



Providing a Service Point for Motorcaravans

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Overview

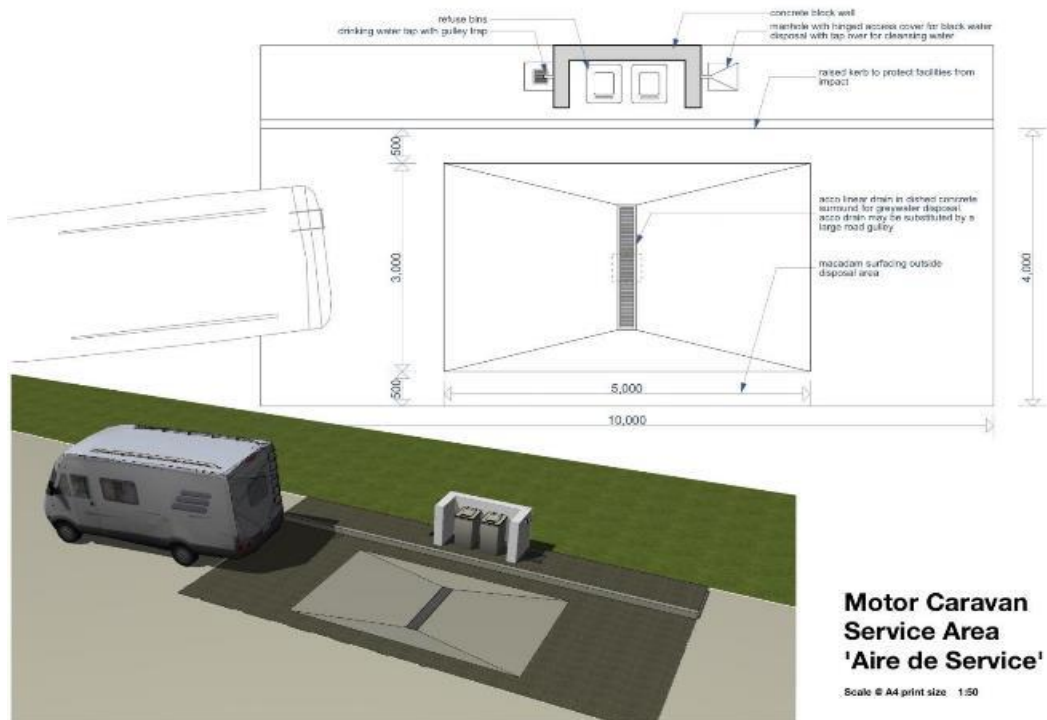
Service points are very important for responsible and environmentally friendly disposal of waste. This document outlines the types of systems used and potential costs for installation and upkeep.

This document should be read in conjunction with [Designing an Aire](#).

Basic requirements

- ☉ Fresh water tap.
- ☉ Grey waste (washing up and shower water) a simple drain away from the building can be sufficient but some motorcaravans have to empty from underneath the vehicle so require a drive over drain. Again, this can be a simple drain or longer grill.
- ☉ Black waste (toilet cassette) emptying point this can be as simple as lifting an existing manhole connected to a sewer or septic tank but preferably a ready-made or self-build unit. If possible, there should be a separate tap with a short hose attached to allow rinsing of cassette (away from the drinking water tap and labelled (not drinking water)).
- ☉ Refuse bin if possible.

Typical Layout for a Service Point



This Diagram shows an ideal solution for providing all the services required. The drive over drain is easily accessible by all sizes of motorcaravans as location of the emptying point varies by manufacturer. However, where funds are restricted, existing drain/manholes can be adapted.

Solutions

Here is a guide for approximate costs of the following solutions. Local conditions will cause variations and self-build will be the cheapest. These are only a guide as every situation is different and installation cost will vary.

Black Water or Chemical WC Disposal Point

This is perhaps the most important part of the service. There are a number of solutions available with varying costs depending on the services already present on the site. Some which are very cheap to install.

Elementary

Existing manhole on existing foul sewer. Adapt manhole cover so it is easily opened and closed. A water standpipe close by with 1m hose is desirable for washing out cassettes.

COST – Tap and pipe – a few ££



Basic A

Use old WC & cistern with lid connected to existing foul sewer or a DIY unit. Water tap for cleaning cassette is desirable.

COST: approx. £200



Basic B

As elementary but fit hopper over manhole to avoid splash back during cassette emptying.

COST: approx. £320 + VAT & delivery

Contact: www.ctdp.co.uk 01460 240 069



Basic +

As basic B but with flushing hopper, therefore needs water connection.

COST: approx. £680 + VAT & delivery & water connection.

Contact: www.ctdp.co.uk 01460 240 069



Fresh Water Taps

Ideally these should be well separated from the grey and black water disposal points to avoid cross contamination of drinking water and water used to rinse grey and black disposal points. Some continental water supply towers achieve this by having the fresh and grey/black system on opposite sides.

Grey Water Disposal Point

Simply dealt with by a drive over channel drain gulley connected to a soak away or sewer. Does not need the water supply tower shown in the photo if that is supplied elsewhere. Construction by local builder or self-build.



COST: 3m channel drain, 3mx2m concrete slab
Soakaway 2m³

£600-700 (less if DIY)
approx. £1100

Temporary Waste Storage

If you do not have a connection to either the mains sewage system or a septic tank/biogas digester, you can still provide services using a temporary storage tank.

For example, a 2300 litre plastic effluent storage tank with tipping point hopper. It would need emptying when full. It just needs placing on a firm level surface. A water standpipe with non-concussive tap close by for washing cassettes would be preferable. A non-concussive tap has to be pressed to allow a discharge of water so controls water use and reduces waste.

COST:

2300L Effluent Tank	£1470
Tipping point (Hopper)	£260
High level alarm	£162
Water standpipe say	£150
Emptying approx.	£150/visit



As a guide to running costs a 2300L tank would hold approx. 75 cassette empties so emptying would cost approx. £2/cassette. Water for cleaning is approx. £0.03/10L

Other effluent tank capacities are available:

3400L - £2,130

4450L - £2,400

Contact: www.asapseptictanks.co.uk

01623 232 240

Example Costs of Emptying

Biffa Waste Disposal - Domestic Tanker Services/Household Waste

Toilet waste does not always contain chemicals – from our survey only 9% of motorcaravans use non-bio chemicals in their toilet.

Calculations assume that each emptying consists of 20 litres for the toilet cassette and 30 litres for the waste tank. Therefore a 700-gallon tank (3182 litres) would take approximately 63 visits from motorcaravans to fill. The cost of removal is approximately £2 per 50 litres. A charge of £5 per motorcaravan would generate a £3 profit per emptying.


Base charge – Initial 700 gallons – Maximum 3 pipes	£130.00
Additional Charge – Per 100 gallons	£7.75
Additional Charge – Pipe lengths 4 – 5	£15.00
Additional Charge – Pipe lengths 6+	£60.00
Additional Charge – Emergency Emptying (within 48 hrs)	£56.00
Abortive Visit Charge	£46.25

Professional Units

These are self-contained towers often in stainless steel complete with water outlets for cassette rinsing and for fresh water refill. They can also be coin / token operated or will accept card payment if a power supply is available. No UK supplier yet found so supplied from EU. Suitable for larger or more popular Aires where the capital cost can be justified.

EURO-RELAIS Multi-Service MINI Point – No payment system

Mini Point for 1 VEHICLE
Discreet and elegant, the Mini Point is perfect for seasonal use (e.g. outdoor hotel services).




Characteristics of the Euro-Relais 2021 MINI Point	
Mini Point: 1 Vehicle	
Payment	None
Lighting	None
Drinking water taps	1
Rinsing taps	1
Toilet drainage	Yes
Grey water drainage	Yes
Anti-freeze kit	Yes
Wi-Fi	No
Material	Base and cap: polyester, Column: 304-grade stainless steel, painted white
Control type	Push button PRESTO timer system
Locking	2-point locked door
Base (included)	To be interred and pre-connected with shared grey and wastewater drainage pipes

Mini point: 1 vehicle

M/ERMx1 2218 €HT

Base (required)

M/ERCE1 100 €HT



COST : £2000 +

Contact: www.bornes-eurorelais.fr

Motor Caravan & Caravan Toilet Chemicals

Overview

Today very few people use a traditional bucket type toilet (Elsan, Bristol or similar), most use a portable flushing toilet (Porta-Potti or similar) or a built-in cassette toilet. Generally, these hold around 20L and need some form of chemical to break down solids unless a SOG system is installed which requires no chemicals.

Originally most products were formaldehyde based, then in the 1990's more environmentally friendly biocides were introduced, a lot of which are still used. More recently, products have been developed which contained enzymes and probiotics.

Advice to site owners

We would suggest the best option for anyone considering installing a toilet waste facility, would be to provide direct access to a mains sewer. However, if this is not an option, then access to a holding tank/septic tank would be acceptable and both toilet and grey waste water would go in to the same tank.

This would increase the dilution of any biocide used, though we would also suggest that ideally motorcaravan owners use a non-biocidal fluid or ideally one that isn't enzymatic or probiotic. This is because being biocide free it won't kill any enzymes in the septic tank and enzyme or probiotic free won't affect the balance of the tank.

Products claimed to be suitable for septic tanks:-

- ⊕ Qualkem 40shot ECO Cassette Toilet Fluid
- ⊕ Blue Bio
- ⊕ Dometic GreenCare tabs
- ⊕ Aqua Chem Green
- ⊕ Towsure Toilet Green
- ⊕ Kampa Green

Others are available.

CAMpRA recommend that site owners ensure that they put up adequate signage at the black water chemical disposal point stating what system is installed ie "Septic Tank" or "Mains Drain" and thus what chemicals can/cannot be used. If possible where septic tanks are installed the known location of the next mains system black water site/septic tank.

Appendix 1

Documents in this Series

All these documents can be found on the CAMpRA UK Ltd [Business Hub](#)

Name	Overview
Introduction to Aires	
Aires and Motorcaravans	This document explains what an Aire is, why they are needed, how they are used and what if any benefits there are from them being introduced.
Aires and Tourism	This is a guide to help you understand how Aires can work positively with other tourism sectors such as campsites, bed and breakfast and hotels.
Creating Aires and Service Points	
Steps to Creating an Aire	This document aims to set out the simplified steps for creating an Aire. This document is aimed at Small Businesses and Landowners who wish to create a small Aire.
Designing an Aire	This document aims to give practical advice and offer suggestion for the creation of successful parking spaces for Aires.
Providing a Service Point for Motorcaravans	Service points are very important for responsible and environmentally friendly disposal of waste this document outlines the types of systems used and potential costs for installation and upkeep.
Planning, TRO, Site Licenses and Certificates	This document outlines what may be involved in gaining Planning Permission/licences/certification to open an Aire along with changes that might be required to Traffic Regulation Orders (TRO) for existing car parking areas.
Fees and Promoting an Aire	This document aims to give practical advice and offer suggestions for what fees if any to charge for the use of an Aire and what methods can be used for promoting the new Aire.
Site Notices and Signs	This document suggests what notices and signs may be of use on an Aire.
CAMpRA Accreditation	This document explains what a CAMpRA Accredited Aire is, what this means to the site and how to get Accreditation.

Recommended Reading in Conjunction with this Document.

Name	Notes
CAMpRA - Strategy for Sustainable Motorcaravan Tourism in the UK	
CAMpRA Fire Safety Report	Commissioned by CAMpRA from and Independent professional Fire Safety Expert.
CAMpRA 2020 Survey	

Document History

Date	Version	Type	Notes
29.10.2021	2.0	Major Revision	Inclusion of following Docs, Guide to providing a Service Point for motorcaravans Chemical toilet advice Requirements for and Aire Guide to setting up an Aire
2020	1.0		Previous iterations