

# *Oil PZ68S filling procedure for SANDENVENDO condensing unit*

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3. Filling procedure

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Condensing unit 100% CO<sub>2</sub>

## ECO-FRIENDLY REVOLUTION

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## 1. Oil specifications

- **Oil** : 32450621 DAPHNE HERMETIC OIL PZ68S
- **SANDEN VENDO reference** : 145303
- **SANDEN VENDO can volume** : 100ml
- **Maker** : IDEMITSU
- **Density** : 1gr/cm<sup>3</sup> (at 15°C)
- **Viscosity**: 68,73mm<sup>2</sup>/s ( at 40°C)
- **Safety data sheet** : available upon request

\* The Oil can is for single use only and should be discarded after opening

## 2. When additional oil filling is required and in what quantity?

- Here are the different situations when additional oil filling is required:
  - When the filter drier(s) is/are mounted in horizontal position  
( cf *Drier Installation process guide*)
  - When the piping tubes length &/or the total volume of evaporators are bordering the maximum manufacturer specifications  
( cf *CDU technical guide*)
  - When replacing or adding new cabinet or cold room.
  - When important leakage has been detected into the system.

Situations	Adding oil quantity
Filter drier in horizontal position	50ml per loop
Piping length & Evaporator Volume closed to the maximum specifications	Contact SandenVendo
Replacement or new cold room	Contact SandenVendo
Important leakage	100ml per loop

- The condensing unit are already filled in the factory with 350ml of oil , in any other situations (as above), no need to add oil.
- On a new installation, in order to avoid any damage to the compressor motor, do not add more than 80ml of oil per circuit.

## 3. Filling procedure

Topping-up the oil in the condensing unit should **only be done with PZ68S oil**.

The use of other type of oil may cause component breakage and the product warranty will be declared void.

This top-up can also be done using a manual pump, but the vacuum method is faster and avoids incorrect handling (oil type mixing ...)

Filling steps to be followed :

- Connect the vacuum pump to the high pressure service valve through the manifold.
- Put the high pressure service valve in intermediate position (*§1 piping work instruction*)
- Start vacuuming.
- Connect a hose ( w/o pushing Schrader valve) to the suction service valve.
- Open the oil can.
- Immerse the end of the hose into the oil can.
- Put the suction service valve in intermediate position. (*§1 piping work instruction*)
- Vacuum the appropriate quantity of oil and close the service valve.
- Once the operation is completed, perform a complete system vacuuming (*§4 piping work instruction*)

