



Federal Halocarbon Regulations, 2022 (FHR 2022):

Awareness Factsheet for Refrigeration and Air-Conditioning Service Contractors

This factsheet outlines how the *Federal Halocarbon Regulations, 2022* (FHR 2022) apply to refrigeration and air-conditioning service contractors who are responsible persons or certified persons as defined in the Regulations.

The FHR 2022 apply to air-conditioning systems, refrigeration systems, solvent systems, fire-extinguishing systems and containers in Canada that are:

- › Owned by the Crown (i.e. **federal departments, boards or agencies**) regardless of their location;
- › Owned by **a federal work or undertaking**, including a railway, a port authority, an airport, a telecommunication company or a bank;
- › Located on **Indigenous lands**, including systems owned by band councils or private businesses; or
- › Located on **federal lands**, including private companies that own or operate halocarbon systems located on such land.

Under the FHR 2022, You Must Not:

- › Release, allow, or cause the release of halocarbons from systems, containers and from equipment used in the reuse, recycling, reclamation or storage of a halocarbon;
- › Install or activate a system that contains or is designed to contain a halocarbon listed in items 1 to 9 of Schedule 1 of the FHR 2022;
- › Operate a chiller containing halocarbons listed in items 1 to 9 of Schedule 1 of the FHR 2022;
- › Install or operate a purge system, including any associated recovery equipment, unless the system emits less than 0.1 kg of halocarbon per kilogram of air purged into the environment;
- › Charge a system or container with halocarbons for the purpose of leak testing the system or container;
- › Charge a system or container with halocarbons without leak testing the system or container prior to charging;
- › Charge a system with halocarbons listed in items 1 to 9 of Schedule 1 of the FHR 2022;
- › Store or transport halocarbons unless it is in a container designed to be refilled and to contain that specific type of halocarbon.

For more information about prohibited activities, consult the "[Prohibition and Permits](#)" factsheet.

Substances Covered Under the Regulations (Schedule 1)

List of Halocarbons

1. Tetrachloromethane (carbon tetrachloride)
2. 1,1,1-trichloroethane (methyl chloroform), except 1,1,2-trichloroethane
3. Chlorofluorocarbons (CFC)
4. Bromochlorodifluoromethane (Halon 1211)
5. Bromotrifluoromethane (Halon 1301)



6. Dibromotetrafluoroethane (Halon 2402)
7. Bromofluorocarbons, except those set out in items 4 to 6
8. Bromochloromethane (Halon 1011)
9. Hydrobromofluorocarbons (HBFC)
10. Hydrochlorofluorocarbons (HCFC)
11. Hydrofluorocarbons (HFC)
12. Perfluorocarbons (PFC)

Large and Small Systems and Containers

Under the FHR 2022, large air-conditioning and refrigeration systems and containers refer to those containing or designed to contain more than 10 kg of halocarbon. Small air-conditioning and refrigeration systems and containers refer to those containing or designed to contain 10 kg or less of halocarbon.

Activity Log Obligations

For large systems and containers, the responsible person must record information in an activity log for each time the system or container is installed, serviced or permanently withdrawn from use, or ownership has been transferred.

Activities on small systems or small containers must be recorded in the activity log each time the system or container is serviced.

Service is defined as any work that is carried out on a system or a container and that involves the components that contain or are designed to contain a halocarbon, such as:

- > The charging of a system or container with a halocarbon;
- > The removal or reassembly of one or more components of the circuit containing a halocarbon; or
- > The detection and repair of leaks.

For more information on the activity log, consult the [“Maintenance of Systems and Containers”](#) and [“Size-Dependent Obligations for Systems and Containers”](#) factsheets.

Leak Test Requirements

A leak test is required before charging a system or container with a halocarbon.

In the case of large systems and containers, a leak test of the components containing halocarbons must be conducted at least once every calendar year and no more than 15 months since the previous leak test. For a large air-conditioning or refrigeration system, the leak test must be conducted by the **certified person**. For a large container, the leak test must be conducted by the **responsible person**.

If a leak is detected in an air-conditioning or refrigeration system of any size, a **certified person** must, as soon as possible and no later than seven days after the leak is detected:

- > Repair the leak;
- > Isolate the leaking portion of the system and recover the halocarbon from that portion; or
- > Recover the halocarbon from the system.

If a leak is detected in a container, the **responsible person** must repair the leak or recover the halocarbon from the container as soon as possible and no later than seven days after the leak is detected.

For more information on leak tests, consult the [“Leak and Leak Tests”](#) fact sheet.

Permanently Withdrawing from Use

Before permanently withdrawing from use a system or container, all halocarbons must be recovered into a container designed to contain that specific type of halocarbon. A notice must be affixed to the system or container indicating, among other things, the type and quantity of halocarbon recovered from the system or container.

For more information concerning the permanent withdrawal from use, consult the “[Maintenance of Systems and Containers](#)” factsheet and the “[Notice of Permanent Withdrawal from use](#)”.

Recovery

All halocarbons that could potentially be released during the installation or servicing of a system or container must be recovered.

Only a purge system that emits less than 0.1 kg of halocarbon per kilogram of air purged to the environment can be installed or operated.

For more information on the activity log, consult the “[Maintenance of Systems and Containers](#)” factsheet.

For more information, visit our website: www.canada.ca/federal-halocarbon-regulations

If the information you need is not available on our website, contact your regional office or the Halocarbon Program:

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Disclaimer: This material has been prepared for convenience of reference and accessibility and does not have an official character. It is of a general nature only. For all purposes of interpreting and applying the Regulations, users must consult the official version of the *Federal Halocarbon Regulations, 2022* and seek their own legal advice as appropriate.

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