

# ETAL-Therm Insulated aluminium flexible ducts



## Description

Flexible tube made with aluminum/polyester/aluminum wall and spiral in harmonious steel. Thermo insulating coating in polyester fiber (thickness 25mm/16kg/m³). External protection in aluminated poliolefinic films. Thermal resistance at 20 ° C R = 0.58m² K/W (UNI EN 12664: 2002).

## Characteristics

Colour : aluminum.  
Temperature range: from -30°C to +140°C (peaks of +180°C).  
Radius : 0,8-1,5 x Ø.  
Air speed : up to 32 m/s.  
Pressure : 2500 Pa max.

## Size

Standard 10 meters.

## Use

- air conditioning;
- mechanical ventilation.

## certifications

Italian class: Class 1 (D.M. 26/06/84)

Euroclasse  
Internal pipe:  
Class B-S1, D0 (EN 13501-1:2018).  
Paravapore:  
Class B-S1, D0 (EN 13501-1:2018).  
Thermo insulating mattress:  
Class B-S1, D0 (EN 13501-1:2018).

French class  
Internal pipe:  
Class M1 (NF P 92-507: 2004).

## Pressure drop

| ø internal ETAL-Therm |      |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|                       | 82   | 102 | 127 | 152 | 165 | 180 | 203 | 254 | 305 | 318 | 356 | 406 | 457 | 508 |  |
| air flow m³/h         | Pa/m |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 40                    |      |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 50                    | 2,5  | 0,8 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 60                    | 4    | 1,1 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 70                    | 5    | 1,5 |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 80                    | 6,5  | 2   | 0,7 |     |     |     |     |     |     |     |     |     |     |     |  |
| 90                    | 7,5  | 2,5 | 0,9 |     |     |     |     |     |     |     |     |     |     |     |  |
| 100                   | 10   | 3   | 1,1 | 0,5 |     |     |     |     |     |     |     |     |     |     |  |
| 200                   | 35   | 6,5 | 4   | 2,7 | 1,3 | 0,5 |     |     |     |     |     |     |     |     |  |
| 300                   |      | 25  | 8   | 5   | 2,5 | 1,5 | 0,9 |     |     |     |     |     |     |     |  |
| 400                   |      | 40  | 16  | 8   | 4,5 | 2,3 | 1,5 |     |     |     |     |     |     |     |  |
| 500                   |      |     | 25  | 14  | 6,7 | 3,5 | 2,3 | 0,5 |     |     |     |     |     |     |  |
| 600                   |      |     | 33  | 18  | 8   | 5   | 3   | 0,9 | 0,5 |     |     |     |     |     |  |
| 700                   |      |     |     | 25  | 13  | 6,5 | 4,2 | 1,3 | 0,7 |     |     |     |     |     |  |
| 800                   |      |     |     | 30  | 18  | 7,5 | 5   | 1,7 | 1   | 0,4 |     |     |     |     |  |
| 900                   |      |     |     | 38  | 20  | 10  | 6,5 | 2   | 1,3 | 0,7 |     |     |     |     |  |
| 1000                  |      |     |     |     | 25  | 13  | 7,5 | 2,5 | 1,5 | 0,9 | 0,2 |     |     |     |  |
| 1500                  |      |     |     |     |     | 26  | 18  | 5,5 | 3   | 1,8 | 0,8 | 0,3 | 0,2 |     |  |
| 2000                  |      |     |     |     |     |     | 30  | 8   | 5,8 | 3   | 1,8 | 0,8 | 0,3 | 0,2 |  |
| 3000                  |      |     |     |     |     |     |     | 15  | 10  | 5   | 2,8 | 1,5 | 0,8 | 0,5 |  |
| 4000                  |      |     |     |     |     |     |     | 25  | 20  | 8   | 5   | 2,8 | 1,5 | 0,8 |  |
| 5000                  |      |     |     |     |     |     |     |     | 33  | 18  | 10  | 5   | 2,3 | 1,3 |  |
| 6000                  |      |     |     |     |     |     |     |     |     |     | 15  | 7   | 3,4 | 1,9 |  |
| 7000                  |      |     |     |     |     |     |     |     |     |     | 18  | 8   | 4,6 | 2,6 |  |
| 8000                  |      |     |     |     |     |     |     |     |     |     | 23  | 11  | 6,0 | 3,4 |  |
| 9000                  |      |     |     |     |     |     |     |     |     |     | 25  | 13  | 8   | 4,3 |  |
| 10000                 |      |     |     |     |     |     |     |     |     |     |     | 17  | 9,4 | 5,4 |  |
| 12000                 |      |     |     |     |     |     |     |     |     |     |     |     | 13  | 7,7 |  |
| 14000                 |      |     |     |     |     |     |     |     |     |     |     |     | 18  | 10  |  |
| 16000                 |      |     |     |     |     |     |     |     |     |     |     |     | 23  | 13  |  |
| 18000                 |      |     |     |     |     |     |     |     |     |     |     |     | 30  | 17  |  |
| 20000                 |      |     |     |     |     |     |     |     |     |     |     |     |     | 21  |  |

## Price list

The length of the hose should to be considered in a extended position and at environment temperature (16/18°C - tolerance ±2%)

a.r. : price on request

| Item normally available from stock |            |            |            |
|------------------------------------|------------|------------|------------|
| ø internal                         | ETAL-Therm | ø internal | ETAL-Therm |
|                                    | euro       |            | euro       |
| 82                                 | ✓          | 254        | ✓          |
| 102                                | ✓          | 305        | ✓          |
| 127                                | ✓          | 318        | ✓          |
| 152                                | ✓          | 356        | ✓          |
| 165                                | ✓          | 406        | ✓          |
| 180                                | ✓          | 457        | ✓          |
| 203                                | ✓          | 508        | ✓          |