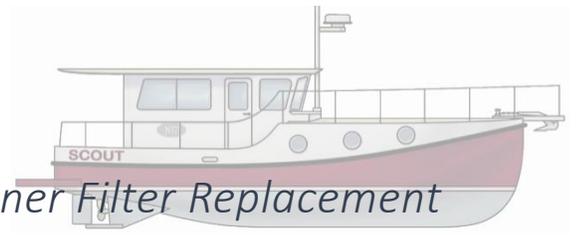


SCOUT Projects: *Air Conditioner Filter Replacement*



m/v SCOUT (Great Harbour N37)

Ray and Lisa Henry

Description

An easier-to-replace filter upgrade for the on-system air conditioner. Several issues prevented us using a filter at the wooden intake register upstream of the condenser unit.

Parts Ordered

1. Vinyl siding "J" channel section



2. Cut-to-size mesh filter (~1/4-1/2" thick)



3. Very High Bond (VHB) double-sided tape



Design

The metal frame where the manufacturer filter is located is wide enough to tape a three-sided frame of the J-channel to, sealing it tightly to the intake condenser.

I cut a three-sided “U” shaped assembly of the J-channel to use on the air conditioning condenser frame after removing the old filter (the aluminum filter sleeves were left in place). The sections were measured and cut to exactly fit the metal frame of the condenser. The corners were rounded to allow them to mate at the corners



Channel Sections Cut

I used the double-sided tape to build the slotted “U” for the filter to slide down into, sticking it to the aluminum frame. Make sure the aluminum surface is VERY clean with acetone, alcohol, or both. Doesn’t hurt to wipe down the J-channel as well.



Channel Sections Taped In Place

Next, measure the channel width and cut the filter to fit inside with plenty of margin so that it is a snug fit.



Cutting Mesh Filter

Completion

The filter slides down in the U-channel



New Filter

Do-Overs and Comments

I found that the top edge of the filter material would bow out a bit and not seal to the top (partially visible in the previous picture).

To help with this, I cut another piece of J-channel to fit along the top edge of the filter. It is not taped down, and it slides in at the face of the filter material – it only serves to make the top edge rigid and press it against the condenser frame. It just slips off when it is time to clean/change the filter.

