



APPLICATIONS

Constant pressure system for:

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



DynaDrive Constant Pressure System

Model Numbers:
DD60-10, DD90-11

Compact, all stainless steel horizontal multistage centrifugal pump pressure system control options to suit application. Flows up to 140L/min and heads up to 64m.

WHY CHOOSE THE DAVEY DynaDrive CONSTANT PRESSURE SYSTEM?

Horizontal multistage centrifugal pump with all hydraulic parts in stainless steel:

- Suitable for high water temperatures
- Corrosion & wear resistant
- 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

Air purging valve and stage porting:

- Easier priming
- Less susceptible to air leaks
- Improved dependability

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 o-ring seal:

- Complete stainless casing
- Better sealing
- Longer service life

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

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

CONTROLLER

- Warning indication for system faults
- Adjustable pressure settings
- Constant pressure at high flow rates
- Loss of prime protection
- Capable of daisy chain applications of two pumps in parallel
- Easy service
- Economical & quiet running

OPERATING LIMITS

Models	DD60-10	DD90-11
Max. flow rate @ 300kPa (L/min)	60	92
Max. flow rate @ 400kPa (L/min)	48	72
Max. flow rate @ 500kPa (L/min)	32	35
Max. casing pressure (kPa)	1,000	
Max. set pressure (kPa)	600	
Min. cut-in pressure (kPa)	10 (gauge pressure)	
Default cut-in pressure	50kPa less than set pressure	
Max. cut-in pressure	20kPa less than set pressure	
Operating water temp range (°C)	0 – 80	
Operating ambient/air temp range (°C)	0 – 50	
Nature of fluids	Clean, clear, non-corrosive, non-flammable liquids with no fibers and little sand/silica or abrasives (maximum concentration 40g/m ³)	
Applicable approvals	UNE-EN 55014-1:2017; UNE-EN 61000-3-2:2014; UNE-EN 61000-3-3:2013; UNE-EN 55014-2:2015; IEC 60335-2-41:2012; IEC 60335-1:2010 + A1:2013 + A2:2016; AS/NZS 60335.2.41:2013; ASNZS 60335.1:2011 + A1:2012 + A2:2014 + A3:2015 + A4:2017; AS4020 (pending approvals)	

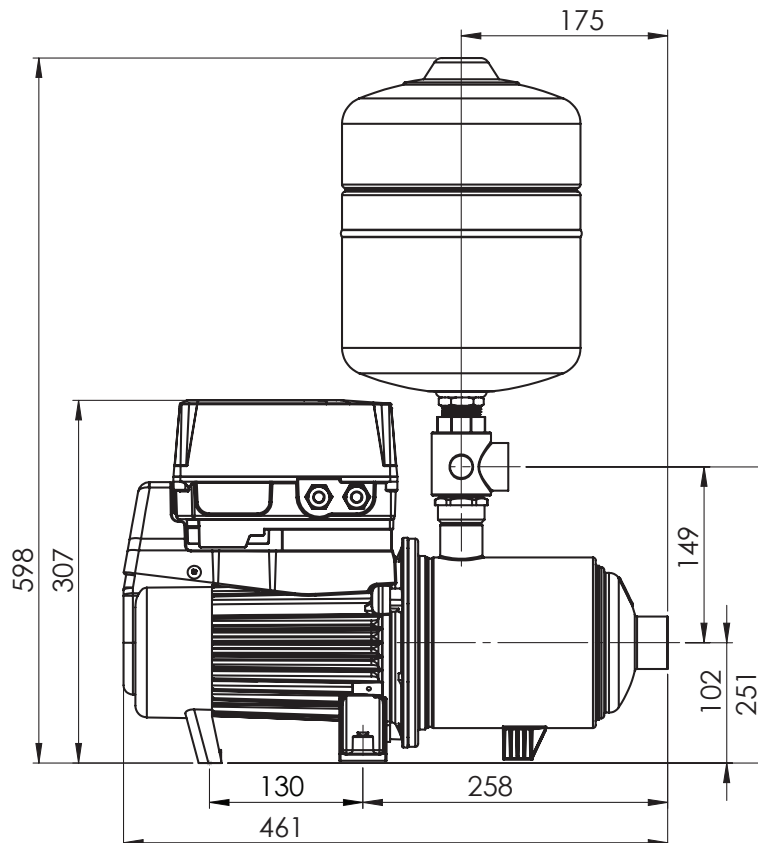
MATERIALS OF CONSTRUCTION

PART	MATERIAL
Casing	304 stainless steel
Impellers	304 stainless steel
Stages (casing)	304 stainless steel
Pump shaft	316 stainless steel
Stage centring device	304 stainless steel
Mechanical seal	Carbon/ceramic
O-rings	EPDM
Plugs	316 stainless steel
Motor shell and lantern bracket	Aluminium with baked polyester powder coat finish
Motor feet	Xenoy
Fan cowl/rear foot (DD60-08, DD60-10, DD90-11)	Polypropylene
Adaptor VSD	Polypropylene
5-way tee piece	304 stainless steel
Pump coupling to 5-way tee piece	Brass

ELECTRICAL DATA

Models	DD60-10	DD90-11
Voltage (V)	220 – 240	
Max motor speed (rpm)	2,900	
Frequency (incoming power) (Hz)	50 – 60Hz	
Input power P ₁ (kW)	1.1	1.3
Output power P ₂ (kW)	0.8	0.9
Running current (A)	7.4	8.6
Insulation class	F	
IP rating	55	

DIMENSIONS (mm)



HYDRAULIC PERFORMANCE

Models	DD60-10	DD90-11
Inlet (" BSP F)	1¼	
Discharge outlet (" BSP M)	1	
Pressure tank outlet (top) (" BSP F)	1	
Default nominal operating press (kPa)	400	
Number of stages (impellers)	6	5
Maximum pump pressure (m)	64	56
Tank pre-charge pressure (default) (kPa)	280	

