

V SERIES PACKAGED WATER PRESSURE SYSTEMS

DEPEND ON
DAVEY



PACKAGED PRESSURE SYSTEMS

PRODUCT DESCRIPTION

Packaged water pressure system consisting of a Davey stainless steel vertical multistage pump with pressure tank, adjustable pressure switch, liquid filled pressure gauge, all mounted on a common base plate.

APPLICATIONS

Automatic water pressure system for:

- Household & commercial applications
- Multi-dwelling water supply system
- Turf watering & irrigation
- Water supply, boosting & transfer
- Water treatment

FEATURES & BENEFITS

Davey vertical multistage centrifugal pump with superior hydraulic design. Powered by Davey's renowned Australian manufactured IP56 TEFC motor* suitable for some of the most harsh conditions.

All hydraulic parts manufactured in stainless steel, providing corrosion protection.

Compact in-line suction & discharge for ease of installation.

Utilising the Davey Supercell range of captive diaphragm pressure tanks which features a long lasting, bacteria resistant, crease free Butyl rubber diaphragm.

Completely assembled on a galvanised common Davey base plate for easy mounting.

Discharge manifold assembly in copper and brass, complete with isolation gate valve with an easy to read quality liquid filled pressure gauge.

Pressure adjustment is made simple with a fully adjustable pressure switch, providing a smooth on/off operation.

OPERATING LIMITS

Capacities to	250lpm 15m ³ /hr
Pressure heads to	98m
Maximum liquid temperature	+70°C (tank)
Maximum ambient temperature	+40°C
Maximum inlet pressure	Limited by max. operating pressure
Maximum operating pressure with HP Tank	120m/1200kPa•
Maximum operating pressure with standard Tank	70m/700kPa
•Higher pressures available, contact Davey.	

Suitable Fluids

Clean, clear, non-corrosive, non-flammable liquids with no fibres and little sand/silica or abrasives (maximum concentration 40g/m³).



* For single phase 1.1kW - 2.4kW

TECHNICAL SPECIFICATIONS

HYDRAULIC PERFORMANCE

Pump Model	Standard Motor kW	System Flow Rate (litres per minute)*										Pressure Settings	
		0	20	40	60	80	100	125	150	200	250	Cut In kPa	Cut Out kPa
		System Pressure (metres)											
V305	0.75#	58	51	44	34	19						300	500
V307	1.1	80	74	62	48	28						450	700
V308	1.5	94	88	76	58	33						500	800
V310	1.5	105	105	88	68	41						600	1000
V605	1.1	58	55	52	48	41	34	23				300	500
V606	1.5	69	66	63	58	50	42	29				400	600
V607	1.5	80	76	73	67	59	49	34				450	700
V608	2.2	92	88	84	76	68	57	39				500	800
V610	2.2	112	110	105	97	88	72	48				600	1000
V804	1.5	49	48	48	48	45	42	39	36	26	12	250	430
V805	2.2	61	60	60	59	57	53	49	45	32	17	300	530
V806	2.2	71	69	68	67	66	63	58	53	39	21	400	620
V807	3.0	85	83	82	80	78	73	68	61	48	24	500	750
V808	3.0	98	95	92	90	88	83	78	70	55	28	600	850

* Flow rates & pressures may vary due to site conditions. For higher flows & pressures contact Davey.

Single phase fitted with a Davey 1.2kW.

MATERIALS OF CONSTRUCTION

PART	MATERIAL
Pump	Stainless steel hydraulic parts
Motor	TEFC IP55 2 pole
Mechanical seal	Silicon carbide/carbon
Pump bearings	Tungsten carbide
Tank shell	Epoxy coated steel
Diaphragm	Butyl rubber
Manifold	304SS Copper/brass (V3 models)
Tank connection	Stainless steel braided hose
Pressure switch	XMP12
Pressure gauge	Stainless steel liquid filled

MAXIMUM TOTAL SUCTION LIFT*

V3 models	Up to 3.0 metres
V6 models	Up to 4.0 metres
V8 models	Up to 4.0 metres

* Total suction lift includes all losses in suction pipework. For larger suction lifts contact Davey.

POWER LIMITS

Single phase power	1x240V ±10% 50Hz
Three phase power	3 x 415V ±10% 50Hz
Other voltages and power supplies on request.	

ELECTRICAL DATA

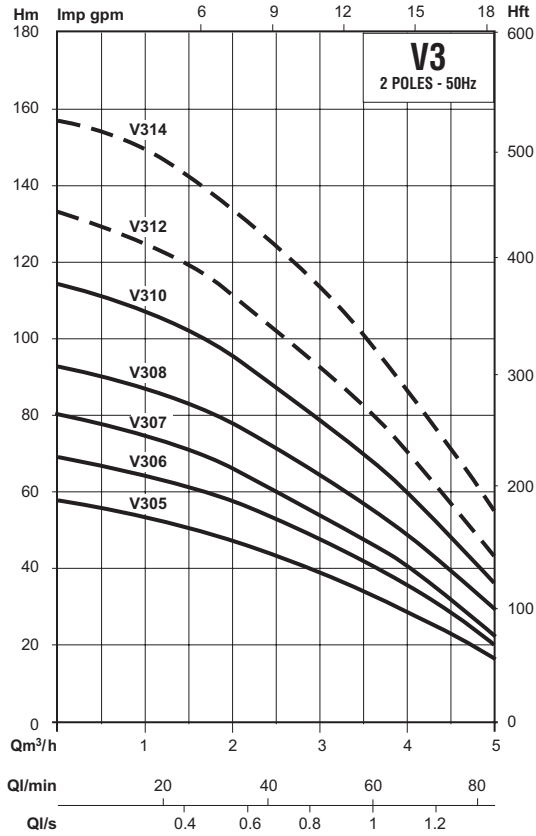
Motor kW	Frame	Manufacturer	IP Rating	FLC 240v	Start/LRC Ratio	RPM	Eff %
1.2	80 V18	Davey	IP56	7	3.6	2790	70.6
1.8	90 V18	Davey	IP56	10.3	3.9	2778	75
2.4	90 V18	Davey	IP56	13.5*	3.8	2780	78
3	100 V18	WEG	IP55	18*	5	2870	81.4

Motor kW	Frame	Manufacturer	IP Rating	FLC 415v	Start/LRC Ratio	RPM	Eff %
0.75	80 V18	CMG SLA	IP55	1.7	5.9	2815	76.2
1.1	80 V18	CMG SLA	IP55	2.3	6	2830	79.3
1.5	90 V18	CMG SLA	IP55	3.1	6.5	2850	80.4
2.2	90 V18	CMG SLA	IP55	4.3	6.4	2830	81.6
3	100 V18	CMG SLA	IP55	5.7	7.5	2870	83.4

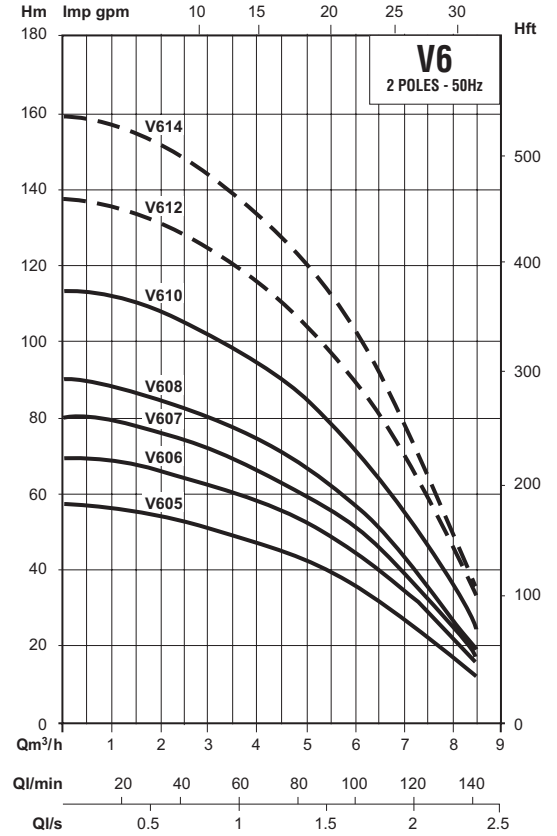
TECHNICAL SPECIFICATIONS

HYDRAULIC PERFORMANCE

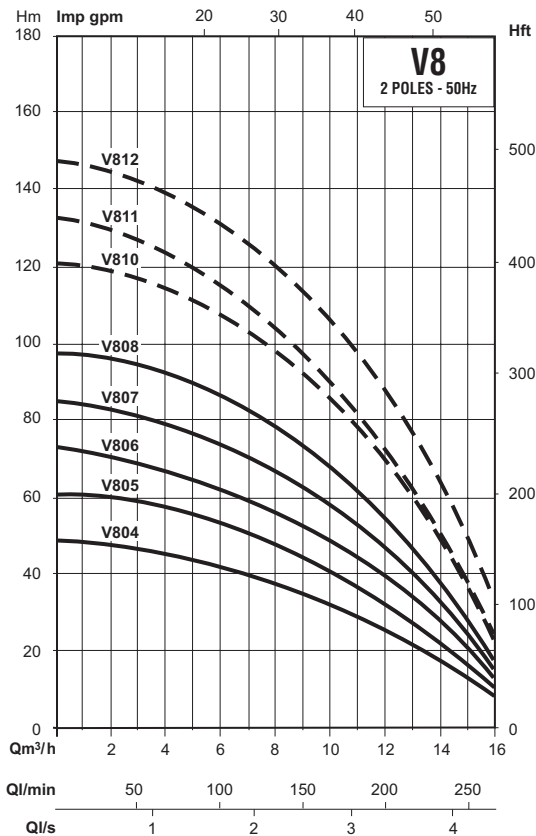
V3, 2 POLE 50Hz



V6, 2 POLE 50Hz

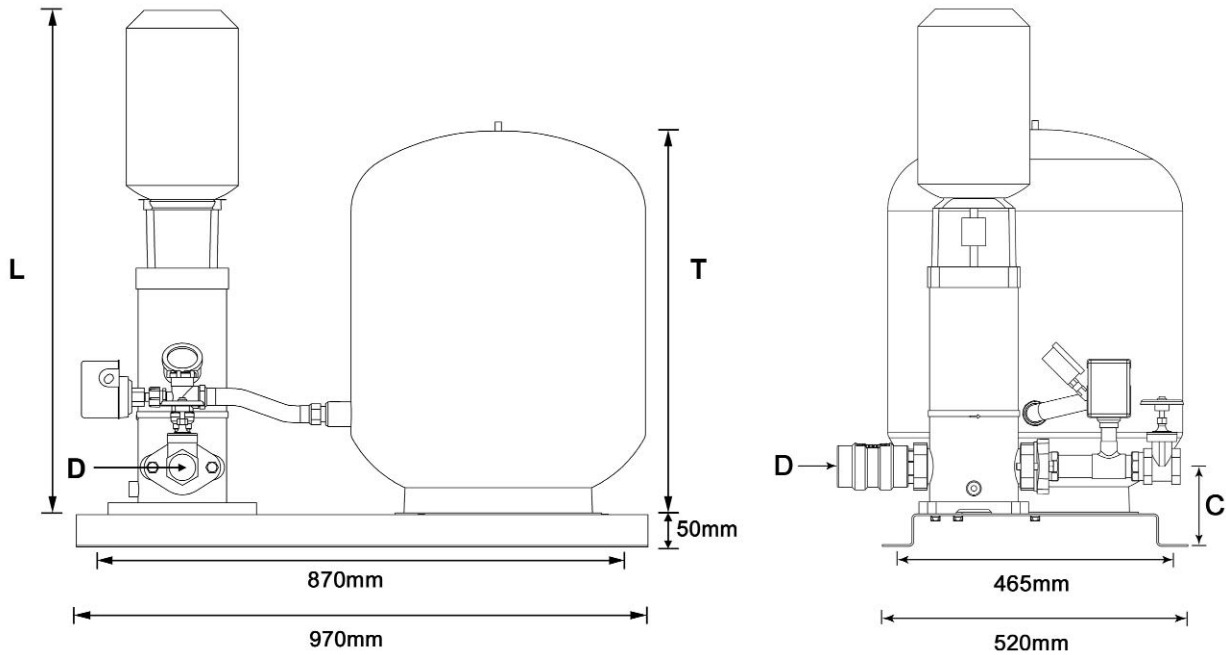


V8, 2 POLE 50Hz



Note: All dashed models are special builds. For price, availability and multiple pump systems, contact Davey.

DIMENSIONS



Pump Model	Standard Motor kW	Pressure Tank	Total Height		Tank Height mm T	Pump Connections	
			1ph mm L	3ph mm L		BSP D	mm C
V305	0.75	50C/105C	680	654	570/680	1"	105
V307	1.1	105C HP	728	702	680	1"	105
V308	1.5	105C HP	782	750	680	1"	105
V310	1.5	105C HP	830	798	680	1"	105
V605	1.1	50C/105C	680	654	570/680	1 1/4"	105
V606	1.5	50C/105C	735	702	570/680	1 1/4"	105
V607	1.5	105C HP	758	726	680	1 1/4"	105
V608	2.2	105C HP	812	775	680	1 1/4"	105
V610	2.2	105C HP	860	823	680	1 1/4"	105
V804	1.5	105C	750	720	680	1 1/2"	135
V805	2.2	105C	809	772	680	1 1/2"	135
V806	2.2	105C HP	839	802	680	1 1/2"	135
V807	3.0	105C HP	914	878	680	1 1/2"	135
V808	3.0	105C HP	944	908	680	1 1/2"	135

Base Plate (H x W x L) = 50 x 520 x 970mm. Dimensions subject to change without notice.

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. © Davey is a registered trademark of Davey Products Pty Ltd. © Davey Products Pty Ltd 2000.



Visit Davey Pumps on-line for further information
www.davey.com.au

**DEPEND ON
DAVEY**

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