

PairCoil

PRE-INSULATED
ANNEALED
COPPER
PAIRCOILS



USAGE

- Split System Air Conditioners
- General Air Conditioning and Refrigeration Installations
- All Sizes suitable for R410A Refrigerant as shown by pink end-caps

BENEFITS

- Manufactured to Australia / New Zealand standard AS/NZ 1571.
- Premium quality Australian copper.
- Exterior insulation is stronger and more resistant to abrasion than traditional materials.
- Superior dew-point characteristics.
- Ozone friendly. MM Kembla Paircoil is suitable for the new R410A and CO₂ Ozone friendly refrigerant.
- Easy installation. No glue, no tape, no messy powder.
- Install your pipework in less than half the time.
- MM Kembla Paircoil is stocked nationwide for prompt delivery.
- Backed by MM Kembla's reputation for quality, service and customer care.

FEATURES

- Thicker 10mm insulation.
- Paircoil can be pushed through tight spaces without insulation being caught or torn.
- 20m coils are packed in cardboard cartons and are easily transported.
- Continuous 20m coils eliminate the need to seal joints every two metres, saving time.
- Pre-insulated annealed copper pair coils available in ¼" (6.35mm) to ¾" (19.05mm) sizes.
- Tube insulation is manufactured from cross-linked, foamed, closed cell polyethylene film.
- The exterior embossed polyethylene film contains additive to improve UV protection.
- Insulation is heat resistant to 120°C.
- All sizes are suitable for R410A and other high pressure refrigerants - identifiable by pink end caps.

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.

PAIR COIL SPECIFICATIONS SUITABLE FOR HIGH PRESSURE REFRIGERATION

Kembla product code	Copper tube outside diameter x wall thickness (mm)	Copper tube outside diameter (inches)	Paircoils length (m)	Paircoil per carton	Carton dimensions (cm)	Weight per coil (kg)
G99515	6.35 x 0.81 - 9.52 x 0.81	1/4 - 3/8	20	1	55 x 55 x 18	7.5
G99525	6.35 x 0.81 - 12.70 x 0.81	1/4 - 1/2	20	1	58 x 58 x 18	9.0
G99535	6.35 x 0.81 - 15.88 x 1.02	1/4 - 5/8	20	1	73 x 73 x 18	12.2
G99545	9.52 x 0.81 - 12.70 x 0.81	3/8 - 1/2	20	1	73 x 73 x 18	10.5
G99555	9.52 x 0.81 - 15.88 x 1.02	3/8 - 5/8	20	1	77 x 77 x 23	13.9
G99565	9.52 x 0.81 - 19.05 x 1.14	3/8 - 3/4	20	1	80 x 80 x 23	17.0
G99575	12.70 x 0.81 - 19.05 x 1.14	1/2 - 3/4	20	1	82 x 82 x 23	18.5

INSULATION PROPERTIES IN ACCORDANCE WITH JIS A9511 & KSM 3862

Thermal conductivity W/m•K mean temperature 20°C	Tensile strength N/cm2 (kgf/cm2)	Water absorption g/100cm2	Thickness shrinkage percentage @ (120 ± 5°C)	Coefficient of moisture permeability (per 25mm in thickness) ng/m2•s•Pa (g/m2•h•mmHg)
0.037	34.2 (3.49)min	0.0076 max	5% max	10 (0.005) max

REFRIGERANT WORKING PRESSURE (kPa)

Refrigerant Type	Refrigerant Saturated Vapour Pressure (kPa)				
	@50°C	@55°C	@60°C	@65°C	@70°C
R22	1,855	2,095	2,345	2,592	2,895
R134a	1,234	1,383	1,571	1,789	2,016
R404A	2,224	2,503	2,805	3,093	-
R407C	1,777	2,025	2,297	2,595	-
R410A*	2,945	3,308	3,702	4,131	-
R507A	1,977	2,215	2,475	2,865	3,090

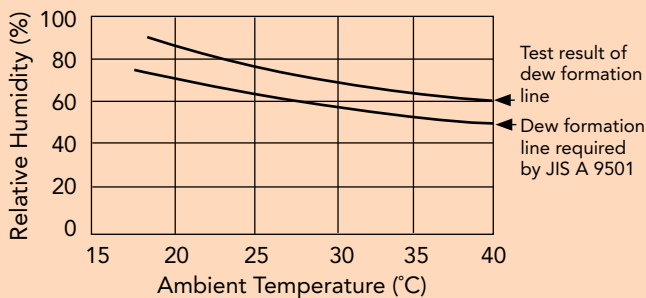
*Change in flaring dimension for R410A.
For details refer to air conditioner manufacturers specifications.

COPPER TUBE SAFEWORKING PRESSURE (kPa)

Actual tube size 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
5.88 x 1.02	5,030	4,515	4,170
19.05 x 1.14	4,697	4,181	3,895

Recommended maximum operating temperature is 65°C and in accordance with AS1677. A/C manufacturers' operating and installation instructions should be consulted. 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.

Dew Point Graph



For further information: Refer to the current edition of The Plumbers Handbook available through your MM Kembla representative or contact Customer Service on 1800 804 631.