


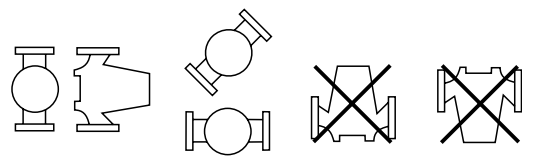
**Wet-Rotor, In-Line, Single Stage Circulator Pumps**  
**Submittal Data**

	JOB or CUSTOMER:	
	ENGINEER:	
	CONTRACTOR:	
	SUBMITTED BY:	DATE:
	APPROVED BY:	DATE:
	ORDER NO:	DATE:
SPECIFICATION REF:		

QUANTITY	TAG NO.	MODEL NO.	GPM	FEET	VOLT	PHASE	COMMENTS

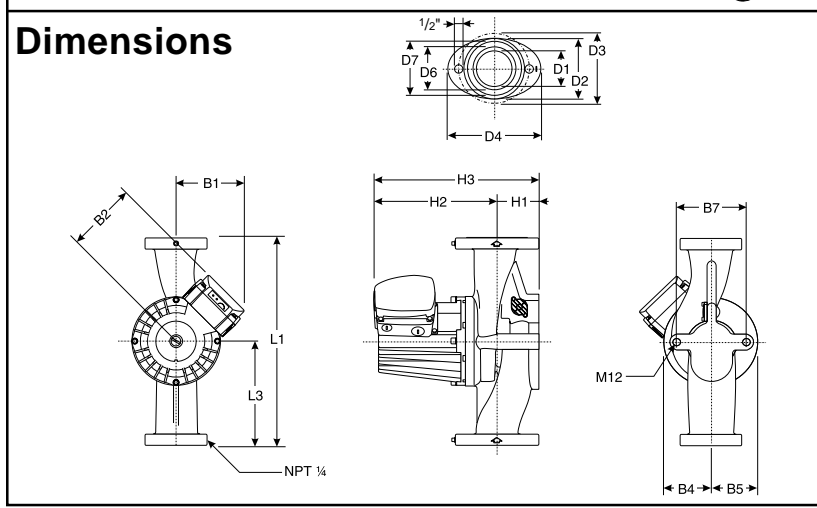
**Technical Data**  
**FLOW RANGE:** 9 – 78 U.S. GPM  
**HEAD RANGE:** 1 – 46 FT.  
**MAXIMUM WORKING PRESSURE:** 145 PSI  
**FLANGES:** 1 1/4" (UPS32-40, UPS32-80) and 1 1/2" (UPS32-160), 2-Bolt with (2) 1/2" diameter holes  
**MINIMUM FLUID TEMPERATURE:** 14°F (-10°C)  
**MAXIMUM FLUID TEMPERATURE (Open Systems):** 140°F\* (60°C)  
**MAXIMUM FLUID TEMPERATURE (Closed Systems):** 230°F (110°C)  
**AMBIENT AIR TEMPERATURE:** 32°F (0°C) to 104°F (40°C)  
 \* MAXIMUM TEMPERATURE: 220°F, 104°C NOTE: It is recommended to keep the operating temperature as low as possible (ie., below 140°F, 60°C to avoid precipitation of calcium).

**Mounting Positions**



Recommended      Optional

**DO NOT** Mount Motor Shaft in Vertical Position



**Type Designation**

UPS 32 - 80 / 2 B

Circulator Pump

Nominal diameter of ports in mm

Bronze (optional)

Number of motor poles if 2 and 4 are available

Maximum head in meters x 10

**Weights**

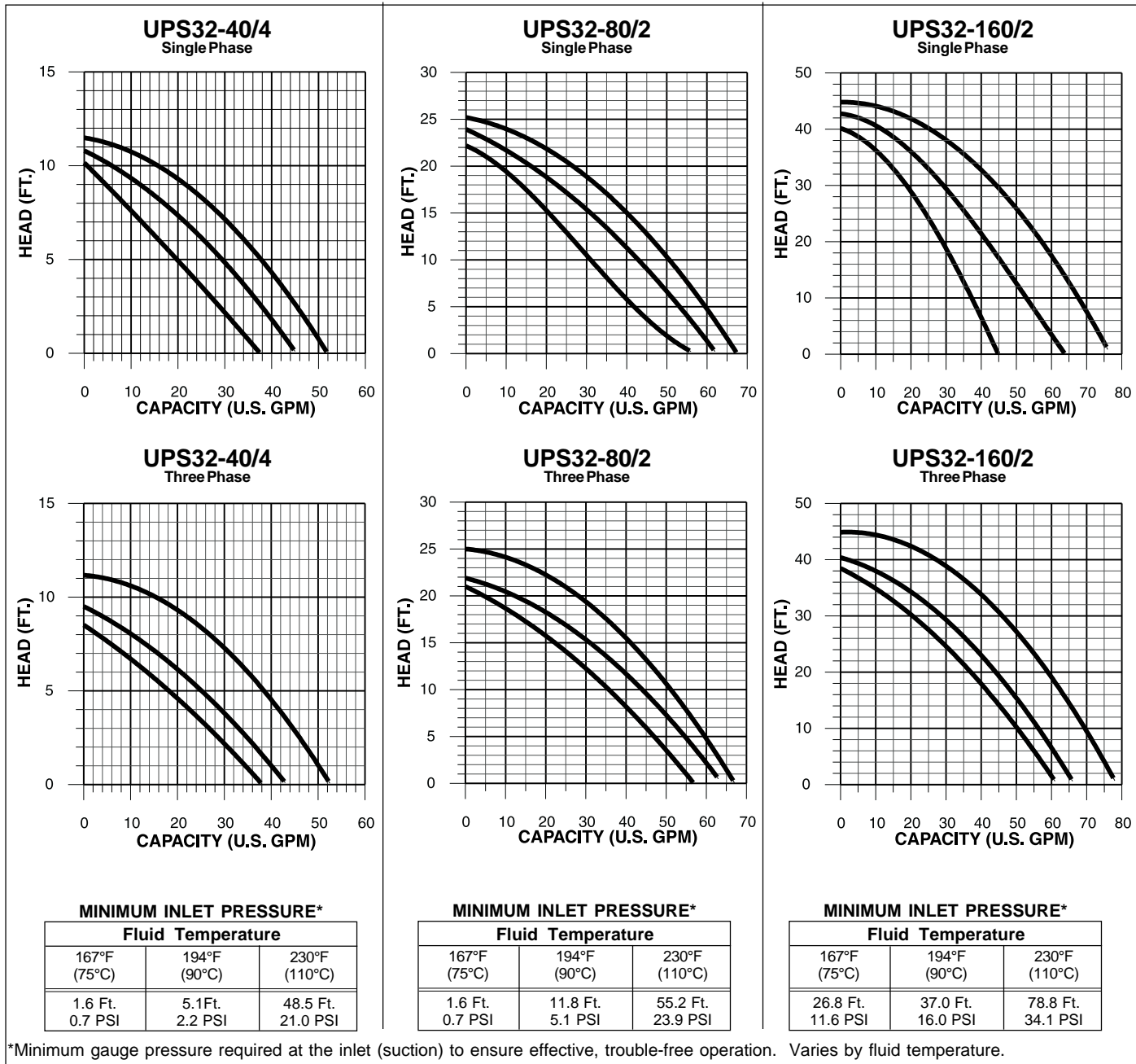
Pump Type	PH	Net Wt. (Lbs.)	Ship. Wt. (Lbs.)	Ship. Vol. (Cu. Ft.)
UPS32-40/4	1 & 3	36	39	1.16
UPS32-80/2	1 & 3	36	39	1.16
UPS32-160/2	1 & 3	38	40.5	1.16

**Electrical Data and Dimensions**

Pump Type	Nominal HP at Speed 3	PH	Voltage	Suc. Disc. Size	DIMENSIONS IN INCHES															
					L1	L3	B1	B2	B4	B5	B7	H1	H2	H3	D1	D2	D3	D4	D6	D7
UPS32-40/4	1/3 1/3	1 3	115 or 230 208/230, 460*, 575*	1 1/4	11	5 1/2	5 5/16	5 9/16	3	3	3 3/16	2 11/16	9 1/8	11 13/16	1 7/16	2 9/16	3 5/32	4 5/8	1 13/16	2 1/4
UPS32-80/2	1/2 1/2	1 3	115 or 230 208/230, 460*, 575*	1 1/4	11	5 1/2	5 5/16	5 9/16	3	3	3 3/16	2 11/16	9	11 11/16	1 7/16	2 9/16	3 7/16	4 5/8	1 13/16	2 1/4
UPS32-160/2	3/4 3/4	1 3	115 or 230 208/230, 460*, 575*	1 1/2	13 1/2	6 3/4	5 5/16	5 9/16	3	3	3 3/16	2 11/16	9 1/16	11 3/4	1 11/16	2 7/8	3 7/16	5	2 1/16	2 9/16

NOTE: \*460/575 volt models are two speed only—speeds 2 & 3.

# Performance Curves (60 Hz – Single and Three Phase Models)



## Materials of Construction

DESCRIPTION	MATERIAL
Impeller, Bearing Plate, Rotor Cladding Bearing Retainers, Rotor Impeller, Rotor Can	AISI 304 SS
Impeller Seal Ring	AISI 304 SS/Teflon®
Inspection/Vent Screw, Shaft (cast iron pumps) Split Cone, Split Cone Nut	AISI 303 SS
Shaft (bronze pumps)	AISI 316 SS
Shaft Bearing Journals	Tungsten Carbide
Pump Housing* *Bronze – Optional	Cast Iron ASTM GG25 35B-40B
Stator Housing	Aluminum AISI 10Cu2
Rotor End Caps	Copper or Brass
Upper and Lower Radial Bearings	Ceramic Al2O3
Thrust Bearing	Carbon MY106
O-Rings	EPDM
Terminal Box, Nameplate	Composite PA66
Plug for Sensor	Composite PPS, GF40

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