Changing Filter 1/5 Hp

Category: Refrigeration
written by www.mbsm.pro | 13 April 2026

Step-by-step guide to changing a 1/5 HP filter: unplug, relieve pressure, twist-lock removal, and the “grey water” trick for water filters. Avoid spray backs and ensure a clean swap

---

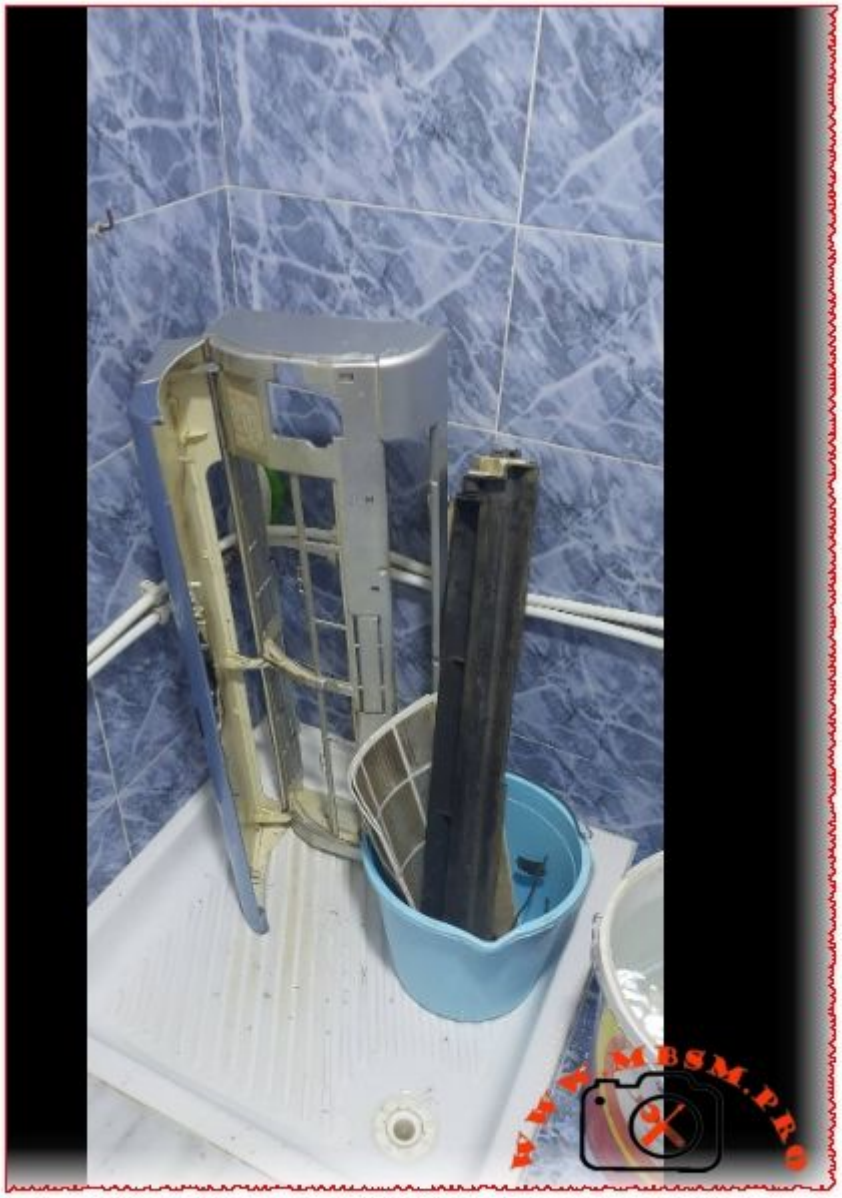
1/5 HP Compressor oil change: How much and how to do it right

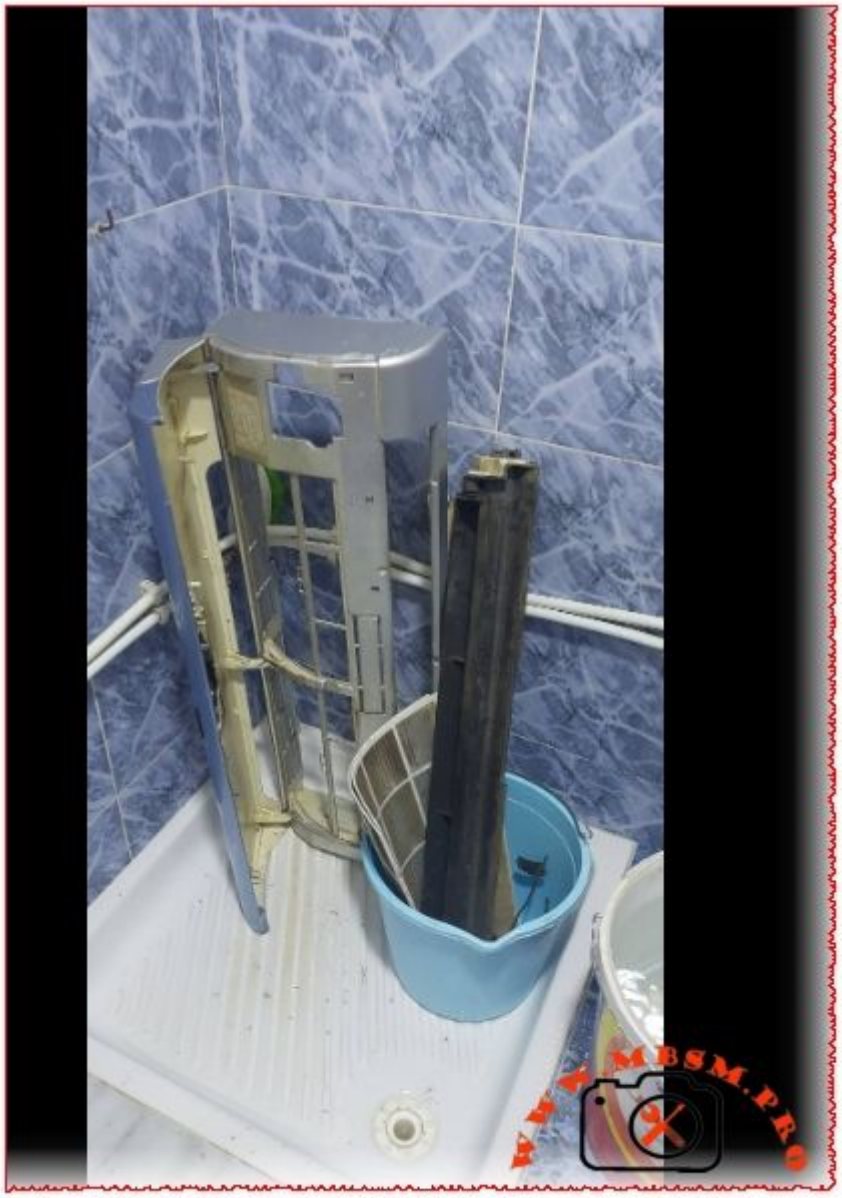
Category: Refrigeration
written by www.mbsm.pro | 13 April 2026

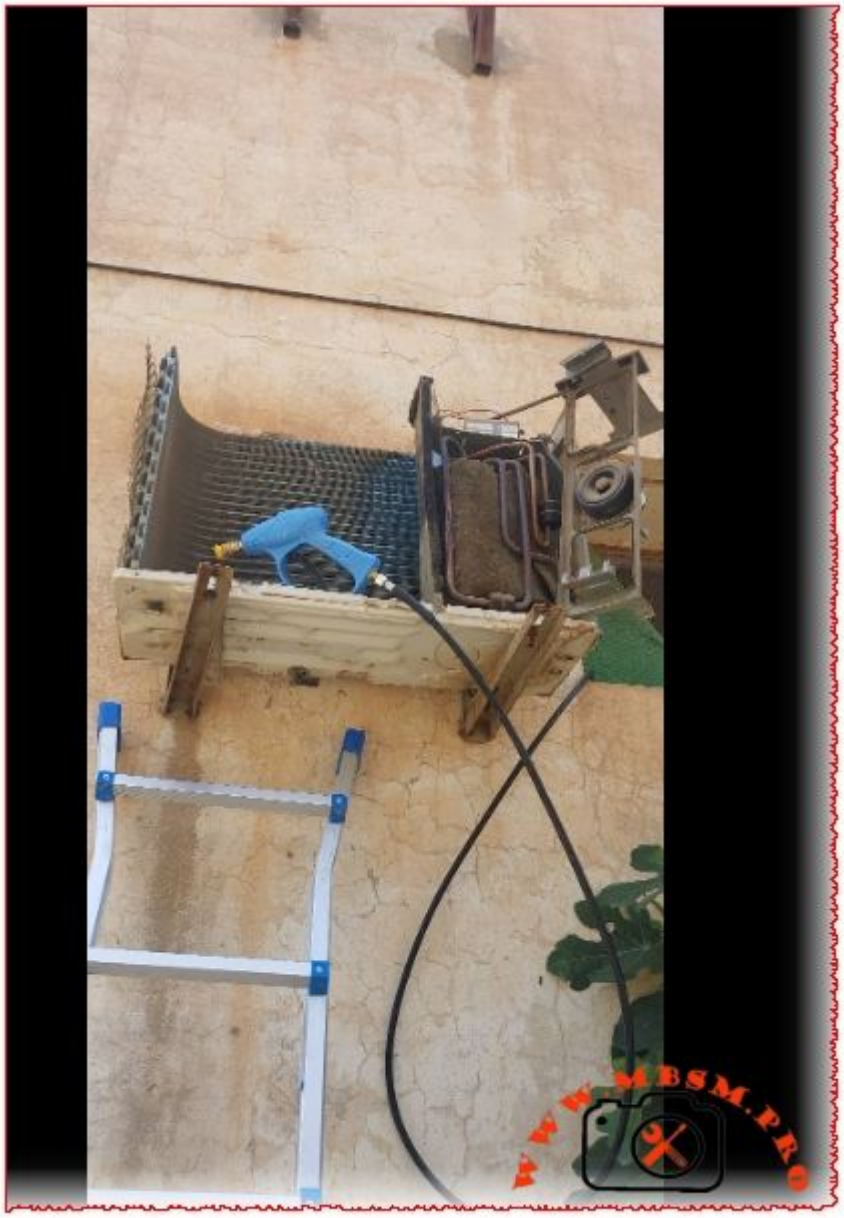
Learn the exact 1/5 HP compressor oil change process: 200–250 ml oil quantity, POE oil type for R134a, and vacuum-based recharge. Avoid oil logging and diagnose motor condition by inspecting old oil.

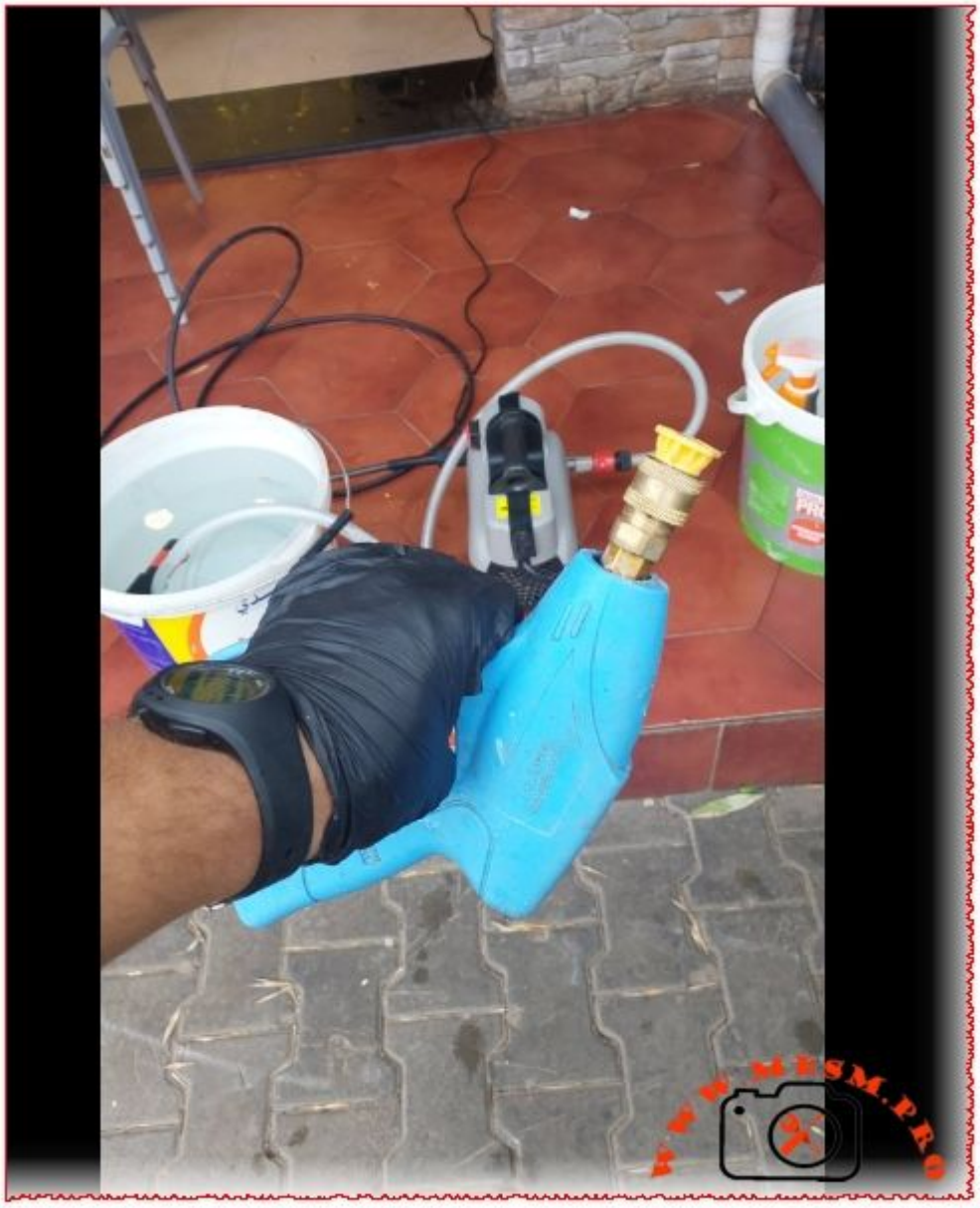
Deep cleaning AC units from A to Z… that’s our craft

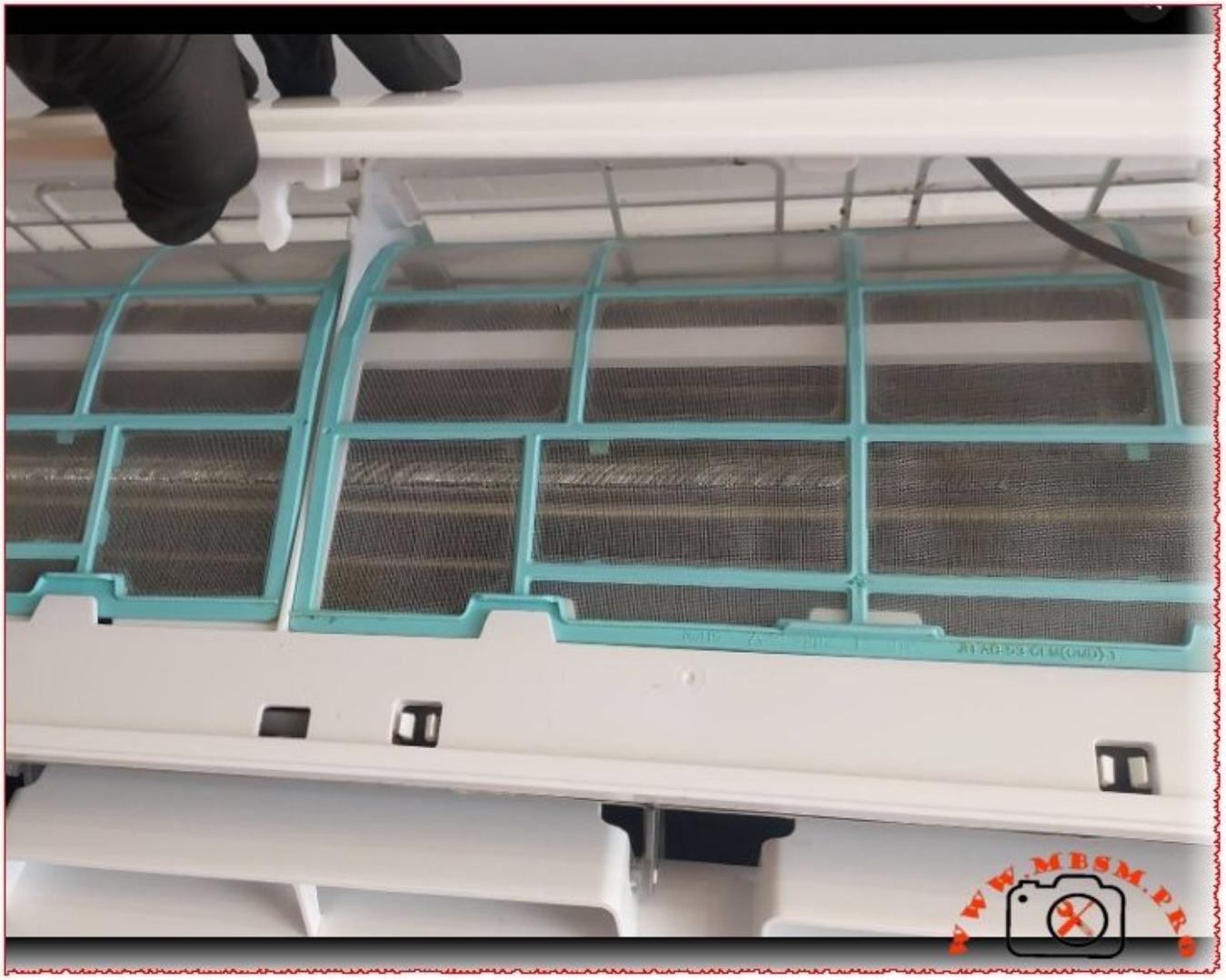
Category: Mbsmpro
written by www.mbsm.pro | 13 April 2026

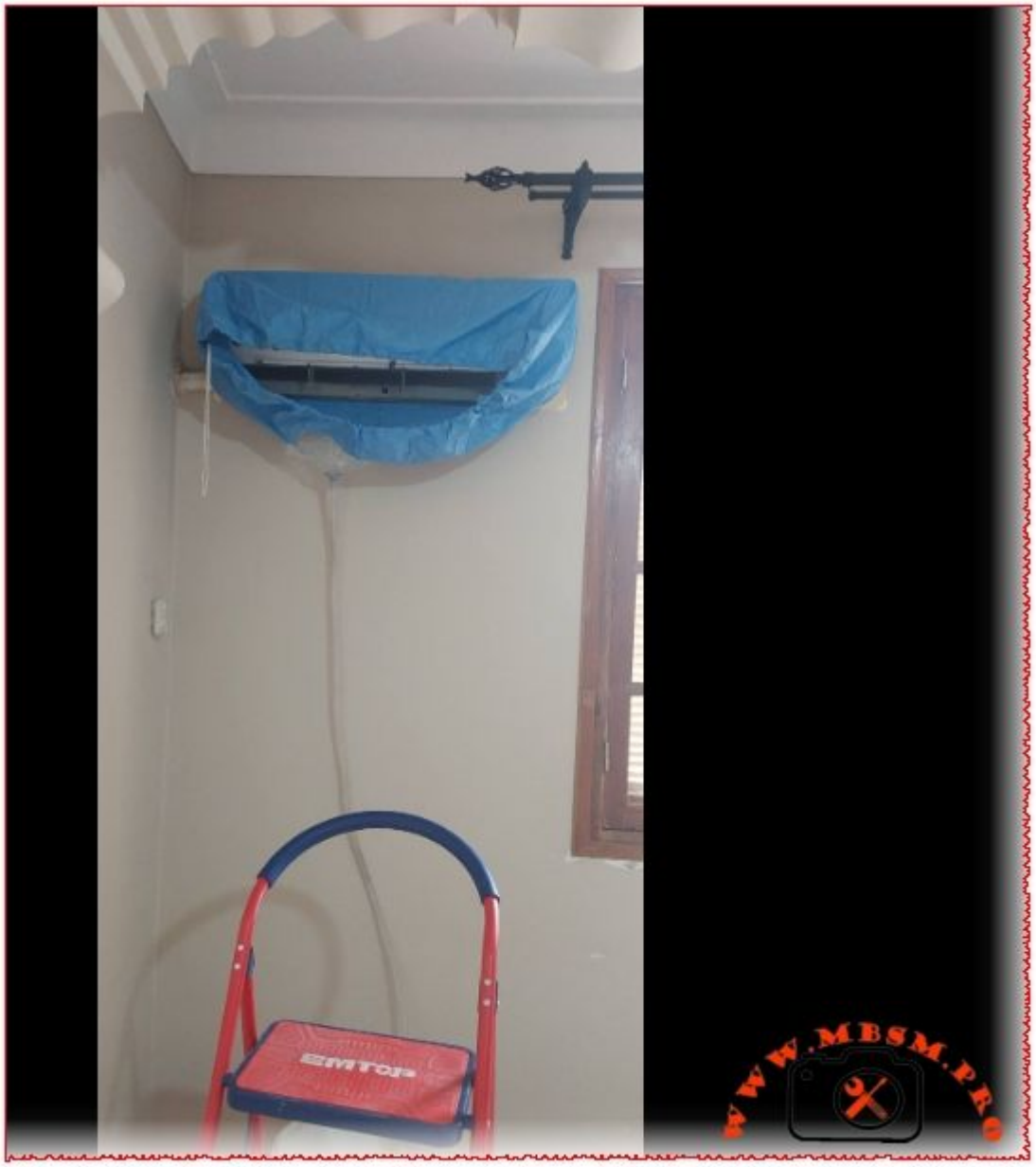






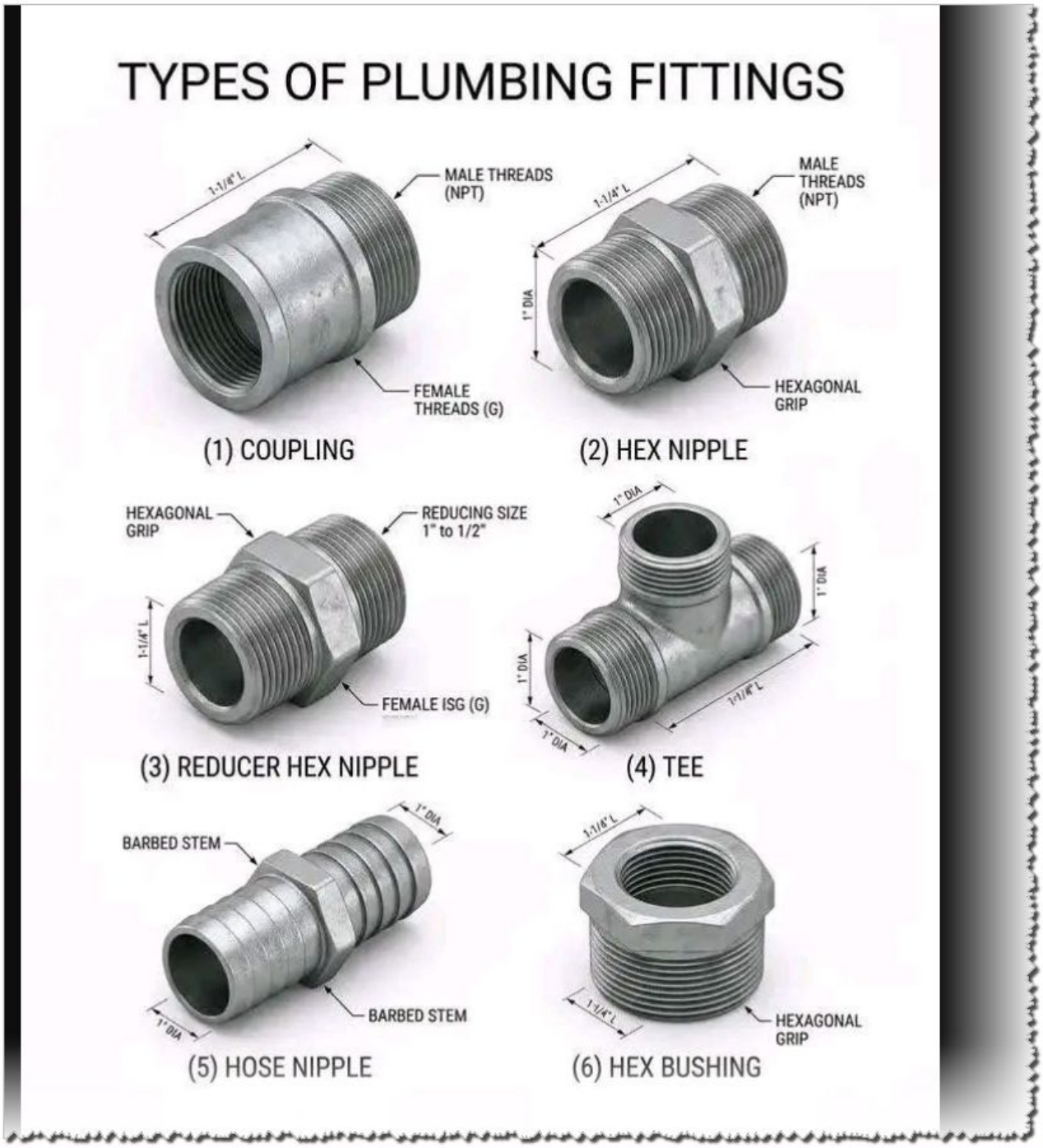






Plumbing Fittings Explained

Category: Equipment
written by www.mbsm.pro | 13 April 2026



1. Coupling

A coupling is used to connect two pipes of the **same diameter**. It features internal (female) threads on both ends. This is the go-to fitting for extending a straight run of pipe.

2. Hex Nipple

A hex nipple has external (male) threads on both ends. The “hex” refers to the hexagonal section in the middle, which allows a wrench to grip the fitting securely during installation. It is used to connect two female-threaded fittings or valves.

3. Reducer Hex Nipple

Similar to a standard hex nipple, but the two threaded ends are **different sizes** (e.g., transitioning from a 1″ pipe to a 1/2″ pipe). This allows you to join components of unequal diameters.

4. Tee

A T-shaped fitting with three openings. It is used to split a single line into two separate branches or to combine two lines into one. In the image, this specific tee features male threads on all three ends.

5. Hose Nipple (Barb Fitting)

This fitting is designed to connect a flexible hose to a threaded pipe system.

- **Barbed Stems:** These slide into the hose, and the ridges grip the interior to prevent it from slipping off.
- **Hex Grip:** Used to tighten the fitting into a threaded port.

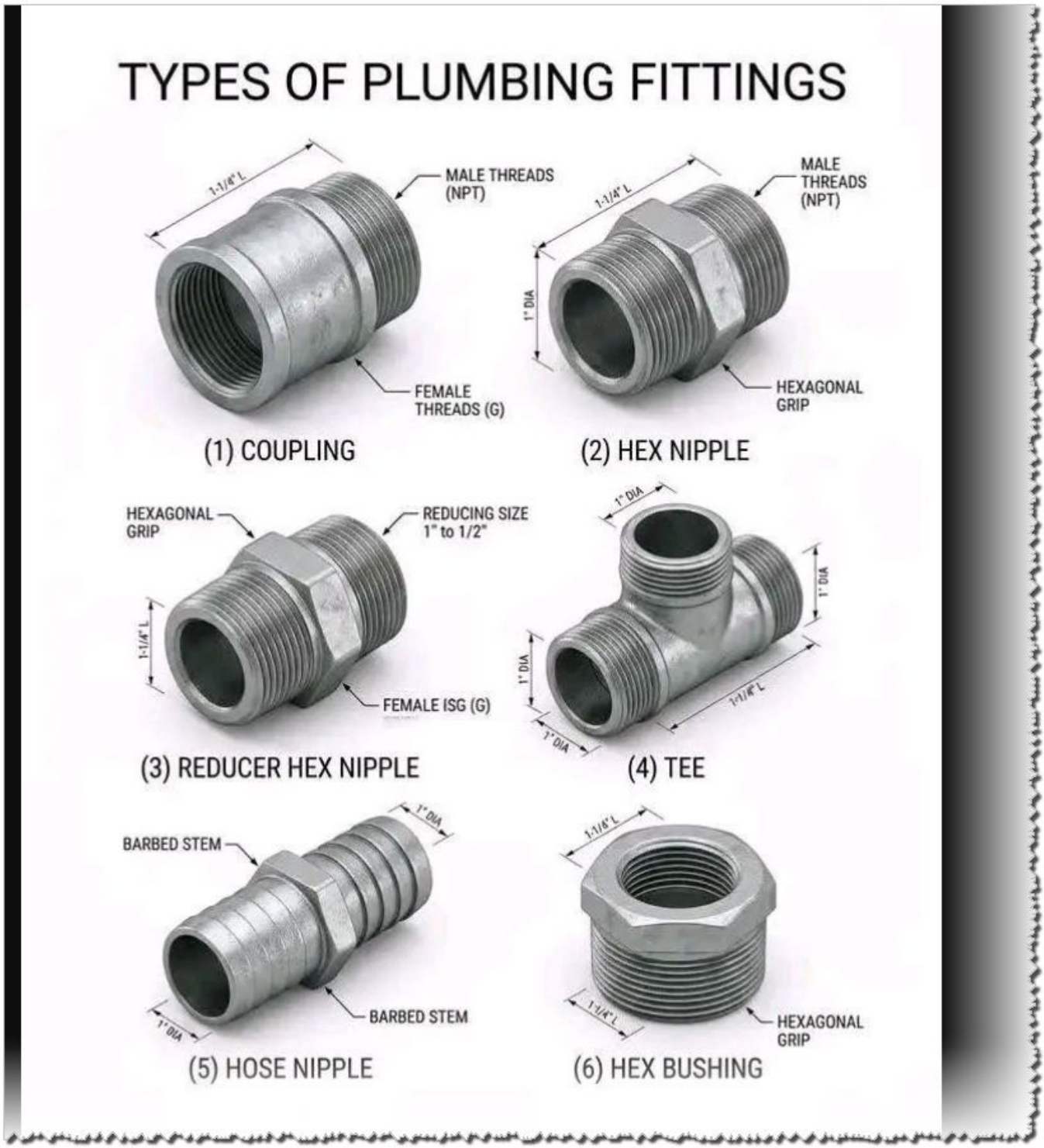
6. Hex Bushing

A bushing is used to **reduce the size** of a female threaded opening. It has male threads on the outside and female threads on the inside. You would screw this into a larger port so that a smaller pipe or fitting can be attached to it.

Key Technical Note: Thread Types

The image mentions two common thread standards:

- **NPT (National Pipe Tapered):** Common in North America; the threads are tapered to create a liquid-tight seal.
- **G (BSP – British Standard Pipe):** Common in Europe and internationally; these are parallel threads that usually require a washer or O-ring to seal.



Can the GL80 compressor be installed in place of the GL90?

Category: Refrigeration
written by www.mbsm.pro | 13 April 2026

The main difference is the winding material: the GL80 uses aluminum coils, while the GL70 uses copper. Performance-wise, the GL80 is suitable for an upright deep freezer, whereas the GL70 is best for a 12ft double-door refrigerator

“The technical difference between the two compressors, manufactured by ZEM or ACC, lies primarily in the horsepower (HP) and displacement volume:

GL80: Has a slightly lower capacity, rated at approximately 1/5 HP

GL90: Typically rated at 1/4 HP (or equivalent, depending on the specific model

Technical Conclusion: Compressor

Interchanges

1. Replacing GL80 by GL90 yes
2. Replacing GL90 by GL80 non
3. Replacing GL80 by GL70 non
4. Replacing GL70 by GL80 yes

The process of replacing the air conditioner compressor is successful, and it is working as it was before ?

Category: Refrigeration
written by www.mbsm.pro | 13 April 2026

“The process of replacing the air conditioner compressor is successful, and it is working as it was before.”
Alternatively, if you are asking whether the process *is* viable, it can be translated as: **“Is replacing the air conditioner compressor effective, and will it work as well as it did before?”**

Key Points regarding Compressor Replacement:

If you are considering this repair, here are a few things to keep in mind to ensure it works “as it was”:

- **Matching Specifications:** The new compressor must have the exact same cooling capacity (BTU) and electrical specifications as the original.
- **System Flushing:** It is vital to flush the refrigerant lines to remove any contaminants or burnt oil from the old compressor; otherwise, the new one may fail quickly.
- **Vacuuming:** A deep vacuum must be pulled on the system to remove moisture before recharging with gas.
- **Cost-Benefit:** Since the compressor is the “heart” of the AC, the repair can be expensive. If the unit is more than 10 years old, it is often more cost-effective to replace the entire unit.

A problem with a Brand refrigerator: ice forms, it makes a noise, and it stops cooling

Category: Refrigeration
written by www.mbsm.pro | 13 April 2026

The issues you are experiencing with your Brandt refrigerator (ice buildup, unusual noise, and poor cooling) indicate a failure in the No Frost defrost system. Since a specialist was unable to fix it, the fault may have been misdiagnosed.

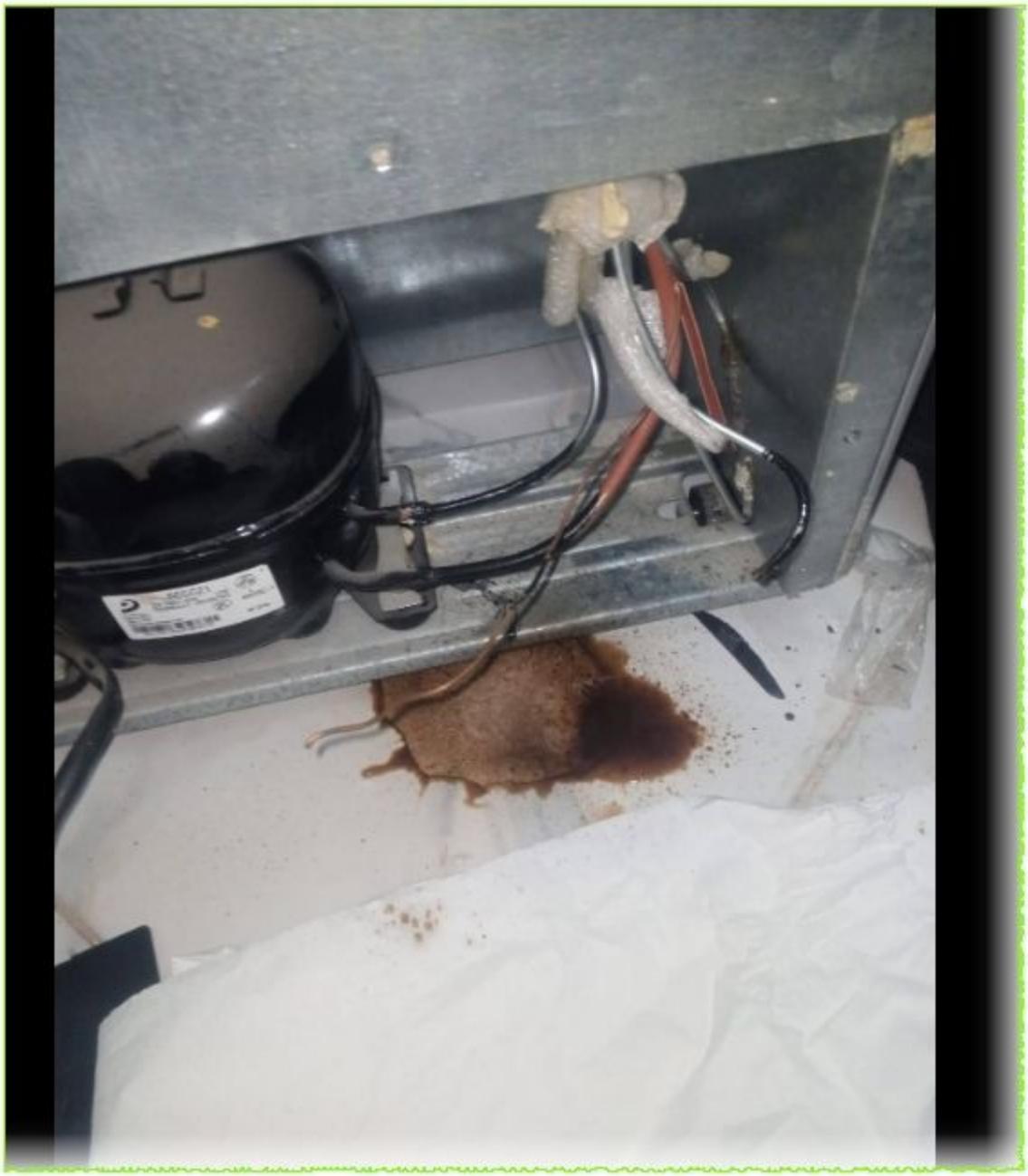
The refrigerator has a problem, it works for a minute and then shuts off

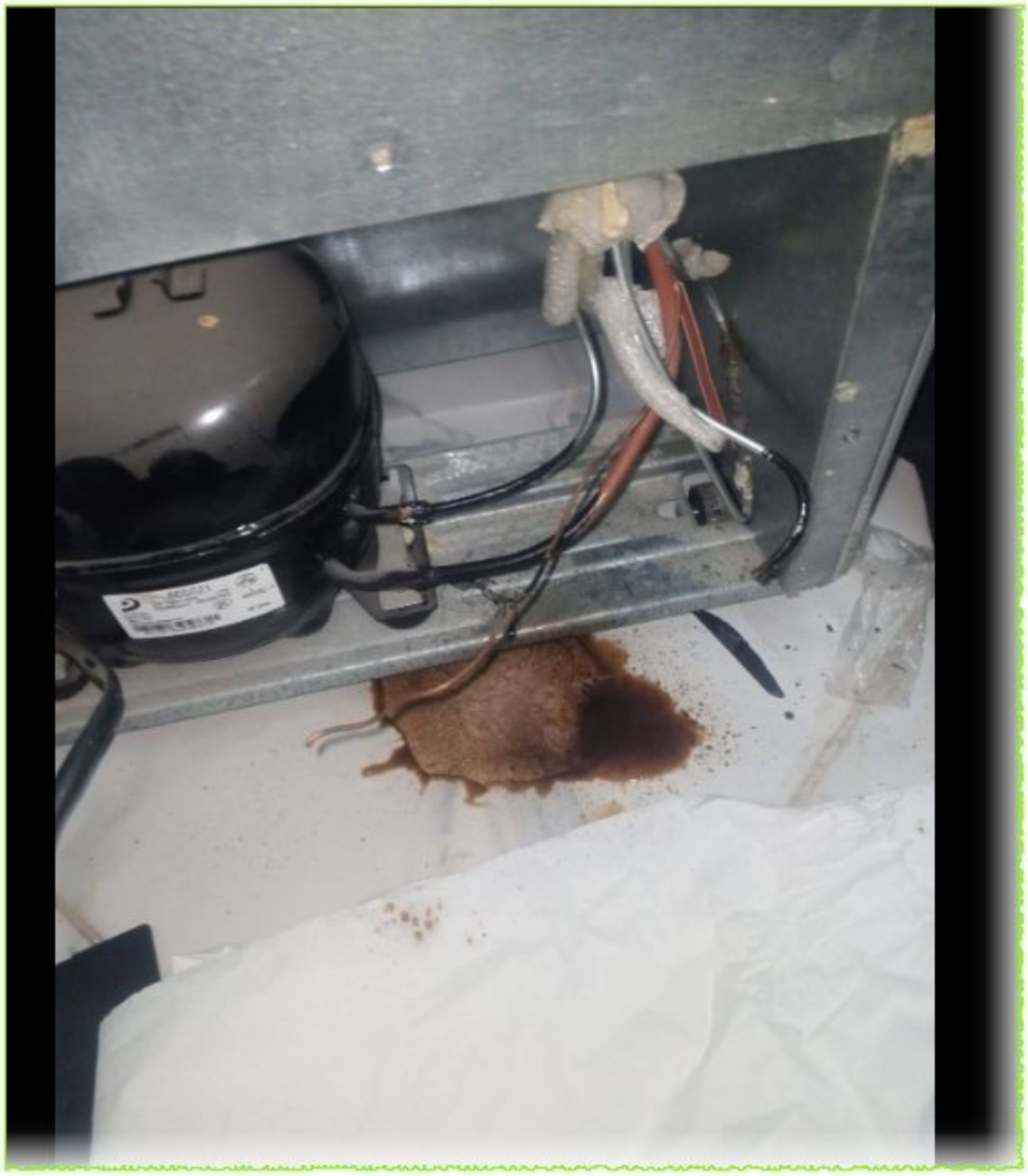
Category: Refrigeration
written by www.mbsm.pro | 13 April 2026

Our technical investigation revealed a dual issue. The system was suffering from a **restricted filter drier**, causing a blockage that choked the cooling cycle. This strain had also compromised the motor’s starting components.

Technical Specifications

Feature	Specification
Model	S65CZ1
Brand	Panasonic
Refrigerant	**R134a**
Power Supply	220-240V / 50Hz
Cooling Capacity	Approximately **165W** (at ASHRAE conditions)
Horsepower	**1/5 HP**
Displacement	6.5 cm3
Motor Type	RSIR (Resistive Start-Inductive Run)





Our intervention included:

- **System Clearing:** Replacing the clogged filter to allow the refrigerant to flow freely once again.
- **Electrical Upgrade:** Installing a brand-new high-quality “Starting Kit” (Relay/Overload) to ensure the compressor starts smoothly every time.
- **The Mbsmpro Promise:** We don’t just fix; we provide peace of mind. This repair is backed by a **full 6-month warranty**.