



HOT & COLD WATER CIRCULATORS

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



### **APPLICATION**

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
- 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 ¾" to 1 ¼"
- Low electrical consumption
- Integrated & automatic motor overload protection



## Water Circulators

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	Ethylpropylene							
Rotor-shaft	Ceramic							

### **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.

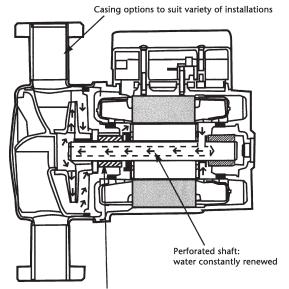
Note: Davey hot water circulators are not suitable for use in swimming pool or spa applications.

OPERATING LIMITS							
Capacities to		165 lpm					
Heads up to		70 kPa					
Maximum working	g pressure	1000 kpa					
Temperature	SC20-25						
	SB25-20	-10°C to +95°C					
	SB30-25						
	SS30-25	-10°C to +110°C					
	SXM32-45	-10 C to +110 C					
Maximum ambien	t 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

# Pump casing C Cast iron B Bronze S Stainless steel Pump nominal flow 20 2.0 m³/hr 25 2.5 m³/hr 30 3.0 m³/hr Pump connection 20 20 mm / ³/₄" BSP 25 25 mm / 1" BSP

### **DESIGN - INTERIOR OF CIRCULATOR**

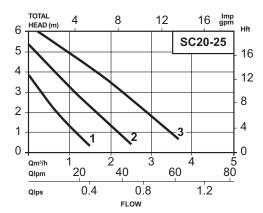


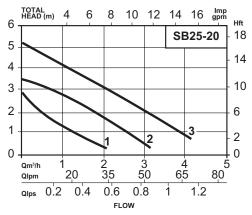
Graphite bearings with stainless steel / ceramic shaft

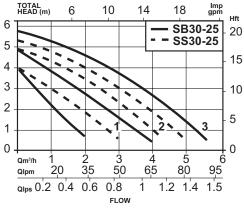


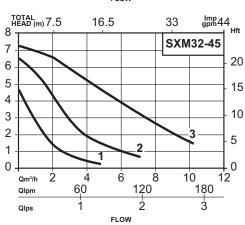
<sup>\*</sup> For SXM32-45 refer dimensions

### HYDRAULIC PERFORMANCE





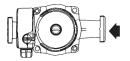




### **INSTALLATION POSITIONS**

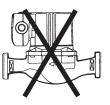
Motor axis must always be horizontal







 $\ensuremath{^{\star}}$  For chilled water installations. Note position of capacitor cover.





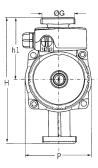


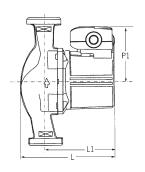
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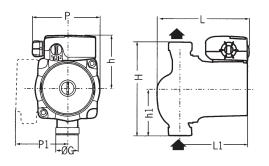
### DIMENSIONS

### SC WITH CAST IRON CASING

### SB WITH BRONZE CASING

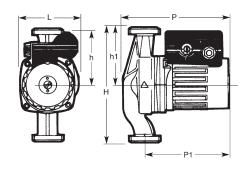


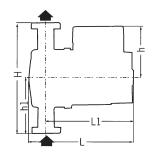


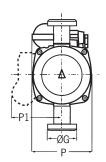


### SXM WITH CAST IRON CASING

### SS WITH STAINLESS STEEL CASING







ELECTRICAL DATA															
Model	Speed Selector Setting	Speed (rpm)	Max. P1 (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	11⁄4″	* 20mm / ¾"
	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	1½"	* 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	1½"	* 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 / 1¼" Order separately
	2	1482	196	0.96											
	1	1099	130	0.65											

<sup>\*</sup> Unions & gaskets supplied