

**Tighter restrictions
have been imposed**

Importing restrictions on hydrofluorocarbons (HFCs) into the European Union (EU)

EU F-Gas Regulation (517/2014)



Since January 1, 2017, an “Authorisation” has been required in order to import thermo-chillers and refrigerated air dryers which use HFC refrigerant into the EU. SMC has already been granted such “Authorisation” for import.

(Refer to FAQ 6 on the back for more details.)



As of January 1, 2020,
the import of **products using refrigerant with a GWP reference^{*1} of 2500 or higher** into the EU is prohibited.
SMC offers a selection of EU F-Gas Regulation-compliant products.

The refrigerant used in SMC’s thermo-chillers and refrigerated air dryers has a GWP reference lower than 2500. A selectable **EU F-Gas Regulation-compliant product^{*2}** is available as an option for a number of regulated products in the HRZ series (GWP reference: 2500 or higher).

Thermo-chiller		Regulated products
Series	Refrigerant (GWP reference)	
HRS		
HRSE		
HRSH	R407C (1774)	
HRR	R410A (2088)	
HRL		
HRZ□□□-L2	R134a (1430)	
HRZ (Except HRZ□□□-L2)	R404A (3922)	

Refrigerated Air Dryer	
Series	Refrigerant (GWP reference)
IDF	
IDFA	
IDFB	R134a (1430)
IDFC	R407C (1774)
IDU	R410A (2088)
IDH	
IDHA	

Thermo-chiller (EU F-Gas Regulation-compliant products) ^{*2}	
Series	Refrigerant (GWP reference)
HRZ-F	R410A (2088) R448A (1387)

*1 GWP: Abbreviation of “Global Warming Potential,” a coefficient of 1 of the global warming impact relative to carbon dioxide (CO₂)
CO₂ conversion method: [Global Warming Potential (GWP reference)] x [refrigerant amount]

Ex.) For the SMC model with the greatest CO₂ conversion amount (HRZ008-L)
CO₂ conversion amount = [GWP reference: 3922] x [2 kg] ≈ 7800 kg = 7.8 t

*2 Only applies to certain sizes and specifications. Refer to the **Web Catalog** for further details.



FAQ

Q1 Does the EU F-Gas Regulation apply only to EU member states?

A1 Yes, it only applies to EU member states. The regulation does not apply to non-EU European states or to countries in Asia, Oceania, and North, Central, and South America.

Q2 Which F-gases (refrigerants) will be affected by the ban?

A2 R404A (GWP reference: 3922), a refrigerant used in some SMC products, is one of the refrigerants that will be affected.

Q3 “As of January 1, 2020, the import of products using refrigerant with a GWP reference of 2500 or higher into the EU will be prohibited.” What exactly does “prohibited” mean in this case?

A3 It means that as of January 1, 2020, these regulated products will no longer be able to clear customs in any of the EU member states.

Q4 Will it still be possible to have a thermo-chiller or refrigerated air dryer imported into the EU before December 31, 2019 maintained in the EU?

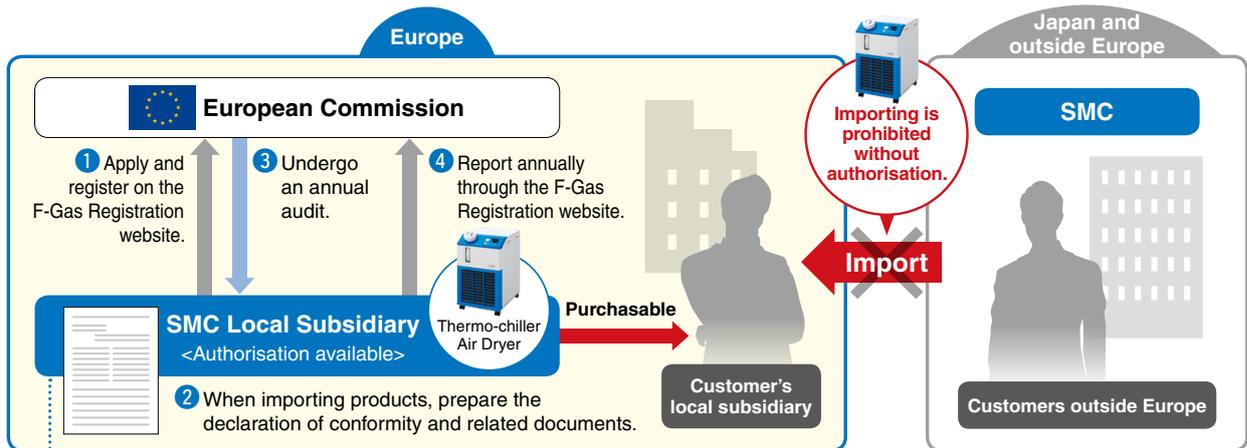
A4 Yes, maintenance will remain possible.

Q5 How can I learn more about the refrigerants used in SMC products?

A5 The refrigerant used in each product is specified in the catalog, external appearance drawings, and on the label attached to the product.

Q6 What is actually required to import a thermo-chiller or refrigerated air dryer into the EU?

A6 The importer must apply and register on the F-Gas Registration website, obtain an “Authorisation,” prepare a “Declaration of Conformity,” undergo an audit, and provide an annual report. Especially for customer’s products intended for use in the EU that use a refrigerant with an annual CO₂ conversion amount of 100 t or more, an “Authorisation” is required. SMC Europe has already been granted an “Authorisation” for import. Therefore, we suggest purchasing such products from an SMC local subsidiary in order to avoid the troublesome import process.



List of local subsidiaries of SMC Europe (with import quota licenses available)

Ireland	SMC Industrial Automation (Ireland) Limited	Denmark	SMC DANMARK A/S
Italy/Greece	SMC Italia S.p.A.	Germany	SMC Deutschland GmbH
Austria	SMC Austria GmbH	Finland	SMC Automation Oy
Netherlands	SMC Nederland B.V.	France	SMC France
Sweden	SMC Automation AB	Belgium	SMC Belgium N.V./S.A
Spain/Portugal	SMC España SA	Romania	SC SMC Romania S.r.l.

⚠ Safety Instructions Be sure to read the “Handling Precautions for SMC Products” (M-E03-3) and “Operation Manual” before use.