

SPEEDMAN COMPACT CONSTANT PRESSURE WATER PRESSURE SYSTEMS

DEPEND ON
DAVEY

WATER PRODUCTS

PRESSURE SYSTEMS

PRODUCT DESCRIPTION

Constant pressure, variable speed water pressure systems with all stainless steel pump and baseplate, in two models capable of flows up to 130 lpm and heads to 66m. Maximum constant pressure when boosting incoming supply is 750kPa (76m).

APPLICATIONS

Automatic pressure system for:-

- Household, domestic & light industrial water supply
- Farming & agricultural water systems
- Irrigation & turf watering systems
- Automatic general water transfer
- Mains water pressure boosting



FEATURES & BENEFITS

Variable drive system provides lower running costs due to matching motor speed to hydraulic demand, and at the same time providing:

- Lower operating noise
- Smoother water flow from outlets
- Less pressure variation when other outlets are opened
- Under and over voltage protection
- Loss of prime protection
- Auto-retry in the event of fault
- Motor overload protection

Horizontal multistage centrifugal pump with all hydraulic parts in stainless steel

- Corrosion & wear resistant
- Low noise output

Axial suction & vertical discharge

- Compact design
- Easy to install

Stainless steel impellers with high efficiency impeller profile & thick self-centring impeller neck rings:-

- High efficiency
- Reduced power consumption
- Low noise output

Impellers mounted directly on extended motor shaft

- Maximised performance per stage
- High efficiency
- Long motor & pump life
- Increased wear resistance

Pump casing assembly attached to motor bracket at 8 points with oring seal

- Complete stainless casing
- Better sealing
- Longer service life

Davey built, totally enclosed fan cooled (TEFC) three phase electric motor

- Sealed and greased for life motor bearings
- Over sized drive bearing
- Longer life
- Easy service
- Economical & quiet running

System designed for 220-240V 50Hz single phase supply and includes 1.7m long power lead and Australian 3 pin plug

- Quick & easy to install

Variable speed drive control mounted separate to pump and with waterflow cooling for easier service and better motor cooling.

Pump able to be re-mounted on base with suction facing left for versatility.

Variable speed drive control has simple menu and easy to read display for simpler installation and use.

Discharge checkvalve built into variable speed drive controller for easier installation and protection from system backpressure.

OPERATING LIMITS

Capacities up to: 130lpm (7.8m³/hr)

Pressure heads up to 66m

Maximum constant operating pressure 750kPa (subject to incoming pressure to be boosted)

Maximum ambient temperature 40°C

Maximum water temperature 40°C

Frequency 50Hz*

*For 60Hz operation contact Davey Water Products Pty Ltd.

Suitable fluids

Clean potable water of neutral ph containing no solids or abrasives.



Quality
ISO 9001



Environment
ISO 14001

TECHNICAL SPECIFICATIONS

ELECTRICAL DATA

Speed – maximum @ 50Hz	2900rpm
Supply voltage	Single phase 230V ±10%
Pump motor voltage	220-240V ±10% △ connection only
Supply frequency	50Hz
Insulation class	Class F
Enclosure class Pump motor	IP55
Control panel	IP65

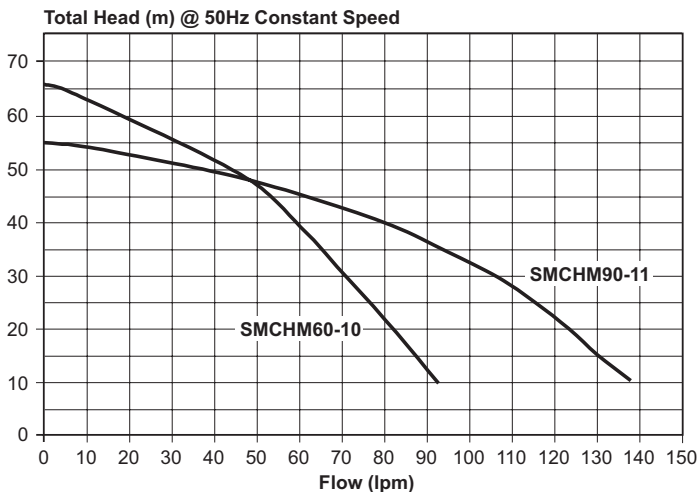
Model	SMCHM60-10	SMCHM90-11
Max. input power (P1) @ 50Hz full speed	1.2kW	1.4kW
Max. Amps @ 50Hz full speed	8.0	9.1

SMCHM60-10				
Flow (lpm)	200kPa*		400kPa*	
	I (A)	P1 (kW)	I (A)	P1 (kW)
20	2.73	0.37	4.5	0.65
50	4.64	0.66	7.0	1.04
55	5.05	0.73	7.5	1.10
60	5.50	0.80	8.0	1.20
70	6.67	0.98		
80	7.80	1.20		

SMCHM90-11				
Flow (lpm)	200kPa*		400kPa*	
	I (A)	P1 (kW)	I (A)	P1 (kW)
20	2.80	0.38	4.7	0.66
50	3.86	0.54	6.5	0.96
70	4.90	0.71	7.8	1.20
90	6.30	0.93		
100	8.00	1.22		

*Amperage within constant pressure range based on zero incoming pressure

HYDRAULIC PERFORMANCE



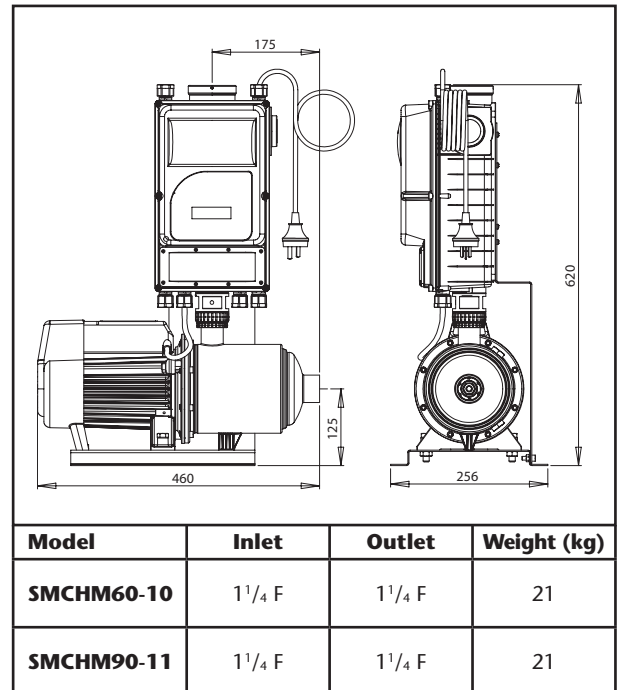
Note: 60Hz performance may vary slightly from above data.

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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MATERIALS OF CONSTRUCTION

PART	MATERIAL
Casing	304 stainless steel
Impellers	304 stainless steel
Stages (diffusers)	304 stainless steel
Pump shaft	316L stainless steel
Stage centring device	304 stainless steel
Mechanical seal	Carbon / ceramic
Orings	EPDM
Plugs	316L stainless steel
Motor shell & lantern bracket	Aluminium with baked polyester powder coat finish
Motor feet	Xenoy®
Fan cowl / rear foot	Polypropylene
System base and controller mounting bracket & fasteners	304 stainless steel

DIMENSIONS



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DAVEY

WATER PRODUCTS

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