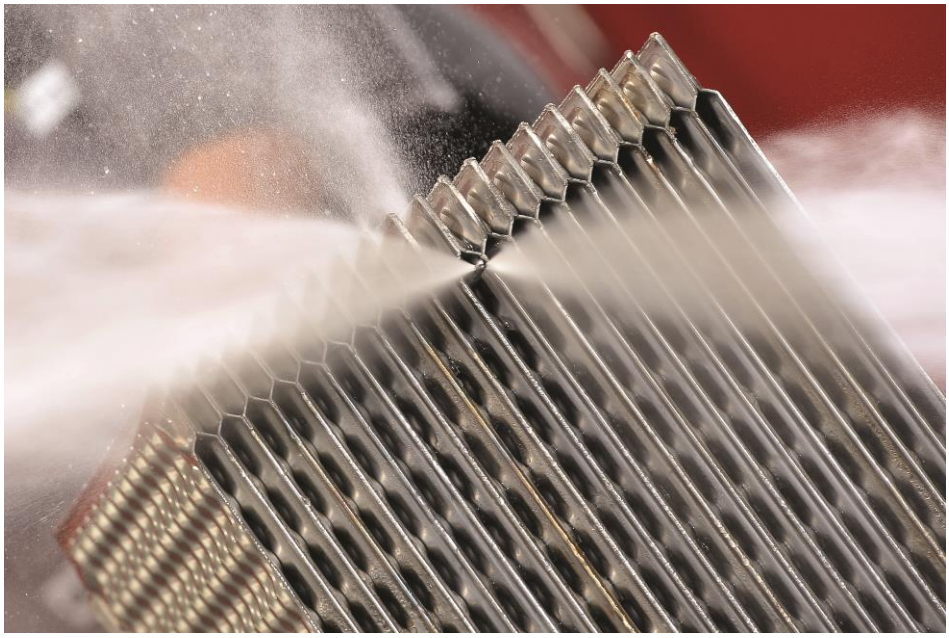


GEABloc® Cleaning Wand

General Operating Instructions

Thank you for purchasing your new GEABloc® Cleaning Wand! In order to provide for a long service life and safe operation, please review this manual in its entirety.

WARNING SYMBOLS AND DEFINITIONS	
DANGER	Indicates a hazardous situation which, if not avoided, **will** result in **death or serious injury.**
WARNING	Indicates a hazardous situation which, if not avoided, **could** result in **death or serious injury.**
CAUTION	Indicates a hazardous situation which, if not avoided, **may** result in **minor or moderate injury.**
NOTICE	Indicates a practice **not related to personal injury** which, if not avoided, **may** result in **property damage.**

SAVE THESE INSTRUCTIONS!

General Warnings and Precautions

1. Read all instructions before using this product.
2. Stay alert – watch what you are doing.
3. Do not operate while tired or under the influence of drugs, alcohol, or medications.
4. If using a step ladder while cleaning taller units, do not overreach or stand on uneven surfaces.

DANGER

RISK OF INJECTION, LACERATIONS, OR SEVERE INJURY. KEEP CLEAR OF NOZZLE. DO NOT DIRECT DISCHARGE STREAM AT PERSONS.

KEEP OPERATING AREA CLEAR OF ALL PERSONS. STAY ALERT DURING OPERATION AND STOP USE IMMEDIATELY IF OTHERS ENTER WORK AREA. UNDER NO CIRCUMSTANCES ALLOW OTHERS TO STAND ON OPPOSITE SIDE OF UNIT BEING CLEANED!

ALWAYS WEAR PROPER PROTECTIVE EQUIPMENT INCLUDING ANSI-APPROVED Z87.1 SAFETY GLASSES.

DANGER

Heat exchanger must be thoroughly flushed and any chemical contents neutralized. Any residual chemicals that remain in the exchanger could be sprayed back onto the user during cleaning operations causing potentially serious burns or reactions. If exchanger has been used with hazardous chemicals, suitable chemical suits must be used during cleaning operation.

DANGER

DO NOT FORCE, BEND, OR ABUSE THE EQUIPMENT: This equipment is under high pressure. If the tube or other components are cracked or broken, risk of rupture, impalement, or other bodily harm could be present.

INSPECT THE EQUIPMENT PRIOR TO EVERY USE:

If there are any cracks, kinks, bulges, or other deformations present cease use immediately. Pay special attention to the areas around the nozzle tip and where the wand attaches to the pressure washer.

WARNING

This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Wear gloves while operating and wash hands after handling.

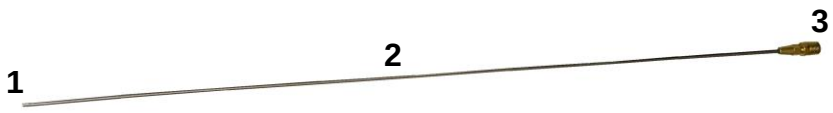
WARNING

RISK OF ELECTRICAL SHOCK: Spray directed at electrical outlets, switches, or energized equipment connected to an electrical circuit could result in a fatal electrical shock.

NOTICE

Avoid aiming the equipment at components other than the alloy core of the heat exchanger being cleaned. High pressure discharge may damage painted surfaces.

Component Diagram



1. Cleaning tip with spray nozzles (see Image 2)
2. Wand for insertion into heat exchanger
3. Pressure washer connector – ¼” FPT fitting

Operating Instructions

1. Attach the cleaning wand to pressure washer. Fitting is a ¼” FPT fitting. If this is not the standard that your pressure washer uses, use commercially available thread adapters. Use Teflon pipe tape on the threads of all fittings to ensure a leak-tight seal.
2. Attach water supply to pressure washer. Only feed cold, clean water through the pressure washer. If using detergents in the soap dispenser, ensure that they are listed for use in pressure washing equipment. Do not use unapproved chemicals!
3. Set pressure washer output pressure to a maximum of 1900 psi. Do not ever exceed this pressure! Use the lowest pressure setting needed to complete the job.
4. Power on or start engine of the pressure washer.
5. Slowly insert wand into each channel (see Image 1). Do not force the wand if resistance is encountered.
6. Push wand through the exchanger allowing it to exit the opposite side of the unit before pulling back and inserting into the next channel.
7. Repeat steps 5 and 6 for each channel until heat exchanger is clean.



Image 1



Image 2

SAFETY REQUIREMENTS OF PURCHASER.

Purchaser shall use, and shall train and require its employees to use and shall cause any end user to use, all safety devices, guards, and proper safe operating and maintenance procedures as prescribed by all applicable laws, rules, regulations, codes and standards and as set forth in operating and maintenance manuals and instruction sheets furnished by Seller. Purchaser shall not, and shall cause any end user not to, remove or modify any safety device, guard or warning sign.

If the Purchaser fails to strictly observe any of the obligations set forth in the preceding paragraph with regard to any of the Equipment, Purchaser agrees to defend Seller against, and indemnify and save Seller harmless from, any claim, liability or obligation (including the costs and attorneys' fees of any suit or claims related thereto) incurred by Seller as a result of persons being injured or property being damaged directly or indirectly in connection with the operation of such Equipment as a result of such failure. Purchaser also agrees to indemnify and save Seller harmless from, any claim, liability or obligation incurred by Seller as a result of persons being injured or property being damaged due to Purchaser's use of the Equipment for materials or products not specified in the Contract or use of non-original replacement parts not specifically authorized in writing by Seller or due to changes in the Seller equipment made by Purchaser without Seller's specific written authorization.

MATERIAL AND WORKMANSHIP WARRANTY.

Seller warrants to the Purchaser that the Equipment purchased from Seller is free from defects in material and workmanship. The warranty period shall be twelve (12) months from the date of Purchaser's initial operation using the Equipment but not more than eighteen (18) months from the date of delivery of the Equipment. Any warranty given by the Seller shall be subject to the following: (i) the Equipment is installed in accordance with Seller's specifications and instructions and is used and maintained normally and properly in accordance with Seller's instructions as to maintenance and operation, as set forth in written operation and maintenance manuals and instruction sheets furnished by Seller; (ii) the Equipment has not been changed without the prior written approval of Seller; (iii) Purchaser gives prompt written notice to Seller before the end of the warranty period specifying all alleged defects in the Equipment purchased; and (iv) Purchaser preserves and turns over to Seller and permits reasonable inspection by Seller of all allegedly defective Equipment, parts or items and access to the Equipment to observe its startup, operation and maintenance.

This warranty shall not cover (i) any equipment furnished by Purchaser or any third party (other than a subcontractor of Seller), (ii) any defects arising from corrosion, abrasion, use of unsuitable lubricants, freezing or other operation outside of prescribed temperature ranges, or negligent attendance or faulty operation, (iii) ordinary wear and tear (e.g., gaskets), or (iv) any defects caused by errors on the part of the Purchaser in not providing a suitable place in which the Equipment is to be located, adequate foundation works, or adequate protection against influences within or outside the place where the Equipment is to be located which may affect the Equipment or its operation (improper storage), or (v) the performance of any equipment sold by Seller under conditions varying materially from those under which such equipment is usually tested under existing industry standards. Notwithstanding the warranty set forth above, Seller shall not warrant any equipment, where the vendor of such equipment (other than Seller) is specified by Purchaser, for a period longer than warranted by the vendor.

UNLESS OTHERWISE EXPRESSLY STATED IN ANY DOCUMENT ATTACHED TO THESE TERMS AND CONDITIONS, THIS WARRANTY OF MATERIAL AND WORKMANSHIP IS THE ONLY WARRANTY MADE BY SELLER AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND SELLER DISCLAIMS ON BEHALF OF ITSELF, ITS SUBCONTRACTORS AND SUBSUPPLIERS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A SPECIFIC PURPOSE (OTHER THAN THE PURPOSE STATED IN THE PURCHASER'S SPECIFICATIONS SET FORTH IN THE CONTRACT), SUITABILITY OR PERFORMANCE. No other promise or affirmation of fact (including, but not limited to, statements regarding capacity or performance of the Equipment) shall constitute a warranty of Seller or give rise to any liability or obligation on the part of Seller.

Seller's obligation under this warranty and any other warranty or guarantee which is part of the Contract is strictly and exclusively limited to furnishing repairs or replacements for Equipment or parts determined to be defective on inspection by an authorized representative of Seller. Notwithstanding this exclusive remedy, if it is ultimately determined that the remedy fails in its essential purpose, then any action which may be brought against Seller subject to the terms of the contract will be limited to 100% of the contract price for the purchased Equipment for which the exclusive remedy has so failed. Seller assumes no responsibility and shall have no liability for any repairs or replacements by Purchaser without Seller's prior written authorization. If Seller did not originally install the Equipment, Seller shall have no liability for the costs of removing or segregating any defective Equipment so that the repairs or replacements can be made. If tests are requested by the Purchaser to determine the performance of the Equipment covered in the Seller's Proposal, the test procedure to be used must be acceptable to the Seller, and the Purchaser agrees to pay to the Seller the cost of any such test.

We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 index.

GEA Heat Exchangers

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