



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

PNP MEMORANDUM CIRCULAR

No. 2020-015

14 MAR 2020

**PRESCRIBING THE TECHNICAL SPECIFICATIONS FOR TECHNICAL
REBREATHER (CLOSED CIRCUIT)**

1. REFERENCES:

- a. NAPOLCOM Resolution No. 2019-712 entitled: "Prescribing the Minimum Standards for Technical Rebreather (Closed Circuit)" dated September 19, 2019;
- b. NAPOLCOM 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; and
- c. PNP Memorandum Circular 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.

2. RATIONALE:

This Memorandum Circular (MC) sets forth the technical specifications and subsequent formulation of test and evaluation parameters for the conduct of physical inspection (visual and dimensional), functional, and laboratory (as deem necessary and applicable) for Technical Rebreather (Closed Circuit).

3. PURPOSE:

- a. To establish the technical specifications for Technical Rebreather (Closed Circuit); and
- b. To ensure that the technical specifications are in conformity with the approved NAPOLCOM Minimum Standards for Technical Rebreather (Closed Circuit).

4. MINIMUM TECHNICAL SPECIFICATIONS:

Technical Rebreather (Closed Circuit) is an underwater apparatus with face mask and gas supply forming a closed system having two breathing gasses (Closed

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Chief

Circuit Mixed Gas), one is pure oxygen and the other is a diluent or diluting gas such as nitrox, heliox or trimix;

The following are the technical specifications for Technical Rebreather (Closed Circuit):

Particulars	Technical Specifications
A. Counter Lung/Breathing Bag	
a. Breathing Gas	Oxygen/Nitrox/Trimix/Heliox Other Gas Mixture
b. Working Principle	Closed Circuit
c. Volume of the Counter Lung Capacity	6 liters
B. Gas Cylinders	
a. Oxygen Cylinder	3 to 10 liters
b. Diluent Cylinder	3 to 10 liters
C. Head Up Display (HUD)/ Monitoring Device (Pressure Oxygen (PO₂) Etc)	With Head Up Display (HUD)
D. Scrubber Duration	4 hours
E. Performance	Non- Magnetic
F. Minimum Depth Capability	100m
G. Bailout System	3 liters (Emergency Gas Supply)
H. Counter Lung Location	Back Mounted
I. International Safety Standards	<p>Equipment designed shall be tested and validated to high certification standards (Rebreather Training Council (RTC) and the Rebreather Education and Safety Association(RESA), or third party audited quality management system;</p> <p>Work of Breathing (WoB) testing Scrubber duration Mechanical testing (EN14143:2003 Section 6.5 or equivalent);</p> <p>EN61000 or other EMI testing (if electronics are fitted)</p>

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5. REPEALING CLAUSE:

All other technical specifications contrary to or inconsistent with the provisions of these technical requirements are hereby rescinded, modified or amended.

6. EFFECTIVITY:

This MC shall be effective 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.



[Signature]
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