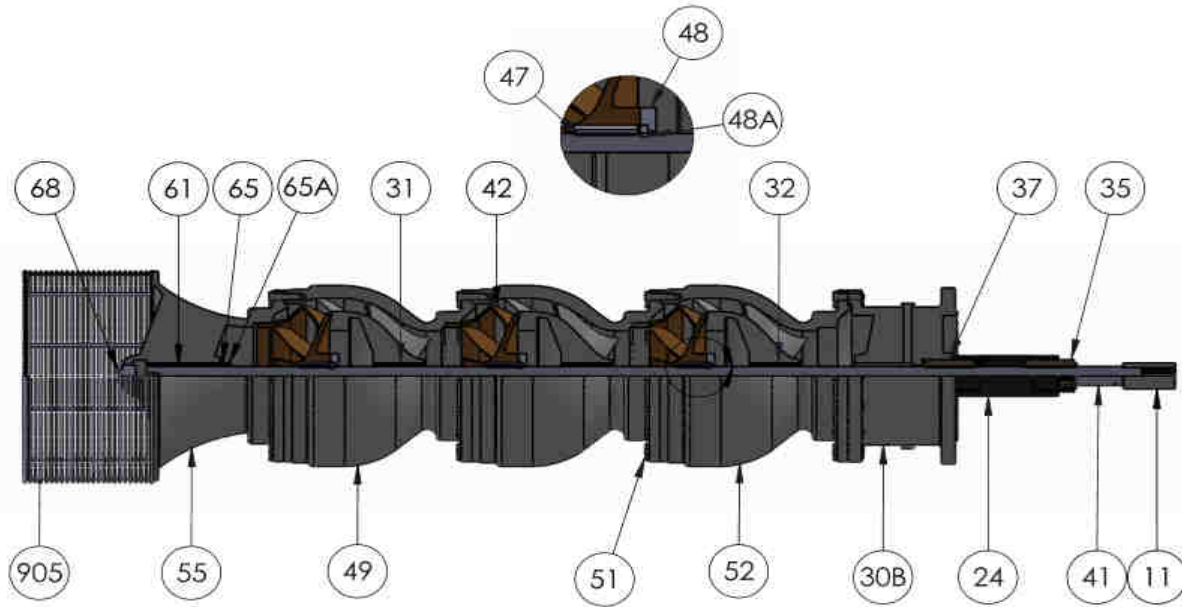
PUMP:

18HH-2C

Oil Lube

Speed: 1800rpm

SMART PUMPS
WARSON
 BOMBAS



Materials					
Part No.	Name	Code	Std.Material	ASTM	UNS
11	Line shaft coupling	83	Carbon steel bars-cold finished	A108-90a	G12150
24	Tube Adapter Oil Lube	51	Cast Iron CI-30	A48-90	F12101
30B	Oil Lube Discharge Case	51	Cast Iron CI-30	A48-90	F12101
31	Bowl Bearing	38	Bronze sand castings	B584-90a	C84400
32	Top Bowl Oil Lube Bushing	38	Bronze sand castings	B584-90a	C84400
35	Upp Throttle Oil Bearing	38	Bronze sand castings	B584-90a	C84400
37	Lower Throttle Oil Bearing	38	Bronze sand castings	B584-90a	C84400
41	Bowl Shaft	97	Stainless Steel Bar 416	A582-88a	S41600
42	Enclosed Impeller	38	Bronze sand castings	B584-90a	C84400
47	Impeller Gib Key	83	Carbon steel bars-cold finished	A108-90a	G12150
48	Cap Impeller Key	101	Alloy steel castings ss304	A743-89	J92600
48A	Split Thrust Ring	101	Alloy steel castings ss304	A743-89	J92600
49	Intermediate Bowl	51	Cast Iron CI-30	A48-90	F12101
51	Bowl Cap Screw Set	84	Carbon steel threaded std. Fasteners	A307-90	N/A
52	Top-Bowl	51	Cast Iron CI-30	A48-90	F12101
55	Suction Bell	51	Cast Iron CI-30	A48-90	F12101
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68	Suction End Plug	84	Carbon steel threaded std. Fasteners	A307-90	N/A
905	Clip-On Strainer w/Bolts	157	Commercial std. Galv. Steel	N/A	N/A

Company: Acuavital
Name: Marco Homes
Date: 05/02/2025



Pump:

Size: 18HH-2C (stages: 2) Dimensions:
Type: LINE W_60 Hz Suction: ---
Synch Speed: 1800 rpm Discharge: ---
Dia: 13.3 in Vertical Turbine:
Curve: ETHBBEN-18 Eye Area: 97.9 in²
Impeller: 18HH-2C Bowl Size: 18.1 in
Specific Speeds: Ns: 4997 Max Lateral: 0.757 in
Nss: 4997 Thrust K Factor: 35 lb/ft

Fluid:

Name: Water
SG: 1 Vapor Pressure: 0.256 psi a
Density: 62.4 lb/ft³ Atm Pressure: 14.7 psi a
Viscosity: 1.1 cP
Temperature: 60 °F Margin Ratio: 1

Pump Limits:

Temperature: 167 °F Sphere Size: 0.88 in
Wkg Pressure: 314 psi g Power: 456 hp

Motor:

Consult 60Hz WARSON_PUMPS1200.04-06-18 to select a motor for this pump.

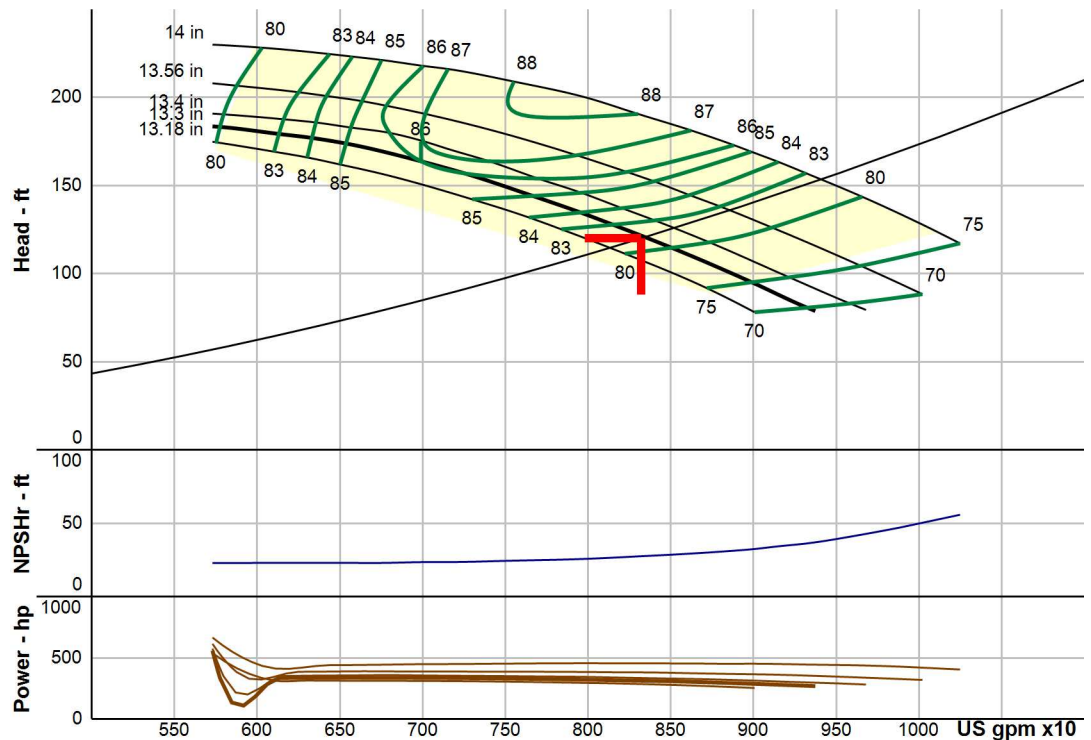
Search Criteria:

Flow: 8320 US gpm Near Miss: ---
Head: 120 ft Static Head: 0 ft

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

--- Duty Point ---	
Flow:	8343 US gpm
Head:	121 ft
Eff:	81.4%
Power:	312 hp
NPSHr:	27.6 ft
Speed:	1770 rpm
--- Design Curve ---	
Shutoff Head:	306 ft
Shutoff dP:	132 psi
Min Flow:	2400 US gpm
BEP:	86% @ 6990 US gpm
NOL Power:	559 hp @ 5730 US gpm
--- Max Curve ---	
Max Power:	666 hp @ 5730 US gpm

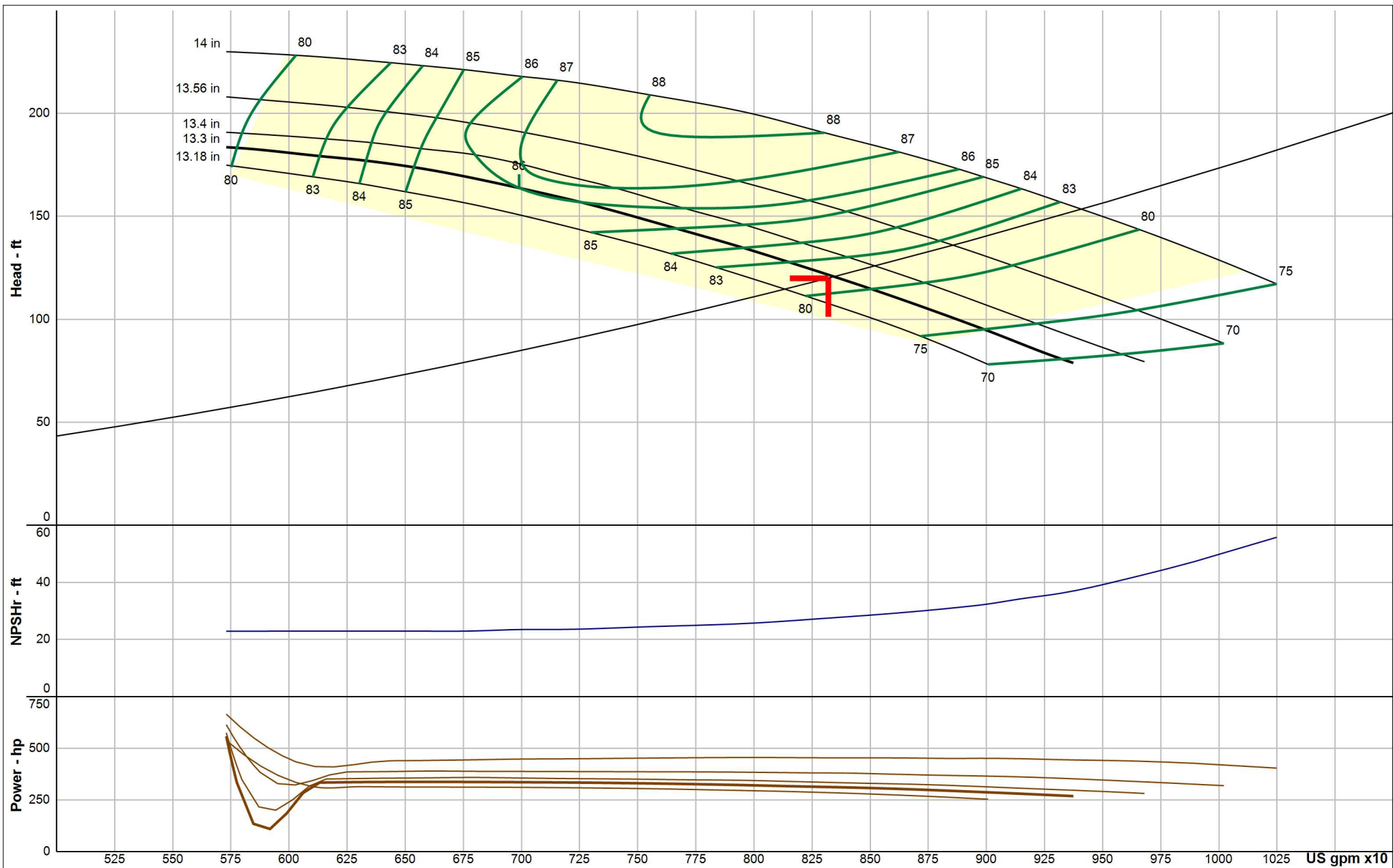


Para una presión de 220.8MTS o más, consultar a la fábrica para modificar material.

For more

Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
9984	1770	---	---	---	---
8320	1770	122	81.6	313	27.5
6656	1770	171	85.3	337	22.9
4992	1770	199	---	---	22.9
3328	1770	235	---	---	22.9



Para una presión de 220.8MTS o más, consultar a la fábrica para modificar material.
please consult the manufacturer to modify material.

For more than 724.3Fts of pressure

Company: Acuavital
Name: Marco Homes
Date: 05/02/2025

60Hz WARSON_PUMPS1200.04-06-18
Catalog: Catalog - W-Turbines.60, Vers 1
LINE W_60 Hz - 1800 rpm
Design Point: 8320 US gpm, 120 ft
Static Head: 0 ft

Size: 18HH-2C (stages: 2)
Speed: 1770 rpm
Dia: 13.3 in
Curve: ETHBBEN-18
Impeller: 18HH-2C

