



Submittal Data Information

101-104

1400 Series High Capacity Circulators

Effective: July 23, 2007

Supersedes: October 13, 2005

Job: _____ Engineer: _____ Contractor: _____ Rep: _____

ITEM NO.	MODEL NO.	IMP. DIA.	G.P.M.	HEAD/FT.	H.P.	ELEC. CHAR.

Materials of Construction

Casing: Cast Iron or Bronze
 Face Plate: Stainless Steel
 Motor Housing: Steel
 Impeller: 30% Glass-filled Noryl®
 Impeller Insert: Brass
 Shaft: Nu-tride® coated Solid Alloy Steel or Stainless Steel
 Mechanical Seal: Carbon/Silicon-Carbide
 Motor Bearings: Stainless Steel
 Permanently lubricated
 O-Ring/Flange Gaskets: EPDM

Model Nomenclature

B – Bronze, Flanged
 Y – 230/60/1 Motor
 A – 220/50/1 Motor

Performance Data

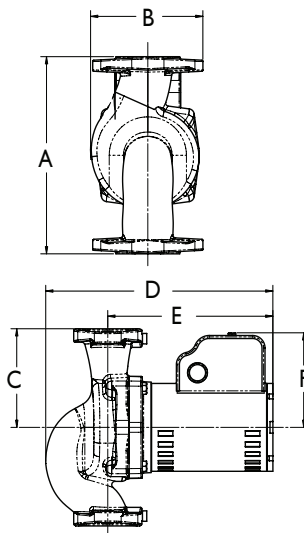
Flow Range: 0-147 GPM
 Head Range: 0-51 Feet
 Minimum Fluid Temp: 40°F (4°C)
 Maximum Fluid Temp: 225°F (107°C)
 Maximum Working Pressure: 150 psi



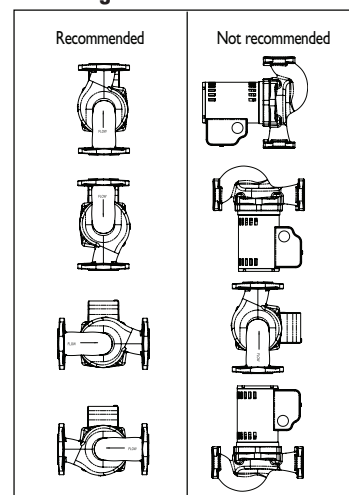
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Pump Dimensions & Weights

Cast Iron Model	Bronze Model	A		B		C		D		E		F		Ship Wt.	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	Kg
1400-10	1400-10B	6-3/8	162	4-1/2	114	3-3/16	82	8-3/16	208	6-3/8	162	4	102	12	5.4
1400-20	1400-20B	6-3/8	162	4-1/2	114	3-3/16	82	8-5/8	220	6-7/8	175	4	102	12.5	5.7
1400-30	1400-30B	8-1/2	216	4-3/4	121	4-1/4	108	9-3/4	248	7-1/8	181	4	102	15	6.8
1400-40	1400-40B	8-1/2	216	4-3/4	121	4-1/4	108	9-3/4	248	7-1/8	181	4	102	15	6.8
1400-45	1400-45B	6-3/8	162	4-5/8	119	3-3/16	82	10-1/4	260	8-1/2	216	4	102	15.5	7
1400-50	1400-50B	6-3/8	162	4-5/8	119	3-3/16	82	10-1/4	260	8-1/2	216	4	102	16.5	7.5
1400-50/2	1400-50B/2	6-3/8	162	5-1/4	133	3-3/16	82	10-1/4	260	8-1/2	216	4	102	17	7.7
1400-60	1400-60B	8-1/2	216	5-3/16	132	4-1/4	108	9-3/4	248	7-1/8	181	4	102	18.5	8.4
1400-65	1400-65B	8-1/2	216	5-1/2	140	4-1/4	108	11-1/4	285	8-3/4	222	4	102	22.5	10.2
1400-70	1400-70B	8-1/2	216	5-1/2	140	4-1/4	108	11-1/4	285	8-3/4	222	4	102	23.5	10.7
1400-70/3	1400-70B/3	8-1/2	216	6-5/8	168	4-1/4	108	12	305	8-3/4	222	4	102	29.5	13.4



Mounting Positions



Electrical Data

Model	Volts	Hz	Ph	Amps	RPM	HP
1400-10	115	60	1	1.5	3450	1/10
1400-20	115	60	1	2.0	3450	1/6
1400-30	115	60	1	2.0	3450	1/6
1400-40	115	60	1	2.0	3450	1/6
1400-45	115	60	1	3.2	3450	1/3
1400-50	115	60	1	5.0	3450	1/2
1400-60	115	60	1	2.0	3450	1/6
1400-65	115	60	1	3.2	3450	1/3
1400-70	115	60	1	5.0	3450	1/2
Motor Type	Open Drip Proof, Permanent Split Capacitor, Thermally Protected					
Motor Options	230/60/1, 220/50/1					

1400 Series Companion Flange Sets

Models	Connection	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
1400-10/10B	Iron NPT	110-251F	110-252F	110-253F	110-254F	---	---	---
1400-20/20B	Bronze NPT	110-251BF	110-252BF	110-253BF	110-254BF	---	---	---
1400-45/45B	Bronze SWT	110-523BSF	110-524BSF	110-525BSF	110-526BSF	---	---	---
1400-50/50B	Shut-Off NPT	243-1	244-1	245-1	246-1	---	---	---
	Shut-Off SWT	243-2	244-2	245-2	246-2	---	---	---
1400-50/50B/2	Iron NPT	---	---	---	---	194-2124F	---	---
2", 2 bolt	Bronze NPT	---	---	---	---	194-2124BF	---	---
1400-30/30B	Iron NPT	---	---	194-1540F	194-1542F	---	---	---
1400-40/40B	Bronze NPT	---	---	194-1540BF	194-1542BF	---	---	---
	Shut-Off NPT	---	---	247-1	248-1	---	---	---
	Shut-Off SWT	---	---	247-2	248-2	---	---	---
1400-60/60B	Iron NPT	---	---	---	---	185-086C	---	---
1400-65/65B	Bronze NPT	---	---	---	---	185-086B	---	---
1400-70/70B	---	---	---	---	---	---	---	---
1400-70/70B/3	Iron NPT	---	---	---	---	---	185-112C	185-113C
3", 4 bolt	Bronze NPT	---	---	---	---	---	185-112B	185-113B

1 Noryl® is a registered trademark of General Electric Co.

2 Nu-Tride® is a registered trademark of Kolene Corp.

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1400 Series — High Capacity Circulators — 50Hz

