

CONDY DUO

CONDY COPPER TUBE IN ITS COUPLED VERSION FOR AN EASIER AND QUICKER INSTALLATION THANKS TO THE WELDING BETWEEN THE INSULATION SHEATING OF THE TWO TUBES.

The ends of each tube are closed to retain the high level of cleanliness of the internal surface required for installation.

The particularly well-designed coating is made from very low-density closed cell expanded polyethylene and guarantees an excellent resistance to the spread of water vapour with a subsequent reduction in the formation of humidity on the outer surface of the tube.

The coating is odourless, non-toxic and made without the use of CFCs. Its external surface is corrugated giving further mechanical protection. It is classified as Class 1 fire resistant and is suitable for use in systems with operating

INSULATION DENSITY	:	45 kg/m³
THICKNESS OF THE INSULATING SHEATH	:	from 6 to 10 mm
USAGE TEMPERATURE	:	-80 °C +120 °C
WATER VAPOUR DISPERSION COEFFICIENT	:	5482
THERMAL CONDUCTIVITY	:	0,0397 W · m ⁻¹ · K ⁻¹
FIRE RESISTANCE	:	Class 1 (self-extinguishing)
WRAPPING	:	coils individually wrapped with transparent film giving further protection

CONDY DUO COPPER TUBE



temperatures ranging from -80°C to +120°C.

The **CONDY DUO** copper tube is supplied in different lengths based on customer requests and is marked at intervals also indicating the relative metres.

The core of the **CONDY DUO** is the **SILMET ICE** copper tube manufactured according to the European standard EN 12735-1 and with a level of internal cleanliness that also complies with standard ASTM B280.



CHARACTERISTICS OF THE ICE COPPER TUBE	
Alloy	Cu-DHP CW024A (Cu = 99.90% min. – P = 0.015 – 0.040%)
Physical state	Annealed
Unit tensile strength	220 MPa/mm² min.
Elongation percentage	40% min.
Internal cleanliness	C max. 0.20 mg/dm²
Dimensions and tolerances ¹	according to standard EN 12735-1
Internal surface roughness	RA 1/10 micron
Linear thermal expansion coefficient	0.00168 mm/m °C
Thermal conductivity at 20 °C	364 W/m k

¹ Products with different marking, tolerances and lengths can be supplied on request from the customer

TABLE OF DIMENSIONS OF THE SILMET CONDY COPPER TUBE *			
dimensions without insulation mm x mm – mm x mm In-mm – in-mm	thickness of insulating sheat mm	bursting pressure MPa	operating pressure MPa
6,35 x 0,70 – 9,52 x 0,70 1/4 x 0,70 – 3/8 x 0,70	6-6	49,47-33,00	12,37-8,25
6,35 x 0,70 – 12,70 x 0,70 1/4 x 0,70 – 1/2 x 0,70	6-10	49,47-24,74	12,37-6,18
6,35 x 0,70 – 15,87 x 0,80 1/4 x 0,70 – 5/8 x 0,80	6-10	49,47-22,62	12,37-5,66
6,35 x 0,80 – 9,52 x 0,80 1/4 x 0,80 – 3/8 x 0,80	6-6	56,54-37,71	14,14-9,43
6,35 x 0,80 – 12,70 x 0,80 1/4 x 0,80 – 1/2 x 0,80	6-10	56,54-28,27	14,14-7,07
6,35 x 0,80 – 15,87 x 1,00 1/4 x 0,80 – 5/8 x 1,00	6-10	56,54-28,28	14,14-7,07
6,35 x 1,00 – 9,52 x 1,00 1/4 x 1,00 – 3/8 x 1,00	6-6	70,68-47,14	17,67-11,79
6,35 x 1,00 – 12,70 x 1,00 1/4 x 1,00 – 1/2 x 1,00	6-10	70,68-35,34	17,67-8,83
6,35 x 1,00 – 15,87 x 1,00 1/4 x 1,00 – 5/8 x 1,00	6-10	70,68-28,28	17,67-7,07
9,52 x 0,70 – 15,87 x 0,80 3/8 x 0,70 – 5/8 x 0,80	6-10	33,00-22,62	8,25-5,66
9,52 x 0,80 – 15,87 x 1,00 3/8 x 0,80 – 5/8 x 1,00	6-10	37,71-28,28	9,43-7,07
9,52 x 1,00 – 15,87 x 1,00 3/8 x 1,00 – 5/8 x 1,00	6-10	47,14-28,28	11,79-7,07

* Coil length and palletisation are customisable

The packs cannot be stacked.
A maximum of 2 packs with a large diameter (h 220 x Ø 90 cm) and available for other coated products, are loaded onto the pallet side-by-side together with a third smaller pallet.
The others can be loaded side-by-side in threes.

