KEMBLA

# 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 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.

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# 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/100cm2 |
| **Vapour Barrier** | ≥10,000μ |
| **Mildew Resistance** | No fungal growth |
| **Working Temperature** | -200°C - +116°C Range |

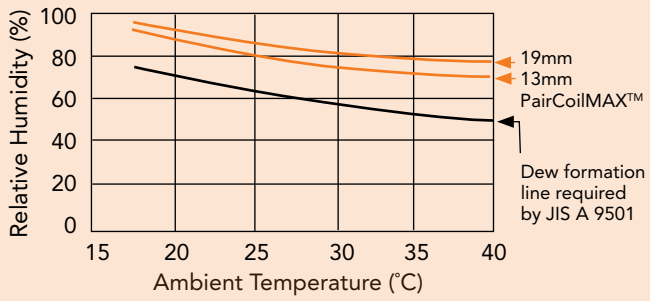
## BCA COMPLIANCE

**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<br>Zero Global warming Potential<br>Low VOC<br>Low VOC Adhesives<br>HCFC and CFC free<br>Complies with"Emi-9 Insulant ODP" as specified in the Green Star Technical Manuals, published by the Green Building Council of Australia. |

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## 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 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.

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# 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 |
| 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

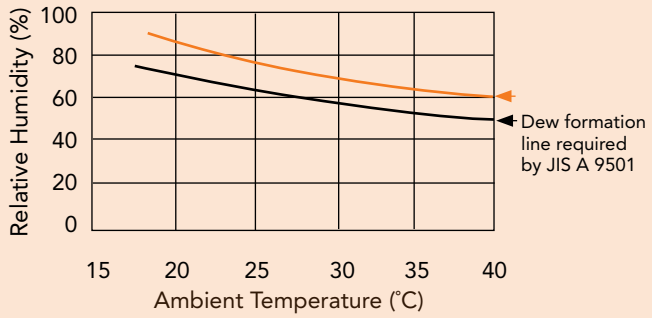
| | |
|---|---|
| **Material** | Highly flexible paired, cross linked, closed cell polyethylene |
| **Thermal Conductivity** | 0.037 W/m.K at 20°C |
| **Tensile Strength** | 34.2 (3.49)min N/cm2 (kgf/cm2) |
| **Water Absorption** | 0.0076 max g/100cm2 |
| **Thickness Shrinkage (%)** | 5% max @(120 ± 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 |

## 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**
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




## 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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**For further information please contact your MM Kembla representative, customer service or visit our website.**

**MM Kembla**, ABN 13 003 762 641
Gloucester Boulevarde,
PO BOX 21, Port Kembla, NSW 2505
T: 1800 804 631 F: 1800 817 846
E: sales@kembla.com.au
**www.kembla.com.au**

**MM Kembla New Zealand**
263 Ti Rakau Drive, East Tamaki, Auckland, 2013
PO Box 51 525, Pakuranga, Auckland, 2140
T: +64 9 274 0111 F: +64 9 274 0347
E: sales@kembla.co.nz
**www.kembla.co.nz**

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