

# ECOLOGY BOX

INNOVATIVE TECHNICAL SOLUTIONS  
HIGH QUALITY  
COMPETITIVE PRICES  
EXPERIENCED WORKFORCE

## Functions

Retains fluids leakages from the engine equipments for an environment friendly engine (ISO14001)

Permits preventing troubleshooting of equipment by visual monitoring of leakage levels



## 1. Status

Qualification in progress

## 2. Main performance

High flow evacuation without restriction

Centralized manual emptying mechanism (actuated without special device)

Proof pressure 0.8 bars relative (26.3 psi absolute)

Operating temperature -60 to 130°C (-76 to 266°F)

Weight 3.9 kg (8.6 lb)

Maximum containment capacity 0.25 L (15.26 in<sup>3</sup>)

Time for emptying <60 s at 0°C (32°F)

Multi fluids (fuel, oil, water, skydrol...)

## 3. Reliability / maintainability

Reliability MTBF 105 000FH (70 000 emptying cycles) Maintainability LRU

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**EQUIP'AERO**  
TECHNIQUE

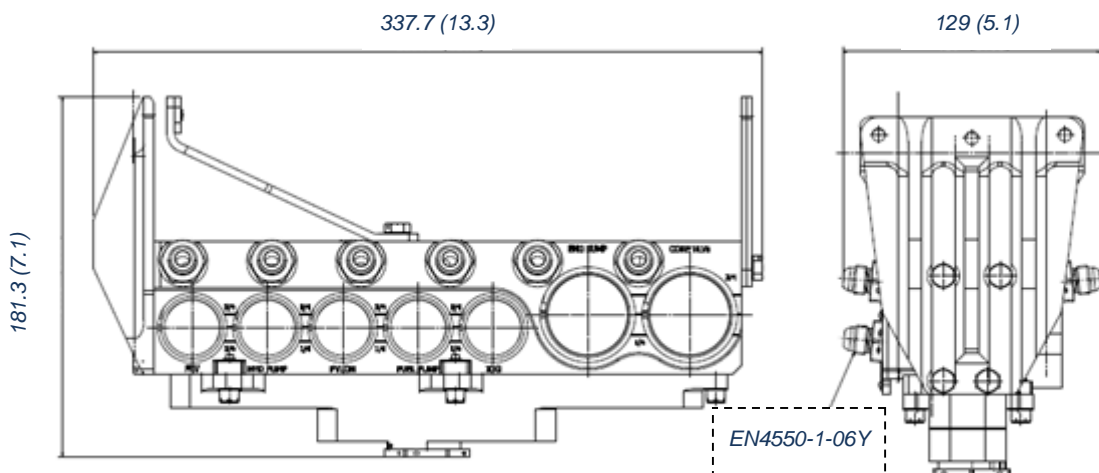
**Certified**  
EN9100  
Part 21G  
ISO 14001

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## 4. Mechanical interfaces

functional dimensions unit : mm (in)



## 5. Qualification environment

#	Requirement	Applicable standard
1	Proof Pressure	AR/FAR/CS 25.1438
2	Burst Pressure	AR/FAR/CS 25.1438
3	High / Low Temperature	RTCA-DO-160E, section 4, cat. D3
4	Temperature Variation	RTCA-DO-160E, section 5, cat. A
5	Explosion Proof	RTCA-DO-160E, section 9, environment III
6	Mechanical shocks / Acceleration	RTCA-DO-160, section 7, cat. B
7	Endurance	70 000 opening / closing cycles
8	Vibration	RTCA-DO-160E, section 8, cat. R, curve W (Figure 8-2)
9	Post FBO Vibration : Safe Engine	Customer specification
10	Post FBO Vibration : Unsafe Engine	
11	Altitude / Pressure Variation	RTCA-DO-160E, section 4, cat. D3
12	Humidity	RTCA-DO-160E, section 6, cat. B
13	Waterproofness	RTCA-DO-160E, section 10, cat. W
14	External Contaminant	RTCA-DO-160E, section 11, cat. F
15	Sand and Dust	RTCA-DO-160D, section 12, cat. D
16	Fungus Resistance	RTCA-DO-160E, section 13, cat. F
17	Salt Fog	RTCA-DO-160E, section 14, cat. S
18	Icing	RTCA-DO-160E, section 24, cat. A

## 6. Equipment adaptations

Performance and technologies adaptable on customer request (electrical emptying mechanism)

Large possible adaptations of equipment performance (fluid pressures and flow) and mechanical interfaces.

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