



MANDEV MAKE TRACEABILITY FOR COPPER COILS & STRAIGHT TUBES			
SR NO.	TRACEABILITY FEATURES	VRF SOFT COPPER COIL (LENGTH 15.24 MTR/ 50 FEET)	VRF HALF HARD COPPER TUBE (LENGTH 2.44MTR/8 FEET OR 3.05MTR/10 FEET)
1	PRODUCT NAME	MT ECO FLEX/ MT ECO FLEX PLUS+	MT ECO SELF CONNECT/ MT ECO SELF CONNECT PLUS +
2	MANDEV'S STRAIGHT TUBES WITH ONE END EXPANDED WITH REGISTERED DESIGN NO. 224751 -09	×	✓
3	MANDEV'S ONE END EXPANDED TUBES CAN REDUCE 78% COST BY ELIMINATE 78% COST BY ELIMINATING THE USE OF COUPLING FOR ACR APPLICATIONS PLEASE REFER ATTACHED 1000 Mtr CASE STUDY	×	78%
4	MANDEV'S ONE END EXPANDED TUBES CAN REDUCE 100% COST BY ELIMINATING THE USE OF ELBOW ACR APPLICATION	×	100%
5	9 ELEMENT SECURED GOLDEN COLOUR HOLOGRAM(FOIL STICKER), FIXED ON THE TUBES & COIL 	3 Nos Of Golden Color Hologram Fix On Coil. Two are Both End 1 Feet Distance and another one on center of coil on approx 7.62 mtr distance.	2 Nos Of Golden Color Hologram Fix On Both End Of The Tube With 1 Feet Distance.
6	INKJET MARKING ON STRAIGHT TUBES AND COILS	✓	✓
7	END CAP WITH YELLOW COLOR AND MANDEV ENGRAVED LOGO 	✓	✓
8	MANDEV PRINTED POLYTHENE BAGS WITH VARIOUS SECURITY ELEMENTS	✓	✓
9	FOR TRACKING & CONFIRMING AUTHENTICITY, TRACEABILITY & 100% RELIABILITY CHECK. (I) MANDEV PROVIDE TEST CERTIFICATE HARD COPY (ORIGINAL WITH HOLOGRAM) MENTIONING BATCH NO., BILL NO., DATE AND FULL QUANTITY. OR (II) MANDEV'S STOCKIST'S WILL PROVIDE MANDEV TUBES TEST CERTIFICATE (ENDORSED) WITH THEIR CO'S SEAL (STAMP) AND DULY SIGNED BY THEIR DIRECTOR/PROPRIETOR.	✓	✓
10	WEIGHT OF PRODUCT	PLEASE FIND SPECIFICATION WEIGHT CHART, ON PAGE NO. 3	
11	MANDEV'S BRANDED PACKAGING MATERIAL i.e. (1) CORRUGATE BOX/SHEET PACKAGING MATERIAL. (2) CELLO TAPE (3) STRAPPING PLASTIC TAPE	BOX	SHEET



Copper tubes to paint your world green



“Life is for one generation, a good name is forever.”
|| Faith is in the name ||

MANDEV TUBES PVT. LTD.

AN ISO 9001:2015, 14001:2015, 18001:2007 certified company by URS
Towards Leadership Through Commitment & Quality

Factory:
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Opp. Usha Garment,
Umbergaon, Dist. Valsad,
Gujrat - 396 171, India.

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Email: sales@mandevtubes.com

website : www.mandevtubes.com



ECO-FRIENDLY



RECYCLABLE



LONG LASTING

Copper tubes, arteries for FLUID applications





The number of brazed joints in the refrigeration piping is to be kept at minimum, which is possible with Mandev Make Half Hard “ONE SIDE EXPANDED” Copper Tubes.

“Mandev tubes has always been known for its perfection, consistent quality and total customer satisfaction. This has been a legacy that I have inherited from my father and I promise to carry it on. It will be our constant endeavor to provide the best quality and maximize customer satisfaction always.”

- **Ramesh R. Munot** (Managing Director- Mandev Tubes Pvt. Ltd.)

A promise to deliver quality products

At Mandev Tubes, we are committed to consistently deliver the highest quality so that we achieve total customer satisfaction. We have a burning desire to exceed perfection which is met with expertise and knowledge. We aim to become the top most DHP grade copper tube producer in the country and gain global recognition. We are an ISO 9001:2015, 14001:2015, 18001:2007 certified company by URS.

Products

As one of the leading copper tubes company, We have a range of products to meet every customer's need. Our products are produced using the best machinery and manufacturing technology.

ONE END EXPANDED COPPER TUBES (PRODUCT WITH USP)



MT - ECO SELF CONECT / MT - ECO SELF CONNECT PLUS +

Copper tubes with an innovative design (regd. No. 224751-9) which are mechanically expanded at one end, they help avoid a coupling and brazing joints during installation.

One end expanded tubes are provided in the following outside diameter and size range:

Minimum Diameter: 3/16" (4.76 mm)

Maximum Diameter: 41/4" (108 mm)

Minimum Wall Thickness: 0.6 mm

Maximum Wall Thicknesses: 2.5 mm

Minimum Length: 2.0' (0.6 Mtr.)

Maximum Length: 19' (5.79 Mtr)

Mandev make Copper Tubes are Eddy current tested, RoHS compliant, R-32, R-410A & R-22 refrigerant compatible and with low residue content below 0.20mg/dm2.

PANCAKE COIL COPPER TUBE



MT - ECO FLEX / MT ECO FLEX PLUS+

Pancake coils are mainly used in the installation of air conditioning & refrigerator systems.

Pancake coils are produced in the following outside diameter and size ranges:

Minimum Diameter: 3/16"(4.76mm) **Maximum Diameter:** 7/8"(22.2mm)

Minimum Wall Thickness: 0.5 mm **Maximum Wall Thickness:** 1.2 mm

Minimum Length: 6.6' (2 Mtr.) **Maximum Length:** 50' (15.24 Mtr)

Coil can be catered as per client's requirement.

COPPER FITTINGS



MT - ECO FIT

Copper Fitting and other tube assembled components are produced for several applications like Air Conditioning, refrigeration, gas, heating and plumbing.

Fittings are produced in size range:

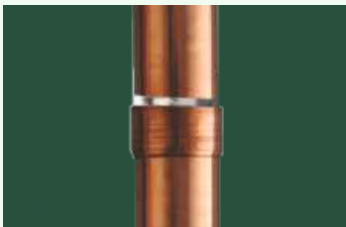
Minimum diameter: 1/4 " (6.35 mm) **Maximum diameter:** 21/8" (54 mm)

Minimum Wall Thickness: 0.6 mm **Maximum Wall Thicknesses:** 1.6 mm

SPECIFICATIONS: •ASTM •JIS •BS-EN •IS AND OTHER SIMILAR STANDARDS.

ADVANTAGE OF ONE END EXPANDED HALF HARD COPPER TUBES

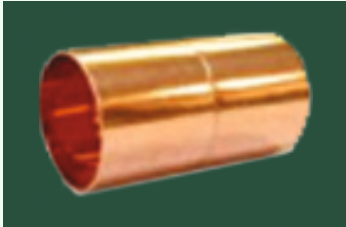
COUPLING - FREE INSTALLATION



One Side Brazed Expanded Tube Joint Installation



Two Side Brazed Coupling Joint Installation



To Save 1 Joint Out of 2 Joint

ELBOW - FREE INSTALLATION



Bending on Project Site, No joint No Brazing Installation



Two Side Brazed Elbow Joint Installation



To Save 2 Joint Out of 2 Joint

Our Tresured Clients

BUILDERS: •ADANI •BARC •DLF •D. B. REALITY •HIRANANDANI •IREO •INFOSYS •LODHA

•L & T •MARVEL •OMKAR •PACL •PANCHSHIL •RAMKY •RUNWAL •S & S •SYNTEL

•TATA CONSULTANCY SERVICES •TECH MAHINDRA

OEMS: •BLUE STAR •CARRIER •DAIKIN •ECTL •ETA GENERAL •JOHNSON CONTROLS •GODREJ

•HAIER •HITACHI •LG •LLYOD •MITSUBISHI •SAMSUNG •TOSHIBA •VIDEOCON •VOLTAS •WHIRLPOOL

METRO PROJECTS: •COCHIN METRO •DELHI METRO (DMRC) •METRO LINK EXPRESS FOR

GANDHINAGAR & AHMEDABAD (MEGA) •MAHA METRO NAGPUR •NAVI MUMBAI METRO

SPECIFICATION & SIZE CHART FOR VRF AIR CONDITION GRADE COPPER TUBES

Sr. No.	CODE	DESCRIPTION SIZE - MT ECO SELF CONNECT (ONE END EXPANDED HALF HARD) VRF COMPATIBLE COPPER TUBES (*TRACEABILITY - H, ECL, PPB, PHT)	TEMPER	WEIGHT PER METER (IN KGS.)	WEIGHT 10 FEET (IN KGS)	NO. OF TUBES PER BUNDLE	APPROX. WEIGHT PER BUNDLE (IN KGS)
1	VRF	1/4" (6.35 mm) X 21 swg (0.8 mm)	Half Hard	0.127	0.387	60	23.200 Kg
2	VRF	3/8" (9.52 mm) X 21 swg (0.8 mm)	Half Hard	0.199	0.607	50	30.400 Kg
3	VRF	1/2" (12.7 mm) X 21 swg (0.8 mm)	Half Hard	0.272	0.830	40	33.200 Kg
4	VRF	5/8" (15.88 mm) X 19 swg (0.99 mm)	Half Hard	0.425	1.296	25	32.400 Kg
5	VRF	3/4" (19.05 mm) X 21 swg (0.8 mm)	Half Hard	0.417	1.280	25	32.000 Kg
6	VRF	3/4" (19.05 mm) X 19 swg (1.0 mm)	Half Hard	0.515	1.570	25	39.300 Kg
7	VRF	7/8" (22.2 mm) X 21 swg (0.8 mm)	Half Hard	0.490	1.500	20	30.000 Kg
8	VRF	7/8" (22.2 mm) X 19 swg (1.0 mm)	Half Hard	0.605	1.850	20	37.000 Kg
9	VRF	1.0" (25.4 mm) X 20 swg (0.88 mm)	Half Hard	0.612	1.900	20	38.000 Kg
10	VRF	1.0" (25.4 mm) X 19 swg (1.0 mm)	Half Hard	0.696	2.140	20	42.800 Kgs
11	VRF	1 1/8" (28.6 mm) X 19 swg (1.0 mm)	Half Hard	0.787	2.400	15	36.000 Kg
12	VRF	1 1/4" (31.8 mm) X 18.5 swg (1.1 mm)	Half Hard	0.941	2.900	12	34.800 Kg
13	VRF	1 3/8" (34.9 mm) X 18 swg (1.2 mm)	Half Hard	1.155	3.500	10	35.000 Kg
14	VRF	1 1/2" (38.1 mm) X 17.5 swg (1.30 mm)	Half Hard	1.350	4.100	8	32.800 Kg
15	VRF	1 5/8" (41.3 mm) X 17 swg (1.43 mm)	Half Hard	1.594	4.850	7	34.000 Kg
16	VRF	1 3/4" (44.45 mm) X 16 swg (1.62 mm)	Half Hard	1.950	5.960	6	35.700 Kg
17	VRF	2 1/8" (54.0 mm) X 16 swg (1.62 mm)	Half Hard	2.400	7.300	5	36.500 Kg

NOTE : Above diameter straight length, Will be Supplied (+ / -) 15 - 20% in 8' / 9' long length

SOFT TEMPER 15.24 MTR/ 50 FEET PANCAKE COIL TUBE WEIGHT CHART

SR NO.	CODE	DESCRIPTION SIZE - COPPER TUBE VRF/ VRF PAN CAKE SOFT COIL (*TRACIBILITY - H, ECL, PPB)	TEMPER	WEIGHT PER METER (IN KGS.)	15.24 mtr / 50 FEET VRF/VRF COIL WEIGHT		
					PER COIL WEIGHT	NUMBER OF COIL PER BOX	WEIGHT PER BOX (IN KGS)
1	VRF	1/4" (6.35 mm) X 21 swg (0.8 mm)	Soft	0.127	1.9	16 nos	30.4 Kg
2	VRF	3/8" (9.52 mm) X 21 swg (0.8 mm)	Soft	0.199	3.0	9 nos	27.00 Kg
3	VRF	1/2" (12.7 mm) X 21 swg (0.8 mm)	Soft	0.272	4.1	7 nos	28.70 Kg
4	VRF	5/8" (15.88 mm) X 19 swg (1.0 mm)	Soft	0.425	6.4	5 nos	32.00 Kg
5	VRF	3/4" (19.05 mm) X 19 swg (1.0 mm)	Soft	0.515	7.8	4 nos	31.20 Kg
6	VRF	7/8" (22.2 mm) X 19 swg (1.0 mm)	Soft	0.605	9.2	3 nos	27.60 Kg

Beware of (1) Duplicate Mandev Make (2) Mandev Light weight & Light (Thin) wall thickness Tubes Imported /other Approved makes / Non Approved makes - Supplied & Installed for VRF Air - Conditioning Application for Building Projects.

WE CAN ALSO CATER CUSTOMIZED SIZES IF REQUIRED BY CUSTOMER RANGING FROM

ONE END EXPANDED TUBES ARE PROVIDED IN THE FOLLOWING OUTSIDE DIAMETER AND SIZE RANGE:	PANCAKE IS PRODUCED IN THE FOLLOWING OUTSIDE DIAMETER AND SIZE RANGES
Minimum diameter: 3/16" (4.76 mm) Maximum diameter: 41/4" (108 mm)	Minimum diameter: 3/16" (4.76mm) Maximum diameter: 7/8" (22.2MM)
Minimum Wall Thickness: 0.6 mm Maximum Wall Thicknesses: 2.5mm	Minimum Wall Thickness: 0.5 mm Maximum Wall Thicknesses: 1.2 mm
Minimum Length : 2.0' (0.6 Mtr.) Maximum Length : 19' (5.79Mtr)	Minimum Length : 6.6' (2 Mtr.) Maximum Length : 50' (15.24 Mtr)

SUBJECT TO CONFIRMATION