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**No. S 274**

ENVIRONMENTAL PROTECTION AND  
MANAGEMENT ACT 1999

ENVIRONMENTAL PROTECTION AND  
MANAGEMENT (REGULATED GOODS AND  
REGISTERED SUPPLIERS) REGULATIONS 2022

ARRANGEMENT OF REGULATIONS

PART 1

PRELIMINARY

Regulation

1. Citation and commencement
2. Definitions

PART 2

REQUIREMENTS FOR REGULATED GOODS

3. Applicable requirements under section 40D(1)(a)(i) of Act for regulated goods
4. Applicable requirements under section 40D(1)(b) of Act for regulated goods
5. Registration requirements
6. Global warming potential limits

PART 3

REGISTERED SUPPLIERS

7. Form and manner of registration
8. Registered supplier to notify Director-General of change in particulars

PART 4

OBLIGATIONS OF REGISTERED SUPPLIERS  
AND IMPORTERS

9. Modification of registered goods

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Regulation

10. Maintenance of records  
The Schedules
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In exercise of the powers conferred by section 77 of the Environmental Protection and Management Act 1999, the National Environment Agency, with the approval of the Minister for Sustainability and the Environment, makes the following Regulations:

PART 1

PRELIMINARY

**Citation and commencement**

1. These Regulations are the Environmental Protection and Management (Regulated Goods and Registered Suppliers) Regulations 2022 and come into operation on 1 October 2022.

**Definitions**

2. In these Regulations, unless the context otherwise requires —

“adjusted volume” has the meaning given by Part 2 of the Fourth Schedule to the Energy Conservation (Prescribed Regulated Goods) Order 2017 (G.N. No. S 747/2017);

“full-load cooling capacity” means the cooling capacity of a regulated air-conditioner or regulated chiller when operating at full load based on standard rating conditions specified in the prevailing test standard or method, specified in paragraph 3 of the First Schedule;

“refrigerant” means a substance or a blend or mixture of substances, that —

- (a) is used for heat transfer in a refrigerating system;
- (b) absorbs heat when the temperature and pressure of the substance or blend or mixture of substances is low;

(c) rejects heat when the temperature and pressure of the substance or blend or mixture of substances is high; and

(d) usually changes from a gaseous state to a liquid state, and vice versa in a refrigerating system;

“registered goods” means any regulated goods that are registered under regulation 5;

“regulated air-conditioner” means any air-conditioner described in paragraph 3(a) of the Environmental Protection and Management (Prescribed Regulated Goods) Order 2022 (G.N. No. S 272/2022);

“regulated chiller” means —

(a) for the purposes of section 40D(1)(a) of the Act, any chiller described in paragraph 3(b) of the Environmental Protection and Management (Prescribed Regulated Goods) Order 2022; and

(b) for the purposes of section 40D(1)(b) of the Act, any chiller described in paragraph 4 of the Environmental Protection and Management (Prescribed Regulated Goods) Order 2022;

“regulated refrigerator” means any refrigerator described in paragraph 3(c) of the Environmental Protection and Management (Prescribed Regulated Goods) Order 2022;

“specified laboratory”, in relation to a technical data sheet or test report for any regulated goods, means any of the following:

(a) an in-house testing laboratory operated by the manufacturer of the regulated goods;

(b) a testing laboratory accredited by the Singapore Accreditation Council or any of its Mutual Recognition Arrangement partners as being able to perform the prevailing test standard or method specified in paragraph 3 of the First Schedule for the regulated goods;

“technical file”, in relation to any regulated goods, means the file on the regulated goods kept and maintained under regulation 10(1)(a);

“test report”, in relation to any regulated goods, means —

- (a) the report of the test carried out for the regulated goods in accordance with the prevailing test standard or method, specified in paragraph 3 of the First Schedule; and
- (b) where there is more than one such test report in respect of the regulated goods, the test report that is the most recent.

## PART 2

### REQUIREMENTS FOR REGULATED GOODS

#### **Applicable requirements under section 40D(1)(a)(i) of Act for regulated goods**

3. For the purposes of section 40D(1)(a)(i) of the Act, the requirements that apply to regulated goods are as follows:

- (a) for a regulated air-conditioner:
  - (i) the regulated air-conditioner must be registered under regulation 5;
  - (ii) the global warming potential of the greenhouse gas or the blend or mixture of greenhouse gases required for the use or operation of the regulated air-conditioner must not exceed the global warming potential limit under regulation 6;
- (b) for a regulated chiller:
  - (i) the regulated chiller must be registered under regulation 5;
  - (ii) the global warming potential of the greenhouse gas or the blend or mixture of greenhouse gases required for the use or operation of the regulated chiller must

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not exceed the global warming potential limit under regulation 6;

- (c) for a regulated refrigerator:
- (i) the regulated refrigerator must be registered under regulation 5;
  - (ii) the global warming potential of the greenhouse gas or the blend or mixture of greenhouse gases required for the use or operation of the regulated refrigerator must not exceed the global warming potential limit under regulation 6.

### **Applicable requirements under section 40D(1)(b) of Act for regulated goods**

4. For the purposes of section 40D(1)(b) of the Act, the requirements that apply to regulated chillers are as follows:

- (a) a regulated chiller must be registered under regulation 5;
- (b) the global warming potential of the greenhouse gas or the blend or mixture of greenhouse gases required for the use or operation of a regulated chiller must not exceed the global warming potential limit under regulation 6.

### **Registration requirements**

5.—(1) An application to register any regulated goods, or to renew the registration of any regulated goods, must be made —

- (a) using the electronic application service provided by the Agency at <http://www.nea.gov.sg>; or
- (b) where there is a malfunction or failure, or an imminent malfunction or failure, of the electronic application service, in such written form as the Director-General may require.

(2) Every application mentioned in paragraph (1) must be accompanied by —

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- (a) either —
- (i) a test report in respect of the regulated goods issued by a specified laboratory; or
  - (ii) a technical data sheet in respect of the regulated goods issued by a specified laboratory, the importer or the manufacturer of the regulated goods, showing the information in paragraph (3);
- (b) such other documents and information as the Director-General may require; and
- (c) the appropriate fee specified in the Second Schedule, which is not refundable.
- (3) The information for the purpose of paragraph (2)(a) is as follows:
- (a) in the case of a regulated air-conditioner or a regulated chiller, the full-load cooling capacity;
  - (b) in the case of a regulated refrigerator, the adjusted volume;
  - (c) every refrigerant required for the use or operation of the regulated goods and the total charge of each refrigerant;
  - (d) the total refrigerant charge of the regulated goods;
  - (e) such other information as the Director-General may require.
- (4) Upon the registration or renewal of the registration of any regulated goods, the Director-General must issue a certificate of registration to the registered supplier of those goods or person importing the regulated goods for the person's own use stating the validity period of the registration.

### **Global warming potential limits**

6. The global warming potential limits applicable to the regulated goods subject to this regulation are specified in paragraph 2 of the First Schedule.

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PART 3  
REGISTERED SUPPLIERS

**Form and manner of registration**

7.—(1) For the purposes of section 40E of the Act, an application to be registered as a registered supplier must be made —

- (a) using the electronic application service provided by the Agency at <http://www.nea.gov.sg>; or
- (b) where there is a malfunction or failure, or an imminent malfunction or failure, of the electronic application service, in such written form as the Director-General may require.

(2) Every application mentioned in paragraph (1) must be accompanied by such documents and information as may be required in the relevant form.

(3) Upon the registration of any person as a registered supplier, the Director-General must issue an identification number to the registered supplier in such form as the Director-General may determine.

**Registered supplier to notify Director-General of change in particulars**

8.—(1) A registered supplier must notify the Director-General of any change to any of the particulars provided to the Director-General in an application under regulation 7(1) not less than 14 days before the change.

(2) Any person who, without reasonable excuse, contravenes paragraph (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000.

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PART 4  
OBLIGATIONS OF REGISTERED SUPPLIERS  
AND IMPORTERS

**Modification of registered goods**

**9.—(1)** Where any registered goods are modified in any way by the manufacturer of those registered goods, the registered supplier or importer concerned must do the following before the registered supplier supplies in Singapore, or the person imports into Singapore for the person's own use, the registered goods (as modified):

- (a) notify the Director-General in writing of the modification to the registered goods;
  - (b) where the modification affects —
    - (i) in the case of a regulated air-conditioner or regulated chiller, the full-load cooling capacity of the regulated air-conditioner or regulated chiller;
    - (ii) in the case of a regulated refrigerator, the adjusted volume;
    - (iii) any refrigerant or the charge of any refrigerant required for the use or operation of the registered goods; or
    - (iv) the total refrigerant charge of the registered goods, submit to the Director-General a test report or a technical data sheet mentioned in paragraph (2) for the registered goods (as modified);
  - (c) update the technical file on the registered goods with details of the modification, including with the test report or technical data sheet mentioned in sub-paragraph (b).
- (2) The test report or technical data sheet mentioned in paragraph (1)(b) must be issued by —
- (a) for a test report — a specified laboratory; and



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(b) for a technical data sheet — a specified laboratory, the importer or the manufacturer of the registered goods, and must show the information in paragraph (3).

(3) The information for the purpose of paragraph (2) is as follows:

- (a) in the case of a regulated air-conditioner or a regulated chiller, the full-load cooling capacity;
- (b) in the case of a regulated refrigerator, the adjusted volume;
- (c) every refrigerant required for the use or operation of the registered goods and the total charge of each refrigerant;
- (d) the total refrigerant charge of the registered goods;
- (e) such other information as the Director-General may require.

(4) Any person who contravenes paragraph (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000.

### **Maintenance of records**

**10.—**(1) For the purposes of section 40I of the Act, a registered supplier and a person importing regulated goods for the person's own use must keep and maintain the following for the period of the registration of the registered goods:

- (a) a technical file on the registered goods imported or manufactured by it, that must include the documents and information in paragraph (2);
- (b) in the case of a registered supplier, the documents and information in paragraph (3) on the registered goods imported or manufactured by it;
- (c) in the case of a person importing regulated chillers for the person's own use, the documents and information in paragraph (4) on the registered chillers imported by the person.

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(2) The technical file mentioned in paragraph (1)(a) must include —

- (a) the certificate of registration issued by the Director-General under regulation 5(4) in respect of the registered goods;
- (b) the test report or technical data sheet mentioned in regulation 5(2)(a);
- (c) detailed records of any modification to the registered goods, including the test report or technical data sheet mentioned in regulation 9(1)(b), where applicable; and
- (d) such other photographs, drawings, component lists, documents and information in relation to the registered goods as the Director-General or any authorised officer may, from time to time, require by written notice.

(3) The documents and information for the purpose of paragraph (1)(b) must include —

- (a) in the case of a regulated air-conditioner or a regulated refrigerator —
  - (i) the date of sale of the registered goods by the registered supplier;
  - (ii) the agreed date of delivery of the registered goods by the registered supplier;
  - (iii) a copy of the contract, purchase order, order confirmation, invoice or other document which establishes the material terms of the sale of the registered goods by the registered supplier; and
  - (iv) all of the following information on the purchaser of the registered goods from the registered supplier:
    - (A) the name of the purchaser;
    - (B) the name of a contact person of the purchaser;
    - (C) the telephone number and email address of the purchaser;

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- (b) in the case of a regulated chiller—
- (i) the date of sale of the regulated chiller by the registered supplier;
  - (ii) the agreed date of delivery of the regulated chiller by the registered supplier;
  - (iii) a copy of the contract, purchase order, order confirmation, invoice or other document which establishes the material terms of the sale of the regulated chiller by the registered supplier;
  - (iv) the address (including the postal code) at which the regulated chiller is installed;
  - (v) all of the following information on the purchaser of the regulated chiller from the registered supplier:
    - (A) the name of the purchaser;
    - (B) the name of a contact person of the purchaser;
    - (C) the telephone number and email address of the purchaser; and
  - (vi) all of the following information on the regulated chiller:
    - (A) whether the chiller is pre-charged before supply by the registered supplier;
    - (B) the expected use or uses of the regulated chiller;
    - (C) the date or dates on which the regulated chiller is installed (in the case where the regulated chiller has been installed) or the expected date or dates on which the regulated chiller will be installed (in the case where the regulated chiller has yet to be installed);
- (c) all documents and information provided by the registered supplier to the Director-General in connection with every application to register any regulated goods;

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- (d) in respect of each period specified by the Director-General, the number of units of each type of regulated goods of a particular brand and model number the registered supplier supplied; and
  - (e) such other photographs, drawings, component lists, documents and information in relation to any registered goods or the supply of registered goods as the Director-General or any authorised officer may, from time to time, require by written notice.
- (4) The documents and information for the purpose of paragraph (1)(c) must include —
- (a) the date of sale of the regulated chiller by the importer's supplier;
  - (b) the agreed date of delivery of the regulated chiller by the importer's supplier;
  - (c) a copy of the contract, purchase order, order confirmation, invoice or other document which establishes the material terms of the sale of the regulated chiller by the importer's supplier;
  - (d) the address (including the postal code) at which the regulated chiller is installed;
  - (e) all of the following information on the importer's supplier:
    - (i) the name of the supplier of the regulated chiller;
    - (ii) the name of a contact person of the supplier of the regulated chiller;
    - (iii) the telephone number and email address of the supplier of the regulated chiller;

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- (f) all of the following information on the regulated chiller:
    - (i) whether the chiller is pre-charged before import;
    - (ii) the expected use or uses of the regulated chiller;
    - (iii) the date or dates on which the regulated chiller is installed (in the case where the regulated chiller has been installed) or the expected date or dates on which the regulated chiller will be installed (in the case where the regulated chiller has yet to be installed);
  - (g) all documents and information provided by the importer to the Director-General in connection with every application to register any regulated chiller;
  - (h) in respect of each period specified by the Director-General, the number of units of each type of regulated chiller of a particular brand and model number the importer imported; and
  - (i) such other photographs, drawings, component lists, documents and information in relation to any registered goods or the importation of registered goods as the Director-General or any authorised officer may, from time to time, require by written notice.

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**FIRST SCHEDULE**

Regulations 2 and 6

**REQUIREMENTS FOR REGULATED GOODS****Definitions**

1. In this Schedule, unless the context otherwise requires —

“AHRI” means the Air-Conditioning, Heating and Refrigeration Institute;

“ISO” means the International Organization for Standardization;

“single-phase non-ducted room air-conditioner”, “single-phase variable refrigerant flow (VRF) air-conditioner”, “split type (inverter) air-conditioner” and “split type (non-inverter) air-conditioner” have the meanings given by Part 2 of the First Schedule to the Environmental Protection and Management (Prescribed Regulated Goods) Order 2022;

“water-cooled chiller” has the meaning given by Part 2 of the Second Schedule to the Environmental Protection and Management (Prescribed Regulated Goods) Order 2022.

**Global warming potential limits**

2. The global warming potential limits set out in the second column applies to the regulated goods specified opposite in the first column:

<i>First column</i>	<i>Second column</i>
1. Electrically driven water-cooled chillers with a cooling capacity of 1,055 kW or more	15
2. Single-phase non-ducted room air-conditioner (split type (inverter)) with cooling capacity of 17.6 kW or lower, that is not a single-phase variable refrigerant flow (VRF) air-conditioner	750
3. Single-phase non-ducted room air-conditioner (split type (non-inverter)) with cooling capacity of 17.6 kW or lower	750
4. Single-phase refrigerator with an adjusted volume of up to 900 litres	15

**Test standard or method**

3. The prevailing test standard or method applicable to regulated goods in the first column that are of a type in the second column, is specified in the third column opposite that type of goods:

FIRST SCHEDULE — *continued*

<i>First column</i>	<i>Second column</i>	<i>Third column</i>
<i>Regulated goods</i>	<i>Type</i>	<i>Prevailing test standard or method</i>
(a) Air-conditioner	(i) Split type (inverter) with more than one indoor unit	— ISO 15042 (2017) At least one cooling test must be conducted at the full-load cooling capacity
	(ii) Split type (inverter) with one indoor unit	— ISO 5151 (2017) At least one cooling test must be conducted at the full-load cooling capacity
	(iii) Split type (non-inverter) with more than one indoor unit	— ISO 15042 (2017)
	(iv) Split type (non-inverter) with one indoor unit	— ISO 5151 (2017)
(b) Chiller	All	— AHRI 551/591-SI-2018 At least one cooling test must be conducted at the full-load cooling capacity
(c) Refrigerator	All	— ISO 15502 (2005) or IEC 62552 (2007)

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**SECOND SCHEDULE**

Regulation 5(2)(c)

**FEES**

1. Application to register the following regulated goods:
  - (a) air-conditioner \$38
  - (b) chiller \$160
  - (c) refrigerator \$38
2. Application to renew the registration of the following regulated goods:
  - (a) air-conditioner \$20
  - (b) chiller \$160
  - (c) refrigerator \$20

**Notes:**

1. The fee in paragraph 1 is not payable on an application by a person who has —
  - (a) registered the same model of regulated goods under section 13(2) of the Energy Conservation Act 2012; or
  - (b) applied to register the same model of regulated goods in accordance with regulation 4 of the Energy Conservation (Regulated Goods and Registered Suppliers) Regulations 2017 (G.N. No. S 748/2017).
2. The fee in paragraph 2 is not payable on an application by a person who has —
  - (a) registered the same model of regulated goods under section 13(2) of the Energy Conservation Act 2012; or
  - (b) applied to register the same model of regulated goods in accordance with regulation 4 of the Energy Conservation (Regulated Goods and Registered Suppliers) Regulations 2017.



Made on 31 March 2022.

LEE CHUAN SENG  
*Chairperson,*  
*National Environment Agency,*  
*Singapore.*

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