

Depend on Davey

## 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

## WHY CHOOSE THE Speedman Compact Water Pressure System?

The Speedman Compact variable speed drive controller matches the motor speed to the hydraulic demand which significantly reduces running cost 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

- Maximized 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) HM electric motor

- Fully sealed and lubricated bearings to reduce maintenance
- Oversized drive bearing
- Longer life
- Easy service
- Economical & quiet running



## Speedman Compact Constant Pressure Water Pressure System

Constant pressure, variable speed water pressure systems with all stainless steel pump and baseplate, in two models capable of flows up to 34gpm and heads to 94psi. Maximum constant pressure when boosting incoming supply is 110psi.

System designed for 220-240V 50/60 Hz single phase supply and includes 5'6" long power cord.

- Quick & easy to install

The Speedman Compact variable speed drive control unit is mounted on the pump discharge outlet and is water cooled to ensure efficient dissipation of heat from the electronic components.

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.

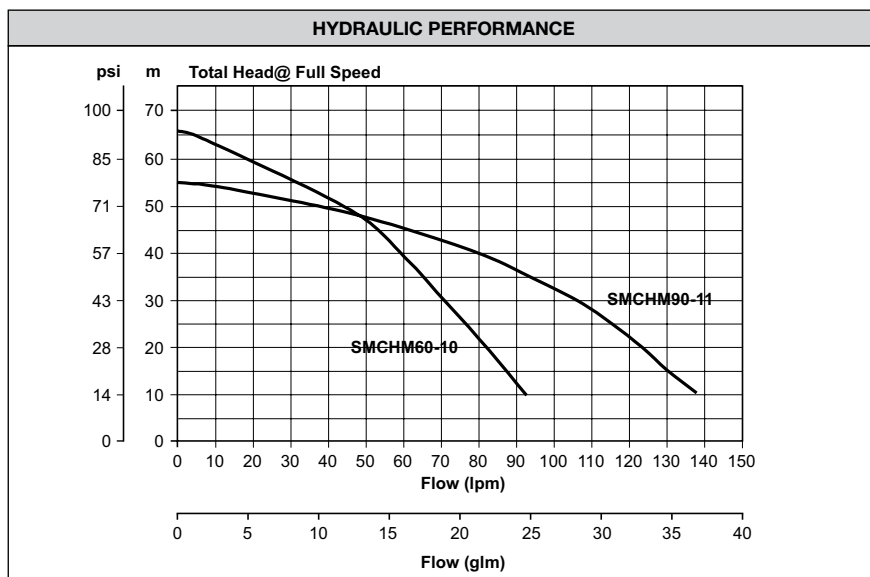
Discharge checkvalve built into variable speed drive controller for easier installation and protection from system backpressure.

ELECTRICAL DATA		
Full Speed	2900rpm	
Supply voltage	Single phase 220/230V ±10%	
Pump motor voltage	220-240V ±10% Δ connection only	
Supply frequency	50/60Hz	
Insulation class	Class F	
Enclosure class		
Pump motor	IP55	
Control panel	IP65	
Model	SMCHM60-10	SMCHM90-11
Max. input power (P1) @ full speed	1.2kW/1.6hp	1.4kW/1.8hp
Max. Amps @ 50Hz full speed	8.0	9.1

Flow (gpm)	29psi*		58psi*	
	I (A)	P1 (kW)	I (A)	P1 (kW)
5.3	2.73	0.37	4.5	0.65
13.2	4.64	0.66	7.0	1.04
14.5	5.05	0.73	7.5	1.10
15.9	5.50	0.80	8.0	1.20
18.5	6.67	0.98		
21.1	7.80	1.20		

Flow (gpm)	29psi*		58psi*	
	I (A)	P1 (kW)	I (A)	P1 (kW)
5.3	2.80	0.38	4.7	0.66
13.2	3.86	0.54	6.5	0.96
18.5	4.90	0.71	7.8	1.20
23.8	6.30	0.93		
26.4	8.00	1.22		

\*Amperage within constant pressure range based on zero incoming pressure



OPERATING LIMITS	
Capacities up to	34g/m
Pressure heads up to	94psi
Maximum constant operating pressure (subject to incoming pressure to be boosted)	110psi
Maximum ambient temperature	104°F
Maximum water temperature	104°F
Frequency	50/60Hz
<b>Suitable fluids</b> Clean potable water of neutral ph containing no solids or abrasives.	

DIMENSIONS			
Model	Inlet	Outlet	Weight (lb)
SMCHM60-10	1¼" F	1¼" F	46.3
SMCHM90-11	1¼" F	1¼" F	46.3

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