

HexWrap®

Heat Exchanger Insulation

Installation Guide

There are two HexWrap® insulation types available depending on the application. For below ambient exchangers, where condensation will normally occur on the surface, closed-cell foam is used under the PVC jacket. For above ambient exchangers, open cell foam is used which can withstand 350° F continuous and 400° F intermittent surface temperatures.

The HexWrap® insulation pieces are pre-cut at the factory as much as possible to provide for a quick installation. Due to varying conditions in the field regarding piping and hookups, some trimming may be required to get a good fit. The jacket and insulation are very easy to trim using a sharp knife and/or scissors. Depending on the heat exchanger application, some holes locations may be marked on center but not cut out. These will require a compass to layout the cut after measuring the actual pipe diameter at your location.

Materials Included:

HexWrap® insulation kits include: silicone sealer, contact adhesive, thumb tacks, (4) 12" lengths of pipe insulation, pre-printed decal, installation guide, and self-adhesive jacket strips.

Installation:

1. Install the rear plate insulation

Test-fit the insulation and trim any additional notches as required. The insulation should be flush with the top and sides of the rear plate. (It does not need to be flush with the bottom edge but it should be within an inch or so.) On hot applications, (over 140° F) the jacket will need to be trimmed back 3/8" from any hot surface so the jacket does not deform from the radiated heat. The insulation is held in place using contact cement supplied with the kit. Spray or brush the exchanger surface with contact adhesive and press the insulation in place being careful to align the cutouts properly. *See Photo 1

2. Install the front plate insulation

Install in the same manor as the rear plate insulation. You may have to make small slits in the jacket to install it around existing pipes. (Self-adhesive jacketing strips are supplied in the kits to seal these slits once the insulation is in place.) Test fit the insulation, trimming as required. Remember, on hot applications, the jacket must be trimmed back 3/8" from any hot metal surface to prevent deforming the jacket. Apply the contact cement supplied with the kit to the exchanger surface and install the insulation. The insulation should be flush with all edges except the bottom where it should be several inches from the floor. If you had to make slits to fit the insulation around existing pipes, use the supplied self-adhesive jacket strips in the kit to seal the slits. Cut the material to length, peel the protective liner, and then press in place over the slits. **See Photo 2*

3. Install both side insulation pieces

No contact adhesive should be required. The Velcro® fastening system allows for minor adjustments over the life of the exchanger as the unit may be expanded or contracted slightly due to plate changes or gasket work. On hot applications, be sure to trim back a minimum of 3/8" of any jacket material which could deform if too near a hot surface. **See Photo 3*

4. Install the top insulation piece

No contact adhesive should be required. Slight trimming may be required to prevent the jacket from deforming on hot applications. Fold over the top Velcro® flaps and pull gently to smooth out the seams. Fold over the corners and use an insulation thumbtack to hold the folded corner flat if needed. You may cut away the excess corner material for a smoother fit but in the future if the unit is expanded or contracted the fit will not be as good. We recommend just folding the excess material under such as when gift-wrapping a box. The thumbtacks will help hold the material corner flaps down. **See Photo 4*

5. Seal joints that will be exposed to water

For locations where water could enter the insulation from rain or wash down conditions we strongly recommend using GE 6708 silicone sealer to caulk all areas where water could enter. The silicone sealer has a service temperature of up to 400° F. Also caulk around the various bolt and pipe cutouts. Caulking is not required indoors unless there would be a chance of water or liquids being sprayed on or near the exchanger. **See Photo 5*

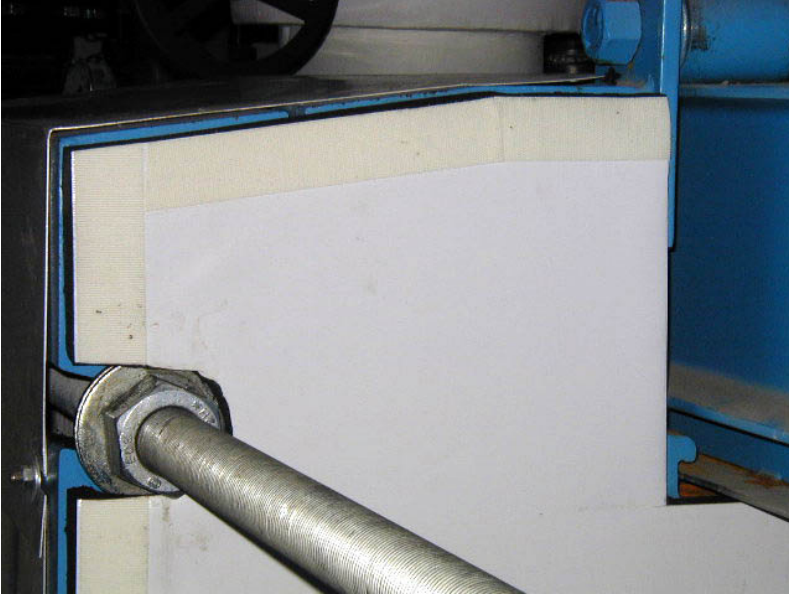


Photo 1 – Rear Plate

Trial fit before applying with contact cement. Insulation should be flush with top and sides plus allow for cutouts for any bolts and rails. Keep jacket material away from hot surfaces by trimming back a minimum of 3/8". Use masking tape to temporarily hold the insulation in place while checking the fit.

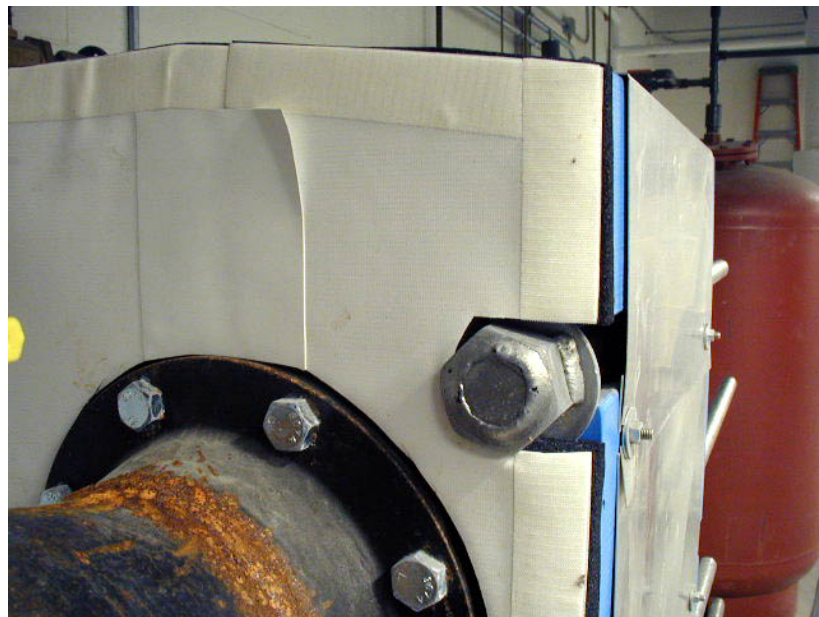


Photo 2 – Front Plate

Trial fit before applying with contact cement. Insulation should be flush with top and sides plus allow for cutouts for any bolts and rails. Keep jacket material away from hot surfaces by trimming back a minimum of 3/8". If the unit has already been piped, small slits may be required to fit the insulation around existing pipes. Cover the slits with the supplied self-adhesive jacket material.



Photo 3 – Side Pieces (2)

Install the two side pieces with insulation flush to the top edge. No contact cement should be required. Pull the insulation snug on each side and work your way down the unit. Keep the jacket material away from any hot surfaces by trimming back a minimum of 3/8”.

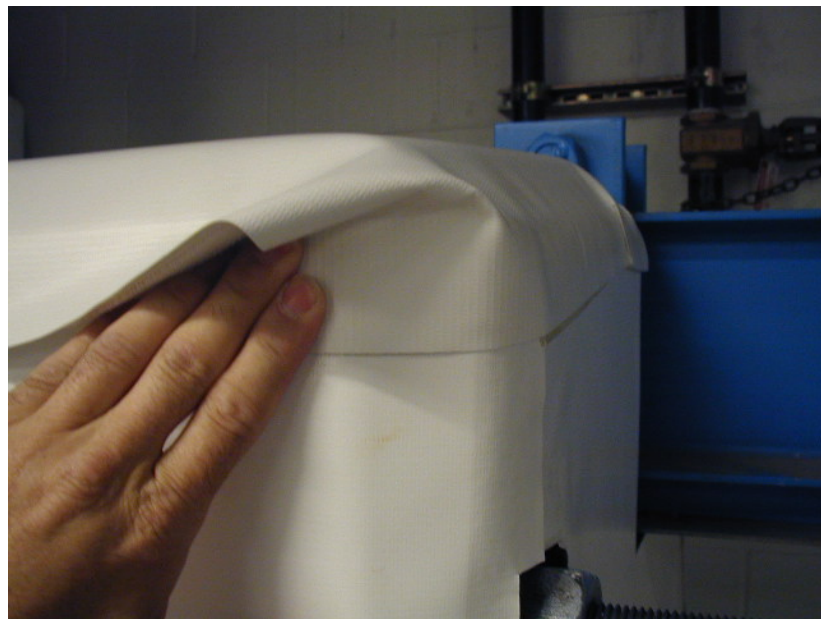


Photo 4 – Top Piece

Install the top piece with the overhanging material evenly divided on all sides. No contact cement should be required. Pull the insulation snug on each side and work your way around the unit. Keep the jacket material away from any hot surfaces by trimming back a minimum of 3/8”. Pull the jacket material tight and fold the edge under as shown in the photo.

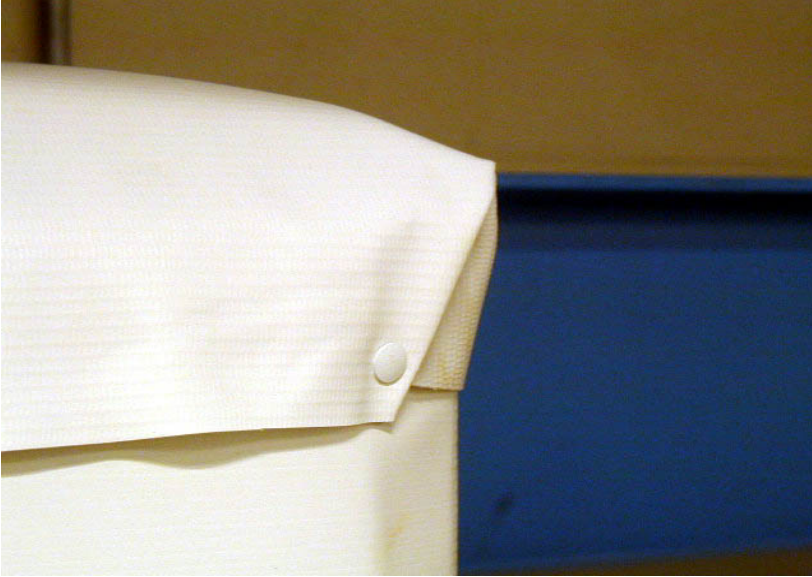


Photo 5 – Final Fitting

Fold the front flap over the side flap and push a tack through the jacket to hold the corner in place. In outdoor or wet environments, caulk around any opening where water could enter with GE RTV 6708® silicone sealer. The silicone will withstand temperatures up to 400°F.

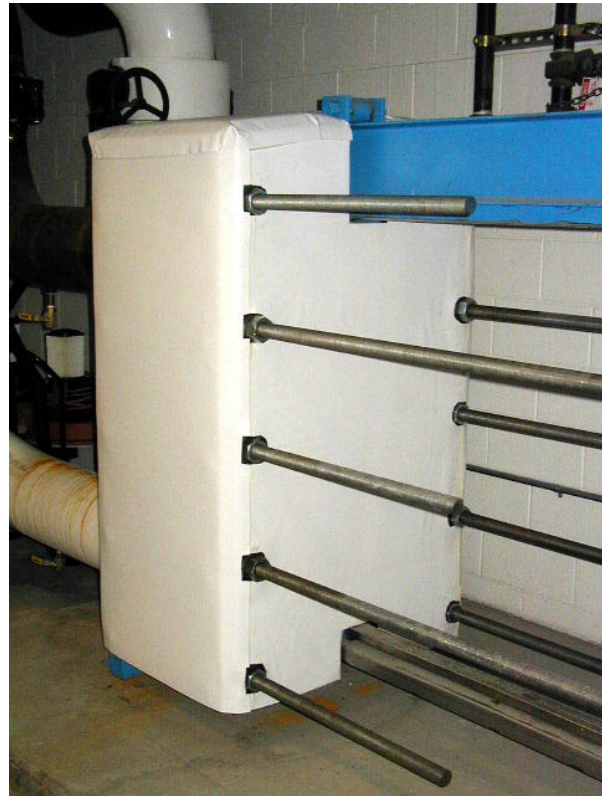


Photo 6 – Finished Installation

The completed insulation package is ready for service. Please contact the factory for any questions concerning your installation.