

HOT & COLD WATER CIRCULATORS

Model Numbers: SC20-25, SB25-20,
SB30-25, SS30-25,
SXM32-45

DEPEND ON
DAVEY

WATER PRODUCTS



HOT WATER CIRCULATORS

PRODUCT DESCRIPTION

Circulation of hot or cold water in heating, air-conditioning or cooling systems.

APPLICATIONS

For domestic and commercial installations such as :-

- For houses, motels and small apartment buildings
- Solar heating circuits
- The water runs hot as soon as the tap is opened

FEATURES & BENEFITS

In-line pump casing with threaded ports for easy installation and direct mounting on pipe work.

Barrel unions with threaded ports for easy installation & service.

Rotating parts in contact with pumped liquid, made of corrosion resistant materials, to provide maintenance free and long service life.

Stainless steel impeller neck ring for long life & maintenance free operation.

Three speed with manual selector switch, adaptable to suit installations.

Wet rotor bearings lubricated by pumped liquid providing quiet, vibration free operation.

Rotor chamber protected from impurities by sintered bronze filter.

Manual bleed when started up.

Reliable, maintenance free operation.

High capacity built-in capacitor for high starting torque.

Direct connection via unions to pipe work from 3/4" to 1 1/4" .

Low electrical consumption.

Integrated & automatic motor overload protection.

OPERATING LIMITS

Capacities up to 165 lpm

Heads up to 70 kPa

Maximum working pressure 1000 kpa

Temperature -20° to +120°C

Maximum ambient temperature +40°C

Port ND 20 to 32mm

Speed See Table

Power supply 1 x 230V

Frequency 50Hz

Insulation class F (155°C)

Protection IP44

Conforming to EN 60335-2-51



TECHNICAL SPECIFICATIONS

MATERIALS OF CONSTRUCTION

PART	MATERIAL
Pump casing	Cast iron (SC & SXM) Bronze (SB) Stainless steel (SS)
Impeller	Composite material
Shaft-motor can	Stainless steel
Bearings	Graphite
Seals	Ethyl.-propylene
Rotor-shaft	Ceramic

PUMP IDENTIFICATION - S SERIES*

	S	C	20	-	25
Range	S				
Pump casing	C Cast iron B Bronze S Stainless steel				
Pump nominal flow	20 2.0 m ³ /hr 25 2.5 m ³ /hr 30 3.0 m ³ /hr				
Pump connection	20 20 mm / 3/4" BSP 25 25 mm / 1" BSP				

* For SXM32-45 refer dimensions

INSTALLATIONS

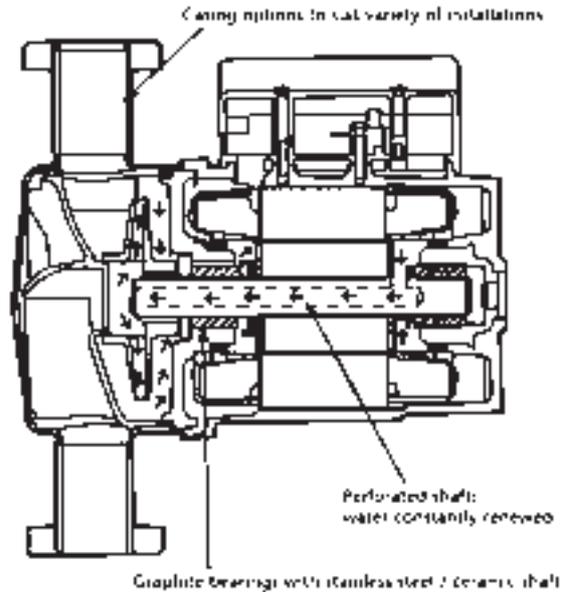
Cast iron models are designed for faster circulation of hot or cold water in a closed loop heating or air-conditioning system.

Bronze or stainless steel models are designed for faster circulation in a hot or cold water open or closed loop system.

Examples include secondary hot water distribution, air-conditioning, heating or cooling systems.

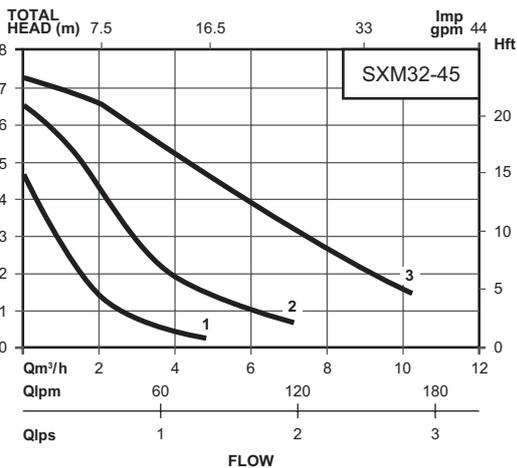
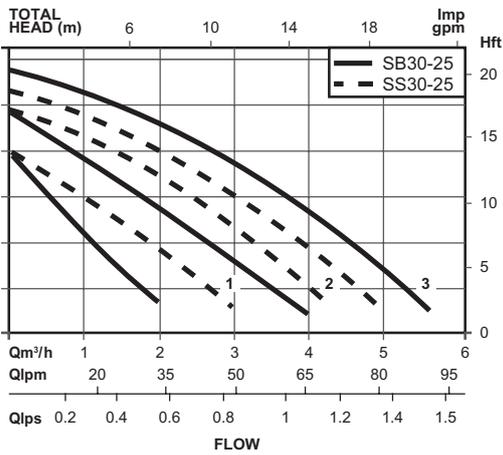
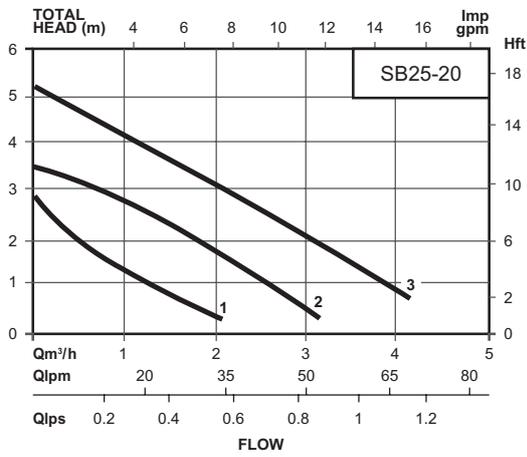
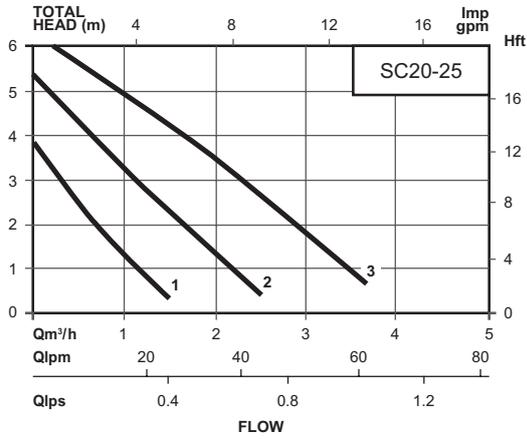
Note: Davey hot water circulators are not suitable for use in swimming pool or spa applications.

DESIGN - INTERIOR OF CIRCULATOR



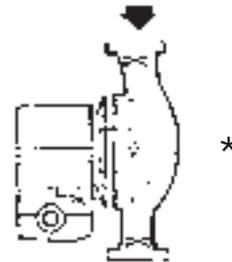
TECHNICAL SPECIFICATIONS

HYDRAULIC PERFORMANCE

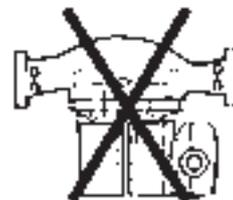


INSTALLATION POSITIONS

Motor axis must always be horizontal



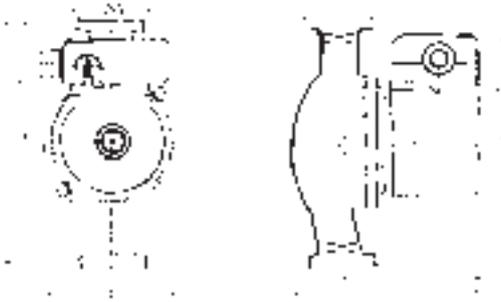
* For chilled water installations. Note position of capacitor cover.



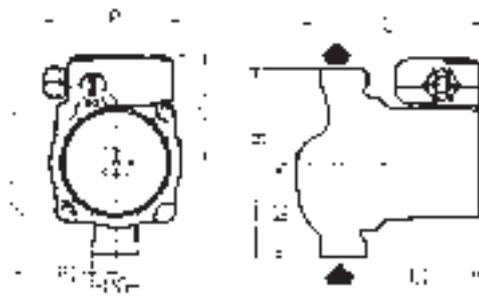
TECHNICAL SPECIFICATIONS

ELECTRICAL DATA & DIMENSIONS

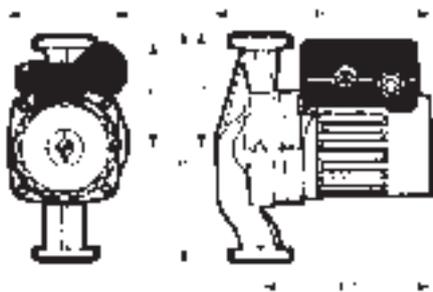
SC WITH CAST IRON CASING



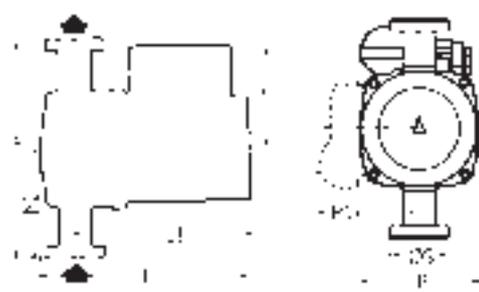
SB WITH BRONZE CASING



SXM WITH CAST IRON CASING



SS WITH STAINLESS STEEL CASING



Model	Speed Selector Setting	Speed (rpm)	Max. P ₁ (W)	Max Current (A)	Capacitance (mF)	H (mm)	L (mm)	P (mm)	P1 (mm)	L1 (mm)	h (mm)	h1 (mm)	mass (kg)	dia G	Union Connection BSPP (F)
SC20-25	3	1850	93	0.40	2.6 x 400 V	130	132	93	77	98	90	90	2.6	2"	* 25mm / 1"
	2	1300	67	0.30											
	1	950	46	0.20											
SB25-20	3	1950	89	0.39	2.6 x 400 V	150	132	123	77	96	77	79	2.4	1 1/4"	* 20mm / 3/4"
	2	1450	66	0.29											
	1	1000	45	0.20											
SB30-25	3	2300	114	0.50	2.6 x 400 V	180	145	96	77	109	77	90	2.8	1 1/2"	* 25mm / 1"
	2	1650	102	0.46											
	1	1150	70	0.32											
SS30-25	3	2750	155	0.68	5.0 x 400 V	180	174	97	84	146	84	90	3	1 1/2"	* 25mm / 1"
	2	2500	120	0.57											
	1	1900	94	0.45											
SXM32-45	3	2164	241	1.16	5.0 x 400 V	180	116	204	158	N/A	90	90	4.2	2"	32mm / 1 1/4" Order separately
	2	1482	196	0.96											
	1	1099	130	0.65											

* Unions & gaskets supplied

This literature is not a complete guide to product usage. Further information is available from your Davey dealer, Davey Customer Service Centre and from the relevant product installation and Operating Instructions. This data sheet must be read in conjunction with the relevant product Installation and Operating Instructions and all applicable statutory requirements. Product specifications may change without notice.

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DEPEND ON
DAVEY

WATER PRODUCTS

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