

Microdiesel Cleaning & Assembly Products



Microdiesel Cleaning & Assembly Products

Hartridge™ Microdiesel Cleaning and Assembly products are a range of affordable products for workshops involved in the service of the latest generation diesel technologies.

Common Rail and EUI/EUP technologies call for rigorous standards of cleanliness during the assembly and testing of the product, whether it is pumps or injectors. Contamination will result in premature failure of this type of fuel injection system. The Microdiesel range exceeds the stringent requirements laid down by most Original Equipment Manufacturers by providing parts washing systems and controlled, clean room facilities for re-assembly.

Microdiesel Rotary Parts Washer HM1007

The **Hartridge™** Rotary Automatic Parts Washer HM1007 is a multi-purpose high performance environmentally friendly rotary basket washer designed to clean diesel fuel system components. The washer uses hot water and a bio degradable detergent and will clean both rotary and in-line pumps and parts.

Main Features

- Low water level shut off
- Oil skimmer
- Motorised basket

Benefits

- Reduces time spent cleaning.
- Environmentally friendly.
- Eliminates potentially hazardous fumes and odours.

TECHNICAL SPECIFICATION	
Basket Diameter	780mm
Load Height	500mm
Tank Capacity	85 Litres
Spray Rate	90 l/min
Pump	1hp
Water Heater	4kw
Power Requirements	4,75 kw
Voltage	230/400V
Phases	3 Phase
Load Weight	1500kgs
Timer	0 to 60 min
Cleaning Temperature	0 to 70°
Dimensions	1074 x 1190 x 1740mm
Dry Weight	80kgs

Additional Accessories

- Tank insulation
- Electro fan for steam outlet
- Level control and tank refilling
- Stainless steel pipes and basket
- Drain pump

Ordering*

HM1007: Rotary washer 780mm

HM1006: Hartclean cleaning solution (25ltrs undiluted)

*All items are CE marked

Shipping

Gross Weight: 450 kgs

Net Weight: 380 kgs

Case Size: 116 x 93 x 126 cms

Microdiesel Ultrasonic Tanks HM1003, HM1004 and HM1005

The **Hartridge™** range of Microdiesel Ultrasonic Tanks are supplied in three different sizes, 5.5l (HM1003), 9.5l (HM1004) and 20 (HM1005) tank capacity. The ultrasonic cleaning process depends on the rapid formation and violent collapse of minute bubbles in the cleaning fluid. The parts to be cleaned are placed in the wire container which is inserted in the tank full of cleaning fluid. High intensity sound waves are introduced into the fluid to produce the bubbles which form around the components and remove the dirt from the surface.

Main Features

- Choice of 3 different sizes.
- Wire basket/tank cover included as standard.
- Built in heater.
- Built in timer up to 60 minutes.
- Powerful 40 kHz transducer.

Benefits

- Can clean components without disassembly.
- Ideal for cleaning injector nozzles.
- Rapid cleaning 1 to 3 minutes and cleans dirt from difficult to reach crevices.
- Good at shifting stubborn carbon deposits giving consistent cleaning results.

TECHNICAL SPECIFICATION			
	HM1003	HM1004	HM1005
Tank Capacity	5.5l	9.5l	20l
Tank Dimensions	290 x 150 x 150mm	290 x 240 x 150mm	495 x 290 x 150mm
Outside Dimensions	399 x 371 x 318mm	399 x 371 x 401mm	599 x 376 x 467mm
Weight	4.9kg	5.9kg	11.8kg
Power Consumption	130w	185w	320w
Power Consumption (with heating)	335w	469w	881w
Frequency	40kHz	40kHz	40kHz
Plastic Tank Cover	✓	✓	✗
Stainless Steel Tank Cover	✗	✗	✓
Wire Basket	✓	✓	✓
Mechanical Timer	✓	✓	✓
Electrical Supply	1 Phase 110/115, 220/240v 50/60Hz	1 Phase 110/115, 220/240v 50/60Hz	1 Phase 110/115, 220/240v 50/60Hz
CE Marked	✓	✓	✓

Ordering*

- HM1003L:** 5.5 litre 230v ultrasonic cleaner
HM1003M: 5.5 litre 120v ultrasonic cleaner
HM1004L: 9.5 litre 230v ultrasonic cleaner
HM1004M: 9.5 litre 120v ultrasonic cleaner
HM1005L: 20 litre 230v ultrasonic cleaner
HM1005M: 20 litre 120v ultrasonic cleaner
HM1006: Hartclean cleaning solution (25ltrs undiluted)

Shipping

	HM1003	HM1004	HM1005	HM1006
Gross Weight	10 kgs	13 kgs	20 kgs	29 kgs
Nett Weight	9 kgs	12 kgs	28 kgs	28 kgs
Case Size	48 x 41 x 48 cms	48 x 48 x 48 cms	75 x 64 x 53 cms	48 x 48 x 55 cms

Microdiesel Cabinet HM1000

High Pressure Common Rail and EUI/EUP Fuel Systems are manufactured to tolerances which dictate that the highest standards of cleanliness must be maintained in diesel workshops. The Microdiesel Cabinet HM1000 is a clean air cabinet designed specifically for the assembly of diesel fuel injection equipment and enables diesel workshops to set up and maintain a clean area to achieve the highest standards of cleanliness.

Main Features

- The HEPA filter used in HM1000 is capable of particle filtration down to 0.5 micron.
- Equipped with high intensity lighting of the work area.

Benefits

- Equivalent to ISO-6 as specified for the manufacture of precision optics and gyroscopes.
- Designed to be installed on a standard workbench.
- Low running costs.

TECHNICAL SPECIFICATION	
Lighting	4 off 55w low energy strip lights
Electrical Supply	220/240 volt, 1 phase, 50Hz
Filtration	HEPA filter capable of 0.5 micron filtration equivalent to ISO-6
Dimensions (internal)	1165 x 735 x 620mm
Dimensions (external)	1275 x 1370 x 784mm

Installation Recommendations

It is recommended that the Microdiesel Cabinet HM1000 should be installed in an assembly area where the atmosphere is contained, this will prolong filter life. Air ventilation into the assembly area/room should be filtered to a minimum of grade F5 to EN779. The Microdiesel Cabinet HM1000 is designed to be mounted on a work bench of the following minimum size: Height 900mm, width 787mm, length 1275mm made from 40mm square tube.

Additional Accessories

- Folding door (Suffix D).
- Hydraclamp universal work mounting device (Suffix H).
- Tool rack (Suffix T).
- Stainless Steel Cabinet (Suffix SS complete with D, H and T).
- Support Bench (HM1012).
- Air flow meter to assess air flow and filter condition.

Ordering

HM1000M: Microdiesel Cabinet 230V

HM1000L: Microdiesel Cabinet 120V

HM1000SS: Stainless Steel

HM1000D: Folding Door

HM1000H: Hydraclamp

HM1000T: Tool Rack

Shipping

Gross Weight: 244kgs

Nett Weight: 176kgs

Case Size: 140 x 90 x 160cms

HM1009 Ultrarinse Tank

After components have been ultrasonically cleaned they need to be rinsed in another solution to remove any loose particles. Original Equipment Manufacturers typically call for a class (0) cleanliness specification for this operation. The Ultrarinse Tank HM1009 offers a low cost solution for this, both in the initial investment and running costs as the cleaning medium is standard calibration fluid filtered to 2 micron. Furthermore the Ultrarinse Tank provides the ability to carry out lubricated wet assembly which is a prerequisite of Original Equipment Manufacturers. The Ultrarinse Tank HM1009 has been designed to fit inside the Microdiesel Cabinet HM1000, which completes a full "clean room" and assembly station for the latest generation diesels. However, the tank will sit equally as well on a standard workbench and work as a stand alone unit.

Main Features

- Cleanses surface residue following ultrasonic cleaning.
- Prepares parts for re-assembly into pumps or injectors etc.
- Facilitates wet assembly.
- 9 litre capacity.

Benefits

- Enhances the use of the Microdiesel Cabinet HM1000.
- Affordable solution.

Ordering

HM1009 Ultrarinse Tank

Shipping

Gross Weight: 18kgs

Nett Weight: 12kgs

Case Size: 65 x 35 x 45cms

Microdiesel Hartclean Cleaning Solution

HM1006

This solution can be used in both the Microdiesel Rotary Washer and Ultrasonic Tanks at a ratio of 10% fluid / 90% water.

Contact your local **Hartridge™** distributor
for more detailed information or visit

www.hartridge.com



The Hartridge Building
Network 421
Radclive Road
Buckingham MK18 4FD
United Kingdom

Tel: +44 (0)1280 825600

Fax: +44 (0)1280 825601

Email: sales@hartridge.com

www.hartridge.com

Continuous development is taking place. **Hartridge™** reserves the right to alter the design and/or specification without prior notice.

© **Hartridge™** 2005