Instruction Sheet

PN KI1007A

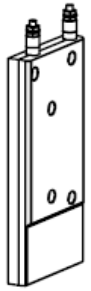
ProBlue® Heater-block Kit - KNS0045 andKNS0046

This instruction sheet describes the procedure for replacing a manifold heater.

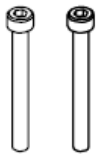
WARNING: Risk of personal injury or equipment damage! Refer to the safety information provided in the melter manual before servicing the melter. Failure to comply with the safety information provided can result in personal injury, including death.

Required Tools:

4-mm hex wrench
6-mm hex wrench
$^{5}/_{16}$ in. open-end wrench (2 required)
Small flat-tipped screwdriver

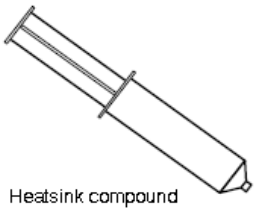


Heater block



M5x25mm screws

M5 lockwashers



Heatsink compound

Prepare the Melter

1. Relieve the system hydraulic pressure. Refer to the melter product manual for information on relieving hydraulic pressure.

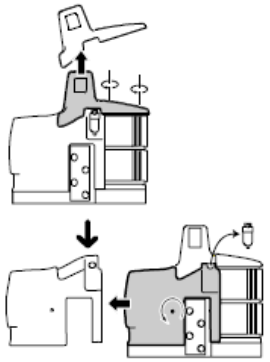
WARNING: Risk of electrocution! The manifold heater terminals carry high voltage. Before removing the back panel, ensure that power to the melter is disconnected at the local power disconnect. Failure to properly disconnect power from the melter can result in personal injury, including death.

2. Switch the melter off.

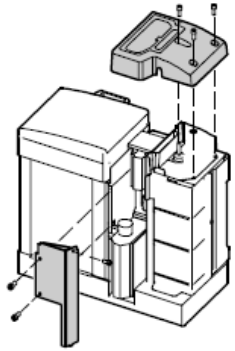
3. Disconnect power to the melter at the local power disconnect switch.

Attention:
This kit contains a heatsink compound that can cause skin and eye irritation. The Material Safety Data Sheet (MSDS) for this material may be obtained by contacting the manufacturer Aremco Products, Inc. 845-268-0039 or www.aremco.com.

4. Open the filter access door, and then remove the top panel (P4/7/10) or the pump cover (P15/30/50), and then remove the back panel.



Panel Removal – P4/7/10



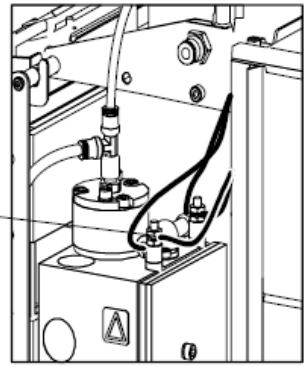
Panel Removal – P15/30/50

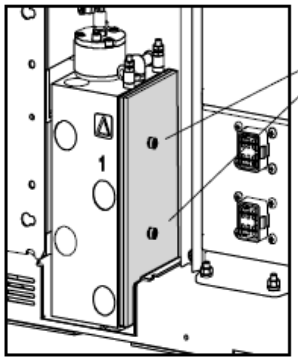
Replace a U-shaped Manifold Heater with a Heater-block

Note: P4 double-acting system shown.

CAUTION: Use two wrenches, one on each terminal nut, when disconnecting the heater terminals. Using only one wrench can result in damage to the heater.

1. Disconnect the leads from the heater terminals.

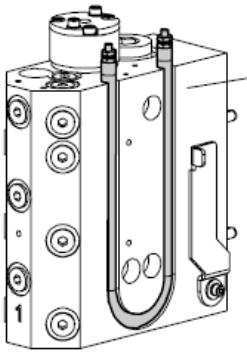




2. Remove and discard the two M5 screws, lock washers, backup plate, and insulator plate.

Continue

ATTENTION: The U-shaped heater MUST be removed from the manifold before installing the new heater block. Failure to remove the U-shaped heater will cause the heater block to fail.



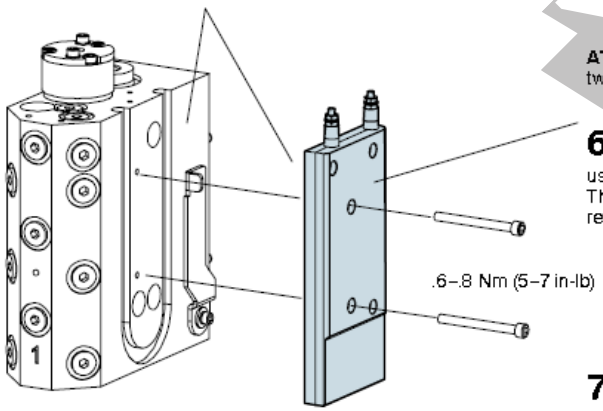
(P10 manifold shown in this view)

3. Insert a narrow flat-tipped screwdriver between the top of the U-shaped heater and the manifold, and then pry the U-shaped heater out of the manifold.

CAUTION: The melter manifold surface MUST be smooth and free of residual material (insulation, charred adhesive, etc.) before mounting the heater block. Failure to do so will cause the heater block to fail.

4. Remove residual material/insulation from the face of the manifold.

5. Apply heat sink compound (provided in the kit) on the face of the heater block. Spread the compound out to evenly coat the entire contact surface between the manifold and the heater-block.



ATTENTION: For proper thread engagement, use the two new (longer) M5 screws provided in this kit.

6. Attach the new heater-block to the face of the manifold using the two new M5 screws and lockwashers provided. The remaining three screw positions are not used when retrofitting a heater block to a unit with a U-shaped heater.

7. Complete the installation of the heater-block by reversing steps 1 above and all steps of Preparing *the Melter*.

ATTENTION: Installing a heater-block on a manifold that does not have a U-shaped heater groove

When replacing a heater-block on a melter that does not have a U-shaped heater groove, it is necessary to shift the electrical enclosure (not remove) to gain access to the all of the screws that secure the heater-block to the manifold.

To shift the electrical enclosure:

(1) Remove the four nuts from the threaded posts that protrude up through the base of the electrical enclosure. Two of the posts are located just inside the electrical enclosure, and the remaining two posts are located at the back of the melter, just below the hose/gun modules. See the illustration below.

(2) Remove the input air fitting, and then separate the cross-bracket from the electrical enclosure

(3) Lift, and then shift the enclosure away from the manifold.