NOTIFICATION

The following notification is being circulated in accordance with Article 10.6

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| **1.** | **Notifying Member:** Singapore **If applicable, name of local government involved (Article 3.2 and 7.2):**  |
| **2.** | **Agency responsible:** National Environment Agency (NEA)**Name and address (including telephone and fax numbers, email and website addresses, if available) of agency or authority designated to handle comments regarding the notification shall be indicated if different from above:**  |
| **3.** | **Notified under Article 2.9.2 [****X],** **2.10.1 [****],** **5.6.2 [****],** **5.7.1 [****],** **other****:**  |
| **4.** | **Products covered (HS or CCCN where applicable, otherwise national tariff heading. ICS numbers may be provided in addition, where applicable):** HS: 8415:10XX; Variable refrigerant flow (VRF) air-conditioner: a multi-split system is of variable refrigerant flow or VRF type if it has one or more outdoor units comprising a single refrigerant circuit, each of which has a set of refrigeration ports that services the network of indoor units through branch piping or distribution devices or both. |
| **5.** | **Title, number of pages and language(s) of the notified document:** Energy Conservation (Prescribed Regulated Goods) Order 2021 and Energy Conservation (Regulated Goods and Registered Suppliers) Regulations 2021 - notice will be published in the Republic of Singapore's Government Gazette when adopted. |
| **6.** | **Description of content:** NEA introduced the Mandatory Energy Labelling Scheme (MELS) and Minimum Energy Performance Standards (MEPS) in 2008 and 2011 respectively.The existing Energy Conservation (Prescribed Regulated Goods) Order 2017 and the Energy Conservation (Regulated Goods and Registered Suppliers) Regulations 2017 will be amended to introduce MELS and MEPS for three-phase VRF air-conditioners.Following the entry into force of this measure on 1 April 2021, all regulated three-phase VRF air-conditioner base units, to be supplied or for sale in Singapore must:* be registered;
* be labelled with an Energy Label, and
* meet MEPS requirements as shown below:

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| MEPS Requirement for Three-phase VRF air-conditioner base units |
| Integrated Energy Efficiency Ratio (IEER) ≥ 4.35whereIEER = (0.020\*COP100%) + (0.617\*COP75%) + (0.238\*COP50%) + (0.125\*COP25%)andCoefficient of Performance x% (COP) = Total Cooling Capacity (kW) Effective Power input (kW)x% refers respective cooling capacity loading |

Regulated three-phase VRF air-conditioners are to be tested according to the following standards and conditions to determine their energy performance:* ISO 15042: Multiple split-system air conditioners and air to air heat pumps – testing and rating for performance (<https://www.iso.org/standard/63408.html>)
* T1: Standard cooling capacity rating conditions for moderate climates
* Cassette type indoor units and at least 2 units shall be used during test
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| **7.** | **Objective and rationale, including the nature of urgent problems where applicable:** Objective: For the purposes of environmental protection and conservation. Rationale: Space cooling accounts for a high proportion of electricity consumption in households and buildings. The introduction of MEPS for three-phase VRF air-conditioners will reduce energy consumption and result in lower emissions of greenhouse gases from space cooling. Energy labelling (MELS) will help users select more energy efficient models, reap lifecycle cost savings and contribute to the efforts to lower emission of greenhouse gases.; Protection of the environment |
| **8.** | **Relevant documents:** 1. Energy Conservation Act
2. Energy Conservation (Prescribed Regulated Goods) Order 2017
3. Energy Conservation (Regulated Goods and Registered Suppliers) Regulations 2017
4. Energy Conservation (Composition of Offences) Regulations 2013

These four documents are available online at <https://sso.agc.gov.sg/> |
| **9.** | **Proposed date of adoption:** Notice will be published prior to the date of entry into force**Proposed date of entry into force:** 1 April 2021 |
| **10.** | **Final date for comments:** 60 days from notification |
| **11.** | **Texts available from: National enquiry point [****X]** **or address, telephone and fax numbers and email and website addresses, if available, of other body:** Mr Ng Pei ChenManager, Resource Conservation Department40 Scotts Road, #19-00 Environment BuildingSingapore 228231Tel.: (65) 6731-9113 (DID)Fax: (65) 6235-2611Email: ng\_pei\_chen@nea.gov.sgMr Tan Kim HuiEngineer, Resource Conservation Department40 Scotts Road, #19-00 Environment BuildingSingapore 228231Tel.: (65) 6731-9799 (DID)Fax: (65) 6235-2611Email: tan\_kim\_hui@nea.gov.sg |