



Depend on Davey

DAVEY

APPLICATIONS

Automatic pressure system for:-

- Household and domestic water supply
- Farming and agricultural water systems
- Irrigation and turf watering systems
- Automatic general water transfer



HM Series Water Pressure Systems

Pressure Switch & Torrium®2

Compact, all stainless steel horizontal multistage centrifugal pump pressure system control options to suit application. Flows to 430lpm and heads to 65m.

WHY CHOOSE THE

Davey HM Pressure System?

Horizontal multistage centrifugal pump with all hydraulic parts in stainless steel

- Suitable for high water temperatures
- Corrosion & wear resistant

Axial suction & vertical discharge

- Compact design
- Easy to install

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

- High efficiency
- Reduced power consumption
- Low noise output

Impellers mounted directly on extended motor shaft

- Maximise 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) electric motor:

- Single-phase motors have built in thermal overload protection with automatic reset and 1.8m long power lead and Australian 3 pin plug
- Sealed and greased for life motor bearings
- Over sized drive bearing
- Longer life
- Easy service
- Economical & quiet running



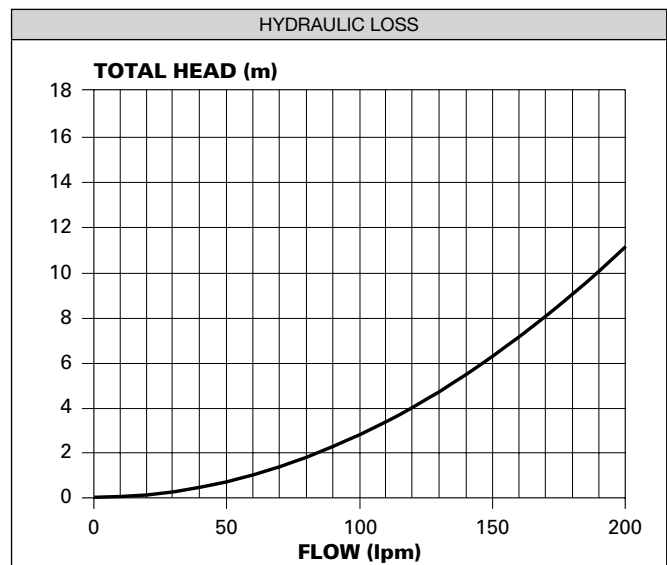
Torrium®2 controlled HM Series provides a constant flow water supply system with an all stainless steel pump unit. The Torrium®2 is adaptive, eliminating cycling, provides loss of prime protection and over temperature cut out. Pressure tanks can be added if site conditions require additional draw off.

OPERATING LIMITS	
Maximum continuous flow rate	200 lpm
Maximum operating pressure	700 kPa*
Maximum current	10 amp
Cut-in pressure range	80% of pump shut-off head
Maximum water temperature	65°C

*Dependent on optional tank pressure rating, operating pressure to 820kPa may be achieved.

HYDRAULIC PERFORMANCE							
Models Single Phase	Motor (P2)	Ports (BSP)		Nominal Operating Pressure kPa	Maximum Pump Pressure kPa	Tank Air Pre-charge kPa	Nominal Flow lpm
		Suction	Discharge				
HM60-06T	0.58	11/4" F	1" M	280	460	320	60
HM60-08T	0.72	11/4" F	1" M	360	575	400	60
HM60-10T	0.94	11/4" F	1" M	430	690	480	60
HM90-08T	0.78	11/4" F	1" M	310	460	320	90
HM90-11T	1.05	11/4" F	1" M	420	585	410	90
HM90-13T	1.4	11/4" F	1" M	480	680	475	90
HM160-15T	1.5	11/2" F	1" M	340	460	320	160
HM160-19T	1.8	11/2" F	1" M	400	600	420	160

DIMENSIONS (mm)										
Type	A	B	C	D	E	F	G	H	I	Net Weight kg
HM60-06T	411	100	127	410	171	316	98	115	215	12.7
HM60-08T	459	100	175	410	171	316	98	115	215	13.6
HM60-10T	459	100	175	410	171	316	98	115	215	18.4
HM90-08T	411	100	127	410	171	316	98	115	215	13.1
HM90-11T	459	100	175	410	171	316	98	115	215	17.8
HM90-13T	502	124	175	435	206	340	98	115	215	23.6
HM160-15T	509	124	178	435	206	340	98	115	215	23.2
HM160-19T	509	124	178	435	206	340	98	115	215	23.5





All stainless steel HM Series pump unit with adjustable pressure switch and pressure gauge. Provision for Davey Supercell large draw-off capacity tank.

OPERATING LIMITS

Maximum continuous flow rate	430 lpm
Maximum operating pressure	1000 kPa*
Maximum inlet pressure	600 kPa
Maximum water temperature	95°C

*Dependent on optional tank pressure rating, operating pressure to 820kPa may be achieved.

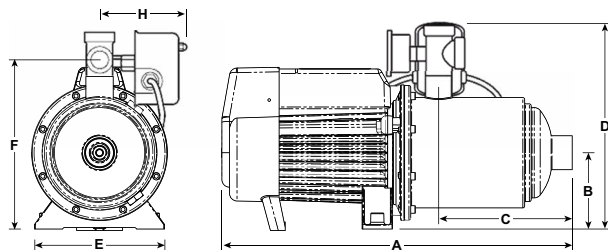
HYDRAULIC PERFORMANCE

Models Single Phase	Motor (P2)	Ports (BSP)		Nominal Operating Pressure kPa	Maximum Pump Pressure kPa	Tank Air Pre-charge kPa	Nominal Flow lpm
		Suction	Discharge				
HM60-06P	0.58	1¼" F	1" F	250	400	230	60
HM60-08P	0.72	1¼" F	1" F	300	500	280	60
HM60-10P	0.94	1¼" F	1" F	350	620	330	60
HM90-08P	0.78	1¼" F	1" F	250	400	230	90
HM90-11P	1.05	1¼" F	1" F	300	500	280	90
HM90-13P	1.4	1¼" F	1" F	350	620	330	90
HM160-15P	1.5	1½" F	1" F	250	400	230	160
HM160-19P	1.8	1½" F	1" F	300	500	280	160
HM270-19P	1.9	2" F	1½" F	200	300	180	270
HM270-25P	2.5	2" F	1½" F	250	400	230	270

For detailed performance graphs, please refer to the HM Series technical datasheet, available at www.davey.com.au.

*Three phase units on request.

HYDRAULIC LOSS



Type	A	B	C	D	E	F	H	Net Weight kg
HM60-06P	411	100	127	256	171	216	160	13.4
HM60-08P	459	100	175	256	171	216	160	14.3
HM60-10P	459	100	175	256	171	216	160	19.1
HM90-08P	411	100	127	256	171	216	160	13.8
HM90-11P	459	100	175	256	171	216	160	18.5
HM90-13P	502	100	175	280	206	240	160	24.3
HM160-15P	509	124	178	280	206	240	160	23.9
HM160-19P	509	124	178	280	206	240	160	24.2
HM270-19P	512	124	178	280	206	240	160	26.1
HM270-25P	512	124	178	280	206	240	160	33.4

INSTALLATION

Pressure switch settings assume zero suction. If the pump is to be operated on suction lift or positive inlet pressure application, pressure settings must be adjusted to suit.

PACKAGED SETS

Complete packaged systems are available on request. Pressure tank and pump mounted on common base plate.

Optional control panels also available for single and three phase models.

ELECTRICAL DATA

Pump	
Speed	2900rpm
Supply Voltage Single phase Three phase (selected models)	230V $\pm 10\%$ 415V $\pm 10\%$
Supply frequency	50Hz
Enclosure class HM60-06, HM60-08, HM60-10, HM90-08 & HM90-11 All other models	IP55 IP56
Insulation class	Class F
Torrium®2	
Voltage	220V-240V $\pm 10\%$
Phase	Single
Hz	50 / 60
IP rating	56
Maximum load current	10A
Maximum motor size @ 240V input	1.8kW
Surge protection	Varistor

MATERIALS OF CONSTRUCTION

PART	MATERIAL
Casing	304 stainless steel
Impellers	304 stainless steel
Stages (casing)	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 (models up to 1.05kW)	Polypropylene

HYDRAULIC PERFORMANCE

