

Technical overview

E.2 Series high efficiency circulator

File No: 10.165

Date: DECEMBER 24, 2012

Supersedes: 10.165

Date: JANUARY 19, 2012

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MOTOR DATA

MODEL	SPEED	FULL LOAD AMP DRAW (A)				NOMINAL POWER
		RPM	120 V	208 V	240 V	
E7.2	3400	2.0	1.0	1.0	—	1/8 (125)
E8.2	3250	2.0	1.0	1.0	—	1/8 (125)
E9.2	3250	2.0	1.0	1.0	—	1/8 (125)
E10.2	3300	2.0	—	1.0	—	1/8 (125)
E11.2	3300	2.0	—	1.0	—	1/8 (125)
E12.2	3300	4.8	2.4	2.4	2.4	3/8 (298)
E13.2	3400	2.0	—	1.0	—	1/8 (125)
E14.2	3300	4.8	2.4	2.4	2.4	3/8 (298)
E15.2	3500	2.5	1.8	1.8	1.8	3/8 (298)
E16.2	3400	2.0	—	1.0	—	1/8 (125)
E17.2	3500	3.0	1.6	1.6	1.6	3/8 (298)
E19.2	3450	3.4	1.8	1.8	1.8	3/8 (298)
E21.2	3450	3.8	2.0	2.0	2.0	3/8 (298)
E23.2	3350	5.7	3.0	3.0	3.0	3/8 (298)
E24.2	3400	5.0	2.6	2.6	2.6	3/8 (298)
E28.2	3400	5.0	2.6	2.6	2.6	3/8 (298)
E23.2	3450	3.3	1.7	1.7	1.7	3/8 (298)
E29.2	3400	3.9	2.0	2.0	2.0	3/8 (298)
E30.2	3350	4.7	2.4	2.4	2.4	3/8 (298)
E33.2	3300	5.7	3.1	3.1	3.1	3/8 (298)

NOTE:

- Speed in RPM, nominal power in hp (W) and full load amp draw in amps
- All motors are two pole, single phase.

MATERIALS OF CONSTRUCTION

Pump body: Cast iron or lead free bronze**

Impeller: 30% glass-filled Noryl

Face plate and shaft: Stainless steel

Seal: Silicon carbide enviroseal

Gasket: EPDM

Bearings: Permanently lubricated stainless steel

** Contains less than 0.25% lead, weighted average.

TECHNICAL DATA

MODEL	MAX. FLOW in USgpm (L/s)	MAX. HEAD in ft. (m)
E7.2	38.0 (2.4)	26.0 (7.9)
E8.2	38.0 (2.4)	34.0 (10.4)
E9.2	38.0 (2.4)	42.4 (12.9)
E10.2	43.0 (2.7)	28.0 (8.5)
E11.2	45.0 (2.8)	31.9 (9.7)
E12.2	50.0 (3.1)	56.0 (17.0)
E13.2	54.0 (3.4)	19.7 (6.0)
E14.2	52.0 (3.3)	61.0 (18.6)
E15.2	58.0 (3.7)	24.5 (7.5)
E16.2	68.0 (4.3)	16.8 (5.1)
E17.2	65.0 (4.1)	27.0 (8.2)
E19.2	90.0 (5.7)	23.0 (7.0)
E21.2	90.0 (5.7)	26.5 (8.1)
E23.2	88.0 (5.6)	39.5 (12.0)
E24.2	83.0 (5.2)	35.5 (10.8)
E28.2	105.0 (6.6)	30.0 (9.1)
E23.2	117.0 (7.4)	17.0 (5.2)
E29.2	128.0 (8.1)	19.0 (5.8)
E30.2	130.0 (8.2)	22.0 (6.7)
E33.2	143.0 (9.0)	26.0 (7.9)

Max. fluid temperature: 230°F (110°C)

Max. ambient temperature: 122°F (50°C)

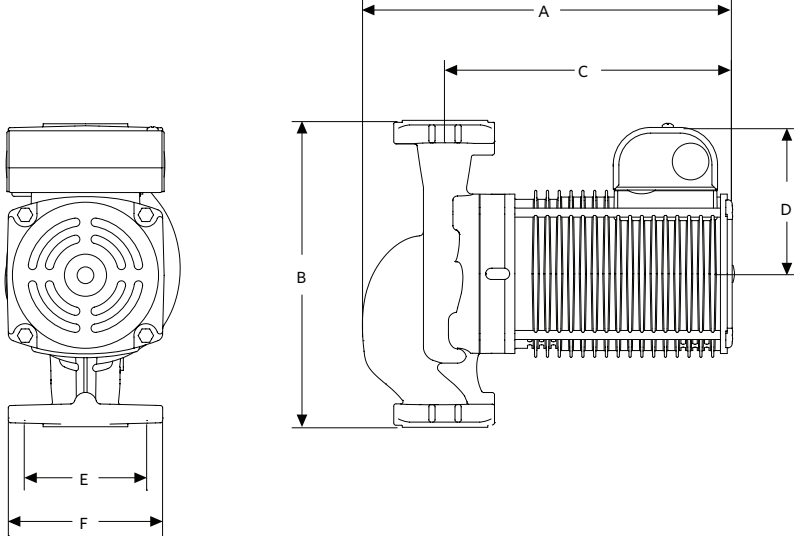
Max. working pressure: 150 PSI (1034 kPa)

ACCESSORIES

Spool pieces to retrofit existing three-piece circulator applications (see brochure # 10.161)

DIMENSIONS AND WEIGHTS

MODEL	A	B	C	D	E	F	CONNECTION	SHIPPING WEIGHT	
								CAST IRON	LEAD FREE BRONZE
E7.2/E7.2B	7.10 (180)	6.40 (164)	5.50 (140)	3.80 (97)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	13.1 (5.94)	13.3 (6.03)
E8.2/E8.2B	7.10 (180)	6.40 (164)	5.50 (140)	3.80 (97)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	13.1 (5.94)	13.3 (6.03)
E9.2/E9.2B	7.10 (180)	6.40 (164)	5.50 (140)	3.80 (97)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	13.1 (5.94)	13.3 (6.03)
E10.2/E10.2B	7.50 (191)	8.50 (215)	5.60 (142)	3.80 (97)	3.40 (86)	4.20 (107)	1.5" diameter 2-bolt flanges	15.1 (6.85)	15.1 (6.85)
E11.2/E11.2B	7.50 (191)	8.50 (215)	5.60 (142)	3.80 (97)	3.40 (86)	4.20 (107)	1.5" diameter 2-bolt flanges	15.1 (6.85)	15.1 (6.85)
E12.2/E12.2B	9.30 (235)	6.40 (164)	7.80 (197)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	17.8 (8.07)	18.4 (8.35)
E13.2/E13.2B	7.50 (191)	8.50 (215)	5.60 (142)	3.80 (97)	3.40 (86)	4.20 (107)	1.5" diameter 2-bolt flanges	15.1 (6.85)	14.8 (6.71)
E14.2/E14.2B	9.30 (235)	6.40 (164)	7.80 (197)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	17.8 (8.07)	18.4 (8.35)
E15.2/E15.2B	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	20.9 (9.48)	21.2 (9.62)
E16.2/E16.2B	8.40 (212)	8.50 (215)	5.80 (147)	3.80 (97)	2.90 (73)	5.20 (131)	2" diameter 4-bolt flanges	18.8 (8.53)	20.9 (9.48)
E17.2/E17.2B	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	20.9 (9.48)	21.2 (9.62)
E19.2/E19.2B	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.7 (9.39)	20.9 (9.48)
E21.2/E21.2B	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.7 (9.39)	20.9 (9.48)
E22.2/E22.2B	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.7 (9.39)	20.9 (9.48)
E23.2/E23.2B	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.7 (9.39)	20.9 (9.48)
E24.2/E24.2B	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.7 (9.39)	20.9 (9.48)
E28.2/E28.2B	11.35 (286)	8.50 (215)	8.35 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	26.8 (12.16)	29.2 (13.24)
E29.2/E29.2B	11.35 (286)	8.50 (215)	8.35 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	26.8 (12.16)	29.2 (13.24)
E30.2/E30.2B	10.90 (276)	8.50 (215)	8.30 (210)	4.00 (101)	2.90 (73)	5.20 (131)	2" diameter 4-bolt flanges	17.2 (7.80)	25.7 (11.66)
	11.30 (286)	8.50 (215)	8.30 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	26.8 (12.16)	29.2 (13.24)
E33.2/E33.2B	10.90 (276)	8.50 (215)	8.30 (210)	4.00 (101)	2.90 (73)	5.20 (131)	2" diameter 4-bolt flanges	17.2 (7.80)	25.7 (11.66)
	11.30 (286)	8.50 (215)	8.30 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	26.8 (12.16)	29.2 (13.24)



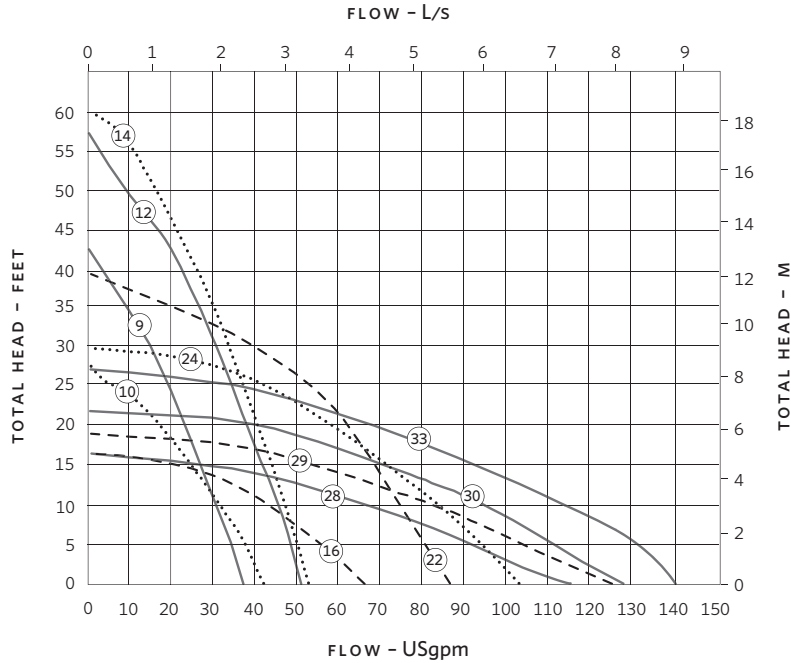
CROSS REFERENCE TABLE

MODELS	ARMSTRONG		B&G				GRUNDFOS	TACO		
	E.2 SERIES	CONNECTION	3-PIECE	OLD 60	NEW 60	PL	WET ROTOR	3-PIECE	WET ROTOR	1400 SERIES
OPEN SYSTEMS	E7.2B	FLANGED, 2 BOLT 1¼"	—	—	—	PL30B	UP 26-96B	—	0011	—
	E8.2B	FLANGED, 2 BOLT 1¼"	—	—	—	—	UP 26-99B	—	0013	—
	E9.2B	FLANGED, 2 BOLT 1¼"	—	—	—	PL36B	UP 26-116B	—	—	1400-20
	E10.2B	FLANGED, 2 BOLT 1½"	HV	—	—	—	UP 43-75B	—	—	—
	E11.2B	FLANGED, 2 BOLT 1½"	—	—	—	PL45B	—	—	—	1400-30
	E12.2B	FLANGED, 2 BOLT 1¼"	—	—	—	PL55B	—	—	—	1400-50
	E13.2B	FLANGED, 2 BOLT 1½"	—	—	—	PL50B	UP 43-44B	—	—	1400-40
	E14.2B	FLANGED, 2 BOLT 1¼"	—	—	—	—	—	—	—	—
	E15.2B	FLANGED, 2 BOLT 1¼"	—	—	601B	—	—	—	—	—
	E16.2B	FLANGED, 4 BOLT 2"	2	—	—	PL75B	UPS 40-40B	120	0012	1400-60
	E17.2B	FLANGED, 2 BOLT 1¼"	—	60-11B	602B	—	UPS 32-80B	—	—	—
	E19.2B	FLANGED, 2 BOLT 1½"	—	—	—	—	—	1600	—	—
	E21.2B	FLANGED, 2 BOLT 1½"	—	—	605B	—	—	1610	—	—
	E22.2B	FLANGED, 2 BOLT 1½"	—	—	622B	—	UPS 32-160B	1614	—	—
	E23.2B	FLANGED, 2 BOLT 1½"	—	60-11B	—	—	UPS 43-110B	1612	—	—
	E24.2B	FLANGED, 2 BOLT 1½"	—	60-15B	606B	—	UPS 40-80/2B	—	—	—
	E28.2B	FLANGED, 4 BOLT 3"	2½AB/LD3AB	60-13B	—	—	—	121, 122	—	—
	E29.2B	FLANGED, 4 BOLT 3"	HD3AB	—	—	—	—	131	—	—
E30.2B	FLANGED, 4 BOLT 2"	—	—	—	PL130B-2"	—	1630	—	—	
E30.2B	FLANGED, 4 BOLT 3"	PD-35AB	—	—	PL130B-3"	—	132	—	—	
E33.2B	FLANGED, 4 BOLT 2"	—	60-14B	615B	—	UPS 50-80/2B	1632	—	1400-70	
E33.2B	FLANGED, 4 BOLT 3"	—	—	—	—	—	133	—	—	
CLOSED SYSTEMS	E7.2	FLANGED, 2 BOLT 1¼"	—	—	—	PL30	UP 26-96F	—	0011	—
	E8.2	FLANGED, 2 BOLT 1¼"	—	—	—	—	UP 26-96F	—	0013	—
	E9.2	FLANGED, 2 BOLT 1¼"	—	—	—	PL36	UP 26-116F	—	—	1400-20
	E10.2	FLANGED, 2 BOLT 1½"	HV	—	—	—	UP 43-75F	112	—	—
	E11.2	FLANGED, 2 BOLT 1½"	—	—	—	PL45	—	—	—	1400-30
	E12.2	FLANGED, 2 BOLT 1¼"	—	—	—	PL55	—	—	—	1400-50
	E13.2	FLANGED, 2 BOLT 1½"	—	—	—	PL50	UP 43-44F	—	0012	1400-40
	E14.2	FLANGED, 2 BOLT 1¼"	—	—	—	—	—	—	—	—
	E15.2	FLANGED, 2 BOLT 1¼"	—	—	—	—	—	—	—	—
	E16.2	FLANGED, 4 BOLT 2"	2	—	—	PL75	UPS 40-40	120	0012	1400-60
	E17.2	FLANGED, 2 BOLT 1¼"	—	—	—	—	UPS 32-80	—	—	—
	E19.2	FLANGED, 2 BOLT 1½"	—	—	—	—	UP 43-70	1600	—	—
	E21.2	FLANGED, 2 BOLT 1½"	—	—	—	—	—	1610	—	—
	E22.2	FLANGED, 2 BOLT 1½"	—	—	—	—	UPS 32-160	1614	—	—
	E23.2	FLANGED, 2 BOLT 1½"	—	—	—	—	UP 43-110	1612	—	—
	E24.2	FLANGED, 2 BOLT 1½"	—	—	—	—	UPS 40-80/2	—	—	—
	E24.2	FLANGED, 2 BOLT 1½"	—	—	—	—	UPS 40-80/2	—	—	—
	E28.2	FLANGED, 4 BOLT 3"	2½/LD3	—	—	—	—	121, 122	—	—
E29.2	FLANGED, 4 BOLT 3"	HD3	—	—	—	—	131	—	—	
E30.2	FLANGED, 4 BOLT 2"	—	—	—	PL130-2"	—	1630	—	—	
E30.2	FLANGED, 4 BOLT 3"	PD-35	—	—	PL130-2"	—	132	—	—	
E30.2	FLANGED, 4 BOLT 3"	PD-35	—	—	PL130-2"	—	132	—	—	
E33.2	FLANGED, 4 BOLT 2"	—	—	—	—	UPS 50-80/2	1632	—	1400-70	
E33.2	FLANGED, 4 BOLT 2"	—	—	—	—	UPS 50-80/2	1632	—	1400-70	
E33.2	FLANGED, 4 BOLT 3"	—	—	—	—	—	133	—	—	

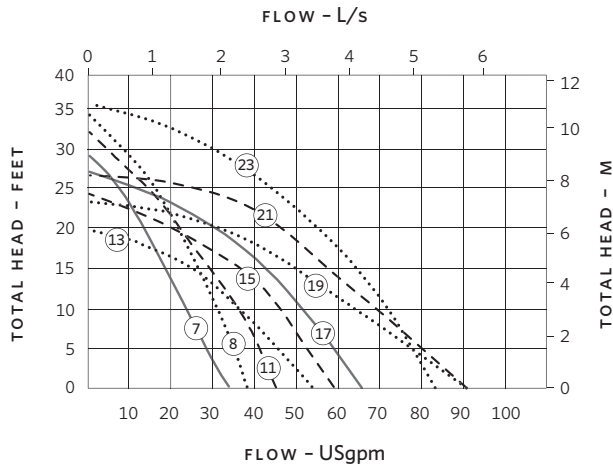
MODELS	PORT TO PORT LENGTH (INCHES)									
	E.2 SERIES	ARMSTRONG	B&G	ESP*	GRUNDFOS	ESP*	TACO	ESP*	S & H	ESP*
OPEN SYSTEMS	E7.2B	6 ³ / ₈ "	6 ³ / ₈ "	—	6 ¹ / ₂ "	—	6 ¹ / ₂ "	—	—	—
	E8.2B	6 ³ / ₈ "	—	—	6 ¹ / ₂ "	—	6 ¹ / ₂ "	—	—	—
	E9.2B	6 ³ / ₈ "	6 ³ / ₈ "	—	6 ¹ / ₂ "	—	6 ³ / ₈ "	—	—	—
	E10.2B	8 ¹ / ₂ "	8 ¹ / ₂ "	—	8 ¹ / ₂ "	—	—	—	8 ¹ / ₂ "	—
	E11.2B	8 ¹ / ₂ "	8 ¹ / ₂ "	—	—	—	6 ¹ / ₂ "	—	—	—
	E12.2B	6 ⁵ / ₈ "	6 ³ / ₈ "	—	—	—	6 ³ / ₈ "	—	—	—
	E13.2B	8 ¹ / ₂ "	8 ¹ / ₂ "	—	—	—	8 ¹ / ₂ "	—	—	—
	E14.2B	6 ⁵ / ₈ "	—	—	—	—	—	—	—	—
	E15.2B	8 ¹ / ₂ "	11"	—	—	—	—	—	11 ¹ / ₂ "	—
	E16.2B	8 ¹ / ₂ "	8 1/2"	—	13 ¹ / ₂ "	—	8 ¹ / ₂ "	—	8 ¹ / ₂ "	—
	E17.2B	8 ¹ / ₂ "	11"	—	11"	—	—	—	11 ¹ / ₂ "	—
	E19.2B	8 ¹ / ₂ "	—	—	—	—	—	—	13 ¹ / ₂ "	—
	E21.2B	8 ¹ / ₂ "	11"	—	—	—	10 ¹ / ₄ "	—	—	—
	E22.2B	8 ¹ / ₂ "	13 ¹ / ₂ "	—	11"	—	13 ¹ / ₂ "	—	—	—
	E23.2B	8 ¹ / ₂ "	13 ¹ / ₂ "	—	8 ¹ / ₂ "	—	13 ¹ / ₂ "	—	13 ¹ / ₂ "	—
	E24.2B	8 ¹ / ₂ "	11 ¹ / ₂ " / 11"	—	13 ¹ / ₂ "	—	—	—	11 ¹ / ₂ "	—
	E28.2B	8 ¹ / ₂ "	10"	—	—	—	11 ¹ / ₈ "	—	10"	—
	E29.2B	8 ¹ / ₂ "	10"	—	—	—	13 ⁵ / ₈ "	—	10"	—
	E30.2B	8 ¹ / ₂ "	8 ¹ / ₂ "	—	—	—	13 ¹ / ₂ "	—	—	—
	E30.2B	8 ¹ / ₂ "	12" / 8 ¹ / ₂ "	—	—	—	13 ⁵ / ₈ "	—	12"	—
E33.2B	8 ¹ / ₂ "	11 ¹ / ₂ " / 13 ¹ / ₂ "	—	14"	—	8 ¹ / ₂ "	—	11 ¹ / ₂ "	—	
E33.2B	8 ¹ / ₂ "	—	—	—	—	13 ⁵ / ₈ "	—	—	—	
CLOSED SYSTEMS	E7.2	6 ³ / ₈ "	6 ³ / ₈ "	—	6 ¹ / ₂ "	—	6 ¹ / ₂ "	—	—	—
	E8.2	6 ³ / ₈ "	—	—	6 ¹ / ₂ "	—	6 ¹ / ₂ "	—	—	—
	E9.2	6 ³ / ₈ "	6 ³ / ₈ "	—	6 ¹ / ₂ "	—	6 ³ / ₈ "	—	—	—
	E10.2	8 ¹ / ₂ "	8 ¹ / ₂ "	—	8 ¹ / ₂ "	—	—	—	8 ¹ / ₂ "	—
	E11.2	8 ¹ / ₂ "	8 ¹ / ₂ "	—	—	—	8 ¹ / ₂ "	—	—	—
	E12.2	6 ⁵ / ₈ "	6 ³ / ₈ "	—	—	—	6 ³ / ₈ "	—	—	—
	E13.2	8 ¹ / ₂ "	8 ¹ / ₂ "	—	—	—	8 ¹ / ₂ "	—	—	—
	E14.2	6 ⁵ / ₈ "	—	—	—	—	—	—	—	—
	E15.2	8 ¹ / ₂ "	11"	—	—	—	—	—	11 ¹ / ₂ "	ESP-1
	E16.2	8 ¹ / ₂ "	8 ¹ / ₂ "	—	13 ¹ / ₂ "	—	8 ¹ / ₂ "	—	8 ¹ / ₂ "	—
	E17.2	8 ¹ / ₂ "	11"	—	11"	ESP-2	—	—	11 ¹ / ₂ "	ESP-1
	E19.2	8 ¹ / ₂ "	11 ¹ / ₂ "	—	8 ¹ / ₂ "	—	10 ¹ / ₄ "	—	13 ¹ / ₂ "	—
	E21.2	8 ¹ / ₂ "	11"	—	—	—	10 ¹ / ₄ "	—	—	—
	E22.2	8 ¹ / ₂ "	13 ¹ / ₂ "	—	11"	ESP-11	13 ¹ / ₂ "	—	—	—
	E23.2	8 ¹ / ₂ "	13 ¹ / ₂ "	—	8 ¹ / ₂ "	—	13 ¹ / ₂ "	—	13 ¹ / ₂ "	ESP-5
	E24.2	8 ¹ / ₂ "	11 ¹ / ₂ "	—	13 ¹ / ₂ "	—	—	—	11 ¹ / ₂ "	ESP-4
	E24.2	8 ¹ / ₂ "	11"	—	13 ¹ / ₂ "	ESP-5	—	—	11 ¹ / ₂ "	ESP-4
	E28.2	8 ¹ / ₂ "	10"	—	—	—	11 ¹ / ₈ "	ESP-7	10"	ESP-6
	E29.2	8 ¹ / ₂ "	10"	—	—	—	13 ⁵ / ₈ "	ESP-9	10"	ESP-6
	E30.2	8 ¹ / ₂ "	8 ¹ / ₂ "	—	—	—	13 ¹ / ₂ "	—	—	—
E30.2	8 ¹ / ₂ "	12"	—	—	—	13 ⁵ / ₈ "	ESP-9	12"	ESP-8	
E30.2	8 ¹ / ₂ "	8 ¹ / ₂ "	—	—	—	13 ⁵ / ₈ "	ESP-9	12"	ESP-8	
E33.2	8 ¹ / ₂ "	11 ¹ / ₂ "	—	11 ¹ / ₂ "	ESP-12	8 ¹ / ₂ "	—	11 ¹ / ₂ "	ESP-12	
E33.2	8 ¹ / ₂ "	13 ¹ / ₂ "	—	11 ¹ / ₂ "	ESP-12	8 ¹ / ₂ "	—	11 ¹ / ₂ "	ESP-12	
E33.2	8 ¹ / ₂ "	—	—	—	—	13 ⁵ / ₈ "	ESP-9	—	—	

NOTE: * Use the listed pool piece models (ESP) to match E.2 series circulator port to port dimensions for a faster cleaner, pre-painted installation.

PERFORMANCE CURVES



Circled numbers denote E.2 series model number (performance guaranteed only at operating point indicated).



TORONTO
+1 416 755 2291

BUFFALO
+1 716 693 8813

BIRMINGHAM
+44 (0) 8444 145 145

MANCHESTER
+44 (0) 8444 145 145

BANGALORE
+91 (0) 80 4906 3555

SHANGHAI
+86 21 3756 6696

E.2 SERIES CIRCULATORS

E8.2/E8.2B | SUBMITTAL

File No: 10.591
 Date: JUNE 25, 2012
 Supersedes: 10.591
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 38.0 USgpm (0 to 2.4 L/s)
Head range: 0 to 34.0 feet (0 to 10.4 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E8.2	182202-657	182202-645
E8.2B	182202-658	182202-646

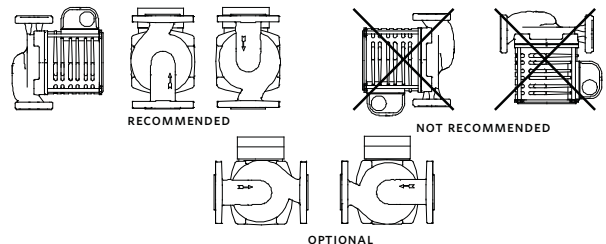
E8.2/E8.2B ACCESSORIES

- ¾" Flange kits
- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

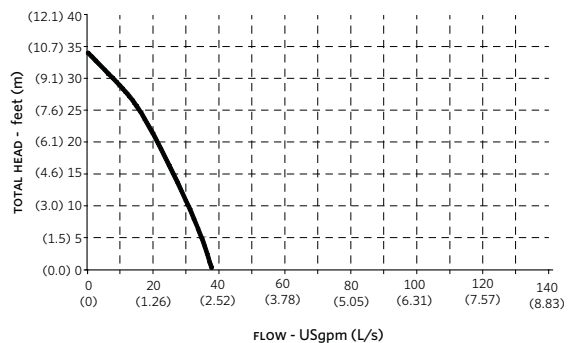
MOTOR DATA

	120V	208V	240V
Voltage	120V	208V	240V
Full load amp draw	2.0A	1.0A	1.0A
Nominal power: ¼ hp (125W)	Frequency: 60 Hz		
Motor type: Two pole, Single phase	Speed: 3400 rpm		

MOUNTING ORIENTATION FOR INDOOR USE ONLY

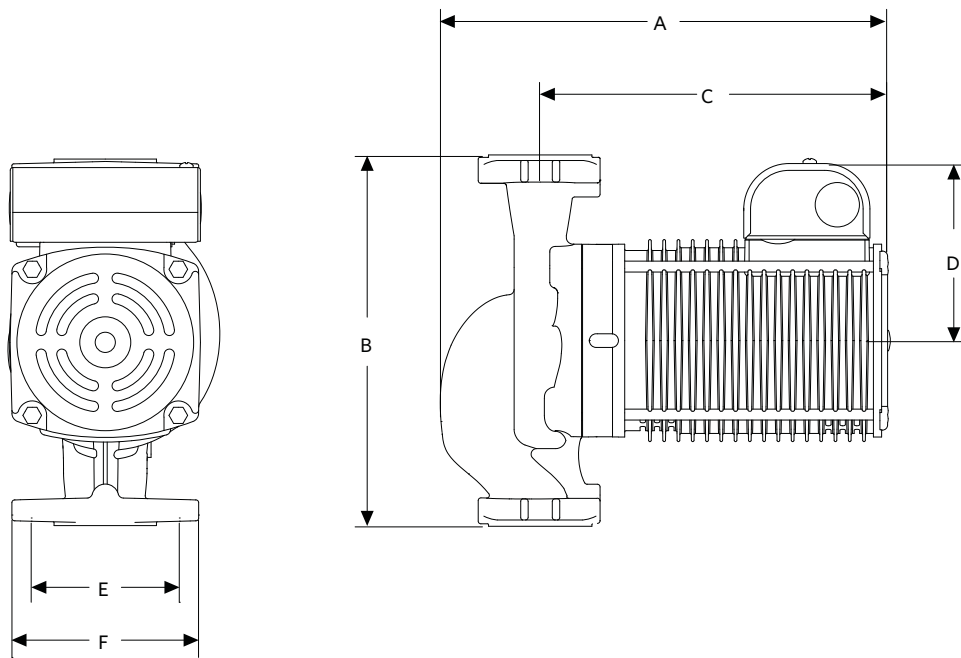


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E8.2	Cast iron	7.10 (180)	6.40 (164)	5.50 (140)	3.80 (97)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	13.1 (5.94)
E8.2B	Bronze	7.10 (180)	6.40 (164)	5.50 (140)	3.80 (97)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	13.3 (6.03)



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E.2 SERIES CIRCULATORS

E9.2/E9.2B | SUBMITTAL

File No: 10.592
 Date: JUNE 25, 2012
 Supersedes: 10.592
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 38.0 USgpm (0 to 2.4 L/s)
Head range: 0 to 42.4 feet (0 to 12.9 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E9.2	182202-659	182202-647
E9.2B	182202-660	182202-648

E9.2/E9.2B ACCESSORIES

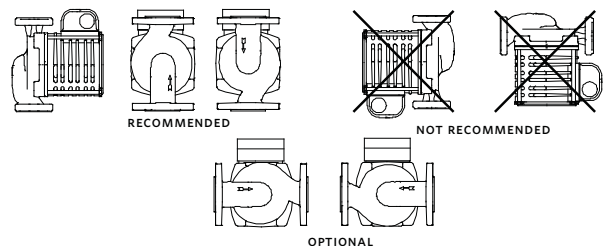
- ¾" Flange kits
- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

MOTOR DATA

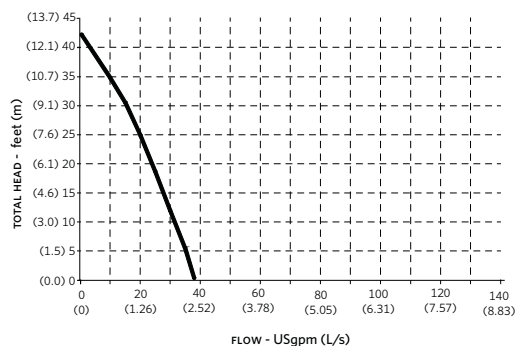
Voltage	120V	208V	240V
Full load amp draw	2.0A	1.0A	1.0A

Nominal power: ¼ hp (125W) **Frequency:** 60 Hz
Motor type: Two pole, Single phase **Speed:** 3250 rpm

MOUNTING ORIENTATION FOR INDOOR USE ONLY

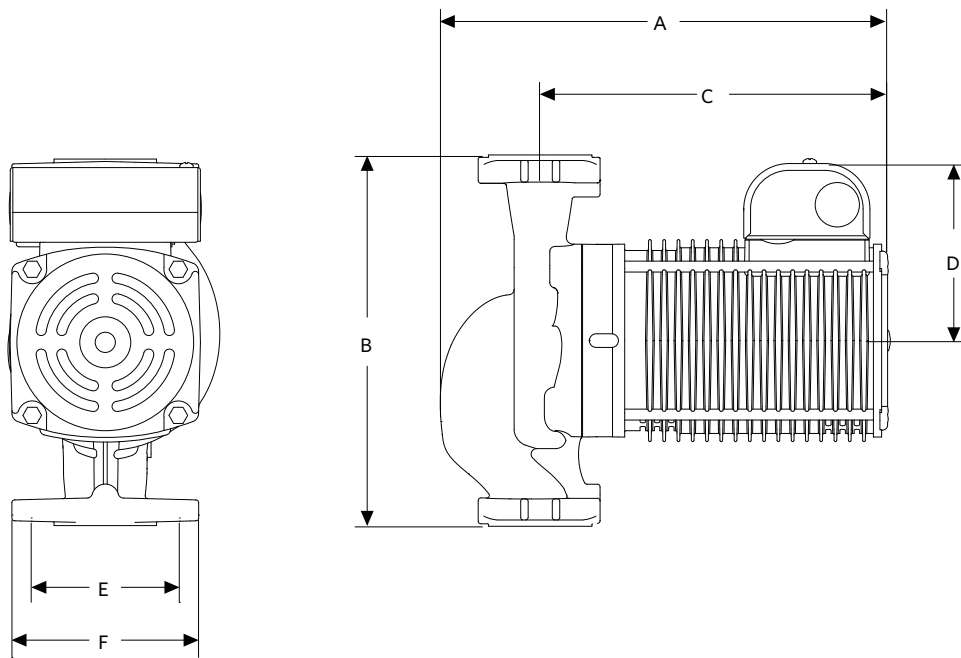


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E9.2	Cast iron	7.10 (180)	6.40 (164)	5.50 (140)	3.80 (97)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	13.1 (5.94)
E9.2B	Bronze	7.10 (180)	6.40 (164)	5.50 (140)	3.80 (97)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	13.3 (6.03)



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E.2 SERIES CIRCULATORS

E10.2/E10.2B | SUBMITTAL

File No: 10.593
 Date: JUNE 25, 2012
 Supersedes: 10.593
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 43.0 USgpm (0 to 2.7 L/s)
Head range: 0 to 28.0 feet (0 to 8.5 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E10.2	182202-649	182202-661
E10.2B	182202-650	182202-662

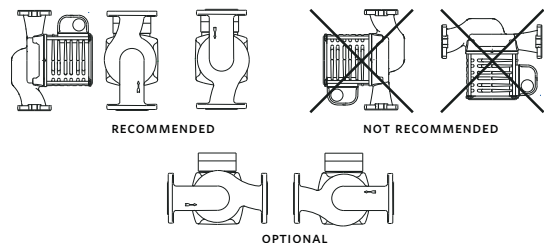
E10.2/E10.2B ACCESSORIES

- 1" Flange kits
- 1" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

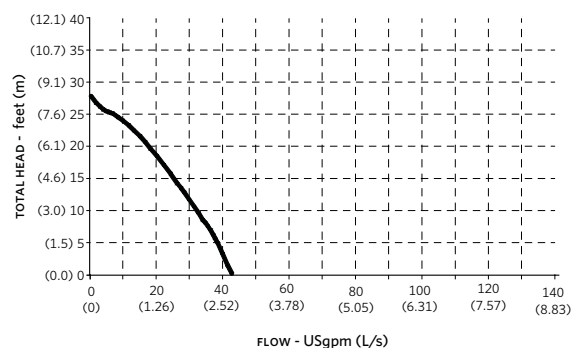
MOTOR DATA

Voltage	120V	240V
Full load amp draw	2.0A	1.0A
Nominal power: ¼ hp (125W)	Frequency: 60 Hz	
Motor type: Two pole, Single phase	Speed: 3300 rpm	

MOUNTING ORIENTATION FOR INDOOR USE ONLY

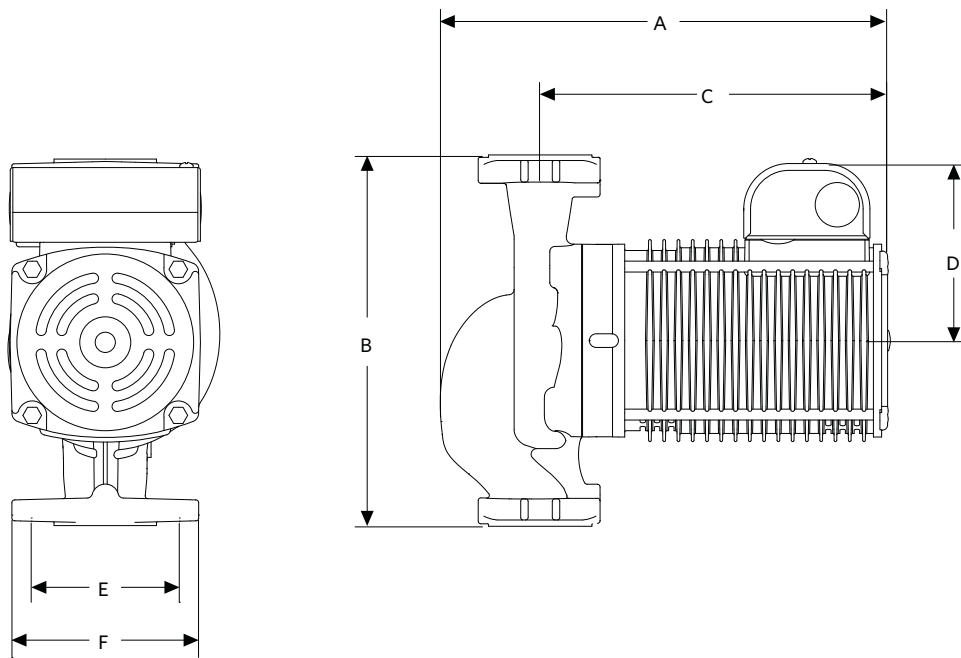


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E10.2	Cast iron	7.50 (191)	8.50 (215)	5.60 (142)	3.80 (97)	3.40 (86)	4.20 (107)	1.5" diameter 2-bolt flanges	15.1 (6.85)
E10.2B	Bronze	7.50 (191)	8.50 (215)	5.60 (142)	3.80 (97)	3.40 (86)	4.20 (107)	1.5" diameter 2-bolt flanges	15.1 (6.85)



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E.2 SERIES CIRCULATORS

E11.2/E11.2B | SUBMITTAL

File No: 10.594
 Date: JUNE 25, 2012
 Supersedes: 10.594
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 45.0 USgpm (0 to 2.8 L/s)
Head range: 0 to 31.9 feet (0 to 9.7 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E11.2	182202-651	182202-663
E11.2B	182202-652	182202-664

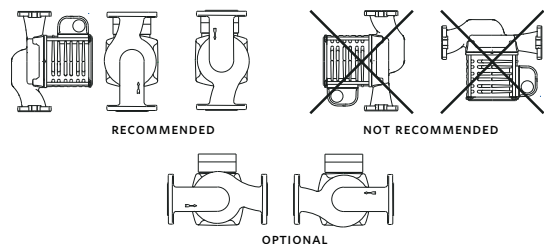
E11.2/E11.2B ACCESSORIES

- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

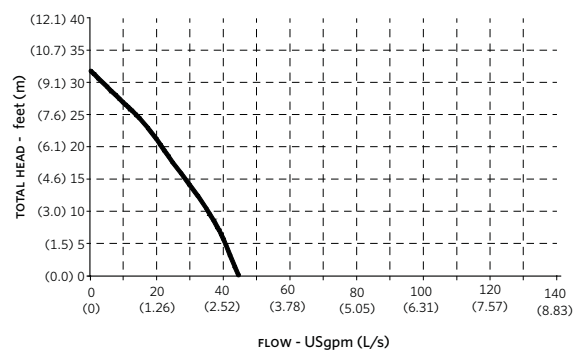
MOTOR DATA

Voltage	120V	240V
Full load amp draw	2.0A	1.0A
Nominal power: ½ hp (125W)	Frequency: 60 Hz	
Motor type: Two pole, Single phase	Speed: 3300 rpm	

MOUNTING ORIENTATION FOR INDOOR USE ONLY

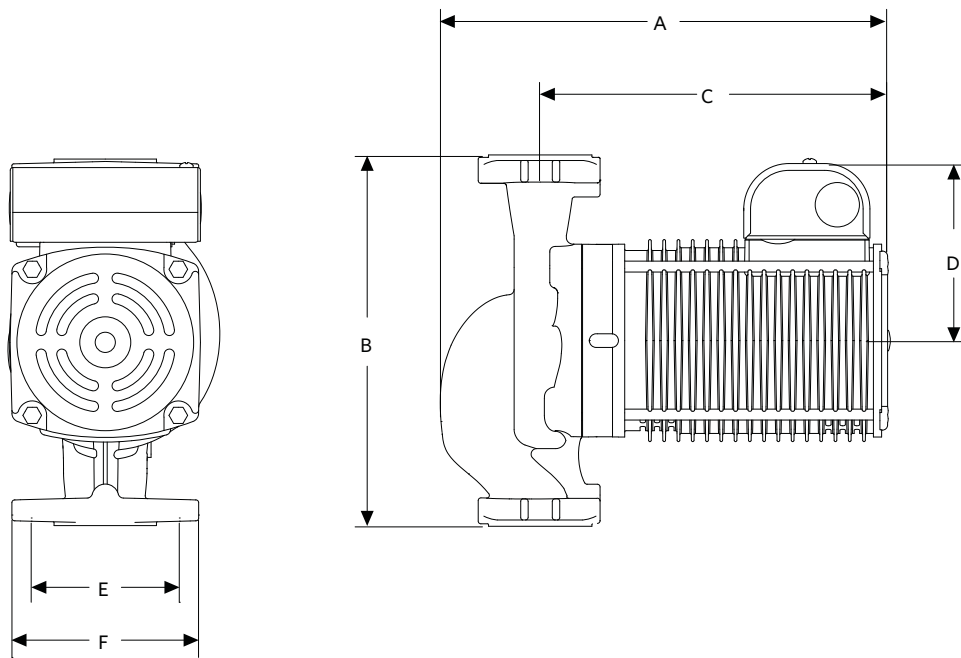


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E11.2	Cast iron	7.50 (191)	8.50 (215)	5.60 (142)	3.80 (97)	3.40 (86)	4.20 (107)	1.5" diameter 2-bolt flanges	15.1 (6.85)
E11.2B	Bronze	7.50 (191)	8.50 (215)	5.60 (142)	3.80 (97)	3.40 (86)	4.20 (107)	1.5" diameter 2-bolt flanges	15.1 (6.85)



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E.2 SERIES CIRCULATORS

E12.2/E12.2B | SUBMITTAL

File No: 10.603
 Date: JUNE 25, 2012
 Supersedes: 10.603
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 50.0 USgpm (0 to 3.1 L/s)
Head range: 0 to 56.0 feet (0 to 17.0 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E12.2	182212-841	182212-800
E12.2B	182212-842	182212-801

E12.2/E12.2B ACCESSORIES

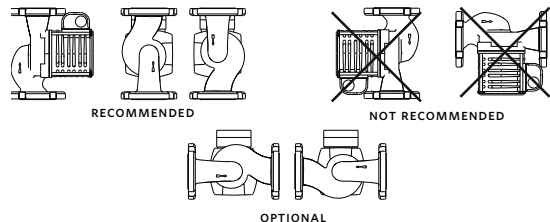
- ¾" Flange kits
- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

MOTOR DATA

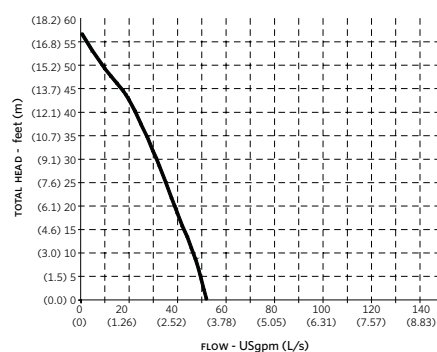
Voltage 120V
Full load amp draw 4.8A

Nominal power: ¾ hp (300W) **Frequency:** 60 Hz
Motor type: Two pole, Single phase **Speed:** 3300 rpm

MOUNTING ORIENTATION FOR INDOOR USE ONLY

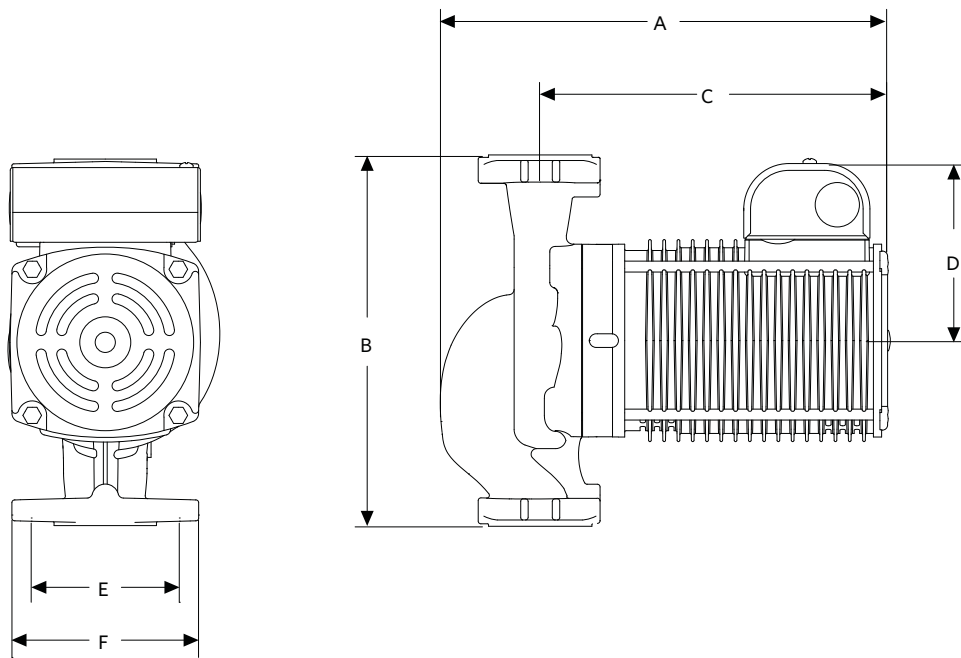


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E12.2	Cast iron	9.30 (235)	6.40 (164)	7.80 (197)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	17.8 (8.07)
E12.2B	Bronze	9.30 (235)	6.40 (164)	7.80 (197)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	18.4 (8.35)



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E.2 SERIES CIRCULATORS

E13.2/E13.2B | SUBMITTAL

File No: 10.595
 Date: JUNE 25, 2012
 Supersedes: 10.595
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 54.0 USgpm (0 to 3.4 L/s)
Head range: 0 to 19.7 feet (0 to 6.0 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E13.2	182202-655	182202-667
E13.2B	182202-656	182202-668

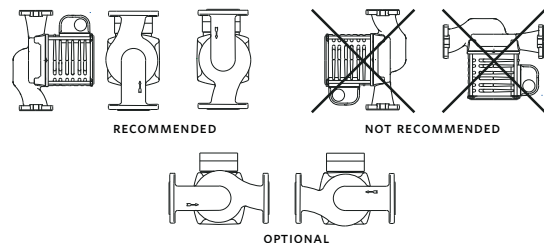
E13.2/E13.2B ACCESSORIES

- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

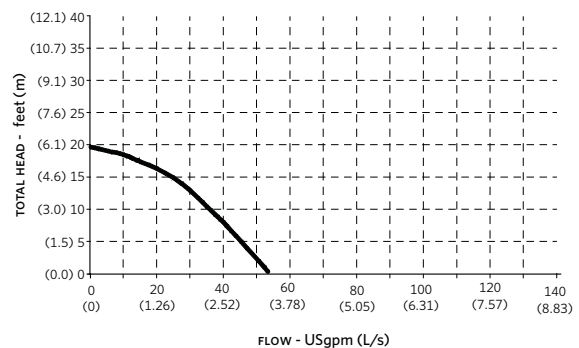
MOTOR DATA

Voltage	120V	240V
Full load amp draw	2.0A	1.0A
Nominal power: ½ hp (125W)	Frequency: 60 Hz	
Motor type: Two pole, Single phase	Speed: 3400 rpm	

MOUNTING ORIENTATION FOR INDOOR USE ONLY

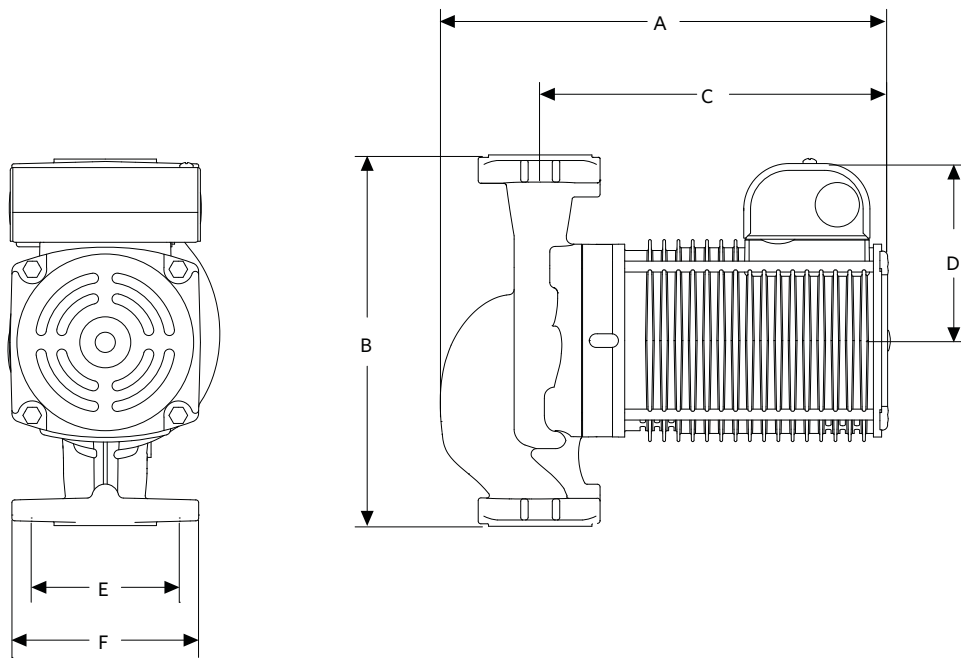


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E13.2	Cast iron	7.50 (191)	8.50 (215)	5.60 (142)	3.80 (97)	3.40 (86)	4.20 (107)	1.5" diameter 2-bolt flanges	15.1 (6.85)
E13.2B	Bronze	7.50 (191)	8.50 (215)	5.60 (142)	3.80 (97)	3.40 (86)	4.20 (107)	1.5" diameter 2-bolt flanges	14.8 (6.71)



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E.2 SERIES CIRCULATORS

E14.2/E14.2B | SUBMITTAL

File No: 10.604
 Date: JUNE 25, 2012
 Supersedes: 10.604
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 52.0 USgpm (0 to 3.3 L/s)
Head range: 0 to 61.0 feet (0 to 18.6 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E14.2	182212-843	182212-802
E14.2B	182212-844	182212-803

E14.2/E14.2B ACCESSORIES

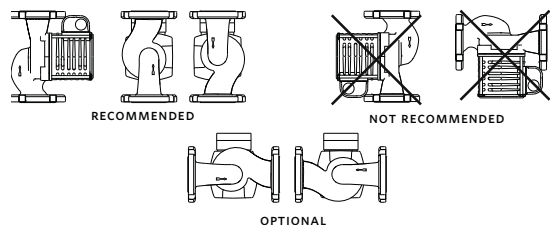
- ¾" Flange kits
- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

MOTOR DATA

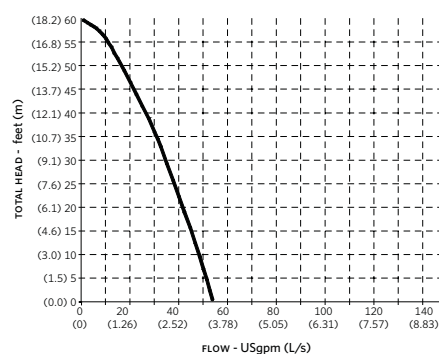
Voltage 120V
Full load amp draw 4.8A

Nominal power: ¾ hp (300W) **Frequency:** 60 Hz
Motor type: Two pole, Single phase **Speed:** 3300 rpm

MOUNTING ORIENTATION FOR INDOOR USE ONLY

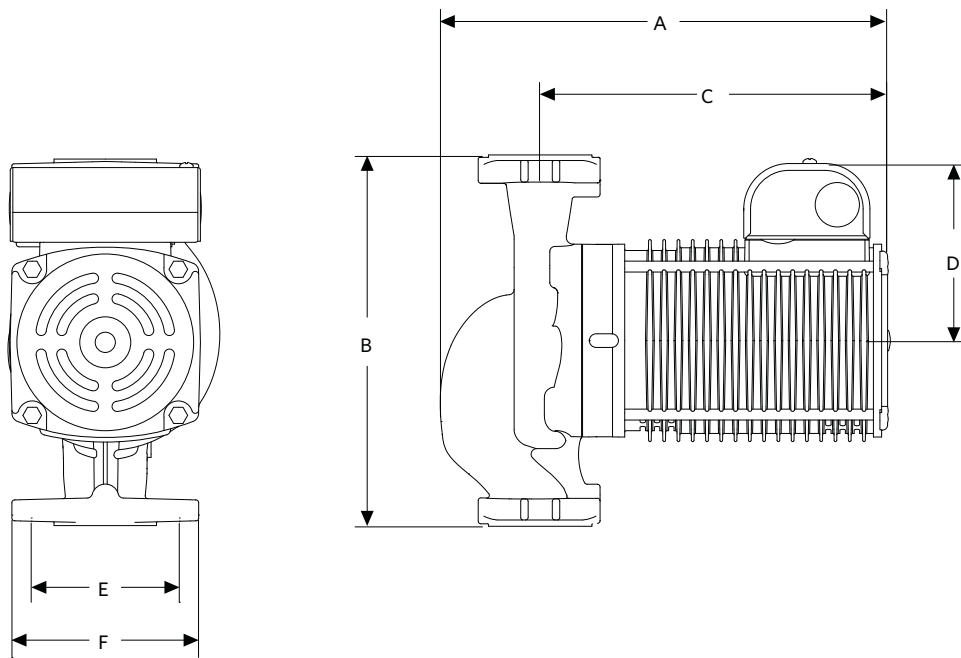


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E14.2	Cast iron	9.30 (235)	6.40 (164)	7.80 (197)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	17.8 (8.07)
E14.2B	Bronze	9.30 (235)	6.40 (164)	7.80 (197)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	18.4 (8.35)



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E.2 SERIES CIRCULATORS

E15.2/E15.2B | SUBMITTAL

File No: 10.605
 Date: JUNE 25, 2012
 Supersedes: 10.605
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 58.0 USgpm (0 to 3.7 L/s)
Head range: 0 to 24.5 feet (0 to 7.5 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E15.2	182212-661	182212-620
E15.2B	182212-662	182212-621

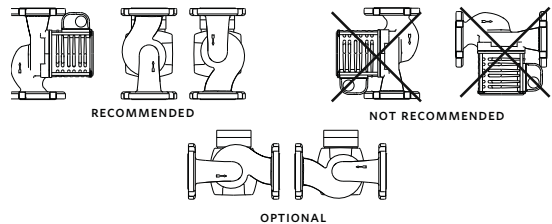
E15.2/E15.2B ACCESSORIES

- ¾" Flange kits
- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

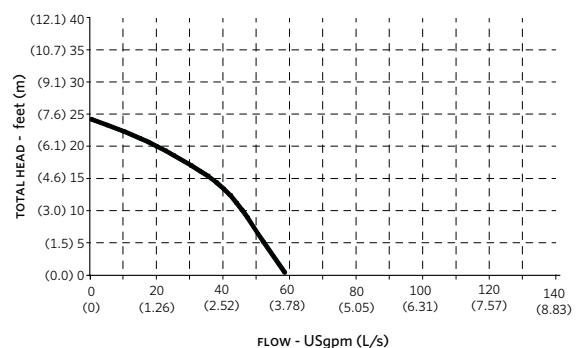
MOTOR DATA

Voltage	120V	208V	240V	277V
Full load amp draw	2.5A	1.8A	1.8A	1.8A
Nominal power: ¾ hp (300W)				Frequency: 60 Hz
Motor type: Two pole, Single phase oDP				Speed: 3500 rpm

MOUNTING ORIENTATION FOR INDOOR USE ONLY

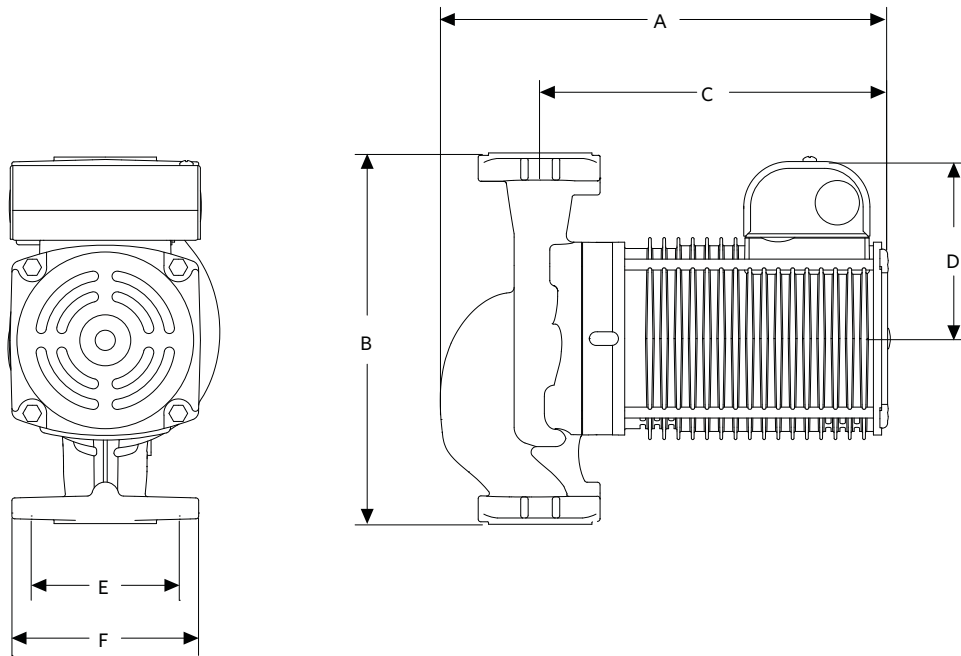


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E15.2	Cast iron	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	20.9 (9.48)
E15.2B	Bronze	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	21.2 (9.62)



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E.2 SERIES CIRCULATORS

E16.2/E16.2B | SUBMITTAL

File No: 10.596
 Date: JUNE 25, 2012
 Supersedes: 10.596
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 68.0 USgpm (0 to 4.3 L/s)
Head range: 0 to 16.8 feet (0 to 5.1 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)
Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E16.2	182202-653	182202-665
E16.2B	182202-654	182202-666

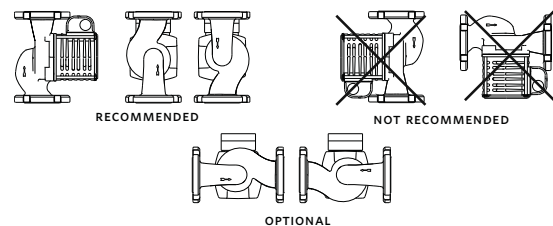
E16.2/E16.2B ACCESSORIES

- 2" Flange kits
- Aquastat
- Timer
- Spool pieces

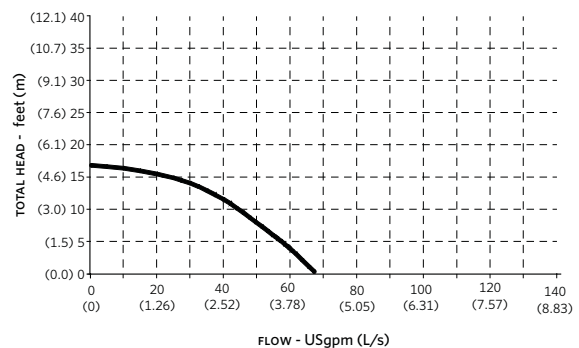
MOTOR DATA

Voltage	120V	240V
Full load amp draw	2.0A	1.0A
Nominal power: 1/8 hp (125W)	Frequency: 60 Hz	
Motor type: Two pole, Single phase	Speed: 3400 rpm	

MOUNTING ORIENTATION FOR INDOOR USE ONLY

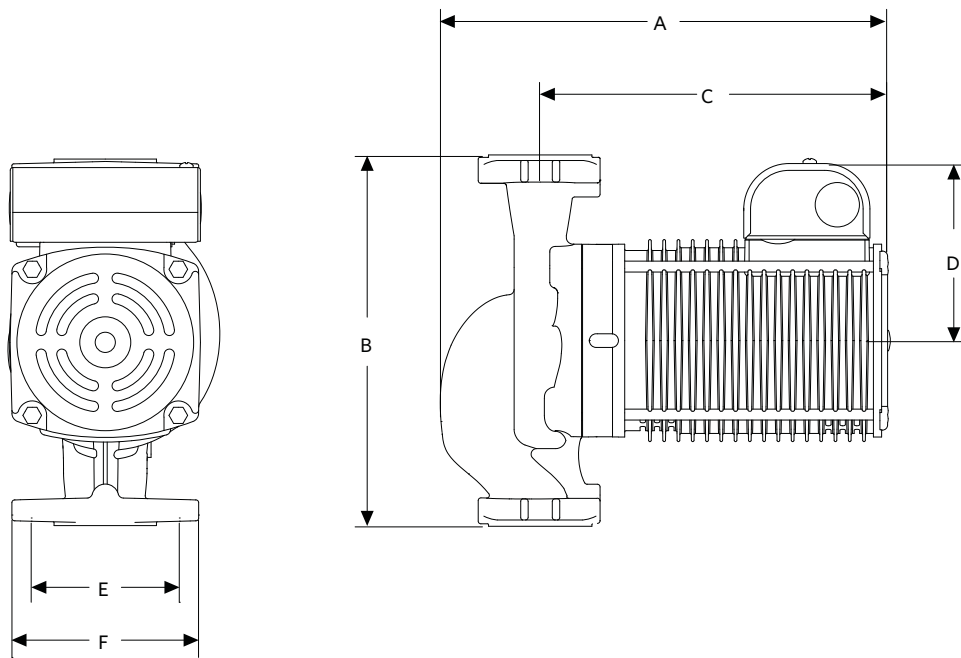


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E16.2	Cast iron	8.40 (212)	8.50 (215)	5.80 (147)	3.80 (97)	2.90 (73)	5.20 (131)	2" diameter 4-bolt flanges	18.8 (8.53)
E16.2B	Bronze	8.40 (212)	8.50 (215)	5.80 (147)	3.80 (97)	2.90 (73)	5.20 (131)	2" diameter 4-bolt flanges	20.9 (9.48)



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E.2 SERIES CIRCULATORS

E17.2/E17.2B | SUBMITTAL

File No: 10.606
 Date: JUNE 25, 2012
 Supersedes: 10.606
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 65.0 USgpm (0 to 4.1 L/s)
Head range: 0 to 27.0 feet (0 to 8.2 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E17.2	182212-663	182212-622
E17.2B	182212-664	182212-623

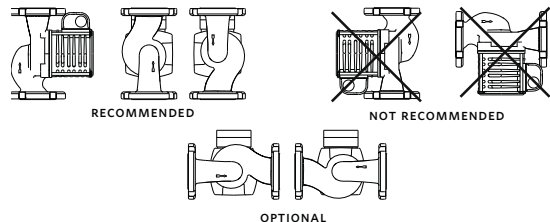
E17.2/E17.2B ACCESSORIES

- ¾" Flange kits
- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

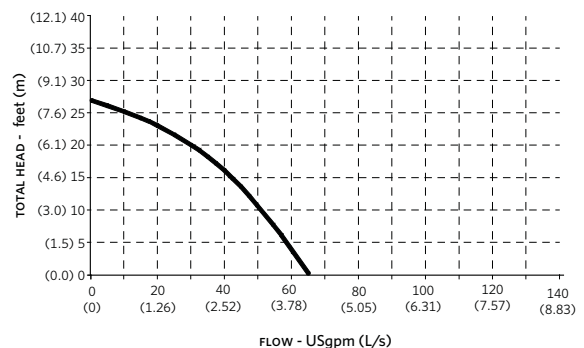
MOTOR DATA

Voltage	120V	208V	240V	277V
Full load amp draw	3.0A	1.6A	1.6A	1.6A
Nominal power: ¾ hp (300W)				Frequency: 60 Hz
Motor type: Two pole, Single phase ODP				Speed: 3500 rpm

MOUNTING ORIENTATION FOR INDOOR USE ONLY

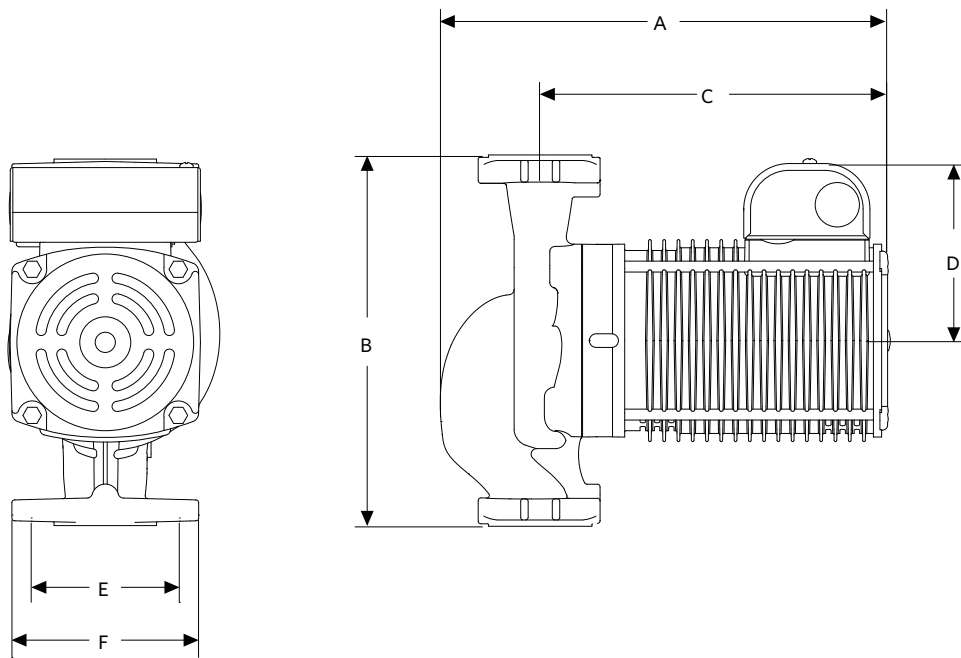


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E17.2	Cast iron	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	20.9 (9.48)
E17.2B	Bronze	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	21.2 (9.62)



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E.2 SERIES CIRCULATORS

E19.2/E19.2B | SUBMITTAL

File No: 10.607
 Date: JUNE 25, 2012
 Supersedes: 10.607
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 90.0 USgpm (0 to 5.7 L/s)
Head range: 0 to 23.0 feet (0 to 7.0 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E19.2	182212-649	182212-608
E19.2B	182212-650	182212-609

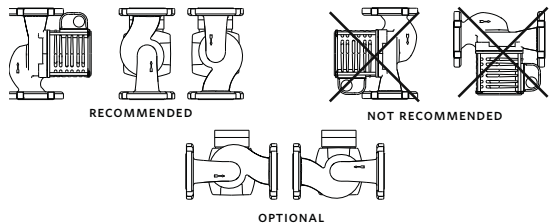
E19.2/E19.2B ACCESSORIES

- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

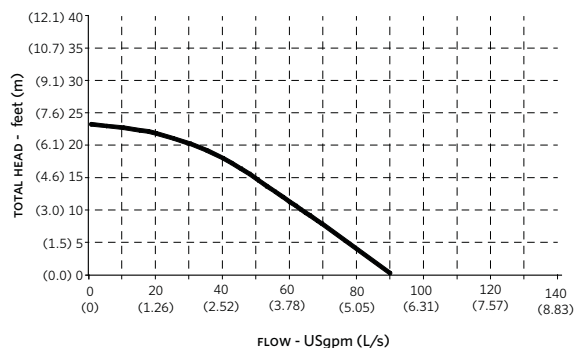
MOTOR DATA

Voltage	120V	208V	240V	277V
Full load amp draw	3.4A	1.8A	1.8A	1.8A
Nominal power: ¾ hp (300W)				Frequency: 60 Hz
Motor type: Two pole, Single phase ODP				Speed: 3450 rpm

MOUNTING ORIENTATION FOR INDOOR USE ONLY

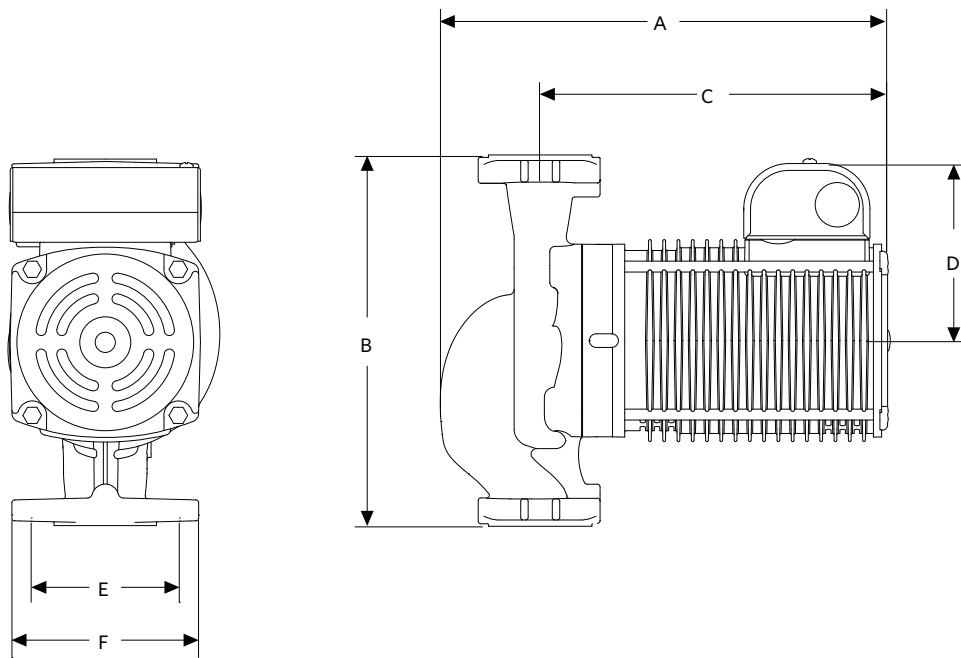


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E19.2	Cast iron	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.7 (9.39)
E19.2B	Bronze	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.9 (9.48)



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E.2 SERIES CIRCULATORS

E21.2/E21.2B | SUBMITTAL

File No: 10.608
 Date: JUNE 25, 2012
 Supersedes: 10.608
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 90.0 USgpm (0 to 5.7 L/s)
Head range: 0 to 26.5 feet (0 to 8.1 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E21.2	182212-665	182212-624
E21.2B	182212-666	182212-625

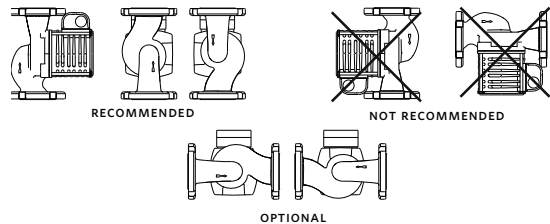
E21.2/E21.2B ACCESSORIES

- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

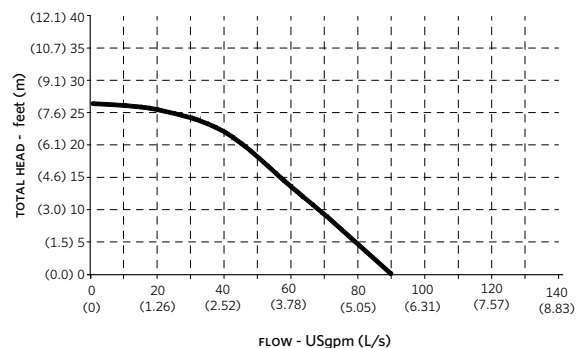
MOTOR DATA

Voltage	120V	208V	240V	277V
Full load amp draw	3.8A	2.0A	2.0A	2.0A
Nominal power: ¾ hp (300W)	Frequency: 60 Hz			
Motor type: Two pole, Single phase ODP	Speed: 3450 rpm			

MOUNTING ORIENTATION FOR INDOOR USE ONLY

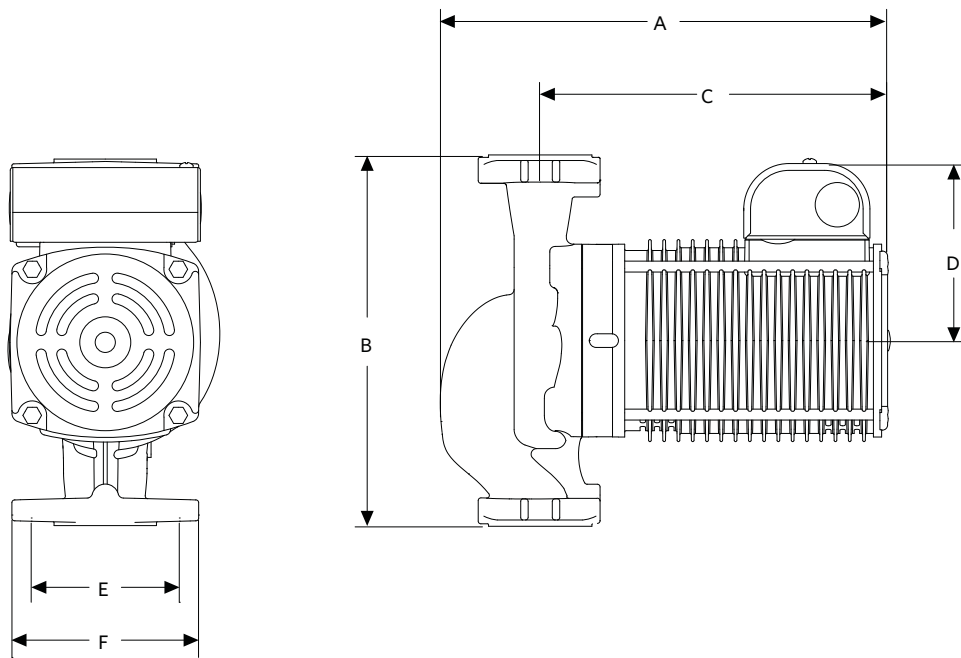


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E21.2	Cast iron	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.7 (9.39)
E21.2B	Bronze	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.9 (9.48)



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E.2 SERIES CIRCULATORS

E22.2/E22.2B | SUBMITTAL

File No: 10.609
 Date: JUNE 25, 2012
 Supersedes: 10.609
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 88.0 USgpm (0 to 5.6 L/s)
Head range: 0 to 39.5 feet (0 to 8.1 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E22.2	182212-667	182212-626
E22.2B	182212-668	182212-627

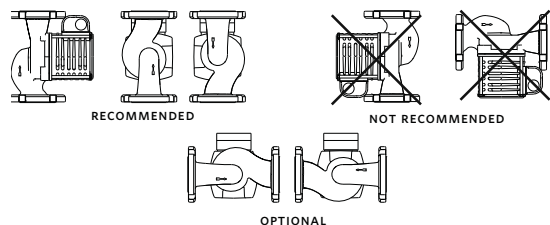
E22.2/E22.2B ACCESSORIES

- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

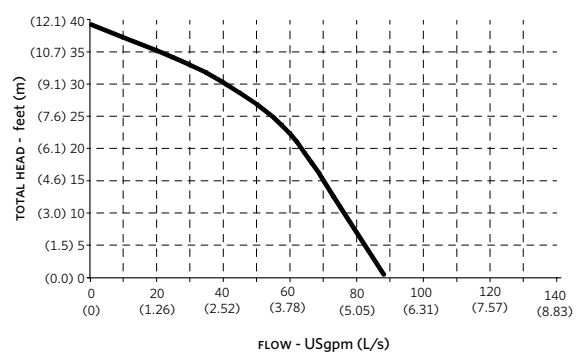
MOTOR DATA

Voltage	120V	208V	240V	277V
Full load amp draw	5.7A	3.0A	3.0A	3.0A
Nominal power: ¾ hp (300W)	Frequency: 60 Hz			
Motor type: Two pole, Single phase ODP	Speed: 3350 rpm			

MOUNTING ORIENTATION FOR INDOOR USE ONLY

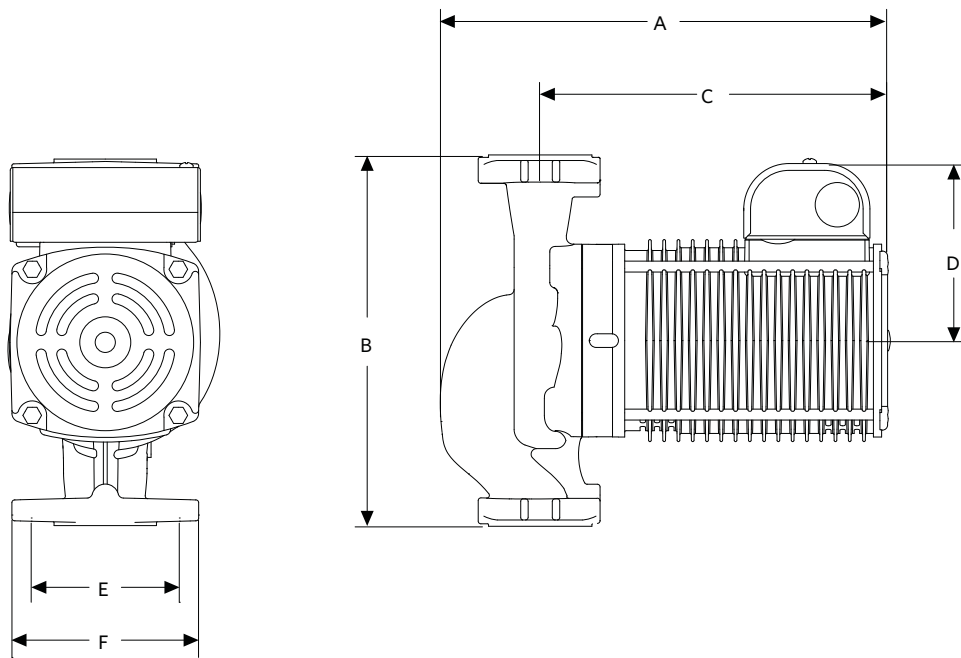


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E22.2	Cast iron	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.7 (9.39)
E22.2B	Bronze	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.9 (9.48)



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E.2 SERIES CIRCULATORS

E23.2/E23.2B | SUBMITTAL

File No: 10.610
 Date: JUNE 25, 2012
 Supersedes: 10.610
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 83.0 USgpm (0 to 5.2 L/s)
Head range: 0 to 35.5 feet (0 to 10.8 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E23.2	182212-651	182212-610
E23.2B	182212-652	182212-611

E23.2/E23.2B ACCESSORIES

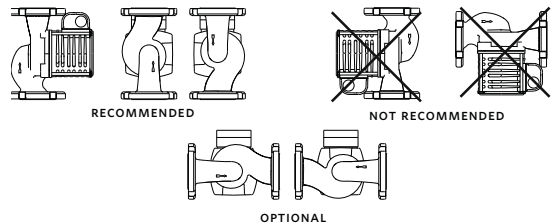
- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

MOTOR DATA

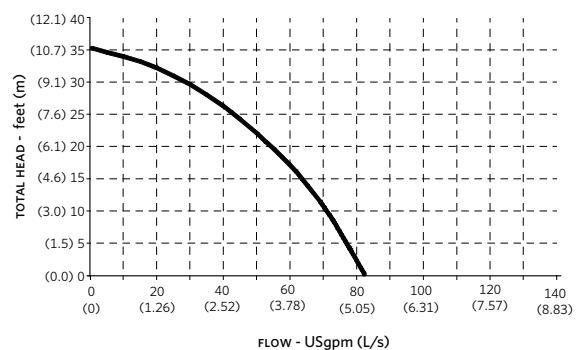
Voltage	120V	208V	240V	277V
Full load amp draw	5.0A	2.6A	2.6A	2.6A

Nominal power: ¾ hp (300W) **Frequency:** 60 Hz
Motor type: Two pole, Single phase ODP **Speed:** 3400 rpm

MOUNTING ORIENTATION FOR INDOOR USE ONLY

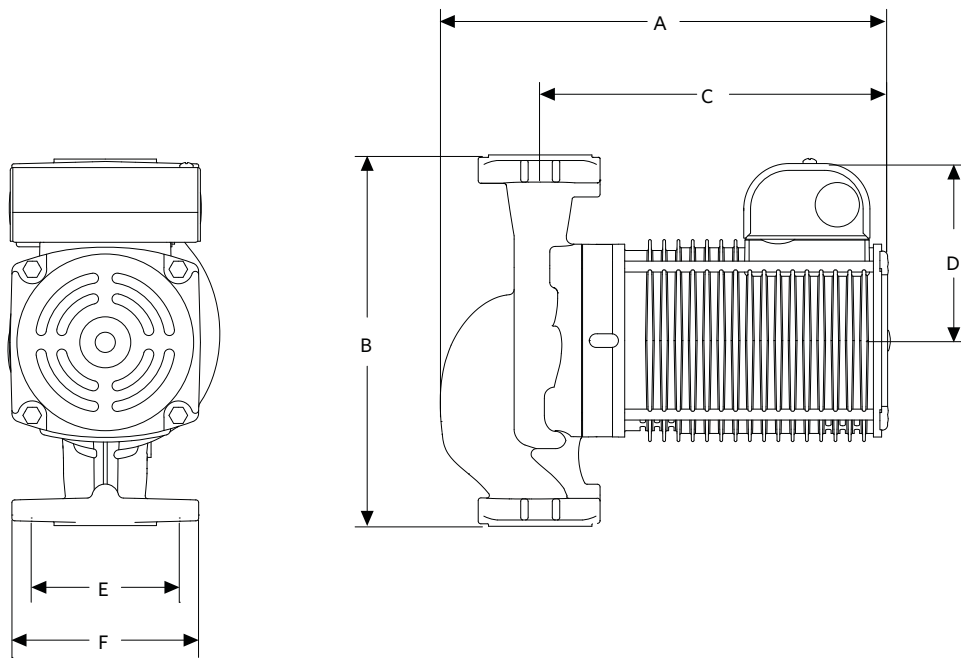


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E23.2	Cast iron	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.7 (9.39)
E23.2B	Bronze	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.9 (9.48)



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E.2 SERIES CIRCULATORS

E24.2/E24.2B | SUBMITTAL

File No: 10.611
 Date: JUNE 25, 2012
 Supersedes: 10.611
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 105.0 USgpm (0 to 6.6 L/s)

Head range: 0 to 30.0 feet (0 to 9.1 m)

Max/Min fluid temp: 230°F/40°F (110°C/4°C)

Max. working pressure: 150 psi (1034 kPa)

MOTOR DATA

Voltage	120V	208V	240V	277V
Full load amp draw	5.0A	2.6A	2.6A	2.6A

Nominal power: 3/8 hp (300W) **Frequency:** 60 Hz

Motor type: Two pole, Single phase ODP **Speed:** 3400 rpm

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

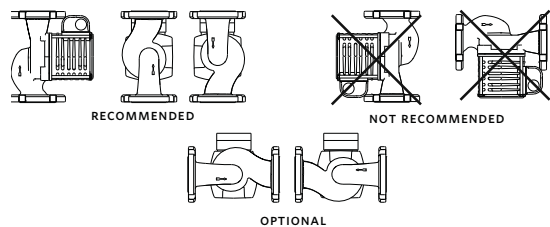
Face plate: Stainless steel **Shaft:** Stainless steel

Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM

Bearings: Permanently lubricated stainless steel

Seal: Silicon carbide enviroseal c/w viton elastomer

MOUNTING ORIENTATION FOR INDOOR USE ONLY



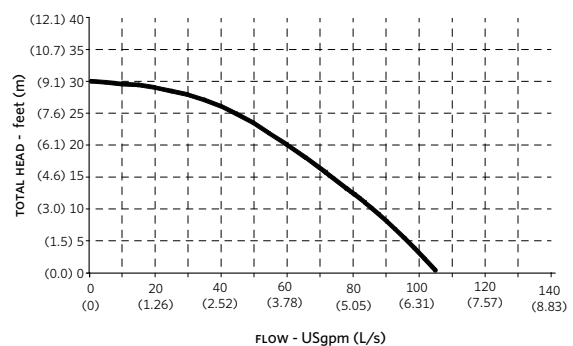
PART NUMBER

	120V	240V
E24.2	182212-653	182212-612
E24.2B	182212-654	182212-613

E24.2/E24.2B ACCESSORIES

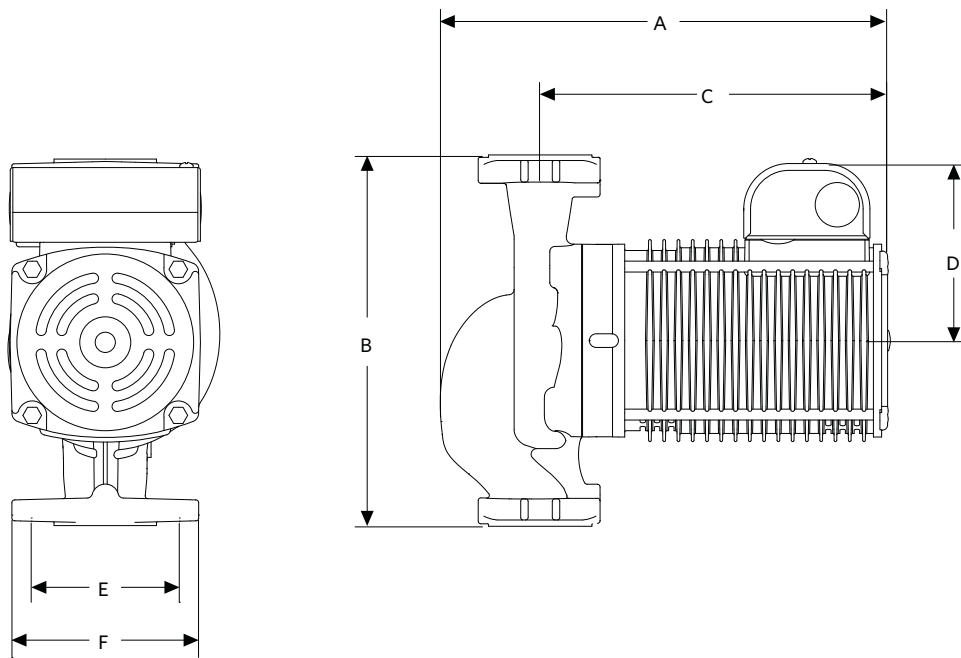
- 1" Flange kits
- 1 1/4" Flange kits
- 1 1/2" Flange kits
- Timer
- Aquastat
- Spool pieces

PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E24.2	Cast iron	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.7 (9.39)
E24.2B	Bronze	10.30 (261)	8.50 (215)	8.00 (202)	4.00 (101)	3.40 (81)	4.20 (107)	1.5" diameter 2-bolt flanges	20.9 (9.48)



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E.2 SERIES CIRCULATORS

E28.2/E28.2B | SUBMITTAL

File No: 10.612
 Date: JUNE 25, 2012
 Supersedes: 10.612
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 117.0 USgpm (0 to 7.4 L/s)
Head range: 0 to 17.0 feet (0 to 5.2 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E28.2	182212-655	182212-614
E28.2B	182212-656	182212-615

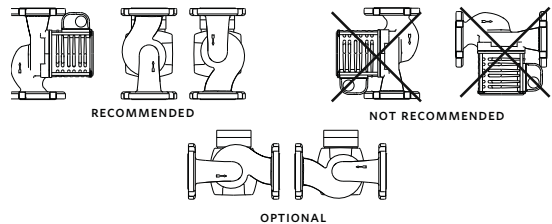
E28.2/E28.2B ACCESSORIES

- 3" Flange kits
- Timer
- Spool pieces
- Aquastat

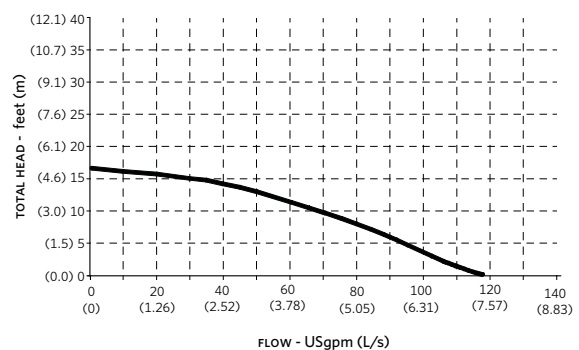
MOTOR DATA

Voltage	120V	208V	240V	277V
Full load amp draw	3.3A	1.7A	1.7A	1.7A
Nominal power: 3/8 hp (300W)				Frequency: 60 Hz
Motor type: Two pole, Single phase ODP				Speed: 3450 rpm

MOUNTING ORIENTATION FOR INDOOR USE ONLY

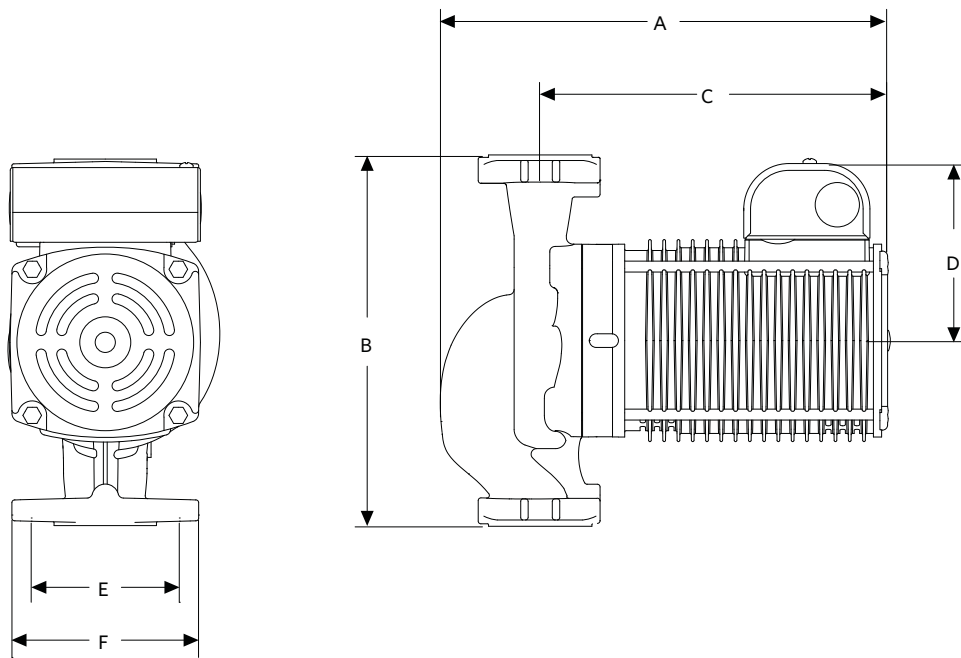


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E28.2	Cast iron	11.35 (286)	8.50 (215)	8.35 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	26.8 (12.16)
E28.2B	Bronze	11.35 (286)	8.50 (215)	8.35 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	29.2 (13.24)



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E.2 SERIES CIRCULATORS

E29.2/E29.2B | SUBMITTAL

File No: 10.613
 Date: JUNE 25, 2012
 Supersedes: 10.613
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 128.0 USgpm (0 to 8.1 L/s)
Head range: 0 to 19.0 feet (0 to 5.8 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E29.2	182212-657	182212-616
E29.2B	182212-658	182212-617

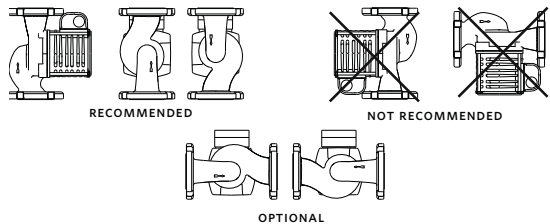
E29.2/E29.2B ACCESSORIES

- 3" Flange kits
- Timer
- Spool pieces
- Aquastat

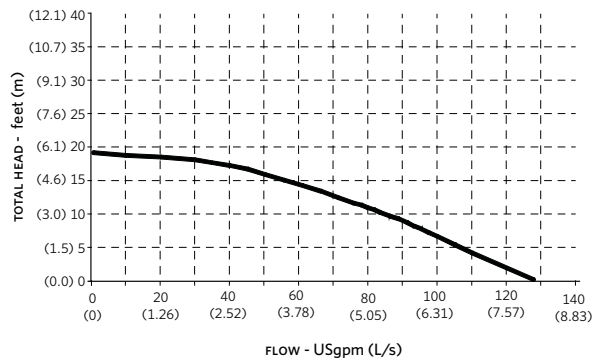
MOTOR DATA

Voltage	120V	208V	240V	277V
Full load amp draw	3.8A	2.0A	2.0A	2.0A
Nominal power: 3/8 hp (300w)				Frequency: 60 Hz
Motor type: Two pole, Single phase ODP				Speed: 3400 rpm

MOUNTING ORIENTATION FOR INDOOR USE ONLY

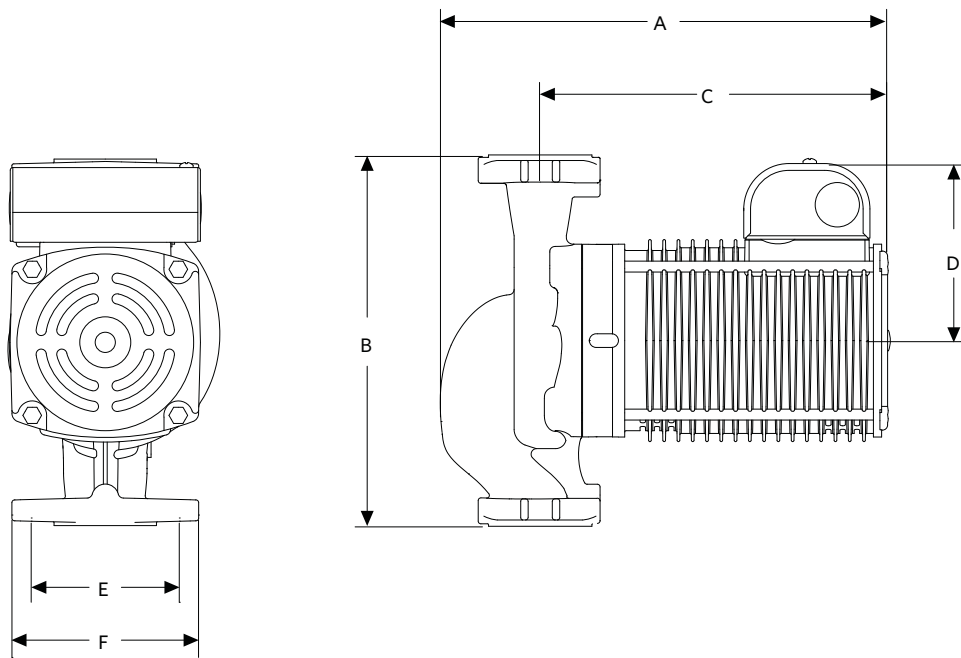


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)									SHIP. WEIGHT
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E29.2	Cast iron	11.35 (286)	8.50 (215)	8.35 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	26.8 (12.16)
E29.2B	Bronze	11.35 (286)	8.50 (215)	8.35 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	29.2 (13.24)



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E.2 SERIES CIRCULATORS

E30.2/E30.2B | SUBMITTAL

File No: 10.600
 Date: JUNE 25, 2012
 Supersedes: 10.600
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 130.0 USgpm (0 to 8.2 L/s)
Head range: 0 to 22.0 feet (0 to 6.7 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E30.2-2"	182212-645	182212-604
E30.2B-2"	182212-646	182212-605
E30.2-3"	182212-671	182212-630
E30.2B-3"	182212-672	182212-631

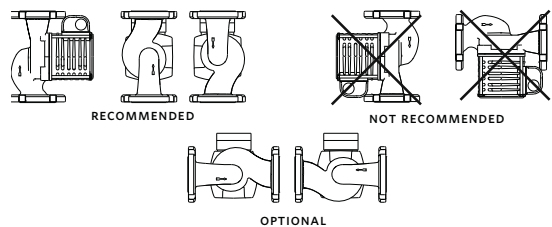
ACCESSORIES

- | | |
|--|--|
| <p>E30.2-2"/E30.2B-2"</p> <ul style="list-style-type: none"> • 2" Flange kits • Timer • Spool pieces • Aquastat | <p>E30.2-3"/E30.2B-3"</p> <ul style="list-style-type: none"> • 3" Flange kits • Timer • Spool pieces • Aquastat |
|--|--|

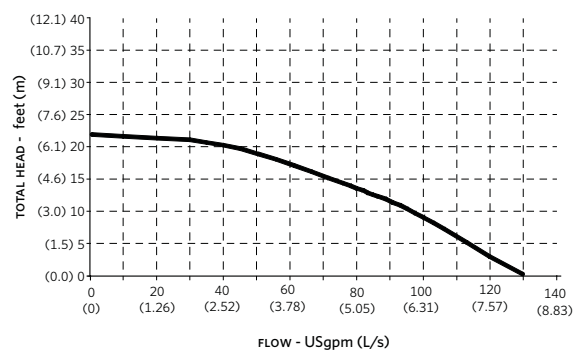
MOTOR DATA

Voltage	120V	208V	240V	277V
Full load amp draw	4.1A	2.4A	2.4A	2.4A
Nominal power: ¾ hp (300W)				Frequency: 60 Hz
Motor type: Two pole, Single phase ODP				Speed: 3350 rpm

MOUNTING ORIENTATION FOR INDOOR USE ONLY

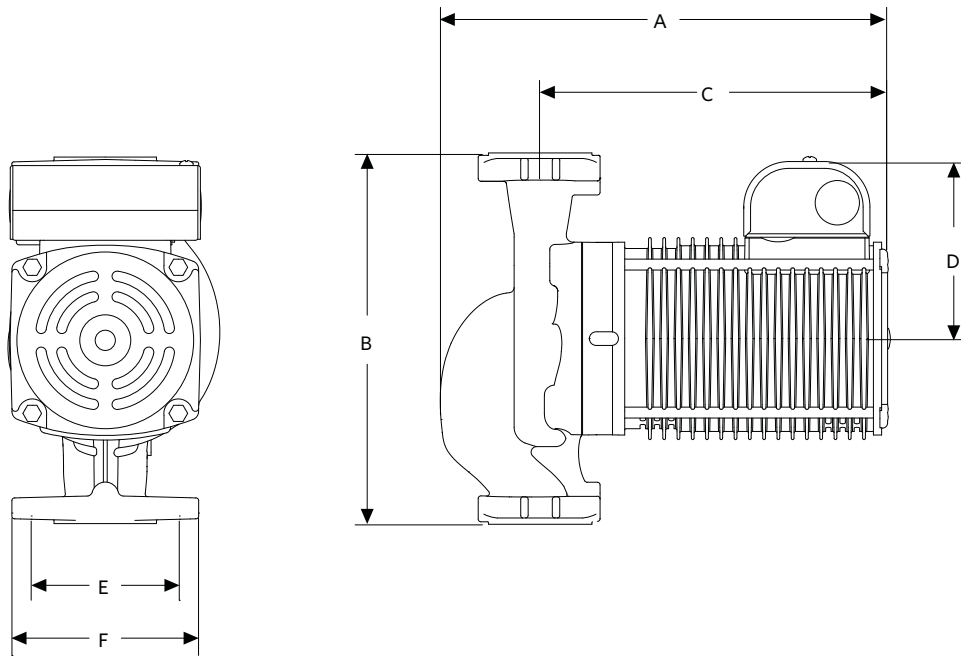


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E30.2-2"	Cast iron	10.90 (276)	8.50 (215)	8.30 (210)	4.00 (101)	2.90 (73)	5.20 (131)	2" diameter 4-bolt flanges	17.2 (7.8)
E30.2B-2"	Bronze	10.90 (276)	8.50 (215)	8.30 (210)	4.00 (101)	2.90 (73)	5.20 (131)	2" diameter 4-bolt flanges	25.7 (11.66)
E30.2-3"	Cast iron	11.30 (286)	8.50 (215)	8.30 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	26.8 (12.16)
E30.2B-3"	Bronze	11.30 (286)	8.50 (215)	8.30 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	29.2 (13.24)



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E.2 SERIES CIRCULATORS

E33.2/E33.2B | SUBMITTAL

File No: 10.602
 Date: JUNE 25, 2012
 Supersedes: 10.602
 Date: MARCH 15, 2012

Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 143.0 USgpm (0 to 9.0 L/s)

Head range: 0 to 26.0 feet (0 to 7.9 m)

Max/Min fluid temp: 230°F/40°F (110°C/4°C)

Max. working pressure: 150 psi (1034 kPa)

MOTOR DATA

Voltage 120V 208V 240V 277V

Full load amp draw 5.7A 3.1A 3.1A 3.1A

Nominal power: 3/8 hp (300W)

Frequency: 60 Hz

Motor type: Two pole, Single phase ODP

Speed: 3300 rpm

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

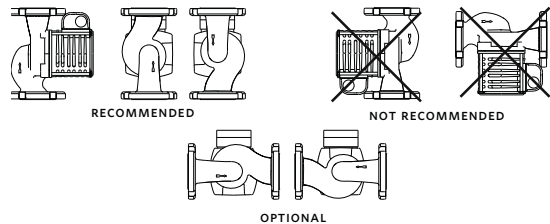
Face plate: Stainless steel **Shaft:** Stainless steel

Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM

Bearings: Permanently lubricated stainless steel

Seal: Silicon carbide enviroseal c/w viton elastomer

MOUNTING ORIENTATION FOR INDOOR USE ONLY



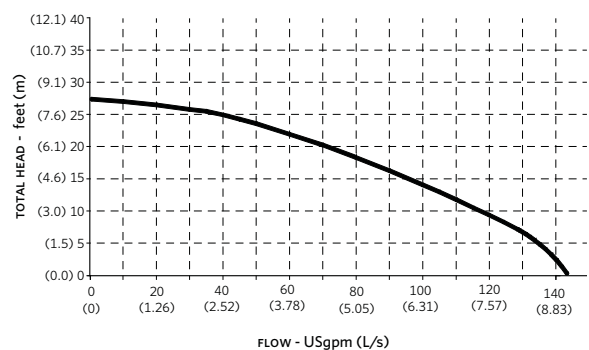
PART NUMBER

	120V	240V
E33.2-2"	182222-669	182212-628
E33.2B-2"	182212-670	182212-629
E33.2-3"	182212-675	182212-634
E33.2B-3"	182212-676	182212-635

ACCESSORIES

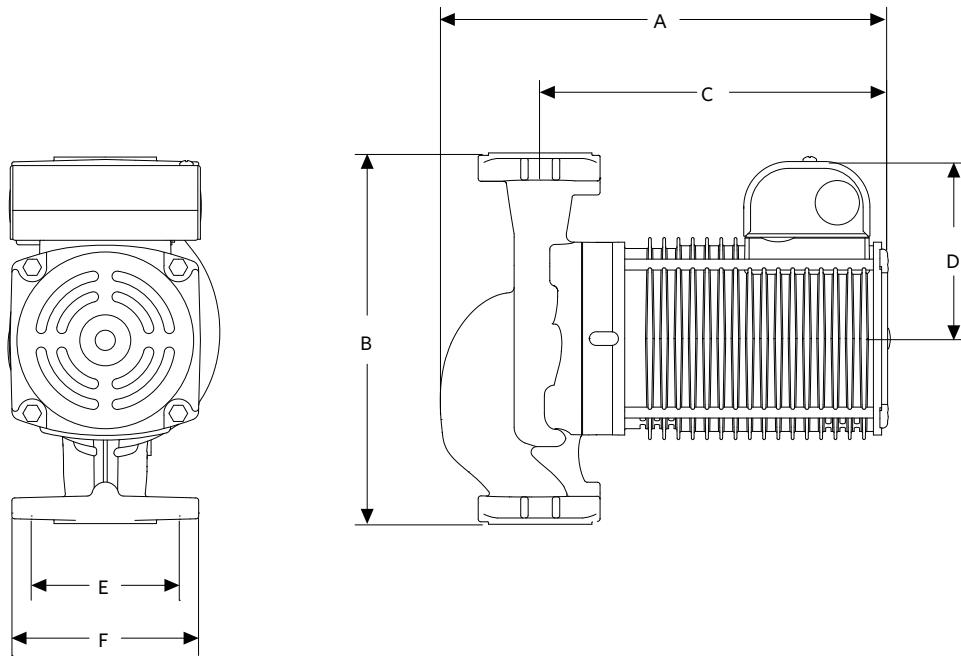
E33.2-2"/E33.2B-2"	E33.2-3"/E33.2B-3"
<ul style="list-style-type: none"> 2" Flange kits Timer Spool pieces Aquastat 	<ul style="list-style-type: none"> 3" Flange kits Timer Spool pieces Aquastat

PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E33.2-2"	Cast iron	10.90 (276)	8.50 (215)	8.30 (210)	4.00 (101)	2.90 (73)	5.20 (131)	2" diameter 4-bolt flanges	17.2 (7.8)
E33.2B-2"	Bronze	10.90 (276)	8.50 (215)	8.30 (210)	4.00 (101)	2.90 (73)	5.20 (131)	2" diameter 4-bolt flanges	25.7 (11.66)
E33.2-3"	Cast iron	11.30 (286)	8.50 (215)	8.30 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	26.8 (12.16)
E33.2B-3"	Bronze	11.30 (286)	8.50 (215)	8.30 (210)	4.00 (101)	3.50 (89)	6.00 (152)	3" diameter 4-bolt flanges	29.2 (13.24)



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E.2 SERIES CIRCULATORS

E7.2/E7.2B | SUBMITTAL

File No: 10.590
 Date: JUNE 25, 2012
 Supersedes: 10.590
 Date: MARCH 15, 2012

Job: _____ Representative: _____

Order no.: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	PART NUMBER	FLOW (USgpm)	HEAD (FEET)	VOLTAGE	PHASE	COMMENTS

TECHNICAL DATA

Flow range: 0 to 38.0 USgpm (0 to 2.4 L/s)
Head range: 0 to 26.0 feet (0 to 7.9 m)
Max/Min fluid temp: 230°F/40°F (110°C/4°C)
Max. Working pressure: 150 psi (1034 kPa)

MATERIALS OF CONSTRUCTION

Pump body: Cast iron (closed systems)
 Bronze (lead free for open systems)

Face plate: Stainless steel **Shaft:** Stainless steel
Impeller: 30% Glass-filled noryl **Volute gasket:** EPDM
Bearings: Permanently lubricated stainless steel
Seal: Silicon carbide enviroseal c/w viton elastomer

PART NUMBER

	120V	240V
E7.2	182202-643	182202-671
E7.2B	182202-644	182202-672

E7.2/E7.2B ACCESSORIES

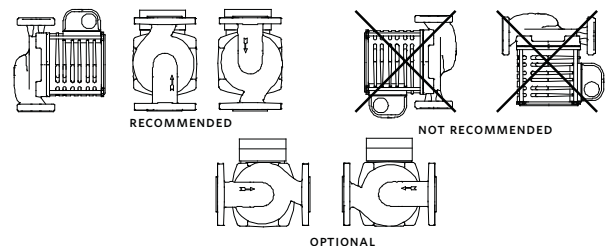
- ¾" Flange kits
- 1" Flange kits
- 1¼" Flange kits
- 1½" Flange kits
- Timer
- Aquastat
- Spool pieces

MOTOR DATA

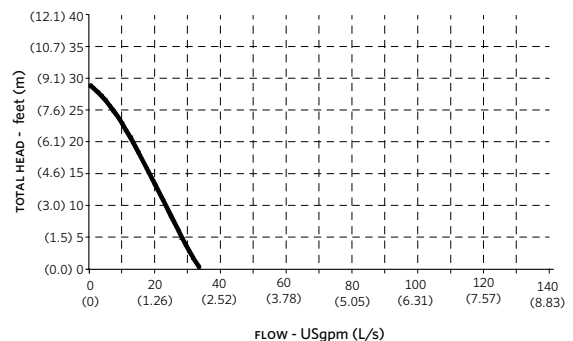
Voltage	120V	208V	240V
Full load amp draw	2.0A	1.0A	1.0A

Nominal power: ¼ hp (125W) **Frequency:** 60 Hz
Motor type: Two pole, Single phase **Speed:** 3400 rpm

MOUNTING ORIENTATION FOR INDOOR USE ONLY

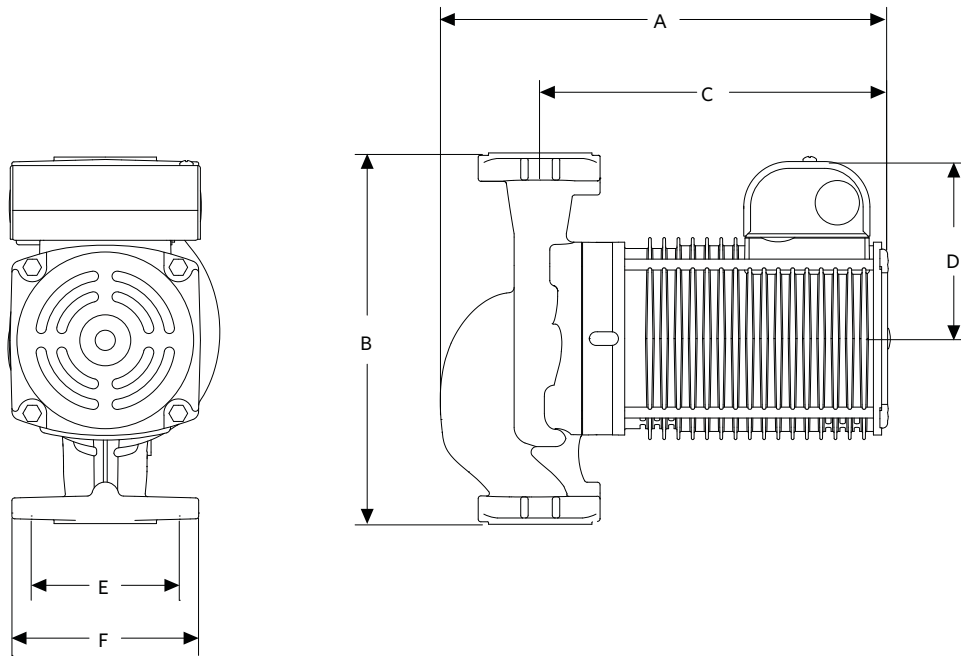


PERFORMANCE CURVE



Performance curves are for reference only. Confirm current performance data with Armstrong ACE ONLINE selection software.

DIMENSIONS inches (mm)								SHIP. WEIGHT	
MODEL	BODY	A	B	C	D	E	F	CONNECTION TYPE & SIZE	lbs (kgs)
E7.2	Cast iron	7.10 (180)	6.40 (164)	5.50 (140)	3.80 (97)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	13.1 (5.94)
E7.2B	Bronze	7.10 (180)	6.40 (164)	5.50 (140)	3.80 (97)	3.20 (81)	4.20 (107)	1.25" diameter 2-bolt flanges	13.3 (6.03)



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