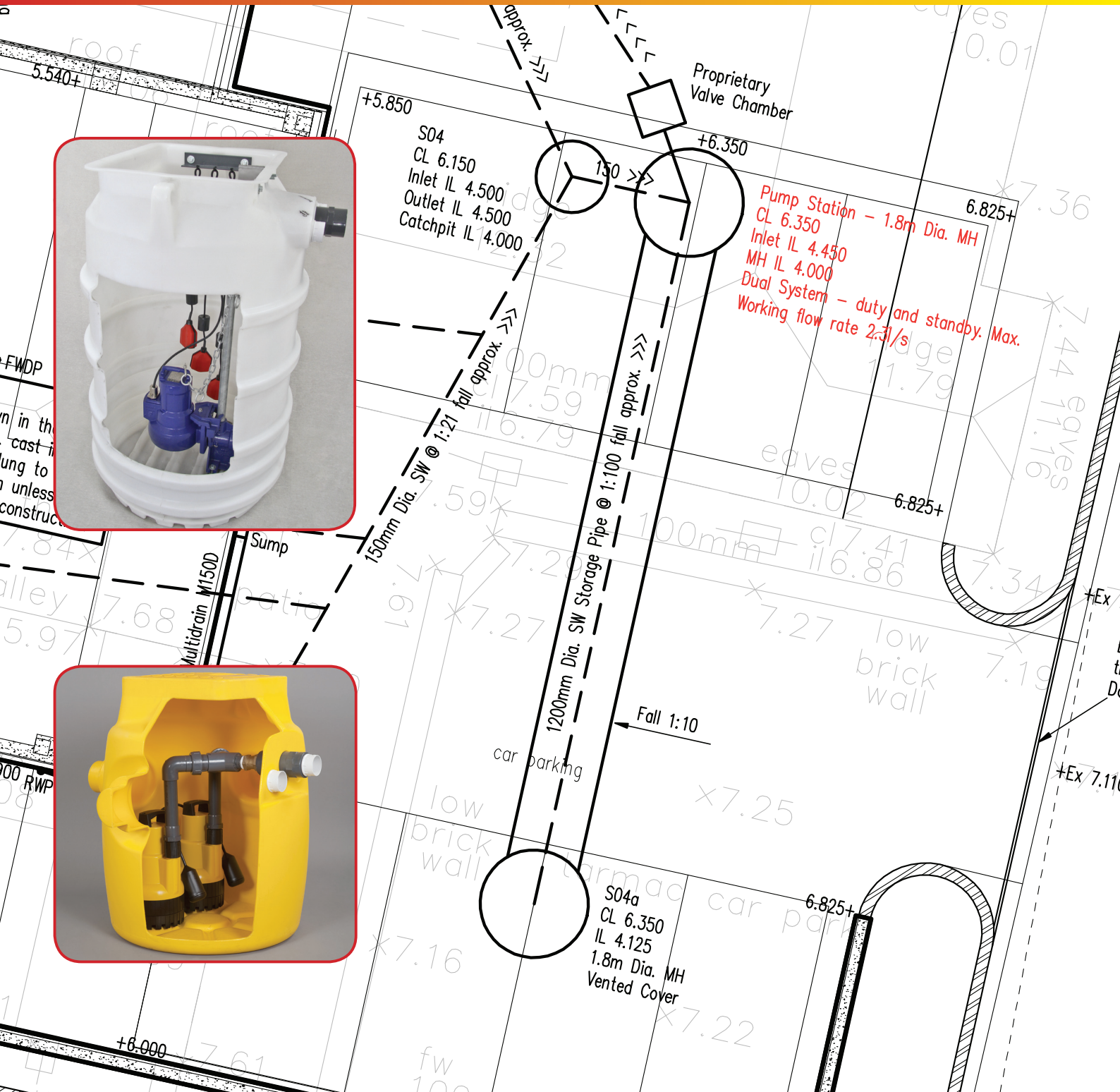


DELTA MEMBRANE SYSTEMS LTD

packaged **pump** solutions

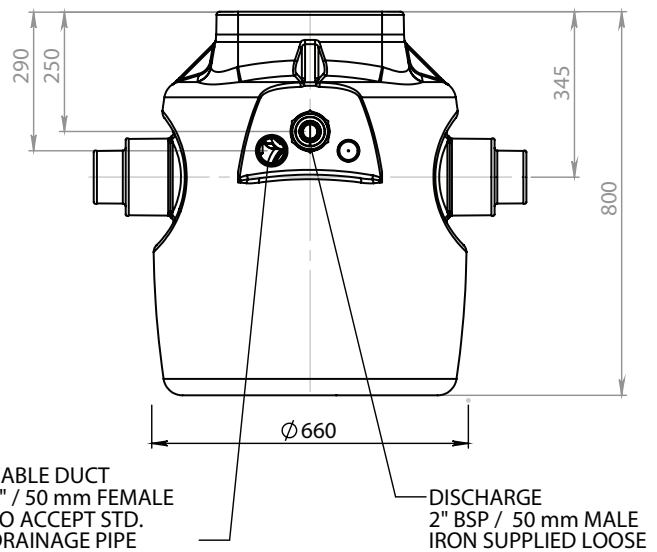
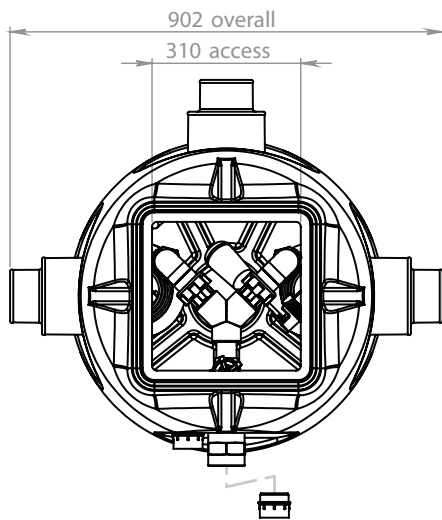


Bespoke Pump Chambers

DUAL V4 & V6

Overview

The Dual V4 & V6 are upgrades to the standard Dual V3 where higher discharge heads are required. Typically for double and triple depth basements or where long discharge runs are required resulting in higher than normal pipe work losses. The Dual V4 and V6 are suitable for picking up ground water from a cavity membrane systems and light wells, totalling up to 12m².



Pump Model	V4P	V6P
Voltage	230	230
KW Rating P1/P2	0.75 / 0.356	1.050 / 0.50
Full Load Current	1.0A	1.9A
Fuse Spur Rating	13A	13A
Typical Duty	2.0 l/s @ 7m	2.0 l/s @9m
Total Storage Volume	273 Litres	273 Litres
Storage Below Invert	137 Litres	137 Litres
UPS	Power Plus	Power Plus



Accessories

Battery Back up
- Power Plus



High Level Alarm



Telemetry System



Pipe Work



800 x 1300 Ground, Foul & Surface Water chambers

Overview

The 800mm x 1300mm deep range of chambers are typically used where inverts are required to be deeper than the standard Delta Dual V3, V4 & V6 & foul V3 (345mm from cover level). For example in buildings where drainage runs are long or drainage is running below floor slabs 250mm or thicker. Inverts can be up to 775mm from top of structural slab.

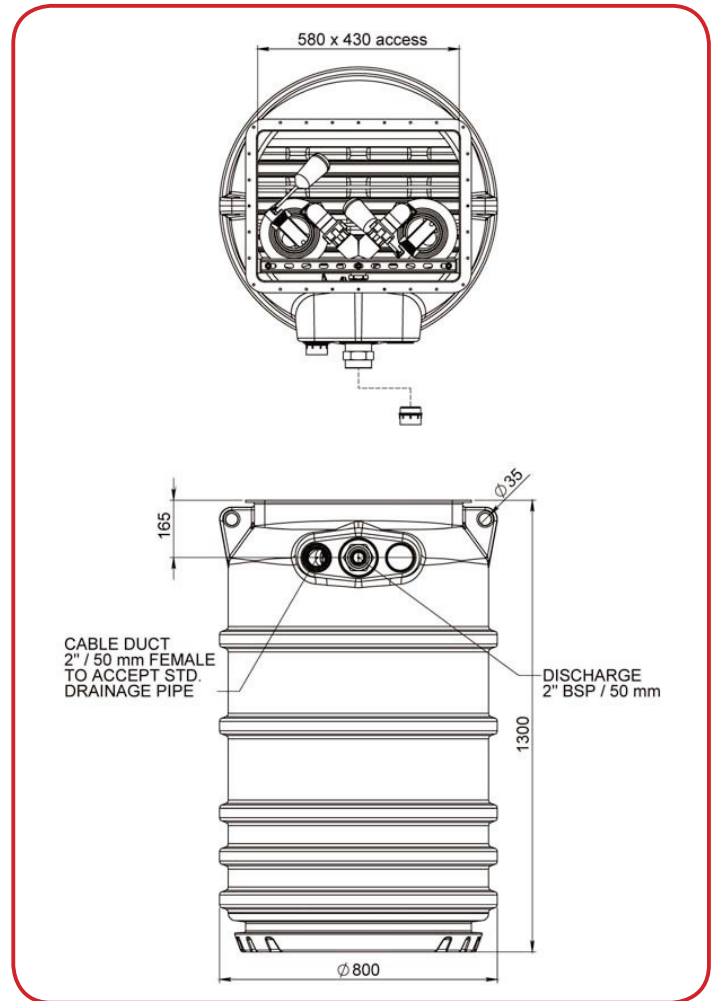


Table 2	Typical Duty	Ground / Surface Water	Foul Water	Solids Passage	Pump Installation	Pump Type	UPS
2-800-1300-U-V3	2l/s @ 4m head	YES	NO	10mm	Free Standing	V3	Battery Backup
2-800-1300-U-V4	2l/s @ 7m head	YES	NO	10mm	Free Standing	V4	Power Plus
2-800-1300-U-V6	2l/s @ 9m head	YES	NO	10mm	Free Standing	V6	Power Plus
1-800-1300-612SA-GR	4l/s @ 7m head	NO	YES	50mm	Guide Rail	612SA	Not Available
1-800-1300-712SA-GR	4l/s @ 5m head	NO	YES	65mm	Guide Rail	712SA	Not Available

Accessories

Battery Back up
- Power Plus



High Level Alarm



Telemetry System



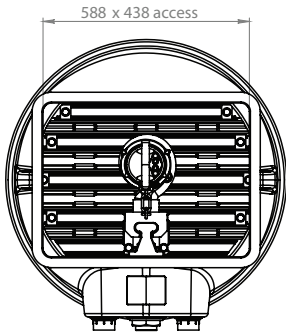
Pipe Work



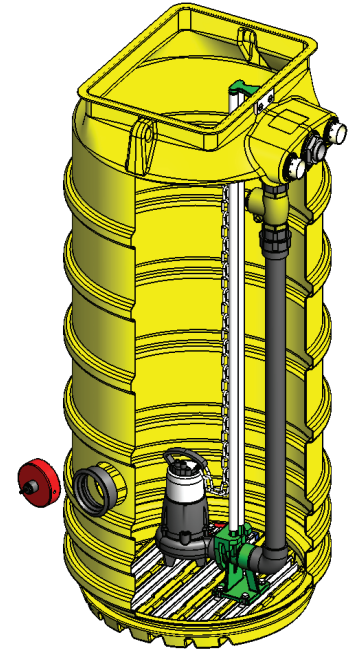
800 & 1160 SERIES

Overview

A range of chambers from 800mm-2630mm deep for collecting ground, surface and foul water (dependent on pump type) fitted with a range of vortex and macerator pumps. Full pump duty information on pages 6 & 7 – 'Delta drainage and sewage pumps- Performance and electrical information'.



Top View, 800 diameter chamber



Cutaway view of 800mm dia x 1800mm deep with guide rail mounted 50mm pump

The full range of 800 series chambers.

2000

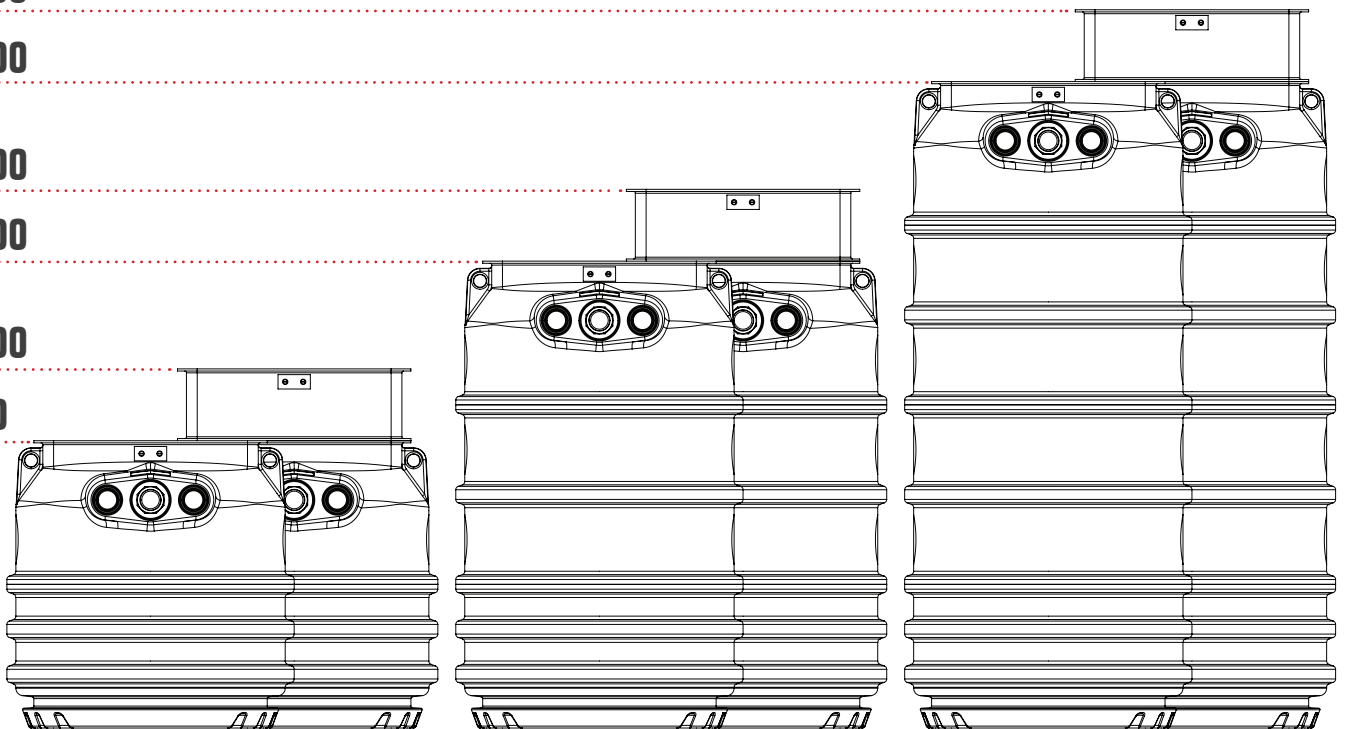
1800

1500

1300

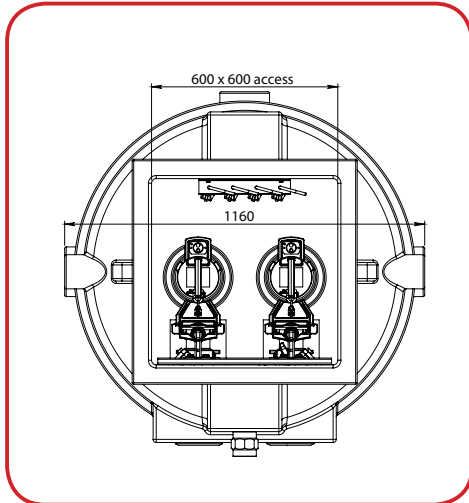
1000

800

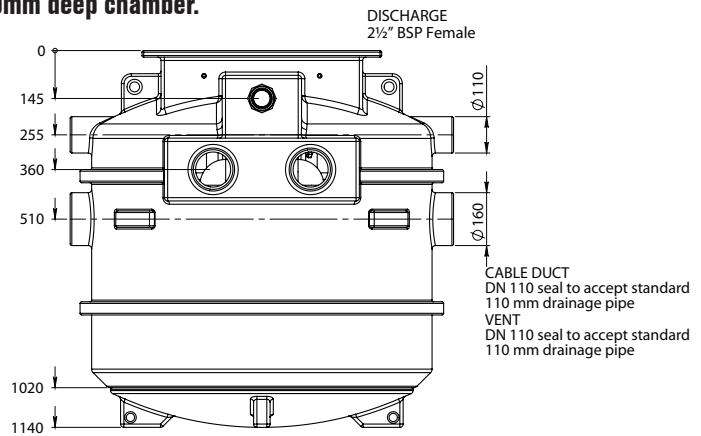


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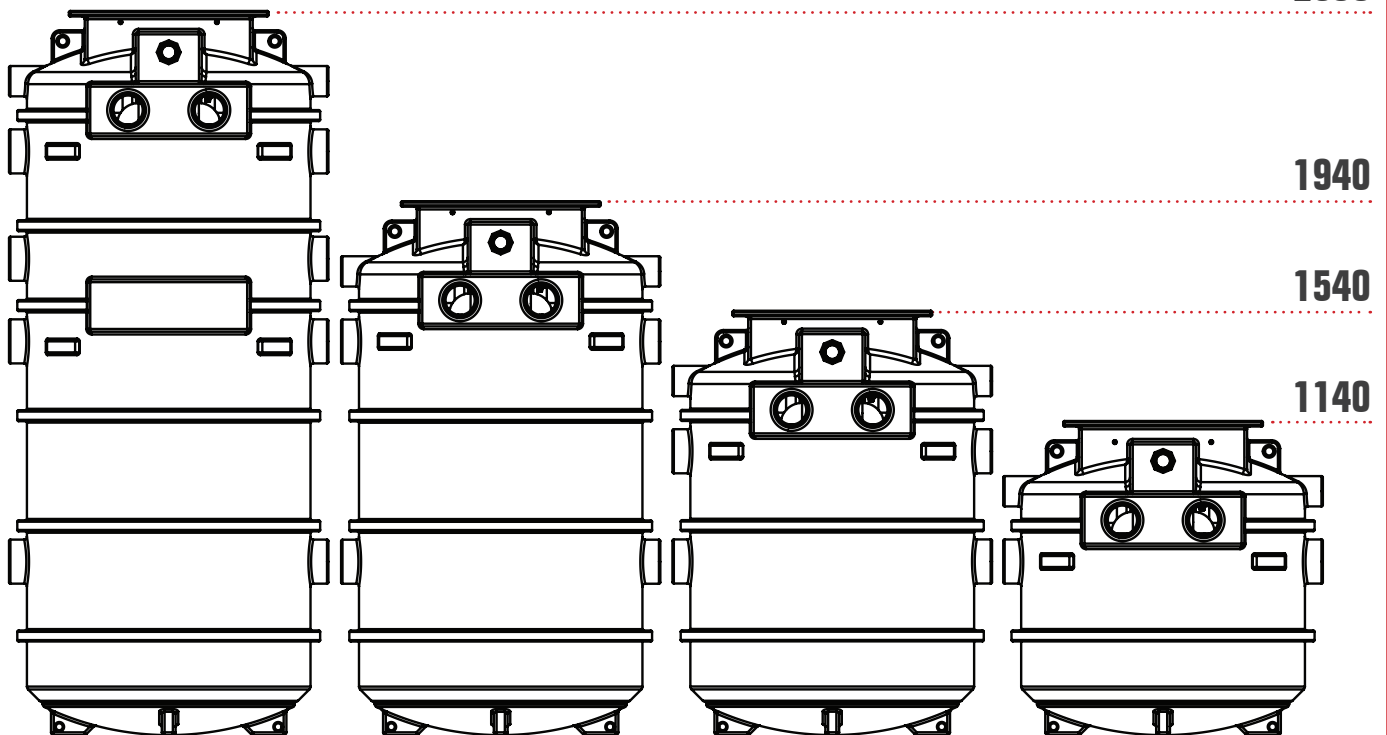
Diameters (mm)	Depths (mm)									
	800	1000	1140	1300	1500	1540	1800	1940	2000	2630
800	YES	YES	NO	YES	YES	NO	YES	NO	YES	NO
1160	NO	NO	YES	NO	NO	YES	NO	YES	NO	YES



Typical 1140mm deep chamber.



The full range of 1160 chambers.



Delta Membrane Systems Limited

Delta House, Merlin Way, North Weald, Essex, CM16 6HR

t: 01992 523 523 e: pumps@deltamembranes.com www.deltamembranes.com

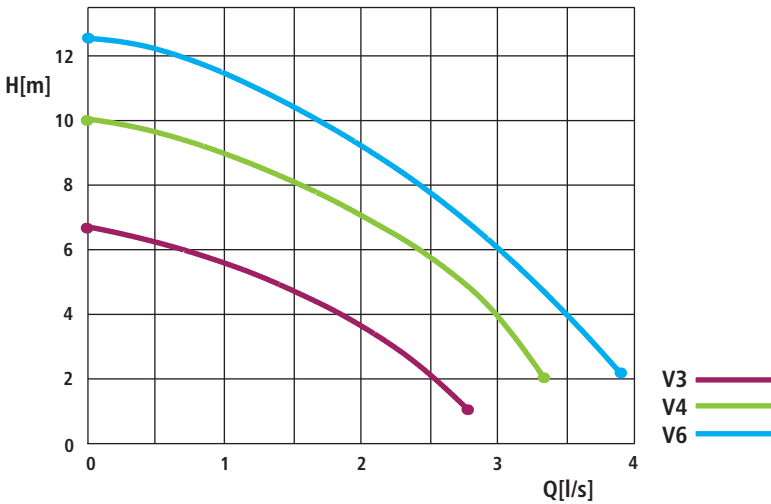
DELTA DRAINAGE AND SEWAGE PUMPS

Performance and electrical information

Overview

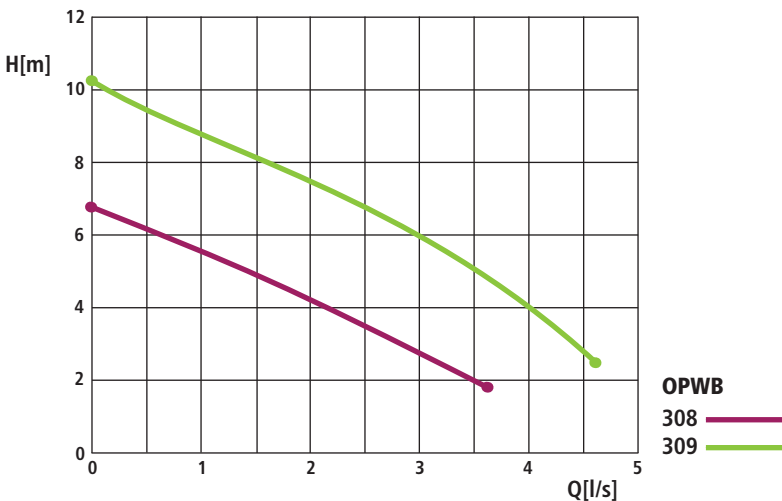
A range of drainage and sewage pumps fitted to our standard V3 products as well as larger 800 & 1160 series bespoke chambers. Featuring a range of single and three phase pumps with vortex impellers and macerator cutting systems. Pumps are generally available in automatic for control via an integral float switch or manual to be controlled via an external control panel. Applications covered include ground, surface and foul water, with the emphasis on high quality and low whole life costs. Pumps fitted to standard products are removed using quick release couplings, larger pump stations have pumps on 'guide rail' system with simple removal via lifting chains. We offer a range of accessories fitted as standard to our pump stations as stand alone products when fitting pumps inside pre cast chambers or concrete rings, including pipe work, gate and non return valves.

V3, V4 & V6 [Free Standing]



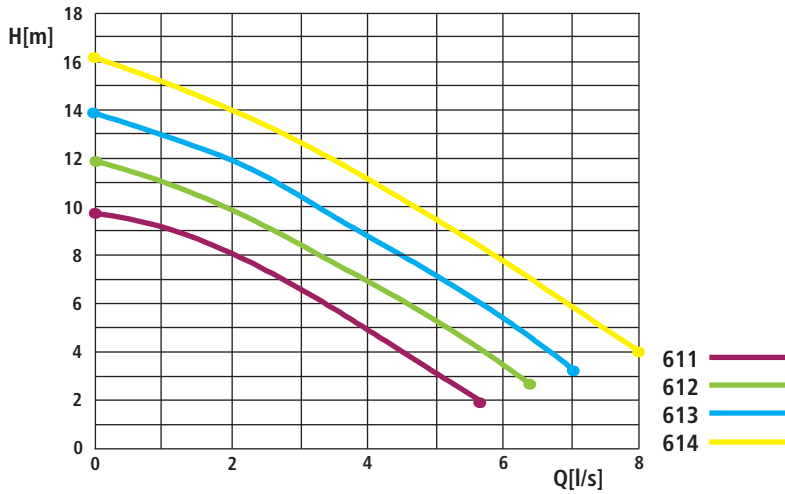
50Hz - 1 ~ 230V Discharge 1 1/4" BSP Female					
Model	P1 kW	P2 kW	In A	Part No.	Weight Kg
V3	0.430	0.180	1.9	DMS - 116	5.64
V4	0.750	0.356	4.0	DMS - 216	7.17
V6	1.050	0.500	4.9	DMS - 084	7.40

OPWB 308 & 309 [Guide Rail]



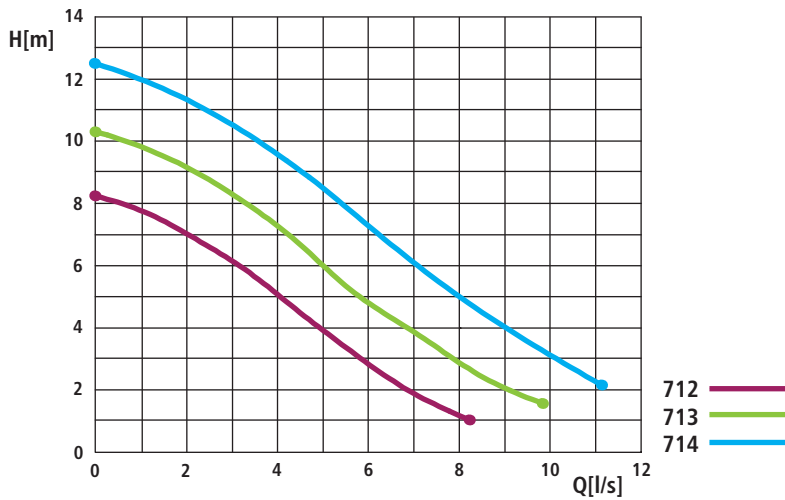
50Hz - 1 ~ 230V Discharge 1 1/4" BSP Female					
Model	P1 MAX W	P2 Nominal kW	In A	Part No.	Weight Kg
OPWB 308	355	0.22	1.6		4.6
OPWB 309	800	0.55	3.4		6.7

600 Series (Free Standing & Guide Rail)



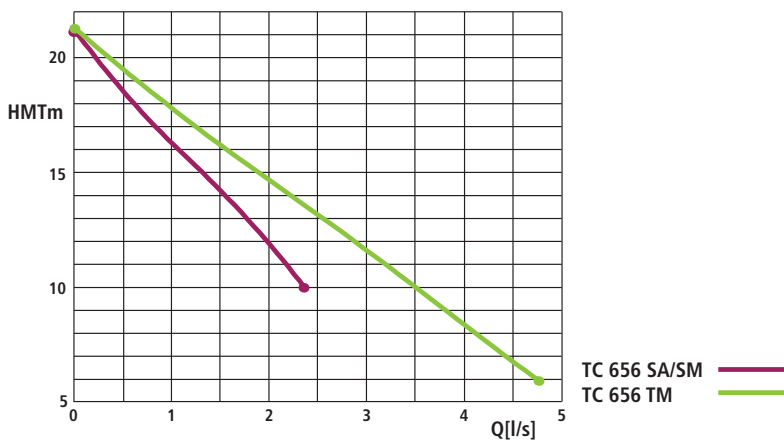
50 Hz - 1~ 230V Discharge 2" BSP Female						
Model	P1 kW	P2 kW	IN (A)	ID (A)	Part No.	Weight Kg
611 SA	1.0	0.55	5.0	18.2		22
612 SA	1.25	0.75	6.0	18.2	DMS - 114	22
613 SA	1.8	1.1	8.2	18.2		22
614 SA	1.8	1.1	8.2	18.2		22
50 Hz - 3~ 400V						
611 TM	0.9	0.55	2.3	18.3		22
612 TM	1.1	0.75	2.8	18.3		22
613 TM	1.5	1.1	3.0	18.3		22
614 TM	2.05	1.5	3.5	18.3		22

700 Series (Guide Rail)



50 Hz - 1~ 230V Discharge 2 1/2" BSP Female						
Model	P1 kW	P2 kW	IN (A)	ID (A)	Part No.	Weight Kg
712 SA	1.25	0.75	6.0	18.2		25
713 SA	1.8	1.1	8.2	18.2		25
714 SA	1.8	1.1	8.2	18.2		25
712 SM	1.25	0.75	6.0	18.2		25
713 SM	1.8	1.1	8.2	18.2		25
714 SM	1.8	1.1	8.2	18.2		25
50 Hz - 3~ 400V						
712 TM	1.1	0.75	2.8	18.3		25
713 TM	1.5	1.1	3.0	18.3		25
714 TM	2.05	1.5	3.5	18.3		25

TC656 (Guide Rail)



50 Hz - 1~ 230V Discharge 2" BSP Female						
Model	P1 kW	P2 kW	IN (A)	ID (A)	Part No.	Weight Kg
TC656 SA	1.8	1.1	8.2	18.2		26
TC656 SM	1.8	1.1	8.2	18.2		26
50 Hz - 3~ 400V						
TC6 TM	2.05	1.5	3.5	18.3		24

After Sales Service

PPS provide comprehensive maintenance and service support for all installations of Delta packaged stations.

They have a team of fully trained service engineers who are able to maintain both Delta manufactured equipment as well as booster set/pressurisation set and rain water harvesting systems.

They offer both one off servicing and repairs as well as preventative maintenance agreements.

Clients who are on a service agreement have access to a 24hr/365 day call out facilities.

PPS
packagedpumpsystems

f info@ppsgroupuk.com unit 2022 Goble Nurseries Business Park, Jenkins Drive, Ebertham, Essex, CM22 6JX
w www.ppsgroupuk.com f 01279 817570 t 01279 817470

Service Agreement

INVOICE ADDRESS 15A Chiswick Lane London W4 2LR
PROPERTY ADDRESS 15A Chiswick Lane London W4 2LR

CONTACTS
Additional Information: _____
Phone: _____
E-mail: _____

EQUIPMENT INSTALLED Delta dual chw 2 x 555NE + alarm
Delta dual chw 2 x 354NE + alarm

SCHEDULE OF SERVICING
Pump pump down on hand operation
Carry out minor clean removing all debris and scale from chamber, pumping equipment and associated items
Check & check float level equipment
Check & adjust impeller/wear plate
Check operation & wear of control panel/starts
Examine non return valve/stops and replace if necessary
Check internal pipe work for wear & leaks
Test on pump & motor performance
Replace or use particulates/nutrients necessary to bring the pump station on line once authorised
Test battery load (if fitted)
Test high level alarm and replace rechargeable battery
Report any defect requiring further action
Complete engineers report and pass one copy to customer
Frequency of Service: Every 6 months
Next Service Due: December 2010
Cost Per Visit: £210.00 plus VAT £246.75
Payment Terms: Collection on completion of service via credit/debit card or cheque
We accept this Service Agreement and the Terms of Business (V101)
Signed: _____ Print Name: _____ Date: _____

Registered in England (19701)
Packaged Pump Systems Ltd - Registered Office: 5 Duckets Wharf, South Street, Bishop's Cleeve, Herts, CM23 3JH
Page 1 of 2
VAT No: 637 0636 30



- Fully stocked vans
- Emergency breakdown service
- Out of hours service
- Planned maintenance
- Factory trained engineers