

CIRCULATORS ecocirc® XL

High efficiency large wet rotor pump for heating, cooling and potable water systems

STANDARD OPERATING MODES

Constant Speed



The pump maintains a constant speed at any flow rate. The desired speed is set on the interface panel of the pump.

Constant Pressure (Δp -c)

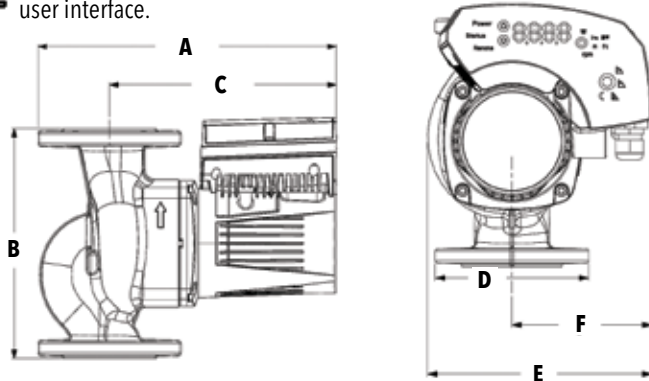


The pump maintains a constant differential pressure at any flow demand until the maximum speed is reached. The desired head of the pump can be set via user interface.

Proportional Pressure (Δp -v)



The differential pressure continuously increases or decreases based on the flow demand. The set point head can be set on the pump user interface.



Night Mode



The pump will automatically reduce speed when there is an abrupt change in fluid temperature. The change in fluid temperature is from a boiler operating in night time setback mode. The built-in temperature sensor is used.

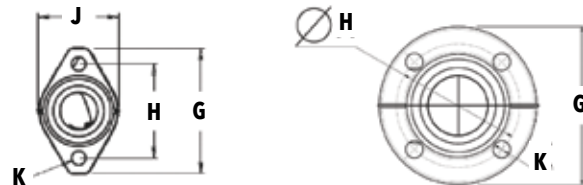
CONSTANT TEMPERATURE SPEED CONTROL

T- Constant Control

This control mode will use a PI algorithm to vary the speed of the pump in order to maintain a constant temperature of the fluid media.

ΔT -Constant Control

This control mode will use a PI algorithm to vary the speed of the pump in order to maintain a constant differential temperature between the built-in temperature sensor and external temperature sensor.



Model Number	Nominal Motor HP	Dimensions - Inches (mm)						Approx. Shipping Weight Lbs. (Kg)	
		A	B	C	D	E	F	Cast Iron	Bronze
ecocirc XL 20-35	1/12	9.94 (252)	6.38 (162)	8.20 (208)	4.19 (106)	7.20 (183)	4.72 (120)	19.8 (9)	22 (10)
ecocirc XL 36-45	1/6	9.94 (252)	6.38 (162)	8.20 (208)	4.19 (106)	7.20 (183)	4.72 (120)	19.8 (9)	22 (10)
ecocirc XL 15-75	1/6	11.04 (280)	8.5 (216)	8.39 (213)	5.19 (132)	7.57 (192)	4.72 (120)	26.4 (12)	28.6 (13)
ecocirc XL 55-45	1/2	11.89 (302)	6.38 (162)	10.18 (258)	4.19 (106)	8.12 (206)	5.02 (127)	26.4 (12)	28.6 (13)
ecocirc XL 20-140	1/2	13.39 (340)	11.5 (292)	10.41 (264)	5.19 (132)	8.20 (208)	5.02 (127)	35.2 (16)	39.6 (18)
ecocirc XL 65-130	1	14.84 (377)	11.5 (292)	11.80 (299)	4.62 (117)	9.53 (242)	5.77 (146)	39.6 (18)	44 (20)
ecocirc XL 40-200	1	15.17 (385)	11.5 (292)	11.80 (299)	5.19 (132)	9.53 (242)	5.77 (146)	41.8 (19)	46.2 (21)
ecocirc XL 70-145	2	14.84 (377)	11.5 (292)	11.80 (299)	4.62 (117)	9.53 (242)	5.77 (146)	38.4 (17)	44 (20)
ecocirc XL 40-275	2	16.04 (407)	12.0 (305)	12.57 (319)	6.00 (152)	10.07 (256)	5.77 (146)	49.6 (23)	55 (25)
ecocirc XL 65-130	1	14.96 (380)	11.5 (292)	11.85 (301)	2.87 (73)	10.43 (265)	5.31 (135)	39.6 (18)	44 (20)
ecocirc XL 40-200	1	15.23 (387)	11.5 (292)	11.85 (301)	5.19 (132)	10.43 (265)	5.31 (135)	35.2 (16)	39.6 (18)
ecocirc XL 95-160	2	14.44 (367)	11.5 (292)	11.37 (289)	2.87 (73)	10.43 (265)	5.31 (135)	39.6 (18)	44 (20)
ecocirc XL 27-320	2	15.27 (388)	14.17 (360)	11.81 (300)	6.00 (152)	10.43 (265)	5.31 (135)	49.6 (23)	55 (25)
ecocirc XL 110-180	3	14.44 (367)	11.5 (292)	11.37 (289)	2.87 (73)	10.43 (265)	5.31 (135)	38.4 (17)	44 (20)
ecocirc XL 45-375	3	16.14 (410)	14.17 (360)	12.67 (321)	6.00 (152)	10.43 (265)	5.31 (135)	49.6 (23)	55 (25)

Model Number	Flange Size Inches - NPT	# of Bolts	Dimensions - Inches (mm)				B&G Companion Flange (Set of 2)	
			G	H	J	K	Cast Iron PN	Bronze PN
ecocirc XL 20-35	3/4, 1, 1-1/4, 1-1/2	2	4.19 (106)	3.16 (80)	2.62 (66)	0.47 (12)	101201 - 101204*	101208LF - 101211LF*
ecocirc XL 36-45	3/4, 1, 1-1/4, 1-1/2	2	4.19 (106)	3.16 (80)	2.62 (66)	0.47 (12)	101201 - 101204*	101208LF - 101211LF*
ecocirc XL 15-75	2	4	5.18 (132)	4.06 (103)	-	0.56 (14)	101215	101216LF
ecocirc XL 55-45	3/4, 1, 1-1/4, 1-1/2	2	4.19 (106)	3.16 (80)	2.62 (66)	0.47 (12)	101201 - 101204*	101208LF - 101211LF*
ecocirc XL 20-140	2	4	5.19 (132)	4.06 (103)	-	0.56 (14)	101215	101216LF
ecocirc XL 65-130	1, 1-1/4, 1-1/2	2	4.62 (117)	3.44 (87)	2.86 (73)	0.47 (12)	101205 - 101207*	101212LF - 101214LF*
ecocirc XL 40-200	2	4	5.19 (132)	4.06 (103)	4.06 (103)	0.56 (14)	101215	101216LF
ecocirc XL 70-145	1, 1-1/4, 1-1/2	2	4.62 (117)	3.44 (87)	2.86 (73)	0.47 (12)	101205 - 101207*	101212LF - 101214LF*
ecocirc XL 40-275	3	4	6.00 (152)	5.06 (129)	-	0.53 (13)	101217	101218LF
ecocirc XL 65-130	1, 1-1/4, 1-1/2	2	4.62 (117)	3.44 (87)	2.86 (73)	0.47 (12)	101205 - 101207	101212LF - 101214LF
ecocirc XL 40-200	2	4	5.19 (132)	4.06 (103)	-	0.56 (14)	101215	101216LF
ecocirc XL 95-160	1, 1-1/4, 1-1/2	2	4.62 (117)	3.44 (87)	2.86 (73)	0.47 (12)	101205 - 101207	101212LF - 101214LF
ecocirc XL 27-320	3	4	6.00 (152)	5.06 (129)	-	0.53 (13)	101217	101218LF
ecocirc XL 110-180	1, 1-1/4, 1-1/2	2	4.62 (117)	3.44 (87)	2.86 (73)	0.47 (12)	101205 - 101207	101212LF - 101214LF
ecocirc XL 45-375	3	4	6.00 (152)	5.06 (129)	-	0.53 (13)	101217	101218LF

* Part numbers represent a Master Carton of 12 flanges with fasteners pack.

1-1/2" is the diameter of the suction and discharge for the 2-bolt models.