

PairCoilMAX™

PREMIUM
PRE-INSULATED
ANNEALED
COPPER PAIRCOIL



USAGE

- Fire rating
- Thermal insulation
- Split system air conditioners
- All sizes suitable for R410A refrigerant
- Condensation prevention



FIRE RETARDANT PAIRCOIL

A fast and easy solution that meets Australian building code requirements.

- Backed by MM Kembla's reputation for quality, service and customer care for over 100 years.
- Meets Building Code of Australia fire safety regulations.
- Nitrile rubber foam is "Green Building" compliant.
- Available in 13mm and 19mm profile specifically designed to prevent condensation in high humidity areas.
- Easy installation. No glue, tape or messy powder.
- 18-20m rolls of pre-insulated copper paircoils allows you to install your pipework in less than half the time of conventional methods.
- Profile developed for easy splitting during insulation.

PairCoilMAX™

PHYSICAL DIMENSIONS

Kembla product code	Copper tube outside diameter x wall thickness (mm)	Copper tube outside diameter (inches)	R-Values	Paircoil length (m)	Total pack weight (kg)	Carton dimensions (cm)	Cartons per pallet
13mm							
T99615	6.35 x 0.81 - 9.52 x 0.81	1/4 - 3/8	0.7	20	11.36	73 x 18 x 75	8
T99625	6.35 x 0.81 - 12.70 x 0.81	1/4 - 1/2	0.6	20	13.00	73 x 18 x 75	8
T99635	6.35 x 0.81 - 15.88 x 1.02	1/4 - 5/8	0.6	20	16.58	77 x 23 x 79	6
T99655	9.52 x 0.81 - 15.88 x 1.02	3/8 - 5/8	0.6	20	18.22	77 x 23 x 79	6
19mm							
T99715	6.35 x 0.81 - 9.52 x 0.81	1/4 - 3/8	1.1	18	12.90	86 x 23 x 88	6
T99725	6.35 x 0.81 - 12.72 x 0.81	1/4 - 1/2	1.0	18	14.38	86 x 23 x 88	6
T99735	6.35 x 0.81 - 15.88 x 1.02	1/4 - 5/8	1.0	18	18.05	101 x 23 x 103	5
T99755	9.52 x 0.81 - 15.88 x 1.02	3/8 - 5/8	1.0	18	19.52	101 x 23 x 103	5
T99765	9.52 x 0.81 - 19.05 x 1.14	3/8 - 3/4	0.9	18	23.09	101 x 23 x 103	5

Other sizes available upon request. For further information please contact MM Kembla.

COPPER TUBE SAFEWORKING PRESSURE (kPa)

Copper Tube Dimensions Metric (mm)	SWP (kPa)		
	@50°C	@65°C	@75°C
6.35 x 0.81	10,635	9,545	8,820
9.52 x 0.81	6,800	6,105	5,640
12.70 x 0.81	4,995	4,480	4,140
15.88 x 1.02	5,030	4,515	4,170
19.05 x 1.14	4,697	4,181	3,895

INSULATION PROPERTIES

Material	Highly flexible 13mm and 19mm paired tubular closed cell elastomeric nitrile rubber foam
Thermal Conductivity	0.034 W/m.K at 23°C
Water Absorption	0.0029 g/100cm ²
Vapour Barrier	≥10,000μ
Mildew Resistance	No fungal growth
Working Temperature	-200°C - +116°C Range

BCA COMPLIANCE

Fire Hazard Properties

Meets the requirements of Specification C1.10-7 "Fire Hazard Properties" (BCA Vol 1, 2019). Tested in accordance with the Requirements of AS1530.3:1999.

Spread of Flame Index 0
Smoke Development Index 5

Pipe Insulation

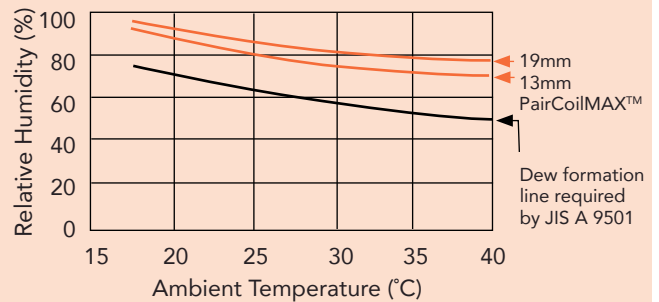
Meets the requirements of insulation material in accordance with AS/NZS 4859.1:2000

The requirements for Insulation on pipes as outlined in Part J5.8 (BCA Vol.1, 2019) and Part 3.12.5 (BCA Vol 2, 2019). The BCA requires only total material R-Values be used. For R-Values greater than R1.1 contact our customer service centre to discuss your specific project requirements.

Copper

Manufactured to AS/NZS1571. Recommended maximum operating temperature is 65°C and in accordance with AS1677. A/C manufacturer's operating and installation instructions should be consulted.

DEW POINT GRAPH



ENVIRONMENTAL CREDENTIALS

Copper Tube Copper is 99.9% pure copper and 100% recyclable. Specified for high pressure, low ozone depletion refrigerant gasses.

Foam Insulation Zero Ozone Depleting Potential
Zero Global warming Potential
Low VOC
Low VOC Adhesives
HCFC and CFC free
Complies with "Emi-9 Insulant ODP" as specified in the Green Star Technical Manuals, published by the Green Building Council of Australia.

CAUTION

Product data, design details, performance figures, advice and other information given herein (the "Information") is provided only as a guide to available information. MM Kembla does not accept any liability whatsoever (including arising from negligence) for the accuracy of the Information and for injuries, expense or loss, which may arise as a result of the use of the Information by the recipient.

PairCoil ONYX

REINFORCED
PRE-INSULATED
ANNEALED
COPPER COIL



USAGE

- Split System Air Conditioning
- AS 1571: 2020 Copper – Seamless tubes for air-conditioning and refrigeration
- All sizes suitable for R410A & R32 refrigerant



STRONG EXTERIOR PAIRCOIL ONYX

Embossed reinforced PE exterior for easy, trouble-free installation.

- Backed by MM Kembla's reputation for quality, service and customer care for over 100 years.
- Easy installation. No glue, tape or messy powder.
- Embossed exterior layer for greater strength and prevention of tearing, catching and creasing through tight spaces.
- Flame Spread Index of 15 and Smoke Developed Index of 90 when tested in accordance with ASTM E84-21a.
- 20m rolls of pre-insulated copper paircoils allows you to install your pipework in less than half the time of conventional methods.
- Operating temperatures between -40°C and 120°C

PairCoil ONYX

PHYSICAL DIMENSIONS

Kembla product code	Copper tube outside diameter x wall thickness (mm)	Copper tube outside diameter (inches)	R-Values	Paircoil length (m)	Total pack weight (kg)	Carton dimensions (cm)	Cartons per pallet
T99517	6.35 x 0.81 - 9.52 x 0.81	1/4 - 3/8	0.3	20	8.0	54 x 54 x 17	24
T99527	6.35 x 0.81 - 12.70 x 0.81	1/4 - 1/2	0.3	20	9.7	60 x 60 x 19	24
T99537*	6.35 x 0.81 - 15.88 x 1.02	1/4 - 5/8	0.3	20	13.3	72 x 72 x 19	8
T99547*	9.52 x 0.81 - 12.70 x 0.81	3/8 - 1/2	0.3	20	11.8	61 x 61 x 19	8
T99557*	9.52 x 0.81 - 15.88 x 1.02	3/8 - 5/8	0.3	20	14.8	72 x 72 x 19	8
T99567*	9.52 x 0.81 - 19.05 x 1.14	3/8 - 3/4	0.3	20	18.0	72 x 72 x 25	6
T99577*	12.70 x 0.81 - 19.05 x 1.14	1/2 - 3/4	0.3	20	19.8	72 x 72 x 25	6

*Sizes available upon request. Lead times may apply. For further information please contact MM Kembla.

PAIRCOIL ONYX LAYERS



INSULATION PROPERTIES

Material Polyethylene (PE) outer layer, Irradiation Cross-linked Polyolefin (IXPE) middle layer, Low Density Polyethylene (LDPE) closed cell inner layer.

Thermal Conductivity <0.043 W/m.k at 20°C

Working Temperature -40°C -120°C Range

Tensile Strength >14MPa

Water Absorption <2.0%

Thickness Shrinkage <7%

Flame Spread Index* FSI 15

Smoke Developed Index* SDI 90

BCA COMPLIANCE

Fire Hazard Properties

When subjected to the conditions specified in ASTM E84-21a "Standard Test Method for Surface Burning Characteristics of Building Materials" - this product:

Spread of Flame Index 15
Smoke Development Index 90

Pipe Insulation

This product has not been tested to AS1530.3 - Methods of fire test on building material components and structures. If a fire retardant paircoil is required, MM Kembla recommends the use of PairCoilMAX.

Copper

Manufactured to AS/NZS1571. Recommended maximum operating temperature is 65°C and in accordance with AS1677. A/C manufacturer's operating and installation instructions should be consulted.

COPPER TUBE SAFEWORKING PRESSURE (kPa)

Copper Tube Dimensions Metric (mm)	SWP (kPa)		
	@50°C	@65°C	@75°C
6.35 x 0.81	10,635	9,545	8,820
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15.88 x 1.02	5,030	4,515	4,170
19.05 x 1.14	4,697	4,181	3,895

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PairCoil

PRE-INSULATED
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COPPER
PAIRCOIL



USAGE

- Split system air conditioners
- All sizes suitable for R410A refrigerant
- Condensation prevention



STANDARD PAIRCOIL

**With a tough exterior surface
for easy installation.**

- Backed by MM Kembla's reputation for quality, service and customer care for over 100 years.
- Easy installation. No glue, tape or messy powder.
- 20m rolls of pre-insulated copper paircoils allows you to install your pipework in less than half the time of conventional methods.
- UV protection.
- Resistance to abrasion and wear and tear.
- Can be pushed through tight spaces without being caught or torn.

PairCoil

PHYSICAL DIMENSIONS

Kembla product code	Copper tube outside diameter x wall thickness (mm)	Copper tube outside diameter (inches)	R-Values	Paircoil length (m)	Total pack weight (kg)	Carton dimensions (cm)	Cartons per pallet
T99515	6.35 x 0.81 - 9.52 x 0.81	1/4 - 3/8	0.2	20	8.19	59 x 18 x 61	24
T99525	6.35 x 0.81 - 12.70 x 0.81	1/4 - 1/2	0.2	20	9.92	65 x 18 x 67	24
T99535	6.35 x 0.81 - 15.88 x 1.02	1/4 - 5/8	0.2	20	13.37	73 x 18 x 75	8
T99555	9.52 x 0.81 - 15.88 x 1.02	3/8 - 5/8	0.2	20	15.12	77 x 23 x 79	8
T99565	9.52 x 0.81 - 19.05 x 1.14	3/8 - 3/4	0.2	20	18.30	80 x 23 x 82	6

COPPER TUBE SAFEWORKING PRESSURE (kPa)

Copper Tube Dimensions Metric (mm)	SWP (kPa)		
	@50°C	@65°C	@75°C
6.35 x 0.81	10,635	9,545	8,820
9.52 x 0.81	6,800	6,105	5,640
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BCA COMPLIANCE

Pipe Insulation

This product has not been tested to AS1530.3 - Methods of fire test on building material components and structures. If a fire retardant paircoil is required, MM Kembla recommends the use of PairCoilMAX.

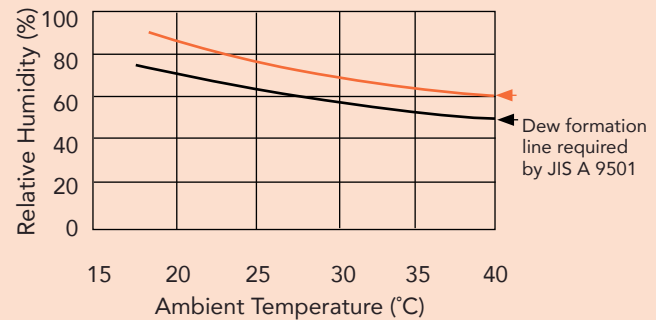
Copper

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INSULATION PROPERTIES

Material	Highly flexible paired, cross linked, closed cell polyethylene
Thermal Conductivity	0.037 W/m.K at 20°C
Tensile Strength	34.2 (3.49)min N/cm2 (kgf/cm2)
Water Absorption	0.0076 max g/100cm2
Thickness Shrinkage (%)	5% max @(120 ± 5°C)
Coefficient of moisture permeability	10 (0.005) max (per 25mm in thickness) ng/m2•s•Pa (g/m2•h•mmHg)
Working Temperature	Up to 120°C

DEW POINT GRAPH



INSTALLATION

- Kembla PairCoil copper tube is recommended to be flare jointed. If brazing is necessary, all safety precautions should apply. Refer to installation instruction included with each Kembla PairCoil carton.
- If tight bending is required, the insulation can be cut back to accommodate a tube bender. Alternatively a length of polyethylene tube can be inserted to prevent kinking.

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