

SERIES S | STANDARD CIRCULATORS | SUBMITTAL

File No: 10.50
 Date: JUNE 22, 2023
 Supersedes: 10.50
 Date: JANUARY 25, 2021

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

MAXIMUM PUMP OPERATING CONDITIONS

175 psig at 225°F (1206 kPa at 107°C)

OPTIONAL EQUIPMENT

MATERIALS OF CONSTRUCTION

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

Impeller: Non-ferrous

Bearings: Sleeve - Oil lubricated**
 Maintenance free - Permanently lubricated***

Seal: Mechanical

Stationary seal face: Sintered silicon carbide

Coupler: s25-s46: Flexible, 4 - Spring;
 s55-s69: Flexible spacer type

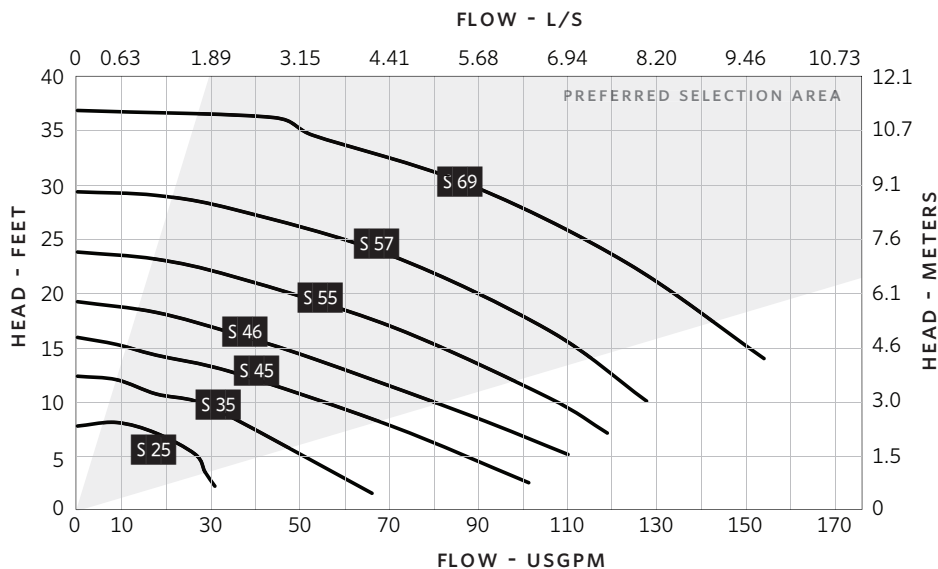
Motor: Single phase - 1800 RPM - Resilient mounted
 Three phase - 1800 RPM - Resilient mounted

* Contains less than 0.25% lead, weighted average.

** Alloy shaft with copper sleeve.

*** Stainless steel shaft.

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 lbs (kg)
		HP	PHASE AND VOLT	A	B	C	D	
S25	¾	½ ₁₂	1 phase 115 v	13.75 (349)	6.50 (165)	11.50 (292)	0.75 (19)	19 (8.6)
	1	½ ₁₂	1 phase 115 v	13.75 (349)	6.50 (165)	11.50 (292)	0.75 (19)	19 (8.6)
	1¼	½ ₁₂	1 phase 115 v	13.75 (349)	6.50 (165)	11.50 (292)	0.88 (22)	19 (8.6)
	1½	½ ₁₂	1 phase 115 v	13.75 (349)	6.50 (165)	11.50 (292)	0.88 (22)	19 (8.6)
S35	2	¾	1 phase 115 v	15.00 (581)	8.50 (216)	12.50 (318)	0.88 (22)	38 (17.2)
S45	2½	¾	1 phase 115 v	15.75 (400)	10.00 (254)	12.50 (318)	1.00 (25)	45 (20.4)
	3	¾	1 phase 115 v	15.75 (400)	10.00 (254)	12.50 (318)	1.00 (25)	45 (20.4)
S46	3	¾	1 phase 115 v	15.75 (400)	10.00 (254)	12.50 (318)	1.00 (25)	51 (23.1)
S55	3	½	1 phase 115/230 v	19.50 (495)	12.00 (305)	16.00 (406)	1.00 (25)	82 (37.2)
	3	½	3 phase 208-230/460 v	19.50 (495)	12.00 (305)	16.00 (406)	1.00 (25)	74 (33.6)
	3	½	3 phase 575 v	19.50 (495)	12.00 (305)	16.00 (406)	1.00 (25)	74 (33.6)
S57	3	¾	1 phase 115/230 v	20.00 (508)	12.00 (305)	16.50 (419)	1.00 (25)	82 (37.2)
	3	¾	3 phase 208-230/460 v	20.00 (508)	12.00 (305)	16.50 (419)	1.00 (25)	76 (34.5)
	3	¾	3 phase 575 v	20.00 (508)	12.00 (305)	16.50 (419)	1.00 (25)	76 (34.5)
S69	3	1	1 phase 115/230 v	25.00 (635)	14.25 (362)	20.25 (514)	1.00 (25)	130 (59.0)
	3	1	3 phase 208-230/460 v	25.00 (635)	14.25 (362)	20.25 (514)	1.00 (25)	125 (56.7)
	3	1	3 phase 575 v	25.00 (635)	14.25 (362)	20.25 (514)	1.00 (25)	125 (56.7)

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.

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