SERIES S&H ECM | ECM CIRCULATORS | SUBMITTAL

File No: 10.515
Date: JANUARY 31, 2022
Supersedes: 10.515
Date: JULY 15, 2020

Job: _____ Representative: _____

_____ Ordered by: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

PUMP DESIGN DATA

Pump model: _____ Flange size: _____

No. of pumps: _____ Note: _____

Capacity: _____USgpm (L/s) Head: _____ft (m)

Temperature: _____°F (°C) Liquid: _____

Companion flanges: Included

All Bronze Circulators are NSF – 372 rated

MATERIALS OF CONSTRUCTION

PART NAME	BRONZE FITTED	LEAD FREE BRONZE*
Pump Body	Cast iron	Lead free bronze

Impeller: Non-ferrous

Bearings: ☐ Sleeve - Oil lubricated for the H-63 to 67 and S-69 **
☐ 'Maintenance free' bearings - No lubrication for the H-53, H-54, S-55 and S-57 ***

Seal: Mechanical

Stationary seal face: Sintered silicon carbide

* Contains less than 0.25% lead, weighted average.
** Alloy shaft with copper sleeve.
*** Stainless steel shaft.

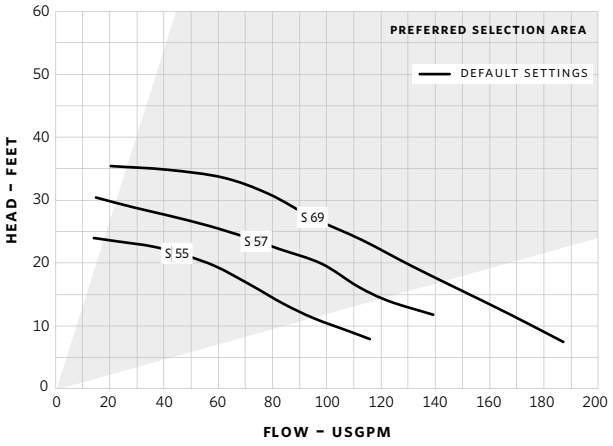
CAUTION

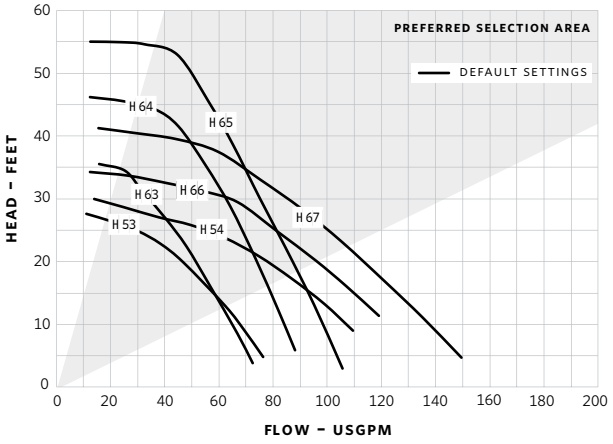
To avoid motor overheating and possible burnout, do not operate pump outside of the preferred operating range. To view these operating ranges, please see the submittals on our website, file numbers for S series 10.50 and H series 10.51.

MAXIMUM PUMP OPERATING CONDITIONS

175 psig at 225°F (1206 kPa at 107°C)

PERFORMANCE CURVE

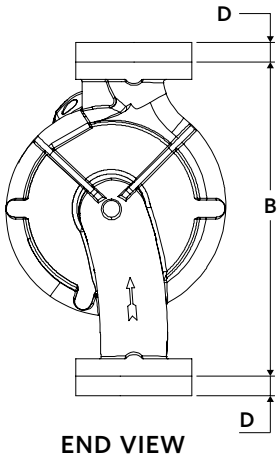




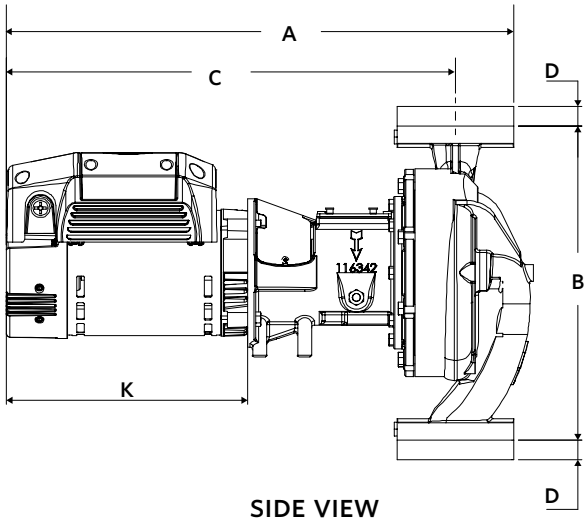
Based on 1800 RPM, 60 Hz motors.
For 50 Hz motors write for special capacity charts.

MODEL	FLANGE SIZE (N.P.T)	MOTOR†		DIMENSIONS inches (mm)				WEIGHT
		HP	PHASE AND VOLT	A	B	C	D	lbs (kg)
H-53-1	1.5	½	1 phase 115 v	20.36 (517)	11.50 (292)	16.79 (426)	0.88 (22)	59 (26.8)
			1 phase 208-230 v	20.36 (517)	11.50 (292)	16.79 (426)	0.88 (22)	59 (26.8)
H-54-1	2	¾	1 phase 115 v	20.42 (519)	11.50 (292)	16.93 (430)	0.88 (22)	66 (30.0)
			1 phase 208-230 v	20.42 (519)	11.50 (292)	16.93 (430)	0.88 (22)	66 (30.0)
H-63-1	1.5	½	1 phase 115 v	23.12 (587)	13.50 (343)	19.93 (506)	0.88 (22)	91 (41.4)
			1 phase 208-230 v	23.12 (587)	13.50 (343)	19.93 (506)	0.88 (22)	91 (41.4)
H-64-1	1.5	¾	1 phase 115 v	23.12 (587)	13.50 (343)	19.93 (506)	0.88 (22)	95 (43.2)
			1 phase 208-230 v	23.12 (587)	13.50 (343)	19.93 (506)	0.88 (22)	95 (43.2)
H-65-1	1.5	1	1 phase 208-230 v	23.12 (587)	13.50 (343)	19.93 (506)	0.88 (22)	100 (45.4)
H-66-1	2	¾	1 phase 115 v	23.53 (598)	14.02 (356)	20.04 (509)	0.88 (22)	115 (52.3)
			1 phase 208-230 v	23.53 (598)	14.02 (356)	20.04 (509)	0.88 (22)	115 (52.3)
H-67-1	2	1	1 phase 208-230 v	23.53 (598)	14.02 (356)	20.04 (509)	0.88 (22)	123 (55.9)
S-55-1	3	½	1 phase 115 v	20.24 (514)	12.00 (305)	16.93 (430)	1.00 (25)	77 (35.0)
			1 phase 208-230 v	20.24 (514)	12.00 (305)	16.93 (430)	1.00 (25)	77 (35.0)
S-57-1	3	¾	1 phase 115 v	20.42 (519)	11.50 (292)	16.93 (430)	1.00 (25)	80 (36.4)
			1 phase 208-230 v	20.42 (519)	11.50 (292)	16.93 (430)	1.00 (25)	80 (36.4)
S-69-1	3	1	1 phase 208-230 v	24.44 (621)	14.25 (362)	19.93 (506)	1.00 (25)	113 (60.5)

Dimensions shown are for reference only. For exact dimensional data, contact factory.
†All single phase motors are equipped with a built-in thermal overload protection.
Three phase motors require external overload protection.
Conduit box not supplied on ½ hp or greater.



END VIEW



SIDE VIEW

To make the installation faster and simpler Armstrong provides a 0-10 Vdc connector cable that connects direct to the S&H ECM motor to 0-10 Vdc wiring. Part # D500400-301

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