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HISTORY RE-ENGINEERED BY DUTYPOINT

HARTONPOD
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The Harton POD is a long-established underground plant room solution that is now part of the Dutypoint range. Our in-house engineers have continued developing and introducing new features and improvements to take the Harton POD forward as a next-generation solution.

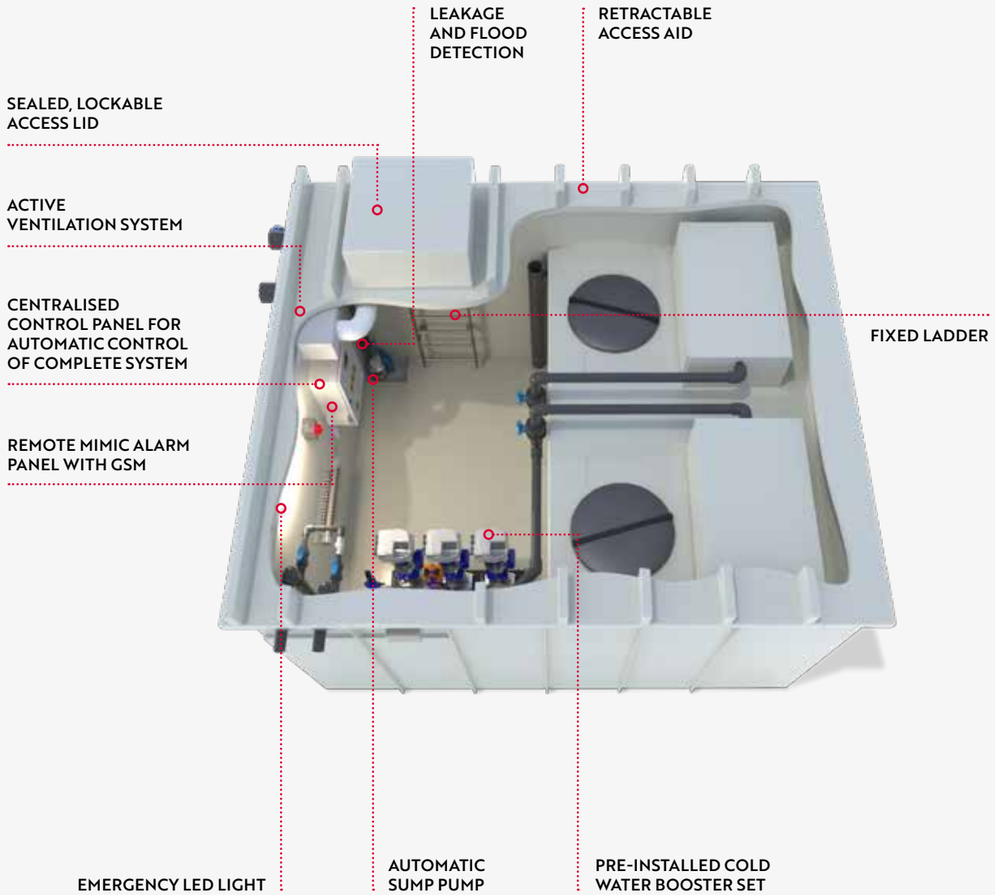
Harton POD by Dutypoint

The Harton POD provides a compact, cost-effective solution for underground plant room space.

PRODUCT OVERVIEW

- Wide range of sizes and options to suit various applications
- Factory-assembled, fully-sealed unit to reduce on-site labour
- Available as cold-water booster and tank only or including water treatment and/or optional segregated cat 5 system
- Access to plant room through 700 mm x 700 mm manway
- Fixed internal ladder access with retractable access aid post
- The complete system is made of WRAS-approved components
- Kiwa approved

Key Features



QUIKSWAP™ HIRISE BMS CONNECTABLE FIRE SYSTEM UPGRADE

TRUESTANDBY™ BURST PIPE TECHNOLOGY

Specification

The Harton POD by Dutypoint is a prefabricated, fully sealed, below-ground cold-water storage tank and booster set plant room made from durable GRP. The Harton POD is a compact and cost-effective solution for plant space. Dutypoint has built on the Harton legacy product design by introducing additional features and re-sourcing key components to deliver a more robust and easily maintained system.

FULLY SEALED UNIT

The single-piece GRP outer shell and neoprene sealed lockable access hatch provide a robust barrier from water ingress. All service connections are pre-glanded through the POD wall for external connection by the installation contractor, meaning that the entire installation process can be carried out without entering the POD.

PLUG AND PLAY

As soon as the power supply is connected to the cable tail supplied, the plant room leakage detection system, sump pump and ventilation systems are automatically activated, providing immediate protection from condensation or the unlikely event of water ingress or leakage. The booster set and associated plant require an engineer commissioning visit after installation.

FAILSAFE MAINS INLET CONTROL

The carefully designed control system includes a failsafe mains inlet valve linked to various leakage detection devices. This inlet valve will close in the event of detection of tank inlet failure, water leakage on the plant room floor or mains power failure.

REMOTE MONITORING SYSTEM

A remote mimic alarm panel is included as standard. This alarm provides visual system status indication without entering the pod. The mimic panel also incorporates a GSM alarm system to enable the transmission of any alerts via text or email to selected contacts.

HIGH-QUALITY VR BOOSTER SET

The Harton POD by Dutypoint is fitted with our flagship VR variable-speed booster set system as standard, offering class-leading quality and reliability. In addition, the Harton POD provides premium features, including HiRISE technology, TrueStandby™, QuikSWAP™ and burst pipe protection. The booster set is also available with an optional upgrade pack for compliance with fire standards for combined domestic water and sprinkler applications.

RANGE PERFORMANCE

Max system pressure	10 bar
Max liquid temperature	23°C

MATERIAL SPECIFICATION

Insulation thickness	40 mm
Booster skid	Powder-coated mild steel
Booster manifolds	AISI 304 stainless steel
Pressure vessels	AISI 304/Butyl PED97/23/C certified
Pump isolation valves	PTFE/EN12165/12164
Non-return valves	CF8M/AISI 316/AISI 304
Fasteners	BS EN ISO 3506/A2.70/BS 3643
Gaskets	WRAS-approved fibre
Pumps	WRAS approved
Pump casings	AISI 304 stainless steel
Pump impellers	AISI 304 stainless steel
Water conditioner body	Nickel-plated cast iron
Water conditioner flow rings	Polyethylene
Water conditioner O-rings	EPDM

Options

OPTIONAL EC ELECTROMAGNETIC WATER CONDITIONERS

Our highly efficient, WRAS-approved EC conditioners are also available as an optional feature within the standard range and can be fitted to the main cold-water booster and the optional separate cat 5 system. With high build quality and a 10-year guarantee, EC conditioners offer optimum system protection from excessive scale build-up without any corrosive elements being added to the water.

OPTIONAL CAT 5 SYSTEM

Our standard range includes the option for a segregated cat 5 tank and booster package, offering further space savings to the site plant room.

MODEL NUMBER KEY

E.g.: POD5000	POD5000	T	L	C	4	2	1504	T	E2	C12	E1

POD base size

Number of tank compartments:
S = Single compartment
T = Twin compartment

Plant area size:
0 = Standard
L = Large

Tank inlet size:
A = 1″
B = 1 ¼″
C = 1 ½″
D = 2″

Tank fluid air gap category:
4 = Cat 4 (AF)
5 = Cat 5 (AB)

No. of pumps on cold-water booster set

Booster pump model (e.g.1504 = VR[X]-1504)
View our VR booster sets for more information

System voltage (M = 1 phase, T = 3 phase)

Main EC water conditioner:
00 = No EC
E1 = EC100
E2 = EC25
E3 = EC32
E4 = EC40
E5 = EC50
E6 = EC65
E8 = EC80
View our EC water conditioners for more information

Cat 5 set

Cat 5 EC

POD Range

BOOSTER SET RANGE

- WRAS approved (Dutypoint VR range)
- Variable-speed pumps
- Cyclic duty changeover that ensures even wear across all pumps in the system
- Low-water protection (via conductivity probes)
- HiRISE technology that protects the building's pipework by ensuring the pumps start slowly during the initial fill process to prevent surge
- TrueStandby™ technology ensures that every key component in the booster set has a backup to keep the system operational in the rare occurrence of a component failure
- Burst pipe protection constantly monitors the system for signs of major leakage. If detected, an alarm is activated, followed by a full system deactivation if the required duty is still not met

BOOSTER SET RANGE PERFORMANCE

No. of pumps	Twin or triple
Motor kW	1.1 kW to 7.5 kW
Duty flow rate	1 to 20 l/sec
Duty pressure	0 to 10 bar

View our VR booster sets for more information.

POD Range

DRAWINGS AND DIMENSIONS

Model no.	Tank compartments	Tank fluid category	Actual capacity (based on inlet)				Ball valve housing	Tank access hatch size	Weight (kg)*
			1" (B)	1 ¼" (B)	1 ½" (C)	2" (D)			
POD1100S[X]-[X]4	Single	4 (AF)	1640	1600	1560	1490	No	450 Ø	1270
POD1100S[X]-[X]5	Single	5 (AB)	1520	1480	1440	1290	No	450 Ø	1270
POD2600S[X]-[X]4	Single	4 (AF)	3290	3200	3130	2990	No	600 Ø	1470
POD2600S[X]-[X]5	Single	5 (AB)	3050	2960	2890	2590	No	600 Ø	1470
POD5000S[X]-[X]4	Single	4 (AF)	5410	5320	5250	5130	Yes	600 Ø	1680
POD5000S[X]-[X]5	Single	5 (AB)	5410	5320	5250	5130	Yes	600 Ø	1680
POD7500S[X]-[X]4	Single	4 (AF)	7970	7840	7740	7560	Yes	600 Ø	1960
POD7500S[X]-[X]5	Single	5 (AB)	7970	7840	7740	7560	Yes	600 Ø	1960
POD10000S[X]-[X]4	Single	4 (AF)	10530	10360	10240	10000	Yes	600 Ø	2230
POD10000S[X]-[X]5	Single	5 (AB)	10530	10360	10240	10000	Yes	600 Ø	2230
POD1100T[X]-[X]4	Twin	4 (AF)	1590	1550	1510	1440	No	450 Ø	1450
POD1100T[X]-[X]5	Twin	5 (AB)	1470	N/A	N/A	N/A	No	450 Ø	1450
POD2600T[X]-[X]4	Twin	4 (AF)	3240	3150	2890	2940	No	600 Ø	1640
POD2600T[X]-[X]5	Twin	5 (AB)	3000	N/A	N/A	N/A	No	600 Ø	1640
POD5000T[X]-[X]4	Twin	4 (AF)	5280	5200	5140	5010	Yes	600 Ø	1810
POD5000T[X]-[X]5	Twin	5 (AB)	5280	5200	5140	5010	Yes	600 Ø	1810
POD7500T[X]-[X]4	Twin	4 (AF)	7920	7790	7700	7510	Yes	600 Ø	2080
POD7500T[X]-[X]5	Twin	5 (AB)	7920	7790	7700	7510	Yes	600 Ø	2080
POD10000T[X]-[X]4	Twin	4 (AF)	10480	10310	10270	9950	Yes	600 Ø	2350
POD10000T[X]-[X]5	Twin	5 (AB)	10480	10310	10270	9950	Yes	600 Ø	2350

Model no.	External dimensions		
	L**	W	A
POD1100S[X]-[X]4	2420	2320	2390
POD1100S[X]-[X]5	2420	2320	2390
POD2600S[X]-[X]4	3020	2320	2390
POD2600S[X]-[X]5	3020	2320	2390
POD5000S[X]-[X]4	3720	2320	2390
POD5000S[X]-[X]5	3720	2320	2390
POD7500S[X]-[X]4	4620	2320	2390
POD7500S[X]-[X]5	4620	2320	2390
POD10000S[X]-[X]4	5520	2320	2390
POD10000S[X]-[X]5	5520	2320	2390

Model no.	External dimensions		
	L**	W	A
POD1100T[X]-[X]4	2320	2820	2390
POD1100T[X]-[X]5	2320	2820	2390
POD2600T[X]-[X]4	2820	2820	2390
POD2600T[X]-[X]5	2820	2820	2390
POD5000T[X]-[X]4	3320	2820	2390
POD5000T[X]-[X]5	3320	2820	2390
POD7500T[X]-[X]4	4070	2820	2390
POD7500T[X]-[X]5	4070	2820	2390
POD10000T[X]-[X]4	4820	2820	2390
POD10000T[X]-[X]5	4820	2820	2390

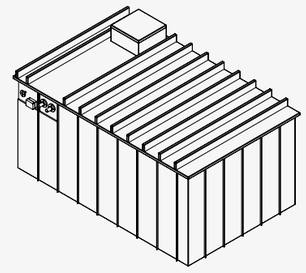
*Weight is for standard version bare POD. May increase where optional extra plant is required. Please check with sales office. **Length may increase where cat 5 and/or EC water conditioners are required in addition to the main cold-water booster set. Refer to the table on the following page.

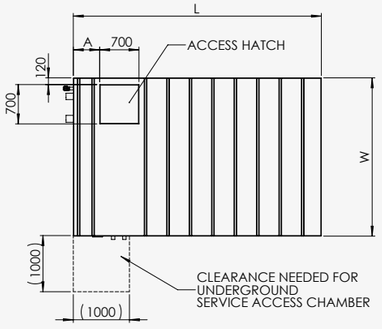
POD Range

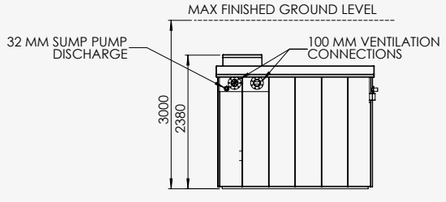
DRAWINGS AND DIMENSIONS

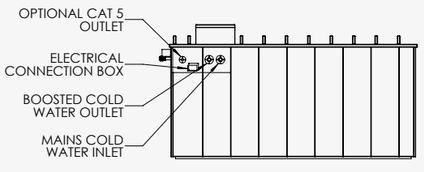
Compartments	Main CWB EC	Cat 5	Cat 5 EC	Kiosk version	Length adder*
Single	No	No	No	Standard	-
Single	Yes	No	No	Large	500
Single	No	Yes	No	Large	500
Single	Yes	Yes	No	Large	500
Single	No	Yes	Yes	Large	500
Single	Yes	Yes	Yes	Large	500
Twin	No	No	No	Standard	-
Twin	Yes	No	No	Standard	-
Twin	No	Yes	No	Large	350
Twin	Yes	Yes	No	Large	350
Twin	No	Yes	Yes	Large	350
Twin	Yes	Yes	Yes	Large	350

*Length may increase where cat 5 and/or EC water conditioners are required in addition to the main cold-water booster set.









POD Range

OPTIONAL CAT 5 SYSTEM RANGE

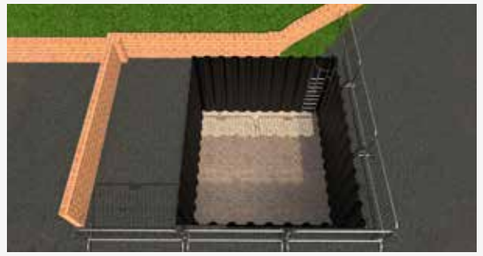
Model no.	Code	Nom. capacity (L)	Tank inlet size	Variable speed	kW	FLC (A)
MB1-35M	C01	18	15 mm	No	0.4	2.5
FP1-45M	C02	100	½"	No	0.8	4.7
VP1-45M	C03	100	½"	Yes	0.8	4.7
WX1-3040-175-AB	C11	240	¾"	Yes	0.6	4.1
WX1-3060-175-AB	C12	240	¾"	Yes	0.8	5.2
WX1-3080-175-AB	C13	240	¾"	Yes	1.1	7.4
WX1-5040-175-AB	C14	240	¾"	Yes	0.8	5
WX1-5060-175-AB	C15	240	¾"	Yes	1.1	7.4
WX1-5080-175-AB	C16	240	¾"	Yes	1.5	10.5
C5-306-300	C21	300	¾"	Yes	0.6	2.7
C5-308-300	C22	300	¾"	Yes	0.8	3.1
C5-312-300	C23	300	¾"	Yes	1.1	4.1
C5-505-300	C24	300	¾"	Yes	0.8	3.1
C5-508-300	C25	300	¾"	Yes	1.1	4.1
C5-511-300	C26	300	¾"	Yes	1.5	9.2

Model no.	Nominal duty*		Final discharge connection	Dry weight (kg)	POD compatibility**	
	Flow	Head			Single	Twin
MB1-35M	0.3 l/s	2 bar	DN25	19	✓	✓
FP1-45M	1.0 l/s	3 bar	DN25	65	✓	✓
VP1-45M	1.0 l/s	3 bar	DN25	65	✓	✓
WX1-3040-175-AB	0.8 l/s	3 bar	DN32	51	✓	-
WX1-3060-175-AB	0.8 l/s	4.4 bar	DN32	54	✓	-
WX1-3080-175-AB	0.8 l/s	5.8 bar	DN32	56	✓	-
WX1-5040-175-AB	1.4 l/s	3.2 bar	DN32	53	✓	-
WX1-5060-175-AB	1.4 l/s	4.7 bar	DN32	55	✓	-
WX1-5080-175-AB	1.4 l/s	6.5 bar	DN32	58	✓	-
C5-306-300	0.8 l/s	3.4 bar	DN32	100	-	✓
C5-308-300	0.8 l/s	4.8 bar	DN32	106	-	✓
C5-312-300	0.8 l/s	7.9 bar	DN32	111	-	✓
C5-505-300	1.6 l/s	3.8 bar	DN32	105	-	✓
C5-508-300	1.6 l/s	4.4 bar	DN32	109	-	✓
C5-511-300	1.6 l/s	6 bar	DN32	113	-	✓

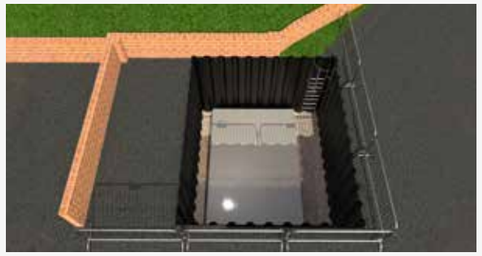
*Nominal duty is the mid-curve duty point, so the pump will be capable of achieving a higher flow at a lower pressure or a higher pressure at a lower flow than the nominal duty stated. Full pump curves available on request. **The cat 5 system types available are dependent on whether the POD selected is a twin-compartment or single-compartment tank version.

Installation Process

EXCAVATION



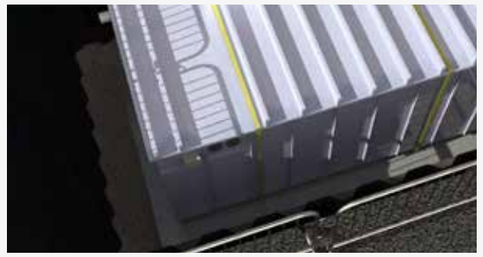
CONCRETE BASE



LIFT INTO POSITION

PLACE INTO POSITION

SECURE DOWN WITH STRAPS



BACKFILL AND CONNECT SERVICES

INSTALL ACCESS COVER

Let's talk about the Harton POD by Dutypoint

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