



Technology for Vacuum Systems

Mounting instructions

Retrofit kit exhaust waste vapor condenser Peltronic

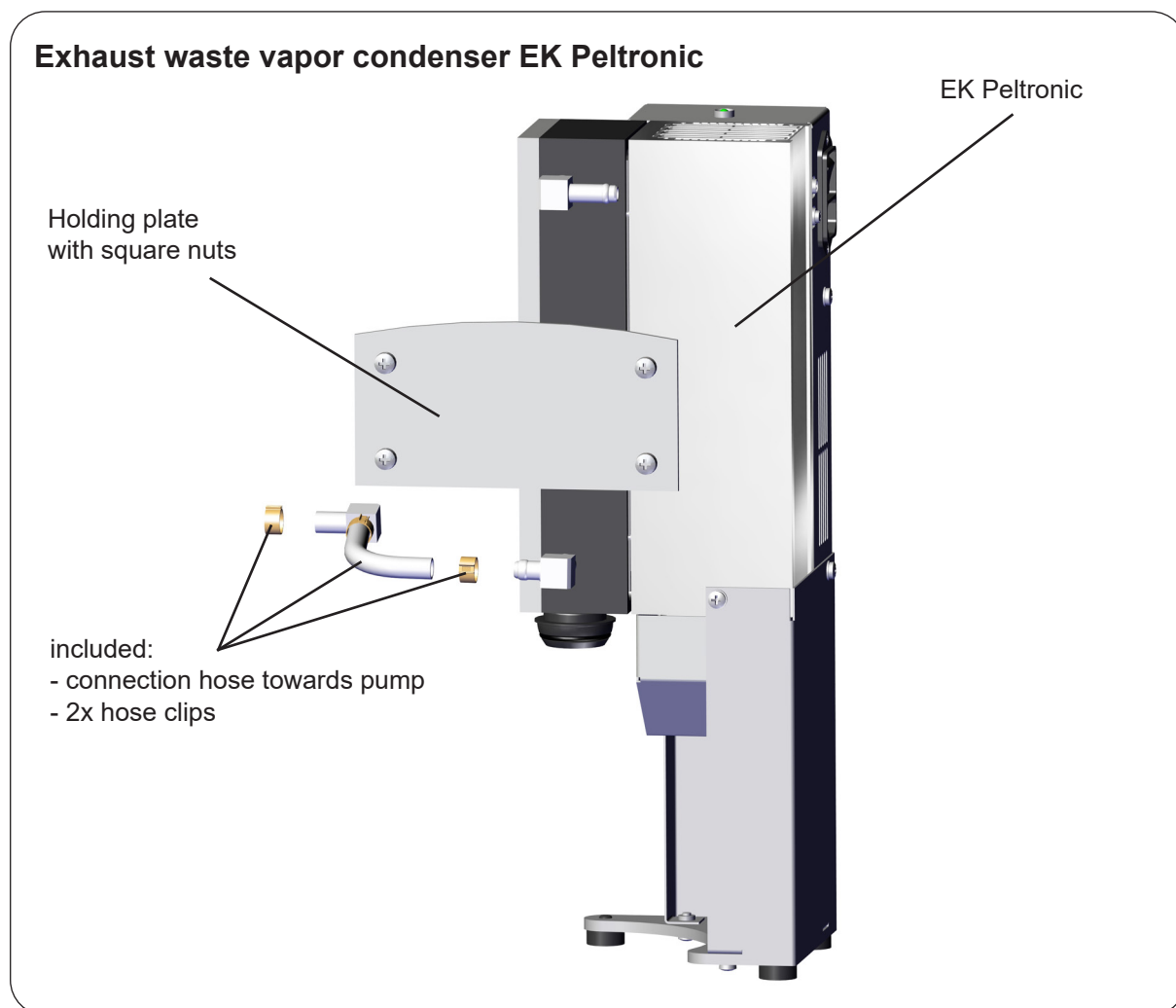
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Converting the pumping unit PC 3001 VARIO^{pro} / PC 3001 VARIO select into a pumping unit with exhaust waste vapor condenser EK Peltronic

These mounting instructions describe the conversion of a pumping unit PC 3001 VARIO^{pro} or PC 3001 VARIO select into a pumping unit with exhaust waste vapor condenser EK Peltronic.

Additionally read and comply with the instructions for use of the pumping unit PC 3001 VARIO^{pro} or PC 3001 VARIO select and the instructions for use of the exhaust waste vapor condenser EK Peltronic.



Tools required (metric):

- 4 / 5 mm wide Allen key
- Open ended wrench width 14 / 17 mm
- Phillips screw driver
- Flat pliers
- 2.5 mm wide slotted screwdriver

! DANGER



- ➡ Ensure that the pump cannot be operated accidentally. **Never operate the pump if covers or other parts of the pump are disassembled.**
- ➡ **Before starting maintenance** isolate the pump from the electrical supply and wait **two minutes** after isolating the equipment from mains to allow the capacitors to discharge. Avoid the release of pollutants. Allow sufficient cooling of the pump.
- ➡ **Attention:** The pump might be contaminated with the process chemicals that have been pumped during operation. Ensure that the pump is decontaminated before maintenance and take adequate precautions to protect people from the effects of dangerous substances if contamination has occurred.

! WARNING

- ⚠ Wear appropriate safety-clothing when you come into contact with contaminated components. Avoid the release of pollutants
- ⚠ Never operate a defective or damaged pump.
- ⚠ **Before starting maintenance** vent the pump and isolate it from the vacuum system.

NOTICE

Ensure that the maintenance technician is familiar with the safety procedures which relate to the products processed by the pumping system.

1. Disassembling the exhaust vapor condenser EK

- ➡ Isolate the exhaust vapor condenser from the coolant circuit.
- ➡ Remove the joint clips, remove the catchpots and drain condensate. **Important:** Comply with regulations when disposing of solvents/condensates. Reuse if possible, purify if contaminated.



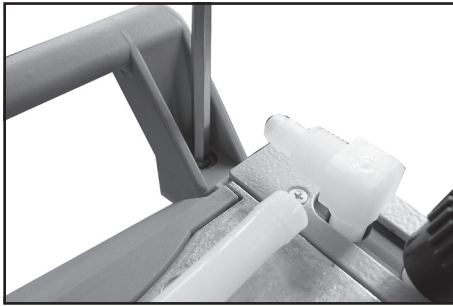
- ➡ Loosen the union nut at the inlet of the exhaust waste vapor condenser.



- ➡ Use an open-ended wrench (width 17 mm) to loosen the union nut at the hose connection next to the gas ballast.



- ➡ Use an open ended wrench (width 14 mm) to turn the elbow fitting 1/4 of a turn, disconnect the hose.
- ⚠ Do not remove the elbow fitting from the pump head. Through reassembly a leak may result.



- ➡ Use a 5 mm wide Allen key to unscrew the handle from one side of the housing cover.
- ⚠ Pay attention to the nut and the lock washer underneath.

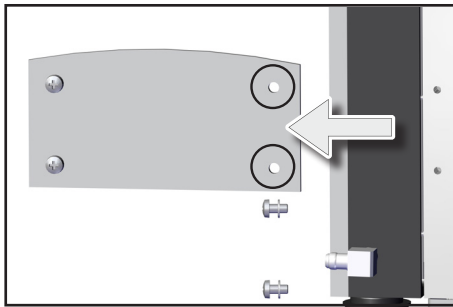


- ➡ Lay the pumping unit down with the housing cover at the side of the vapor condenser facing upwards (support pumping unit appropriately).
- ➡ Use a 4 mm wide Allen key to loosen the six socket head screws at the pump heads and remove the upper housing (housing cover with housing cover insert).
- ⚠ Pull the PTFE hose out of the inlet of the exhaust vapor condenser at the same time. Do not kink hoses.
- ⚠ Pay attention to valves and head covers. Remove head covers and valves.

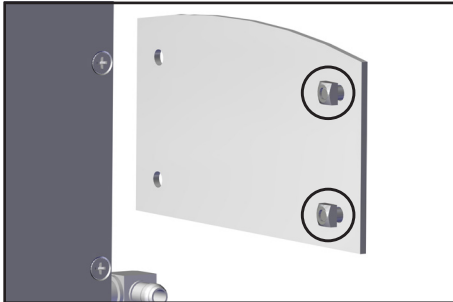


- ➡ Pull the holder upwards to extract the exhaust waste vapor condenser EK together with its holder from the support.
- ⚠ If necessary, use a rubber mallet carefully from below to extract the holder.

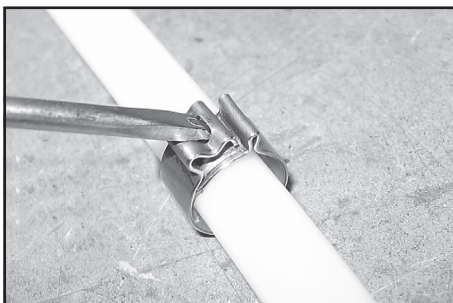
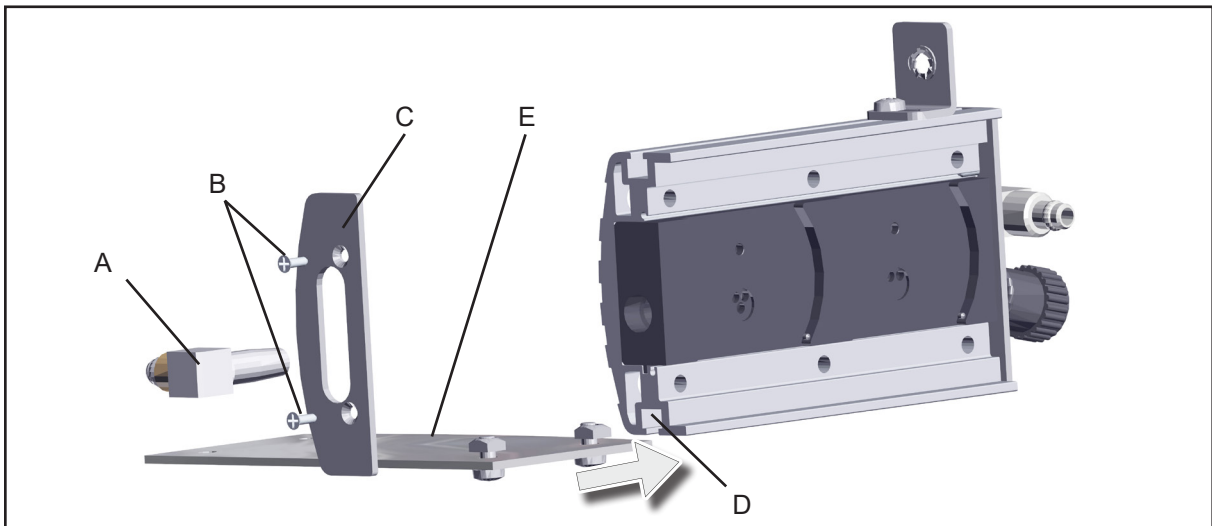
2. Mounting the waste vapor condenser EK Peltronic



- ➡ Disassemble the holding plate from the EK Peltronic.
- ➡ Remove the two Phillips head screws affixing the holding plate with a Phillips screwdriver and remove the holding plate.
- ⚠ Pay attention to washers.

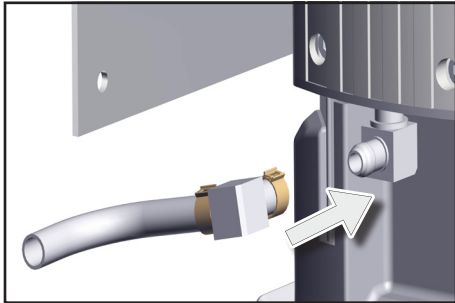


- ➡ Loosen both square nuts at the holding plate.
- ⚠ Do not remove the square nuts completely!

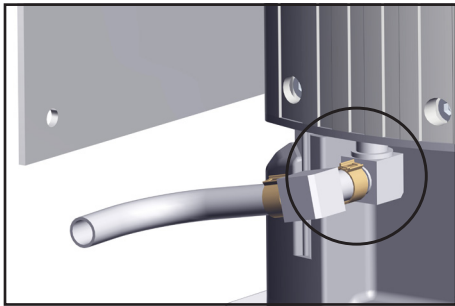


- ➡ Undo the connection of the hose towards the emission condenser at the elbow fitting (A) by opening the hose clip with a slotted screwdriver. Apply slotted screwdriver as shown and turn. Remove the hose from the elbow fitting.
- ➡ Unscrew the elbow fitting leading towards the emission condenser (A) from the housing cover.
- ➡ Loosen the two Phillips head screws (B; Phillips screw driver) at the side part (C) of the housing cover and remove the side part.
- ➡ Feed the holding plate with its two square nuts (E) into the groove (D) of the housing cover (groove next to the gas ballast valve).
- ➡ Assemble the side part again with the two Phillips head screws and screw the elbow fitting back into the housing cover.
- ⚠ Screw in the elbow fitting hand tight at first and then tighten by approx. another one and a half turns using an open ended wrench.

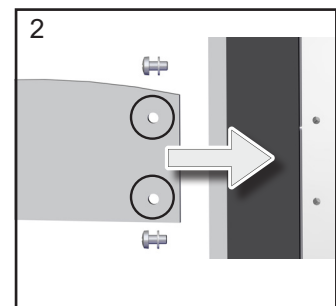
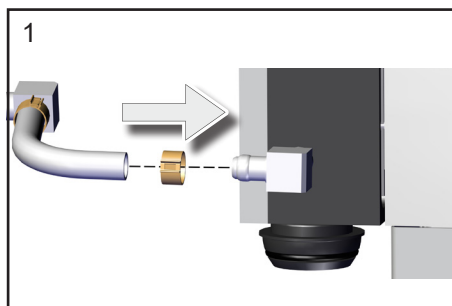
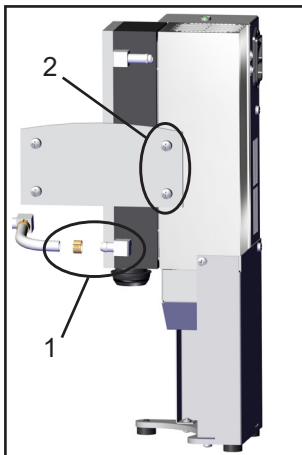
- Assemble head covers, valves and housing cover (see section "Replacing diaphragms and valves" in the instructions for use of the pumping unit PC 3001 VARIO^{pro} or section "Cleaning and maintenance" in the instructions for use of the pumping unit PC 3001 VARIO select).
- Assemble connecting hose and handle (see section "Replacing diaphragms and valves" in the instructions for use of the pumping unit PC 3001 VARIO^{pro} or section "Cleaning and maintenance" in the instructions for use of the pumping unit PC 3001 VARIO select).



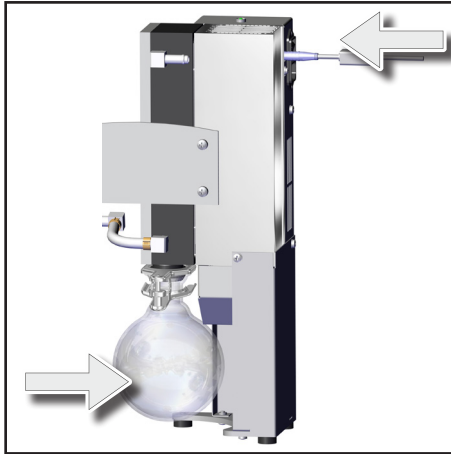
- Slip the elbow fitting of the connection hose (included in shipment) and a hose clip (also included) onto the elbow fitting of the pump.



- Close the hose clip with flat pliers.



- Place the exhaust waste vapor condenser EK Peltronic next to the pump.
- Slip the connection hose onto the hose connection of the EK Peltronic and fix with hose clip (1). Close hose clip with flat pliers.
- Assemble the holding plate to the EK Peltronic (2).
- Fasten the two Phillips head screws with a Phillips screwdriver.
- ⚠ Pay attention to washers.



- ➡ Plug the VACUU-BUS connection cable to the controller into the socket at the EK Peltronic.
- ➡ Insert the VACUU-BUS cable underneath the housing of the pump and plug into the controller.
- ➡ Assemble the catchpots using joint clips.

Read and comply with the instructions for use of the pumping unit and with those of the exhaust waste vapor condenser EK Peltronic!

PC 3001 VARIO^{pro} EK Peltronic



PC 3001 VARIO select EK Peltronic



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