



# ISOAFS-ALU

## INSULATED ALUMINIUM FLEXIBLE AIR DUCTS

- ISOAFS-ALU thermally insulated aluminium flexible ducts are specifically produced for low and medium pressure heating, cooling, ventilation and air conditioning systems.
- Airtight ISOAFS-ALU is produced from multi-layer aluminium and polyester, strengthened with high tension hard steel spring wire, surrounded with glass wool insulation and an aluminium vapour barrier.
- ISOAFS-ALU has high elasticity and flexibility. It can be easily fitted to circular, oval or rectangular connectors.
- The fire resistance of ISOAFS-ALU has been tested and certified by various international bodies.



TYPES	ISOAFS-ALU.70	ISOAFS-ALU.F
Inner Duct Construction	3 ply Aluminium, 2 ply Polyester	3 ply Aluminium, 1 ply Polyester
Nominal Thickness of Inner Duct	70 micron	74 micron
Jacket Construction	1 ply Aluminium, 2 ply Polyester	1 ply Aluminium, 2 ply Polyester
Nominal Thickness of Jacket	45 micron	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m <sup>3</sup>	Glass wool - 25 mm - 16 kg/m <sup>3</sup>
Available Diameters (Ø)	52 mm - 800 mm	82 mm - 800 mm
Temperature Range	-30 °C / +150 °C	-30 °C / +250 °C
Air Velocity	30 m/s (max)	30 m/s (max)
Operating Pressure	3000 Pa (max)	3000 Pa (max)
Standard Length	10 m	10 m
Packing	Single Cardboard Box	Single Cardboard Box
Reaction to Fire	Difficult to Ignite + Difficult to Ignite	Limited Combustibility + Difficult to Ignite
Fire Certificates	M1 (France), Class 1 (Italy)	M0 + M1 (France), Class 0 (Italy) EN ISO 1716 (Inner Duct) Gross calorific value test report
Available Options Upon Request	Customized Lengths, Private Labeling, White Polyester Insulation, 38, 40 & 50 mm Glass Wool Insulation, 24 kg/m <sup>3</sup> Glass Wool Insulation, PE Jacket	

### PROPERTIES & ADVANTAGES

#### ALUMINIUM LAMINATED BODY

- Difficult to ignite (ISOAFS-ALU.70) • Limited combustibility + difficult to ignite (ISOAFS-ALU.F)
- High resistance to UV rays • 98% reflective • Resistant to chemicals • Impermeable to UV rays

#### FLEXIBLE & SEAMLESS CONSTRUCTION

- Easy to store • Easy to transport • Low installation cost • Airtight • Low operation and maintenance costs

#### SMOOTH INNER SURFACE

- Minimum Pressure Loss • Anti-static • Dust proof interior

#### HIGH TENSION STEEL WIRE

- High resistance • High resistance to deformation • Easy to install

#### GLASS WOOL INSULATION

- High resistance (Certified, EN 13501-1, Class A1)
- UL 723 (Flame Spread index = 0), (Smoke Developed index = 0) • No fiber erosion
- Minimal energy Loss • Perfect insulation property • No condensation

#### ALUMINIUM LAMINATED JACKET

- Difficult to ignite • High resistance to wear & tear • Impermeable to UV rays
- High resistance to UV rays • Resistant to chemicals

**AFS**  
"Motivation for ventilation"



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