



Republic of the Philippines
NATIONAL POLICE COMMISSION
NATIONAL HEADQUARTERS, PHILIPPINE NATIONAL POLICE
OFFICE OF THE CHIEF, PNP
Camp BGen Rafael T Crame, Quezon City

MEMORANDUM CIRCULAR
NO.: 2020 - 079

NOV 19 2020

**PRESCRIBING THE MINIMUM TECHNICAL SPECIFICATIONS FOR
ONE HORSEPOWER (1HP) SPLIT TYPE AIR CONDITIONER**

1. REFERENCES:

- a. NAPOLCOM Resolution No. 2020-0047: "Prescribing the Minimum Standards for Split Type Air-Conditioner";
- b. NAPOLCOM Memorandum Circular (MC) No. 2019-002 entitled: "Defining the Duty and Authority of the NAPOLCOM to Prescribe Minimum Standards for Uniforms, Arms, and Equipment to be Procured by the PNP" dated January 29, 2019;
- c. PNP MC No. 2019-016 entitled "Implementing Guidelines of NAPOLCOM Resolution No. 2019-002 Defining the Commission's Function to Prescribe Minimum Standards for Uniforms, Arms and Equipment for the Philippine National Police and Delineation of Authority to the Chief, Philippine National Police and to Set Technical Specifications of PNP Uniforms, Arms and Equipment" dated April 4, 2019; and
- d. PNP UESB Resolution No. 2020-006 entitled: Proposed Minimum Technical Specifications of 1 Horsepower (HP) Split Type Air Conditioner.

2. RATIONALE:

This Memorandum Circular (MC) sets forth the minimum technical specifications for 1HP Split Type Air Conditioner to be used in PNP buildings and facilities.

3. SITUATION:

The present technology in air conditioning provides a variety of applications in terms of design and better air distribution. A split type air conditioner comprises of two separate units, while a window air conditioner sums an all-in-one design. This means that the compressors, motors, connecting pipes, and heat-exchanging devices are all housed in one unit.

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The split type air conditioners are more flexible in terms of installation locations in the PNP offices/units. Whereas, window units generally require a certain size and shape window thus, block much of the natural light when installed. On the other hand, the indoor portion of a split type air conditioner can be installed anywhere on the wall of a room, making it easy to fit into the design of any offices.

To provide an even cooling throughout PNP offices/units which can be provided by the split type air conditioning system, there is a necessity to formulate the minimum technical specifications for split type air conditioning system. Consequently, split type air conditioners can provide significant savings for larger office cooling works.

4. PURPOSE:

To provide and establish the minimum technical specifications for 1HP Split Type Air Conditioner that will serve as reference in the procurement of the said air conditioning system.

5. DEFINITION OF TERMS:

For purposes of this MC, the following terms shall mean:

- a. **British Thermal Unit (BTU)** – is a unit of heat; it is defined as the amount of heat required to raise the temperature of one pound of water by one-degree Fahrenheit.
- b. **Condenser** – is the outdoor portion of an air conditioner or heat pump that either releases or collects heat, depending on the time of the year. The compressor is the heart of the system since it compresses the refrigerant and pumps it to a coil in the form of a hot gas.
- c. **Cooling Capacity** – refers to the amount of cooling that a central air conditioner (or a heat pump in cooling mode) can provide. It is most measured as the number of BTUs per hour of heat that the unit can remove from the air. One ton is equal to 12,000 BTU/h.
- d. **Decibel (dB)** – is a degree of loudness.
- e. **Energy Efficiency Ratio (EER)** – is the ratio of the cooling capacity (in British thermal units [Btu] per hour) to the power input (in watts). The higher the EER rating, the more efficient the air conditioner.
- f. **Evaporator** – removes heat from the area that is to be cooled. The desired temperature of cooling of the area will determine if refrigeration or air conditioning is desired.
- g. **Horsepower (HP)** – is used to measure engine power under the imperial weights and measures system.
- h. **Kilojoules** – is a unit of measurement equal to 1,000 joules (measure of energy or work done).

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- i. **Power Supply** – is a source of power that supplies electric power to an electrical load.
- j. **Single Phase (1Φ)** – is a circuit or device that generates or uses a single alternating voltage.

6. TECHNICAL SPECIFICATIONS:

a. Description:

1HP Split Type Air Conditioner is comprised of two separate units, an outdoor unit, and an indoor unit (floor, wall, or ceiling mounted design). The split type air conditioning system can remove heat and provide optimal cooling effect to a given size of room that remains relatively constant despite changes in external weather conditions or internal heat loads. Likewise, it has a cooling capacity corresponding to the space/floor area that needs cooling and operates quietly.

b. Technical Specifications:

Particulars	Technical Specifications
1) System	Evaporator and Condenser
2) Cooling Capacity	9,200 BTU/h (9,706.51kJ/h)
3) Energy Efficiency Ratio (EER)	12.50kJ/hr-W
4) Maximum Sound Level	40dB
5) Power Supply	Philippine Standard
6) Phase	Single Phase (1Φ)
7) Frequency	Philippine Standard

7. EFFECTIVITY:

This MC shall take effect immediately after 15 days from filing a copy thereof at the UP Law Center in consonance with Section 3, Chapter 2, Book VII of Executive Order 292 otherwise known as the "Revised Administrative Code of 1987," as amended.

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