Eberspächer

Handiwash

Installation Instructions

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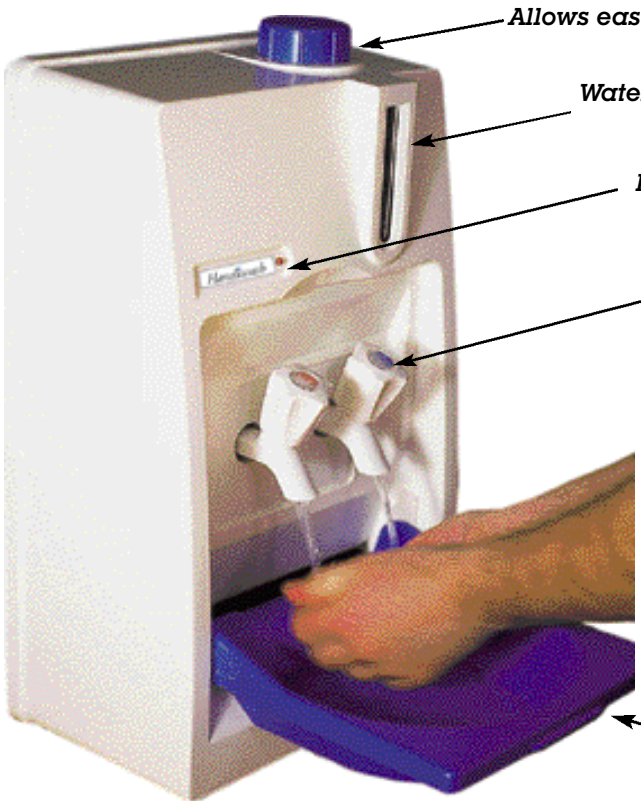
Introduction to Handiwash system

Hot and cold water at any location is now an affordable reality.

Eberspächer are proud to announce what is undoubtedly the most compact, easy to install and technologically advanced mobile handwash unit.

For anyone whose work brings them into contact with hazardous substances, or unhygienic conditions, it should be considered a necessity. Extensively used by major companies, Eberspächer Handiwash Units can assist you in meeting occupational health and safety requirements.



Allows easy filling

Water Level Indicator (8.5 ltr Capacity)

LED Indicator Lamp

Quality Hot and Cold Taps
Maintenance Free

Low Power Heavy Duty Heater Element
Using high corrosion resistant materials and state of the art electronics, the heater element thermostatically controls water temperature to 60°C. The system is also protected by a thermal overload safety device.

High Impact Housing
Moulded from tough, UV resistant polymers suitable for internal and external applications

Fold Down Basin

Easy Installation
Unit can be easily mounted to any vertical surface and wired to a 12 or 24 volt power source (depending on model)

Drain Hose
Fitted to base of unit (not shown)

The Handiwash offers the greatest capacity of water (8.5 litres) and most rapid heating up period, combined with the lowest power consumption of any electric handwash system available in the market to date.

The high impact plastic housing incorporates a water level indicator, quality hot and cold mixing taps and a fixed fold down basin.

Handiwash Installation Instructions

Part Numbers:	E4241 - 12v Handiwash E4242 - 24v Handiwash
Optional electrical kits are available under the following part numbers	
Electrical Kit:	E4297- 12v Electrical Kit E4298 - 24v Electrical Kit

Technical Specification:	
Dimensions:	width 300mm height 520mm depth 230mm, 405mm with basin down
Voltage:	12v System - 10 Amps at 12 Volt DC 24v System - 7 Amps at 24 Volt DC
Water Capacity:	8.5 Litres 6.85 Litres available
Water Temperature:	60ºC Max, time to raise water temperature from 18ºC to 50ºC = 22 minutes
Weight:	5.5 kg Empty 14.0 kg Full

General

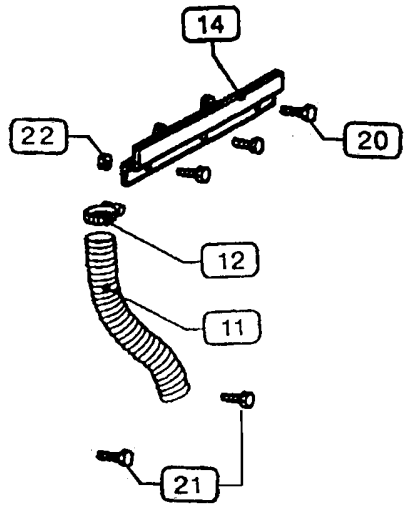
The units are supplied in either 12 volt or 24 volt configuration. The cartons are marked on the end externally to designate which voltage the unit is. In addition to this the following differences between the voltages are as follows:

- The 12 volt version will have a red LED. The 24 volt unit will have a clear LED indicator light on the front cover. The indicator light is on when the Handiwash unit is heating up and switches off when the water temperature has been achieved.
- With the front cover removed, the 24 volt unit will have a 25 mm round red decal mounted on the front of the insulation.

Mounting of the unit (See Fig Nº4 for mounting dimensions)

The parts shown in Fig 1 are supplied to install the Handiwash unit.
The front cover should first be removed by taking off the filler cap and the 2 off retaining screws on the bottom of the unit. By flipping the basin downward, the cover can be easily removed. The mounting bracket (item 14) should be secured in the required position using the 3 off M6x16 screws (item 20) and M6 lock nuts (item 22) supplied.

Once the bracket is secured in the required position, hook the unit onto the bracket. Fasten the unit at the base by using the 2 off M6x25 (item 21) screws and lock nuts, bolting through the back panel and the mounting surface. These screw prevent the unit from moving off the bracket. Refit the front cover, ensuring that the 2 way electrical plug to the LED light is connected. Refit 2 off retaining screws to base of front cover. The drain hose (item 11) should be attached to the spigot at the base of the unit by hose clamp (item 12). The other end should be terminated to a suitable position outside the vehicle, i.e waste water outlet to container etc.



Item Nº	Pt. Nº	Qty	Description
11	16346	1	Drain Hose
12	16347	3	Hose Clamp
14	16349	1	Mounting Bracket
20	190024	3	Screw M6x16
21	19331	2	Screw M6x25
22	19533	5	Nut M6 Nyloc

Important

1. **Before the Handiwash unit is connected to the power supply, the unit should be filled with water and the hot water tap opened to allow a small quantity of water to flow, this ensures air is not trapped in the system.This operation is only required on the initial installation. Failure to carry out this operation can result in the unit going into an 'Overheat' mode. Please refer to TROUBLE SHOOTING guide at the end of the instructions should this occur.**

2. **In freezing wea**
ther conditions, when leaving the vehicle overnight or at the weekend, drain Handiwash system by opening both
3. **hot and cold taps.**

4. **CAUTION! THE WATER IN THE HANDIWASH SYSTEM MAY BE HOT.**

THE WATER IN THIS UNIT IS NOT SUITABLE FOR DRINKING.

Wiring of the unit

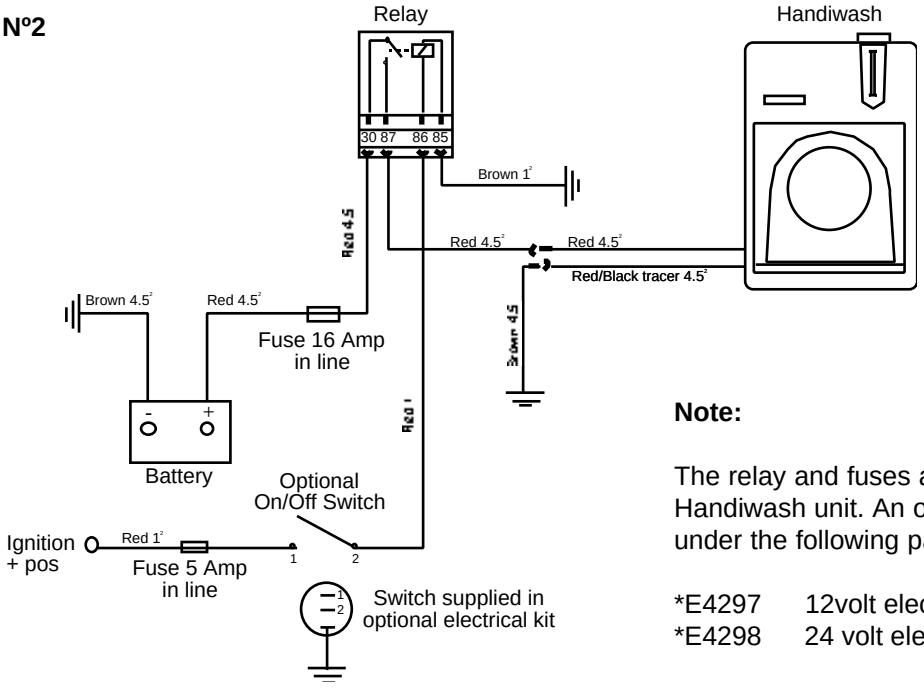
The Handiwash unit draws the following power current under full load: 10 Amps at 12 volt
7 Amps at 24 volt

The unit has a power supply lead (RED) and an Earth lead (RED/BLACK TRACER) at the back of the unit. If these are connected incorrectly, the unit will still operate, however, the indicator light on the cover will not be operational. The earth lead may be connected to the vehicles chassis or any suitable earth point on insulated earth return vehicle. The power supply lead should be connected to the vehicles power supply via an in line fuse.

It is recommended that power be supplied via a relay so that the unit is only operational when the vehicles ignition is on. The unit is thermostatically controlled and when it is in operation, it will draw power for approximately 30 minutes. During this time, the indicator light on the cover will be on. Once the operational temperature has been reached, the unit will switch itself off and will only automatically switch on again for a short time if the water temperature has dropped off.

Please refer to the wiring diagram (Fig Nº 2) for the suggested wiring layout.

Fig Nº2



Note:

The relay and fuses are not supplied with the Handiwash unit. An optional electrical kit is available under the following part numbers.

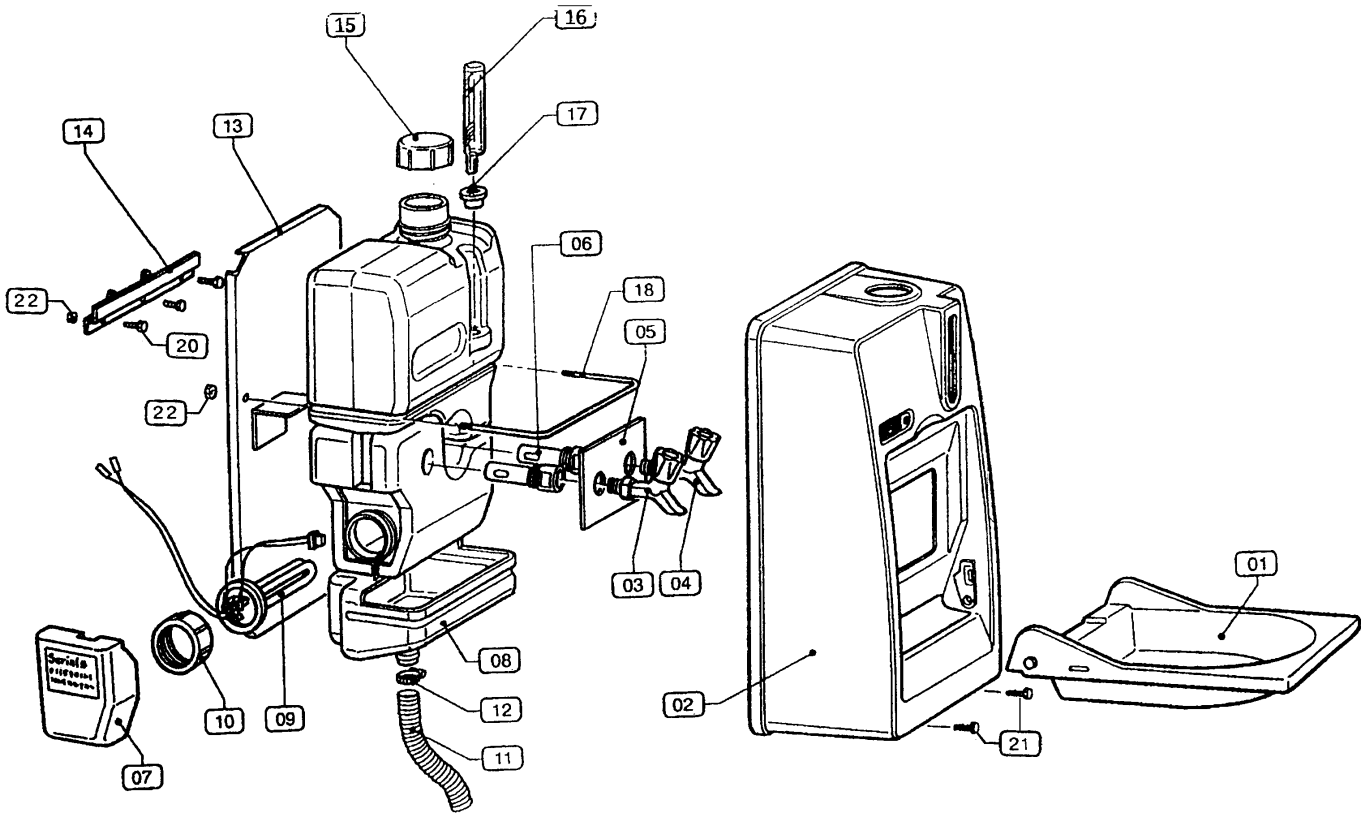
*E4297 12volt electical kit
*E4298 24 volt electrial kit

The optional electrical kit contains the following parts:

Part Nº	Description	Qty	Part Nº	Description	Qty
16329	Round Rocker Switch 12/24v	1	18046	Terminal 8mm Insulated Ring	2
*203 00 076	Relay 12v (12v Kit only)	1	18068	Terminal Insul Yellow PRY 1543	5
*291L350350	Relay 24v (24v Kit only)	1	180266	Terminal Insul Yellow PRY350	1
204 00 099	Fuse Carrier - Inc 16A Fuse	1	18047	Terminal Red Insul PRR1541	5
204 00 098	Fuse Carrier - Inc 5A Fuse	1	180267	Terminal Insu Red 4.8 PRR1741	3
18156	Fuse Carrier Cover	2	18511	Terminal Ring Red (PRR635) A	2
18864	Cable 4.5mm Single Core Red	6mtr	19036	Bolt - M5x16- Hex-	2
18872	Cable 4.5mm Single Core Brown	6mtr	19014	Nut - M5-Hex-Z+P	2
18901	Cable 1mm Single Core Red	3mtr	19016	Washer - M5-Z+P	2
291L050148	Cable 1mm Single Core Brown	3mtr	108 10 325	Screw No10x1/2" Pan Pozi AB	2
18812	Split Tubing For Cable-3/8"	6mtr			

Handiwash assembly guide

Fig Nº 3



NUMBER	PART Nº.	DESCRIPTION	QTY
01	16336	Basin	1
02	16337	Cover Assembly	1
03	16338	Tap- Hot	1
04	16339	Tap- Cold	1
05	16340	Tap Fascia	1
06	16341	Tap Support	1
07	16342	Insulation Cover	1
08	16343	Tank Module	1
09	16344	Element assembly 12v (including LED wiring)	1
09A	16358	Element Assembly 24v (including LED wiring)	1
10	16345	Element Retainer Cap	1
11	16346	Drain Hose x 800mm	1
12	16347	Hose Clamp	1
13	16348	Back Panel	1
14	16349	Mounting Bracket	1
15	16350	Filler Cap	1
16	16351	Sight Gauge	1
17	16352	Seal	1
18	16353	U Bolt	1
19	16354	Cap for Screw head (white plastic)	4
20	190024	Screw M6x16	3
21	19331	Screw M6x25	2
22	19533	Nut M6 Nyloc	7

Troubleshooting Guide

If the unit does not operate.

1: Check that there is a power supply to the unit and that you have a good earth connection. Check fuses.

2: Check that the power and earth leads have not been incorrectly connected. The unit will operate, however, the LED indicator light will not operate.

3: The unit may have had the reset mode activated.

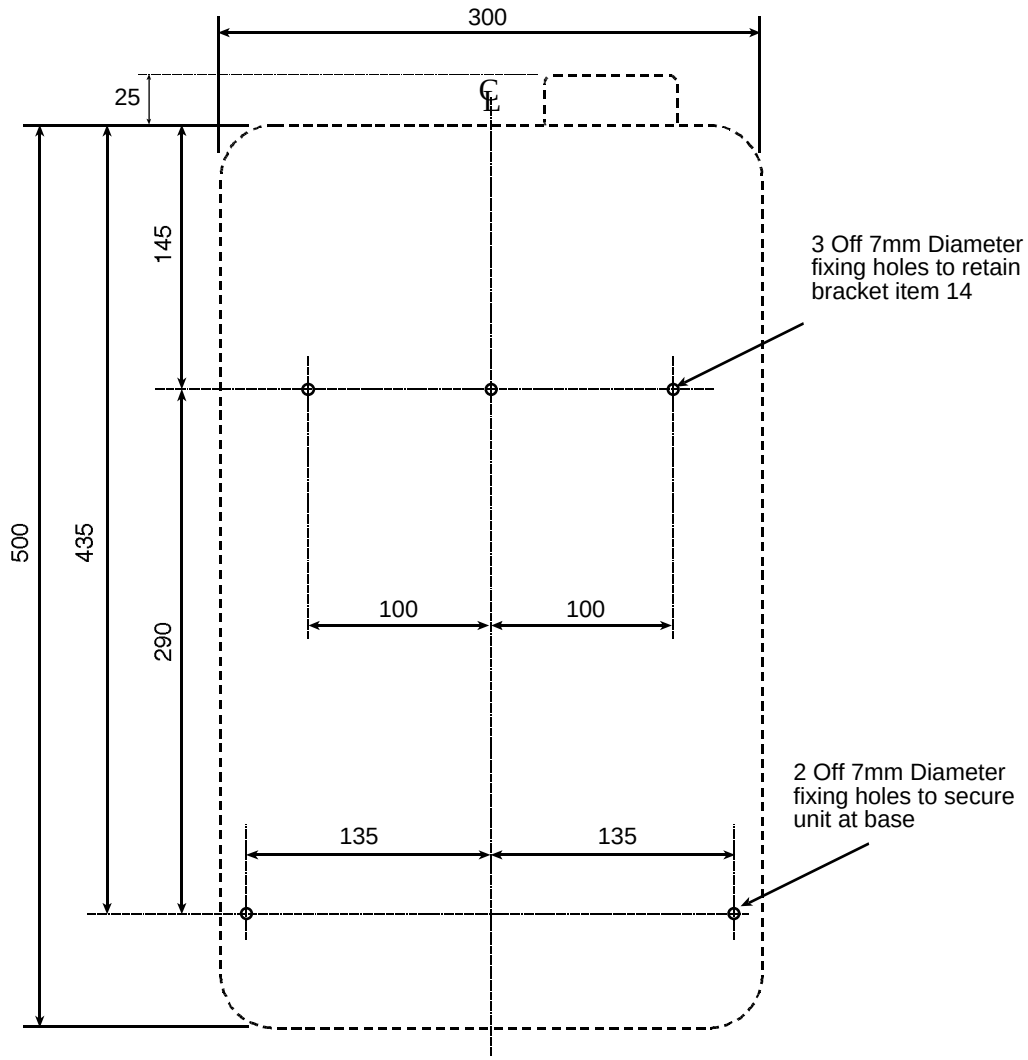
The unit must be allowed to drain a small amount of water off the hot water tap to ensure that the element is fully immersed in water. If this does not happen, the unit may turn itself off and require a manual resetting of the unit.

To manually reset, first disconnecting the power supply to the Handiwash unit and removing the cover assembly of the unit. Gently remove the insulation cover on the left hand side of the unit. You will now see a red button which will have to be pressed to reset the unit. Before you do this, make sure that water comes out of the hot water tap or it may go into reset mode again.

Once the unit has been reset, gently place the foam end cap back over the element locating the wires inside the recess in the foam. Replace the cover and check for correct operation.

Important: Check correct voltage of unit and parts replaced if repaired.

Fig Nº 4
Mounting Dimensions



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