

Drier: Installation process

SandenVendo September 2021

This document describes the conditions for installing a drying filter with a Sanden CDU Condensing Unit

Installation conditions of the drier with a Sanden condensing unit

The installation of a drying filter becomes mandatory with the installation of a Sanden CDU-L and CDU-M condensing unit.

- CDU-L: 2 cold loops, therefore 2 dehydrators
- CDU-M: 1 single cold loop, therefore 1 dryer on the suction lines.

The validated drier model is the reference DANFOSS DMT083S (manufacturer ref 023Z8409)

- For transcritical R744 application (up to 140bar)
- diameter 65mm
- length 110mm
- 3/8'' connection to be soldered



Installation conditions of the drier with a Sanden condensing unit



- **Respect the flow direction of the refrigerant in the drier.**

(See next page for soldering conditions.)

Properly isolate the drier after installation (50mm)

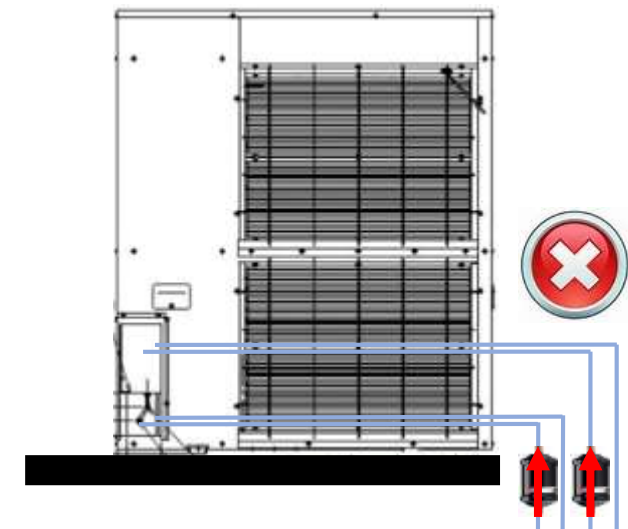
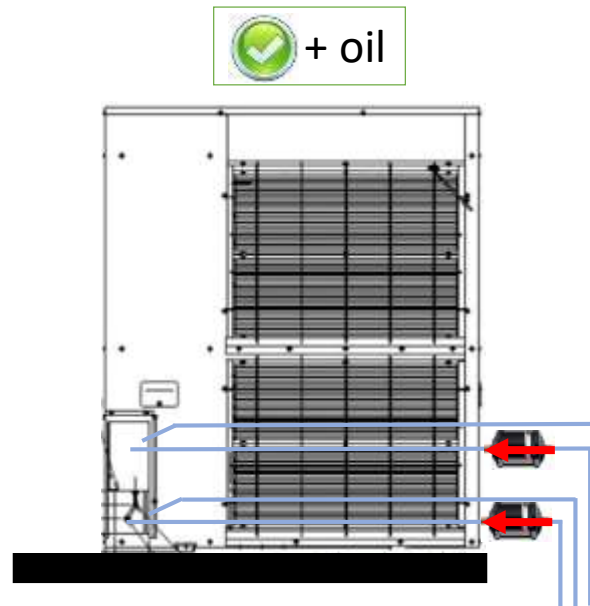
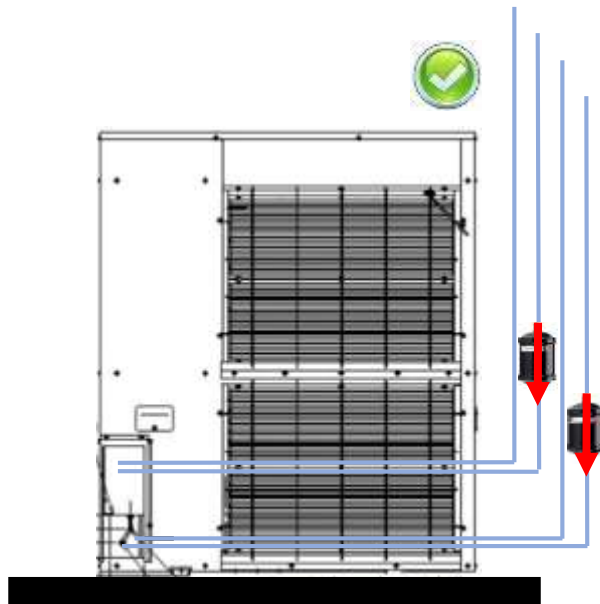
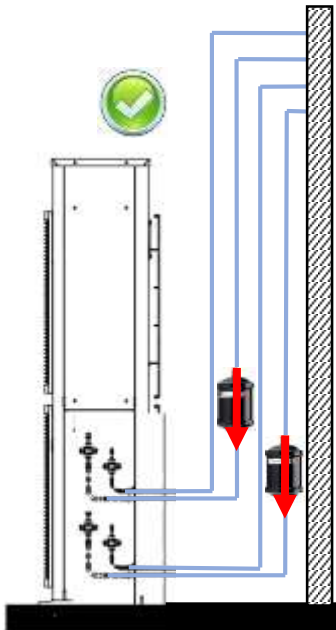


- **Install the drier only on the suction line of the condensing unit.**

- Preferably install the dryer in a vertical position, with the flow direction of the refrigerant descending from the top to the bottom. Closest to the unit.

- If the installation described in the previous point is not possible, install the drier in the horizontal position and add 80cc of PZ68-S oil

- Do not install the Ascending Flow Dryer.

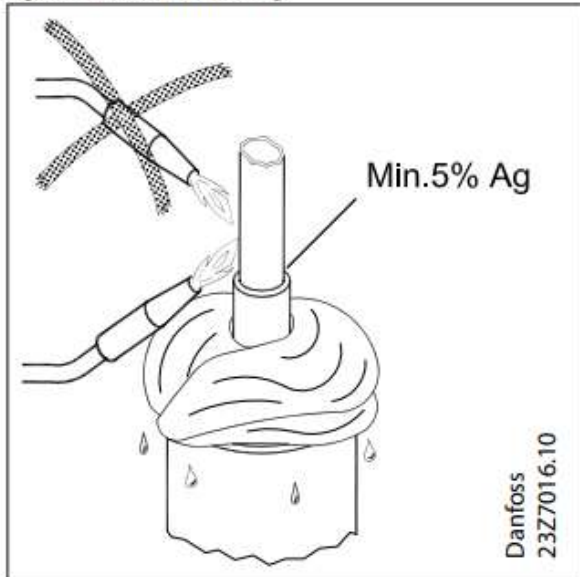


Installation conditions of the drier with a Sanden condensing unit

Hermetic filter drier, Type DMSC and DMT

Filter Driers –Installation Warning

Figure 7: Installation Warning



NOTE:

Keep flames away from body

- When soldering, only apply heat to the connection with the flame pointed away from the filter drier
- Excess heating of the paint may damage it
- When soldering is important to use a wet rag
- Use wet wrap when installing
- Braze the joints
- Let them cool down
- Clean the welding area after the installation (remove remaining flux with a brush)
- This is an important operation and needs to be done with great care to remove all remaining flux
- Paint\Anti-corrosive needs to cover all open steel parts, areas where the black original paint has been burnt due to brazing and at least 3 cm approx of the copper tube
- Paint the joints twice