COMMUNITY AEROSOL INLET

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With the support of SAFIRE
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Fabricated by COMAT
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<th>Characteristics</th>
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| **TURBULENCE:** | Controlled alignment (0.2°)  
Shroud  
Real-time control of isokinetic flow  
Elliptic lips  
3.5° diffuser  
Polished stainless steel tubes |
| **INERTIAL LOSSES:** | 600 mm curvature radius |
| **GRAVITATIONAL LOSSES:** | 3 m/s air speed after diffuser  
Direct connection to the aerosol rack |
| **ADDITIONAL LOSSES:** | Electric continuity  
Temperature control |
OVERALL VIEW

External mass: 3.2 kg,
Internal mass: 7.35 kg
Center of mass: 12.8 cm inside

Pitot tube
Inlet head
Aicraft window
Aligment actuators
Safety brake
Two actuators control (0.01 mm) the alignment.
TAS = 150 m/s, $T_{\text{ext}} = -10 \, ^{\circ}\text{C}$, $T_{\text{veine}} = +10 \, ^{\circ}\text{C}$, $q_l = 1 \, \text{g/m}^3$

2 THERMOCOAX for the diffuser (97 W) and the shroud (184 W)
ON THE SAFIRE ATR-42
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