

Working with T-Tubes

T-Tubes Clean Environment Insulation are composed of molded straights, tees and elbows, each created as a one-piece "clamshell" design. They are made from ZOTEK F Kynar PVDF foams, which are fully closed-cell and create very low particulates. Hence, T-Tubes do not require additional jacketing, and can be cut and installed in a live cleanroom without the use of tents or bags.

Standard straights come with an overlapping pressure sensitive tape already applied.

Tools

Only basic tools are required to install T-Tubes.

Scissors
Straight edge cutter
Pen

Cutting T-Tubes

Scissors or a straight edge cutter works best to cut T-Tubes down to size. To eliminate any gaps, cut pieces slightly oversized in length.

T-Tubes do not particulate and can be cut inside live clean environments without additional containment measures (tents, bags, hoods, etc.)

Application for Personnel Protection and Heat Conservation

The simplest and fastest way to install T-Tubes for heat conservation and personnel protection is by using the durable tape they come with.

Straights already have tape applied on one side.

- Peel off liner
- Pull both ends of foam together to cover stainless tube completely
- Run hands over tape and apply pressure to smooth it over foam
- For straight runs longer than 12", cut a vertical slit on tape at 6" intervals. Applying tape this way, at small stretches at a time, helps avoid self-sticking.

Elbows and tees require the use of ¾" wide tape on seams. This tape is a narrow version of the same tape used on straights. Peel, place on fittings and apply pressure.

Butts are to be joined with 1 ½" wide tape, which is also provided in rolls.

Application for Condensation Prevention and Cold Conservation

Airtight sealing of seams and butts is essential for condensation prevention on cold lines. Our Kynar-compatible adhesive/sealant bonds to T-Tubes and fills gaps, creating a sound seal. It is flexible and will not crack when stressed.

- Lay a bead of sealant on seams and butts
- Install as indicated above using tape over sealant
- There is no need to remove tape once sealant cures

As an option, where tape is not desired, a low tack removable tape or cable ties can be used until sealant fully cures.