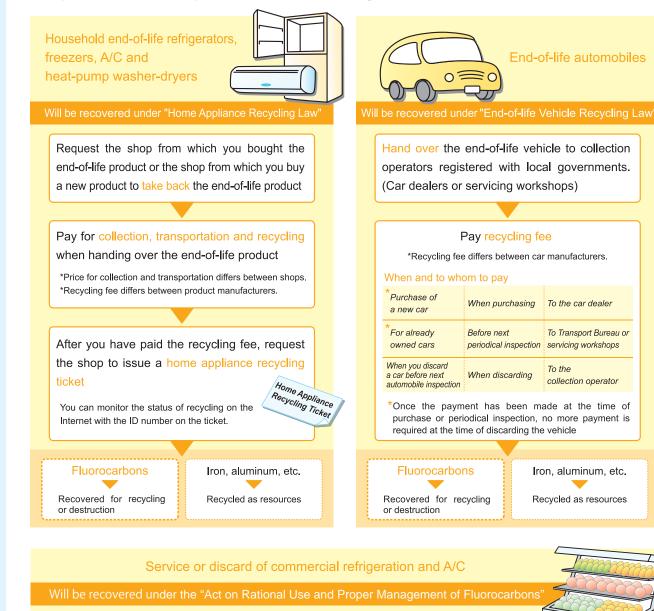
Recovery, Recycling & Destruction of CFC, HCFC, & HFC

In Japan, CFCs, HCFCs, and HFCs are controlled and they must be recovered from home appliances, cars, and commercial equipment when the equipment containing these gases is discarded. Recovered gas must be recycled or destroyed, instead of being released into the air.



Request Fluorocarbon recovery operators registered with

When requesting a Fluorocarbon recovery operator (i.e. car dealers or servicing

workshops) registered with a prefectural or municipal government with a public health

1) Issue a "Recovery request form" or a "Consignment confirmation form" in accordance with the relevant law. (They are applied only at the time of a disposal.)

2) Pay the fee for recovery, recycling and destruction of fluorocarbons.

prefectural governments to recover fluorocarbons

center to recover fluorocarbons,

7

Commercial A/C

and freezers

· Cold showcase and freezers

Freezing units for transportation

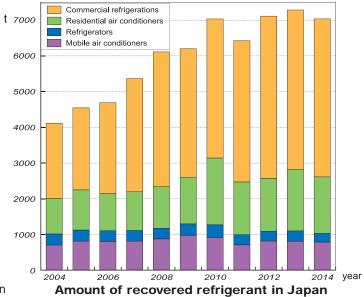
Those who wish to discard any of

the listed above equipment must

Commercial refrigerators

In Japan, there are more than 40 home-appliance recycling plants, more than 20 F-gas recycling facilities and more than 60 F-gas destruction facilities in commercial operation using various technologies such as superheated steam, municipal waste incinerators, cement kiln, etc. More than 7,000 tons of refrigerant CFC, HCFC and HFC was recovered from equipment in Japan in 2014, and about 965 tons of refrigerant was recycled and about 4,800 tons of refrigerant was destroyed in Japan in 2015.





Recovery of refrigerant from super-market cold showcase Source: Refrigerants Recycling Promotion and Technology Center, Japan

HCFC

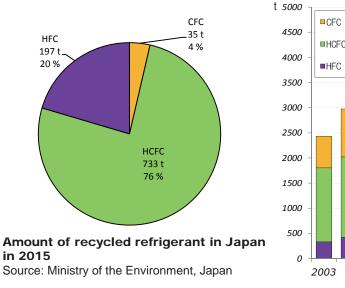
733 t 76 %

HEC

197 1

20 %

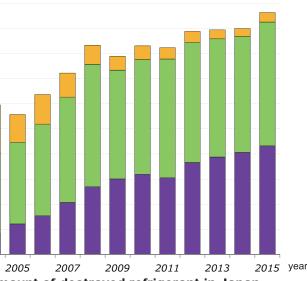
in 2015

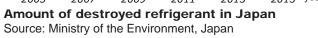


Туре	Technology
Devoted system	Superheated steam
	Submerged combustion
	Ark plasma
	Solid alkali reaction
	Catalyst
Multipurpose system	Municipal waste incineration
	Cement kiln,Lime calcination f
	Electric furnace

Major F-gas destruction technologies in use in Japan and their capacity ranges

Source: Ministry of the Environment, Japan





Decomposition capacity (indicative) 25 kg/h 10 kg/h - 300kg/h Large 10 kg/h Small 1 kg/h - 2 kg/h 10 kg/h 6 kg/h 10 kg/h – 120 kg/h furnace 10 kg/h – 50 kg/h 50 kg/h