

Technical Data Sheet — 180° Reversing Fitting

Product Description

The reversing fitting is a change-of-direction adapter. It is a pre-assembled refrigeration connection that allows the orientation of the copper line in the indoor unit of a split air conditioner to be modified. Its main function is to facilitate connection to the unit's original pipe, avoiding the need to manually make a pronounced 180° bend in the factory pipework.



This type of solution is especially useful when the outlet of the pipes from the indoor unit is not favourably oriented in relation to the actual installation route. By incorporating a pre-shaped component, installer manoeuvrability is improved, stress on the copper pipe is reduced, and the risk of restricting the refrigerant flow is minimised.

Materials and Construction

- **Main body:** copper tube, a material commonly used in refrigeration circuits due to its conductivity, corrosion resistance, and compatibility with HVAC installations.
- **Nut and connector:** brass, a resistant material suitable for threaded connections in refrigeration and air conditioning systems.
- **Connection type:** flared connection, designed to provide proper seating and a secure seal through mechanical tightening.
- **Finish:** factory-made flare, with uniform geometry to facilitate a clean, stable, and professional connection.

Main Advantages

- Avoids extreme bends in the original pipes of the indoor unit.
- Reduces the risk of restriction, crushing, or deformation of the copper pipe.
- Facilitates change of direction in installations with limited space or unfavourable routing.
- Improves installation speed as it is a ready-to-connect component.
- Helps achieve a cleaner, safer, and more professional installation.
- Flared connection prepared for precise tightening with a brass nut.
- Suitable for installation, repair, modification, or adaptation work on refrigeration lines.

Reference Table

Reference	Size	Description
4693014000	1/4"	Hecapo reversing fitting, for changing direction in split indoor unit installations
4693038000	3/8"	Hecapo reversing fitting, for changing direction in split indoor unit installations
4693012000	1/2"	Hecapo reversing fitting, for changing direction in split indoor unit installations

Installation Recommendations

- Check that the adapter size exactly matches the diameter of the installation pipe.
- Verify the condition of the flare and clean the contact surfaces before assembly.
- Align the component correctly to avoid mechanical stress on the thread and pipe.
- Tighten using the appropriate tool, avoiding both insufficient tightening and excessive torque.
- Once the component has been installed, perform the usual leak-tightness and vacuum tests on the refrigeration circuit according to the installer's procedure.

Technical Notes

Flared connections are widely used in air conditioning and refrigeration systems because they provide a removable mechanical joint without direct soldering at the connection point, provided that the seat, thread, and tightening are correct. The quality of the flare is essential to achieve a leak-tight joint, prevent refrigerant leaks, and maintain system performance.

This adapter provides a practical solution when the original split unit pipe is in a constrained position, as it allows the direction of the line to be changed without forcing the factory copper pipe. This protects the installation, improves the final finish, and reduces the risk of later issues caused by restriction or poor refrigerant circulation.