

**MINI SPLIT LINE SETS SPECIFICATIONS**

MODEL #	FITS MINI SPLIT MODEL	DESCRIPTION L=Liquid S=Suction W=Wall	LENGTH	SHIPPING WEIGHT
LS14381415	RAS-09 KFR-09 KFTHP-12 KFMHP-18	1/4”L x 3/8”S x 1/4” W	15	8.5
LS14381430	RAS-09 KFR-09 KFTHP-12 KFMHP-18	1/4”L x 3/8”S x 1/4” W	30	9
LS14121415	KFS-12 KFR-12 KFR-18 KFI-09 KFH-12 KFIHP-09 KFHHP-12 KFGHP-09 KFGHP-12 KFTHP-18 KFMHP-24	1/4”L x 1/2”S x 1/4” W	15	5.5
LS14121430	KFS-12 KFR-12 KFR-18 KFI-09 KFH-12 KFIHP-09 KFHHP-12 KFGHP-09 KFGHP-12 KFMHP-24	1/4”L x 1/2”S x 1/4” W	30	11
LS38581415	KFR-24 KFH-18 KFHHP-18 KFHHP-22 KFGHP-18 KFGHP-24 KFTHP-24	3/8”L x 5/8”S x 1/4” W	15	8.5
LS38581430	KFR-24 KFH-18 KFHHP-18 KFHHP-22 KFGHP-18 KFGHP-24 KFTHP-24	3/8”L x 5/8”S x 1/4” W	30	16

**Note:** These are copper line sets **both liquid & suction lines insulated** with 1/4’ rubber insulation tubing suitable for DX and/or heat pump. Each end has **female flare connectors attached**.



## **Soleus International Inc.**

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### **TECHNICAL BULLETIN LINE SET OUTDOOR APPLICATIONS**

Use of Soleusair's flexible rubber insulation [contained on our copper line sets] product outdoors may require special installation recommendations to prevent unacceptable degradation from ultra-violet (UV) exposure.

Soleusair's rubber insulation is produced from UV resistant materials. For **moderate** UV exposure applications such as residential, no additional protective coating or jacketing is required for many years of service. However, for **severe** UV exposure [roof top applications] or where optimum performance is required, it is recommended that the insulation be coated with a protective coating material or jacketing as required for the conditions.

It is difficult to determine outdoor service life of the rubber insulation due to the wide range of environmental conditions that may be encountered. In addition to the harmful rays of the sun, other factors such as damage from maintenance workers, wildlife and weather conditions must also be factored in. Protective coating/ jacketing provide more than just protection from UV degradation.

Accelerated UV aging studies are difficult to correlate to actual outdoor exposure because of the wide range of potential exposures for various applications and in different parts of planet Earth. In addition, there are no industry accepted performance criteria by which to determine if a product is meeting expectation or not. As such, Soleusair is not able to provide any type of specific life expectancy for our products when used outdoors.

Some states (CA, TX, FL, etc) have recently made changes to their building codes as a result in mandates to improve energy savings, revising wall thickness requirements for some applications from 3/8" to 3/4" or even 1" on some outdoor applications. These changes are state by state and in some cases even dictated at the local level. The codes have always stated that outdoor applications require the material to be protected from UV exposure. Some of the new codes now state: "should be protected from UV exposure unless the product is produced from UV resistant material". This new wording poses a major problem in that the term "UV resistant material" is not defined. It is similar to the terms biodegradable or hypo-allergenic. Without specific definition or test methods, these terms are practically useless. As a result, Soleusair is reluctant to put the term "UV resistant" on its insulation because of the potential for misunderstanding. In some application (as noted above) the product will perform to typical expectation but in severe UV exposure applications or where other factors may enter into the conditions the product will be exposed to, it may not perform to expectation unless it is protected.

Soleusair feels it is better to provide a conservative recommendation along with information on which our customers can make an informed decision.

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