



SUPPRESSION SYSTEMS MANUFACTURER
5685 GREENO DR. HORN LAKE, MS
APOKRISIS662@GMAIL.COM
(901)-633-0642

FFL/SOT 1-64-033-07-9C-07143

PRODUCTION NOTIFICATION TECHNICAL DESCRIPTION

PEDRO V2

MANUFACTURER: APOKRISIS
FFL/SOT: 1-64-033-07-9C-07143
LOCATION: HORN LAKE, MISSISSIPPI

I. Device Classification

- Type of Firearm: Silencer / Suppressor
- Model Designation: PEDRO (Rimfire Pistol Performance Variant)
- LENGTH: 7.5 INCHES

II. PHYSICAL ARCHITECTURE & CONSTRUCTION MATERIALS

Construction Typology: Hybrid Composite-Metallic Monolithic Core System

STRUCTURAL & MATERIAL SPECIFICATIONS

The PEDRO V2 features an advanced hybrid-material architecture designed to optimize radial pressure containment and external thermal dissipation. The monolithic internal baffle structure is housed within an integrated polymer matrix outer shell of increased thickness.



SUPPRESSION SYSTEMS MANUFACTURER
5685 GREENO DR. HORN LAKE, MS
APOKRISIS662@GMAIL.COM
(901)-633-0642

FFL/SOT 1-64-033-07-9C-07143

The exterior surface of the outer shell incorporates custom longitudinal retention channels designed to interface with high-tensile, thermal-conductive aluminum reinforcement slats.

This exostructure performs two primary engineering functions:

1. **Tensile Reinforcement:** The interlocking array of aluminum slats functions as a rigid load-bearing cage, intercepting peak hoop stress (radial expansion force) generated during the initial high-pressure gas expansion phase.
2. **Conductive Heat Sinking:** The external exposure of the metallic slats establishes direct-air thermal pathways, accelerating heat dissipation away from the composite core to mitigate thermal saturation during sustained firing sequences.

III. METHOD OF OPERATION & SIGNATURE REDUCTION MECHANICS

The device actively mitigates muzzle pressure waves, extreme decibel output, and signature frontiers strictly through volumetric mechanical collection, gas shearing, and slowed velocity dispersion:

1. **Blast Interception:** Upon host pistol discharge, hot, high-velocity rimfire propellant gases instantly vent into the localized primary blast chamber, experiencing an immediate drop in baseline pressure velocity.
2. **Linear Gas Cutting:** The advancing gas matrix is continuous cut, rotated, and swirled down the linear baffle stack. The integrated geometry forces the gas into independent expansion pockets, creating turbulent flow resistance and delaying exit acceleration.
3. **Decibel and Flash Neutralization:** By lengthening gas retention times and flattening the expansion delta at the front end-cap aperture, the violent



SUPPRESSION SYSTEMS MANUFACTURER
5685 GREENO DR. HORN LAKE, MS
APOKRISIS662@GMAIL.COM
(901)-633-0642

FFL/SOT 1-64-033-07-9C-07143

acoustic report is dropped below the hearing-safe threshold (eliminating the requirement for external ear protection during range use), while simultaneously choking out muzzle flash signatures.

IV. MANUFACTURER CERTIFICATION AND MANDATORY MARKINGS

This device is manufactured under the authority of APOKRISIS (FFL Type 07 / SOT Class 02) in Horn Lake, MS. The monolithic housing structure features legal registration data digitally embedded into the 3D geometry file or deep-engraved to a minimum compliant relief depth of .003 inches in absolute compliance with 27 CFR § 479.102, formatted as follows:

APOKRISIS
HORN LAKE, MS, USA
.22 LR
MODEL: PEDRO
SERIAL NUMBER

SUBMITTED BY:
DERRICK WHITE
OWNER : APOKRISIS
USMC / RETIRED
FFL/SOT