

MANROSE®

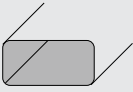
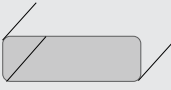
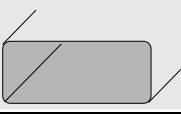
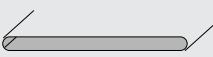


ducting guide
www.manrose.co.nz

Introduction

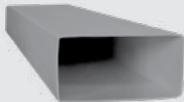
The Manrose range of low profile modular ducting systems include the most comprehensive range of flat channel ducting, connectors, reducers and accessories, offering you reliable ducting solutions to every application. Designed with significant advantages over conventional round systems, low profile ducting is easily concealed when installed along the top of wall units. It can also be fitted in ceiling voids and cavity walls, providing versatility whilst remaining unobtrusive. All Manrose system parts and channels are made from flame-retardant material.




System Profiles	
110mm x 54mm <i>(equivalent to 100mm Ø)</i>	Description <ul style="list-style-type: none"> Suitable for applications requiring low extraction rates (i.e. laundries and toilets). 5940mm² cross-section provides efficient ducting for short, straight runs connecting to a 100mm round spigot.
	
204mm x 60mm <i>(equivalent to 125mm Ø)</i>	Description <ul style="list-style-type: none"> Suitable for ducting of range hoods with 100mm, 125mm or 150mm round exhaust spigots. 12240mm² cross-section increases efficiency.
	
220mm x 90mm <i>(equivalent to 150mm Ø)</i>	Description <ul style="list-style-type: none"> Suitable for high performance extraction or supply. 19800mm² cross-section makes it highly efficient and higher extraction rates are achieved.
	
300mm x 25mm	Description <ul style="list-style-type: none"> For applications where space is very limited.
	

Ducting


Designed with significant advantages over conventional round systems, low profile ducting is easily concealed when installed along the top of wall units. It can also be fitted in ceiling voids and cavity walls, providing versatility whilst remaining unobtrusive. Ducting lengths are supplied in packs of six (6).

Flat Channel (M)	Duct (mm)	Dimensions W x H x D (mm)	Flow Rate Resistance (Pa)								Order Code
			10 (l/s)	12 (l/s)	25 (l/s)	40 (l/s)	50 (l/s)	60 (l/s)	120 (l/s)	180 (l/s)	
	110 x 54	110 x 54 x 1500	1.5	2.4	9.1	19.8	25.9	32	-	-	DCT0013
	204 x 60	204 x 60 x 1500	<1	<1	1.5	4.5	5.9	78	-	-	DCT0519
	220 x 90	220 x 90 x 1500	-	-	-	-	-	1.4	4.9	10.2	DCT1443
	300 x 25	300 x 25 x 1500	-	-	-	-	-	4.5	16.1	56.3	DCT1460

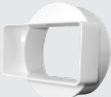

Connectors

Connectors (F to F)	Duct (mm)	Dimensions W x H x D (mm)	Flow Rate Resistance (Pa)								Order Code
			10 (l/s)	12 (l/s)	25 (l/s)	40 (l/s)	50 (l/s)	60 (l/s)	120 (l/s)	180 (l/s)	
	110 x 54	114 x 54 x 100	<1	<1	1.4	3.4	4.8	6.4	-	-	DCT0014
	204 x 60	212 x 64 x 100	<1	<1	<1	<1	1.2	1.5	-	-	DCT0520
	220 x 90	224 x 95 x 52	-	-	-	-	-	<1	<1	<1	DCT1442
	300 x 25	-	-	-	-	-	-	-	-	-	DCT1459


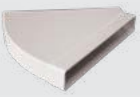


T-Pieces

Horizontal (F to F)	Duct (mm)	Dimensions W x H x D (mm)	Flow Rate Resistance (Pa)								Order Code
			10 (l/s)	12 (l/s)	25 (l/s)	40 (l/s)	50 (l/s)	60 (l/s)	120 (l/s)	180 (l/s)	
	110 x 54	143 x 60 x 174	(installation dependent)						-	-	DCT1479
	204 x 60	245 x 65 x 279	(installation dependent)						-	-	DCT1114
	220 x 90	280 x 95 x 250	-	-	-	-	-	(installation dependent)		DCT3126	

Round to Rectangular Duct Adapters


Short	Duct		Dimensions W x H x D (mm)	Flow Rate Resistance (Pa)								Order Code
	Round (mm)	Rectangular (mm)		10 (l/s)	12 (l/s)	25 (l/s)	40 (l/s)	50 (l/s)	60 (l/s)	120 (l/s)	180 (l/s)	
	Ø 100 (M)	110 x 54 (F)	110 x 60 x 105	3	4.3	20	43	62	88	-	-	DCT0127
		110 x 54 (M)	110 x 60 x 105	3	4.3	20	43	62	88	-	-	DCT0131
Long	Duct		Dimensions W x H x D (mm)	Flow Rate Resistance (Pa)								Order Code
	Round (mm)	Rectangular (mm)		10 (l/s)	12 (l/s)	25 (l/s)	40 (l/s)	50 (l/s)	60 (l/s)	120 (l/s)	180 (l/s)	
	Ø 100 (M)	110 x 54 (F)	115 x 100 x 180	2.9	4.2	19.8	42	60	86	-	-	DCT1482
	Ø 100 (F)	300 x 25 (F)	308 x 29	-	-	-	-	-	6.1	23.7	91.7	DCT1461
	Ø 125 (F)	204 x 60 (F)	213 x 140 x 213	<1	<1	2.8	6.7	9	11.5	-	-	DCT0526
	Ø 150 (F)	220 x 90 (F)	225 x 160 x 203	-	-	-	-	-	3.7	14.1	30.7	DCT1446

Horizontal and Vertical Bends (F to F)


Horizontal (F to F)	Angle	Duct (mm)	Dimensions W x H x D (mm)	Flow Rate Resistance (Pa)								Order Code
				10 (l/s)	12 (l/s)	25 (l/s)	40 (l/s)	50 (l/s)	60 (l/s)	120 (l/s)	180 (l/s)	
	90°	110 x 54	152 x 60 x 152	2.6	9.9	38	93	124	162	-	-	DCT0125
		204 x 60	260 x 65 x 260	1.4	1.7	8.4	18	25	34	-	-	DCT0524
		220 x 90	250 x 95 x 250	-	-	-	-	-	9	36	80	DCT1448
		300 x 25	-	-	-	-	-	-	-	-	-	DCT2097
	45°	220 x 90	240 x 95 x 200	-	-	-	-	-	5	20	46	DCT2701
		300 x 25	-	-	-	-	-	-	-	-	-	DCT2098
Vertical (F to F)	Angle	Duct (mm)	Dimensions W x H x D (mm)	Flow Rate Resistance (Pa)								Order Code
				10 (l/s)	12 (l/s)	25 (l/s)	40 (l/s)	50 (l/s)	60 (l/s)	120 (l/s)	180 (l/s)	
	90°	110 x 54	115 x 95 x 95	3.3	15.5	36	138	190	253	-	-	DCT0126
		204 x 60	210 x 115 x 115	1.1	2.5	5.2	24	33.6	45	-	-	DCT0525
		220 x 90	224 x 117 x 120	-	-	-	-	-	7	28	66	DCT1447
		300 x 25	-	-	-	-	-	-	-	-	-	DCT2099
	45°	220 x 90	225 x 110 x 115	-	-	-	-	-	6	27	65	DCT2700
		300 x 25	-	-	-	-	-	-	-	-	-	DCT1455

Elbow Bends


For fitted bend connection from flat channel to round ducting with rotating offset spigot.

Elbow Bend	Duct		Dimensions W x H x D (mm)	Flow Rate Resistance (Pa)								Order Code
	Round (mm)	Rectangular (mm)		10 (l/s)	12 (l/s)	25 (l/s)	40 (l/s)	50 (l/s)	60 (l/s)	120 (l/s)	180 (l/s)	
	Ø 100 (F)	110 x 54 (F)	115 x 90 x 140	5.6	8	33	74.5	101	137	-	-	DCT0015
	Ø 100 (M)	110 x 54 (F)	115 x 90 x 140	5.6	8	33	74.5	101	137	-	-	DCT0124
		204 x 60 (F)	215 x 80 x 195	2.9	7.1	28	68.1	92.2	118	-	-	DCT0521
		220 x 90 (F)	226 x 118 x 240	-	-	-	-	-	5.3	20.4	44.8	DCT1444
		300 x 25 (F)	-	-	-	-	-	-	-	-	-	DCT2095
	Ø 125 (M)	204 x 60 (F)	215 x 80 x 195	3.1	5.9	25	62.2	86	111	-	-	DCT0522
		220 x 90 (F)	226 x 118 x 240	-	-	-	-	-	3.6	14.9	34.4	DCT1440
		300 x 25 (F)	-	-	-	-	-	-	-	-	-	DCT2096
	Ø 150 (M)	204 x 60 (F)	215 x 80 x 195	2.8	4.9	21	41	53	67	-	-	DCT0523
		220 x 90 (F)	226 x 118 x 240	-	-	-	-	-	9	34	75	DCT1441




Adjustable Bends

Horizontal	Duct (mm)	Order Code
	204 x 60	DCT1480

Reducers

Reducers	Duct / Horizontal Airbrick / Vertical Airbrick (mm)	Duct (mm)	Order Code
	204 x 60	to 110 x 54	DCT0136
		to 220 x 90	DCT1452
		to 300 x 25	DCT1456


Airbricks

Airbricks	Type	Duct (mm)	Dimensions W x H x D (mm)	Flow Rate Resistance (Pa)								Order Code
				10 (l/s)	12 (l/s)	25 (l/s)	40 (l/s)	50 (l/s)	60 (l/s)	120 (l/s)	180 (l/s)	
	Horizontal ¹⁾	204 x 60	210 x 65 x 85	3.2	7.8	20.9	96	128	176	-	-	DCT0137
	Vertical ²⁾	204 x 60	65 x 210 x 85	3.2	7.8	20.9	96	128	176	-	-	DCT1414
	Double	220 x 90	245 x 145 x 80	-	-	-	-	-	37.4	74.8	112.2	DCT1450


1) 110 x 54mm duct connection requires reducer DCT0136
204 x 60mm duct connection requires duct connector DCT0520

2) Comes with duct connector DCT0520



Double Airbrick Connectors

Connector	Duct (mm)	Dimensions W x H x D (mm)	Flow Rate Resistance (Pa)			Order Code
			60 (l/s)	120 (l/s)	180 (l/s)	
	220 x 90	226 x 132 x 52	10.4	37	81.5	DCT1451

Double Airbrick Adapters



Adapter	Duct (mm)	Dimensions W x H (mm)	Order Code
	Ø 100	235 x 140	DCT1453
	Ø 125		
	Ø 150		

Wall/Ceiling Plates



Round	Size (mm)	Dimensions W x H (mm)	Order Code
	Ø 104	155 x 155	DCT0148
	Ø 130	170 x 170	DCT0149
	Ø 160	200 x 200	DCT0150
Rectangular	Dimensions W x H (mm)		Order Code
	154 x 154		DCT0016
	264 x 119		DCT0528

External Grilles




Tube grilles are designed to fit directly into round solid tube, for systems ducted straight through an external wall.

Tube	Duct (mm)	Order Code
	Ø 100	DCT2206
Louvre	Duct (mm)	Order Code
	Ø 100	DCT2200
	Ø 125	DCT2201
	Ø 150	DCT2202

Wall/Ceiling Plates

Horizontal	Duct (mm)	Clips Required	Order Code
	110 x 54	1	DCT0134
	204 x 60	1	DCT0527
Vertical	Duct (mm)	Clips Required	Order Code
	220 x 90	2	DCT1445
	300 x 25	2	DCT1458

Tubes and Bends

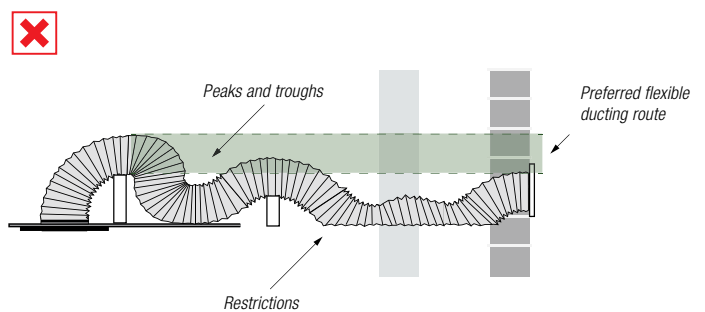
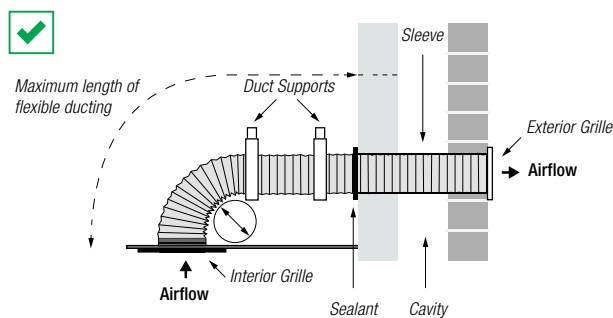
Tubes	Type	Duct (mm)	Length (m)	Finish	Order Code
	PVC	100	1	Grey	DCT1424
		125	1	Grey	DCT1425
		150	1	Grey	DCT1426
			2.5	Grey	DCT3527
	Galvanised Steel	100	0.9	Galvanised	DCT0151
				White	DCT0145
		125	0.9	Galvanised	DCT0152
				White	DCT0146
		150	0.9	Galvanised	DCT0153
				White	DCT0147
			1.2	Galvanised	DCT0954
		250	0.6	Galvanised	DCT4381
300	0.6	Galvanised	DCT4377		
Bends	Type	Duct (mm)	Bend	Finish	Order Code
	PVC	100	90°	White	DCT3770
			45°	White	DCT3775
		125	90°	White	DCT3771
		150	90°	White	DCT3772
		315	45°	White	DCT4035

Unilok FR1

Insulated fire retardant flexible ducting manufactured *tough* and *whisper quiet* for consumer and installer peace of mind. UNILOK FR1 has an outer steel rib that ensures the product's integrity and correct diameter, even in the tightest bends. Due to its steel rib, it is not prone to glue failure or fatigue (sagging or ovalisation). Fully complies to AS4254 & AS1530 Pt3 and New Zealand Building Code.






Diameter (mm)	Length (m)	Nude Order Code	Thermally Insulated			Thermally and Acoustically Insulated		
			R0.6 (40mm) Order Code	R1.0 (70mm) Order Code	R1.5 Order Code	R0.6 (40mm) Order Code	R1.0 (70mm) Order Code	R1.5 Order Code
100	3	DCT1133	DCT1144					
	6	DCT1198						
125	3	DCT1134	DCT1469			DCT1176		
	6	DCT1143	DCT1204					
150	3	DCT0561	DCT0583	DCT0817	DCT3038	DCT0633	DCT0833	DCT3032
	6	DCT0562	DCT0584	DCT0818		DCT0634	DCT0834	
200	3	DCT0563	DCT0585	DCT0819	DCT3039	DCT0635	DCT0835	DCT3033
	6	DCT0564	DCT0586	DCT0820		DCT0636	DCT0836	
250	3	DCT0565	DCT0587	DCT0821	DCT3040	DCT0637	DCT0837	DCT3034
	6	DCT0566	DCT0588	DCT0822		DCT0638	DCT0838	
300	3	DCT0567	DCT0589	DCT0823	DCT3041	DCT0639	DCT0839	DCT3035
	6	DCT0568	DCT0590	DCT0824		DCT0640	DCT0840	
350	3	DCT0569	DCT0591	DCT0825	DCT3042	DCT0641	DCT0841	DCT3036
	6	DCT0570	DCT0592	DCT0826		DCT0642	DCT0842	
400	3	DCT0571	DCT0593	DCT0827	DCT3043	DCT0643	DCT0843	DCT3037
	6	DCT0572	DCT0594	DCT0828		DCT0644	DCT0844	
450	3	DCT0573	DCT0595	DCT0829		DCT0645	DCT0845	
	6	DCT0574	DCT0596					
500	3	DCT0575	DCT0597			DCT0647	DCT0846	
	6	DCT0576						
550	3	DCT0577						

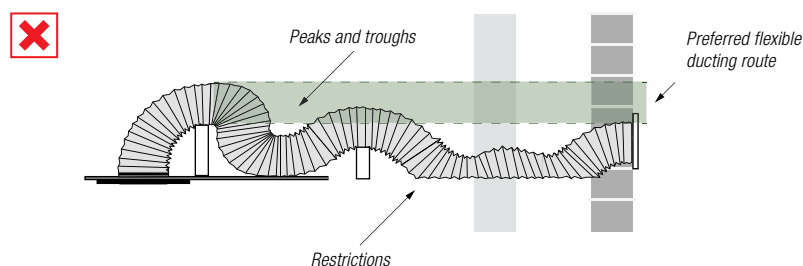
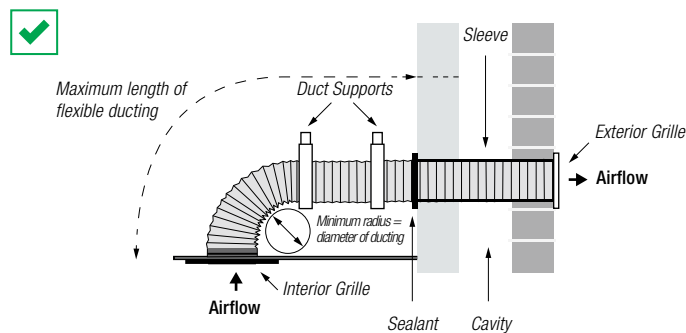
Insertion Loss, dB Octive Band Centre Frequency: Nominal 3m Length							
Acoustic Ducting Sample	125	250	500	1000	2000	4000	8000
150mm UNILOK FR1 R0.6 AI	35.5	39.2	36.0	30.3	29.8	31.5	22.5
300mm UNILOK FR1 R0.6 AI	33.3	35.9	27.3	31.0	28.1	17.0	12.2
400mm UNILOK FR1 R0.6 AI	36.1	30.0	20.6	27.2	26.0	12.7	10.5



ComFlex Premium & ComFlex

Fire retardant flexible ducting systems. ComFlex Premium has a polyester film core with aluminium foil laminated onto both sides. This composite film is then permanently bonded onto a corrosion resistant coated, spring steel wire helix. Complies to AS1530 Pt3 and New Zealand Building Code. ComFlex Aluduct is an aluminium foil ducting laminated onto polyester film.




Diameter (mm)	Length (m)	ComFlex Premium		ComFlex		
		Nude	Thermally Insulated	Nude	Nude (Boxed)	Thermally Insulated
			R0.6 (40mm)			R0.6 (40mm)
Order Code	Order Code	Order Code	Order Code	Order Code		
						
100	1				DCT0357	
	3	DCT0215	DCT0452	DCT0367	DCT0328	
	6	DCT0104		DCT0409		
125	1				DCT0358	
	3	DCT0216		DCT0368	DCT0329	
	6	DCT0160		DCT0410		
150	1				DCT0359	
	3	DCT0217	DCT0427	DCT0369	DCT0330	DCT0088
	6	DCT0107	DCT0428	DCT0411		DCT0399
200	3	DCT0218	DCT0429	DCT0377	DCT0331	DCT0089
	6	DCT0109	DCT0430	DCT0412		DCT0343
250	3	DCT0219	DCT0431	DCT0370	DCT0332	DCT0400
	6	DCT0421	DCT0432	DCT0413		DCT0344
300	3	DCT0111	DCT0433	DCT0380		DCT0401
	6	DCT0422	DCT0434	DCT0414		DCT0402
350	3	DCT0112	DCT0435	DCT0415		DCT0403
	6	DCT0423	DCT0436	DCT0416		DCT0404
400	3	DCT0113	DCT0437	DCT0417		DCT0405
	6	DCT0424	DCT0438	DCT0418		DCT0406



PVC & Semi-Rigid

PVC flexible wire reinforced duct is a product that is extremely versatile in the ventilation industry. It doesn't rot, is non-collapsing, is fire resistant, has an operating temperature of +6° to +50° and is available in a range of sizes from 100mm to 150mm. Fully complies to AS1530 and New Zealand Building Code.

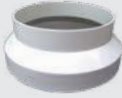



Semi-rigid aluminium ducting is a lightweight, flexible but strong corrugated aluminium duct. It is spiral wound with a unique interlocked and knotted continuous seam. It is self supporting over longer lengths and generally only needs fittings or mechanics at each end for support. Fully complies to the New Zealand Building Code.

Diameter (mm)	Length (m)	PVC	Semi-Rigid	
		Nude	Nude	Insulated
		Order Code	Order Code	R0.6 (40mm) Order Code
				
100	1	DCT0936		
	1.5		DCT0333	
	3	DCT0336	DCT0114	
125	1	DCT0937		
	1.5		DCT0334	
	3		DCT0115	
	4	DCT0337		
150	1	DCT0938		
	1.5		DCT0335	
	3		DCT0116	DCT2590
	5	DCT0338		
200	3		DCT0117	DCT2589
250	3		DCT0118	DCT2591
300	3		DCT0119	DCT3695
350	3		DCT0120	DCT3696
400	3		DCT0477	


Duct Joiners

Duct (mm)	PVC	Metal - Long	Metal - Short
	Order Code	Order Code	Order Code
			
100	DCT0159		
125			DCT0037
150	DCT3528	DCT0723	DCT0059
200		DCT0724	DCT0071
250		DCT0725	DCT0339
300		DCT0726	
350		DCT0770	
400		DCT0771	
450		DCT0772	
500			DCT1157

Reducers

Duct (mm)	PVC	HDPE	HDPE Insulated	Metal
	Order Code	Order Code	Order Code	Order Code
				
125-100	DCT2067			
150-100	DCT2122			
150-125	DCT2066			
200-125				DCT0084
200-150		DCT0486	DCT0901	
225-150				DCT0078
250-150				DCT0162
250-200		DCT0487	DCT0902	
300-250		DCT0488	DCT0903	
315-300				DCT2996
350-300		DCT0489	DCT0904	
400-350		DCT0490	DCT0905	
450-300			DCT0916	
500-450			DCT4237	




Inline Backdraught Shutters

Inline Backdraught Shutters	Duct (mm)	PVC	Metal
		Order Code	Order Code
	100	FAN0213	
	125	DCT0036	
	150	DCT0511	DCT2692
	200		DCT2092
	315	DCT2337	

Accessories

	Cable Ties	Duct (mm)	Length (mm)	Order Code	
		150	800	FAN0282	
		125	550	FAN0281	
		100	450	FAN0274	
	Duct Straps	Description	Width (mm)	Length (m)	Order Code
		Plastic (with clips)	12	3	DCT2299
		Woven	25	50	DCT0808
	Duct Tapes	Width (mm)	Length (m)	Colour	Order Code
		48	5	Grey	DCT0173
			30	Grey	DCT0807
				Black	DCT4142
	108		Silver UL181	DCT3232	
	Uncoated Galvanised	Description			Order Code
		Rope (1m)	1.6mm	DCT4333	
			2.3mm	DCT4334	
			3.2mm	DCT4336	
			4.8mm	DCT4337	
		Clamp for Rope Sizes	1.6mm & 2.3mm	DCT4332	
			3.2mm & 4.8mm	DCT4335	
	Hanging Duct Straps	Description			Order Code
		Orange Velcro			DCT3979
		Silver Duct Saddle			DCT4330
		Flexiright Duct Elbow			DCT4331

Branches and Branch Take Offs

Duct (mm)	Y Branches				Single Branch Take Offs			Double Branch Take Offs		
	PVC	HDPE	HDPE Insulated	Metal	HDPE	HDPE Insulated	Metal	HDPE	HDPE Insulated	Metal
	Order Code	Order Code	Order Code	Order Code	Order Code	Order Code	Order Code	Order Code	Order Code	Order Code
										
100-100-100	DCT2182				DCT1439					
125-125-125	DCT2183									
150-100-100				DCT0079						
150-125-125				DCT0707						
150-150-100							DCT0080			
150-150-150	DCT2184	DCT1233	DCT4346		DCT0091	DCT0875				
200-150-150		DCT0379	DCT0865		DCT0719	DCT0876				
200-200-150					DCT0460	DCT0877				
200-200-200		DCT0376	DCT0955		DCT0461	DCT0878				
250-150-150					DCT1063	DCT0967				
250-200-150					DCT1064					
250-200-200		DCT0471	DCT0866		DCT0462	DCT0879				
250-250-150					DCT0463	DCT0880				
250-250-200					DCT0720	DCT0881				
250-250-250					DCT0464	DCT0882				
300-200-200					DCT1129	DCT1130				
300-250-200					DCT0721	DCT0883				
300-250-250		DCT0717	DCT0868		DCT0730	DCT0884				
300-300-200	DCT4190				DCT0978	DCT1094				
300-300-250					DCT0979	DCT1015				
300-300-300		DCT0494	DCT0869		DCT0491	DCT0885				
350-250-250		DCT1433	DCT1034		DCT0465	DCT0886				
350-300-200					DCT0915	DCT0945				
350-300-300		DCT0718	DCT0870		DCT0493	DCT0887				
350-350-200					DCT4432	DCT4433				
350-350-350		DCT0776	DCT0871							
400-300-300		DCT0777	DCT0872							
400-350-300		DCT0813	DCT0873							
400-350-350		DCT0778	DCT0874							
400-400-200	DCT4192									
400-400-250	DCT4193									
400-400-350		DCT1116	DCT1128							
150-100-100-100										DCT1468
200-150-150-150								DCT0090	DCT0889	
250-150-150-150								DCT0467	DCT0890	
250-200-150-150								DCT0480	DCT0891	
250-200-200-200								DCT1422	DCT0973	
300-200-200-200								DCT0481	DCT0893	
300-250-200-200								DCT0482	DCT0894	
300-250-250-250								DCT0722	DCT0895	
300-300-200-200								DCT0483	DCT0896	
350-250-200-200								DCT0470	DCT0897	
350-250-250-250								DCT0469	DCT0898	
350-300-200-200								DCT2060		
350-300-250-250								DCT0484	DCT0899	
350-350-200-200								DCT0485	DCT0900	

MANROSE®

Manrose leads the market in air movement and air extraction. Developed and designed to meet the specific application needs of the New Zealand market, Manrose fans perform to those exacting standards for the life of the product.

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Dealers Details