

Engineered efficiency - no matter where or what



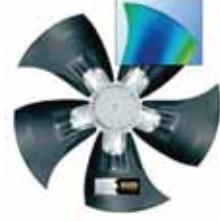
Air Cooled Condenser Range Fresh ideas from Searle

GEA Searle

GEA Searle's new range of condensers means you've more choice than ever before, comprising of both flat-bed and V-bank units, arranged in single and double bank configurations, with multiple module lengths. The wide range is suitable for most refrigeration and air conditioning condenser applications. Range benefits: Meeting your specification, Assured performance, Designed to be quiet and energy efficient.

Control Options

There are various optional GEA Searle control packages available, including variable speed controlled products using Searle inverter control or the latest EC fan control system. The control options include: EC speed control



Inverter speed control, Triac speed control, Dual speed step control, Single speed step control. If a speed control method is utilised, Searle recommends adding the option of internal motor protection.

Other Options

GEA Searle offers a wide range of accessories and additional options, including: anti-vibration mounts and leg extensions - to enhance air flow in difficult locations and Adiabatic cooling System (Please see GEA Searle's Adiabatic Section for further details or contact your GEA Searle representative).

Vertical Mounting

Units may be specified as horizontal (standard) or vertical orientation. Sub-cooling is achieved by the use of an integrated sub-cooling section which utilises approximately 10% of the coil surface. This provides up to 7K of sub-cooling at the standard rating condition of 15K DT1. Operating below 15K DT1, the amount of sub-cooling is reduced. The total heat of rejection capacity, inclusive of sub-cooling, will be reduced by 5%.

Blygold® Coating

GEA Searle's specialist coating facility, where a Blygold® coating is applied and cured to protect the finned coils against harsh environmental conditions such as erosion by sand or salt. It provides a barrier and avoids the risk of electrolytic reactions between the two metals involved. The coating contains aluminium, in order to maintain the thermal performance of the coil, resulting in an extension of the lifetime, maximum cooling capacity and reduction of energy costs. The coating is oriented in such a way that it creates a very high chemical resistance at low layer thickness.

Energy Labelling

Energy Labelling is now part of the Eurovent Certify-All scheme. Rating is based on the ratio of nominal duty to power input with banding as in the table below:

A	Extremely low	$R > 110$	Where R= Nominal Capacity Total fan power input
B	Very low	$70 < R < 110$	
C	Low	$5 < R < 7.0$	
D	Medium	$30 < R < 4.5$	
E	High	< 3.0	

Dewpoint

The capacities shown in this brochure are rated at dew point. This is the pressure/temperature condition at which a refrigerant gas begins to condense on the surface. As some refrigerants have significant glide (e.g. R407A/ 407C), the saturated gas and saturated liquid temperatures are not necessarily the same. It is important to ensure that all the components of a system are selected using the same rating method whilst the use of mid-point does make selection easier, it is difficult to measure on site. At the catalogue rating point of 15K DT1, mid point capacities would be approximately 9% higher for R407C than the equivalent dew point figures shown in the tables.

	DT1					
	8K	10K	12K	15K	17K	20K
R507A, R404A	0.53	0.67	0.80	1.00	1.13	1.33
R134a	0.49	0.62	0.74	0.93	1.05	1.24



Noise Data

The mean unit sound pressure data at 10m is given for each model in the catalogue and is certified as part of the Eurovent scheme. Sound power testing and sound pressure calculation are carried out in accordance with EN13487. Mean sound pressure levels are for a parallel piped surface surrounding the unit on a reflective plane. Power levels and sound spectrum are available on request.

Correction Factors

Multiply the capacity tables by the following factors depending on the DT1 temperature difference:

Range benefits

- **Meeting your specification -**
Our range has literally 1000s of models, created through a modular design and a variety of fan sizes, offering a greater choice to match your requirements.
- **Assured performance -**
All our Air Cooled Condensers are certified, under the Eurovent "Certify All" programme to guarantee that every unit will perform as specified.
- **Designed to be quiet -**
Our condensers can meet even the most stringent noise restrictions using the latest 4, 6, 8 & 12 pole fansets. In addition, we offer EC technology across the standard range which offers variable speed control and high efficiency.
- **Energy efficient -**
Due to rising energy costs, efficiency is becoming a key industry issue and is increasingly important on end-user criteria. Our new units use the latest technology to ensure greater energy efficiency.
- **Backing our beliefs -**
We offer two years warranty on all Condensers and an additional one year warranty on all ebmpapst fans from dispatch (subject to our standard Terms & Conditions of Sale and excluding corrosion through misapplication).

Fansets

The fansets chosen for the range offer the best combined performance for air volume, noise and efficiency available in the refrigeration industry, customers can select the latest EC technology, offering high efficiency and speed controllability.

Coils

Coils are manufactured from high-quality materials ensuring a quality product without compromise. These coils have been tested extensively in GEA Searle's Research & Development facility to ensure performance.

Standard coils are manufactured from copper tubes, which are mechanically expanded into fully collared holes in the fins. This ensures an effective and permanent bond between the tube and the fin, maximising heat transfer characteristics. Within the coil casework surround, each fan chamber is separated by internal baffle plates to prevent windmilling of off-cycle fans. Alternative fin materials are available to give added protection in polluted or saline atmospheres: -

- Cu/Av - Copper tube / vinyl coated aluminium fns
- Cu/Cu - Copper tubes / copper fns
- Cu/Et - Copper tubes / electro tinned copper fns
- Cu/Al/Bg - Copper tubes / aluminium fns Blygold coated

All standard coils are fully leak and strength tested to 36 bar for a maximum operating pressure of 27 bar.

Multi-sectioning

All models are suitable for multi-sectioning, permitting more than one refrigeration system to operate with a single condenser.

All V-bank, MGA2xx and MX units are twin section as standard. Larger V-bank models are manufactured in 4 sections, 2 per coil to ensure they conform to category 1 of the 'Pressure Equipment Directive'.

	Models	Eurovent	No. Fans
	MSA		1 - 3
	ME		1 - 8
	MG		1 - 16
	MM		1 - 8
	MX		1 - 8
	MVM		2 - 16
	MVL		2 - 16

✓ Yes X No O Option

Rows of fans	Options				Capacity kW @ 15 DT1		
	Supply	EC Fans	Adiabatic Cooling Systems	Fin Materials	10	100	1000
1	1 & 3ph	✓	X	Al Av Cu Et Bg	5.3- 27.6 kW		
1 or 2	1 & 3ph	✓	X	Al Av Cu Et Bg	11 - 384 kW		
1 or 2	3ph	✓	○	Al Av Cu Et Bg	15 - 960 kW		
1	3ph	✓	○	Al Av Cu Et Bg	18 - 573 kW		
1	3ph	✓	○	Al Av Cu Et Bg	22 - 702 kW		
2	3ph	✓	○	Al Av Cu Et Bg	36 - 863 kW		
2	3ph	✓	○	Al Av Cu Et Bg	40 - 976 kW		





MS Condensers

The MS range of fully weatherproof air-cooled condensers, comprise of 9 models, each with two fan speed options, giving 18 models in total. The capacity range is from 5 to 27.6kW for a single row of fans, or up to 55kW for double bank units (units mounted side by side). The range is suitable for use in most refrigeration and air conditioning condenser applications and is performance certified by the Eurovent Certification Company under the Certify-All programme.

The unit can be installed either vertically or horizontally, floor or wall mounted, by using the supplied mounting legs, which are also used to provide additional protection for header and return bends during transport.

Fans are the highest quality and efficiency, which when matched to the case / orifice design offer extremely low noise levels. For ease of stocking, fans are supplied separately, individually packaged, for site mounting.

Coil

The coils are manufactured from seamless 8mm copper tube employing the latest extended inner surface technology, mechanically expanded into aluminum ripple fin (not louvered) spaced at 2.1mm. The fully collared holes in the fin ensure an efficient and permanent bond between the expanded tube and the fin, giving the most effective heat transfer characteristics. Alternative fin materials are available to give added protection in saline or polluted atmospheres. Optional header and return bend covers are available.

Casework

The casework is fabricated from pre-galvanised sheet steel with grey polyester powder painted external surfaces, oven cured at 180°C. This ensures an even, flexible and durable gloss finish, with excellent corrosion protection properties and tolerance to UV exposure. All fastenings are corrosion resistant with the majority being stainless steel.



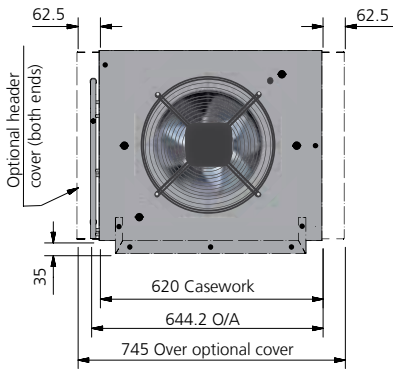
MSA 1 1 2 - 35 04 AL

Range	MSA
Bank of fans	1
Fans per bank	1,2,3
Coils rows	2, 3, 4
Fan type	35
Motor speed	04, 06
Coil materia	AL = Copper tubes/Aluminium fins

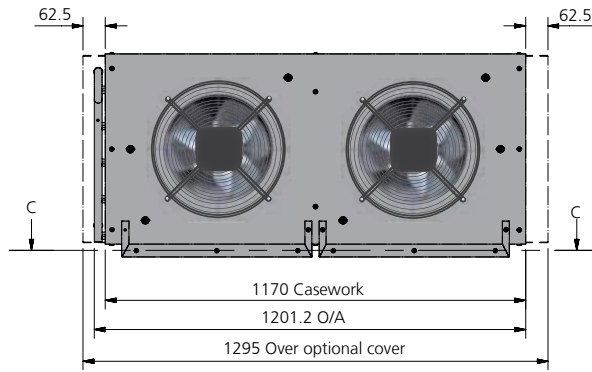
Model	Duty/ Leistung @ 15TD *	Sound Data **		Air volume m ³ /s	Power Input W	Efficiency Rating	Current A	No. of fans	Rows deep	Surface m ³	Internal Volume dm ³	Connections	
		Lwa	Lpa 10m									Inlet mm	Outlet mm
	kW												
MSA112-0435	6.7	70	39	0.74	150	C	0.75	1	2	11.3	1.4	15	15
MSA113-0435	8.4	70	39	0.68	150	C	0.75	1	3	17.0	1.9	15	15
MSA114-0435	8.9	70	39	0.63	150	C	0.75	1	4	22.7	2.5	15	15
MSA122-0435	13.4	73	42	1.45	300	C	1.50	2	2	22.7	2.4	22	22
MSA123-0435	16.8	73	42	1.34	300	C	1.50	2	3	34.0	3.5	22	22
MSA124-0435	17.8	73	42	1.26	300	C	1.50	2	4	45.3	4.5	22	22
MSA132-0435	20.2	75	44	2.18	450	C	2.25	3	2	33.5	3.4	22	22
MSA133-0435	25.1	75	44	2.01	450	C	2.25	3	3	51.0	5.0	22	22
MSA134-0435	26.8	75	44	1.90	450	C	2.25	3	4	67.9	6.7	22	22
MSA112-0635	5.3	61	30	0.47	70	B	0.14	1	2	11.3	1.4	15	15
MSA113-0635	6.4	61	30	0.43	70	B	0.14	1	3	17.0	1.9	15	15
MSA114-0635	7.0	61	33	0.40	70	B	0.14	1	4	22.7	2.5	15	15
MSA122-0635	10.8	64	33	0.93	140	B	0.28	2	2	22.7	2.4	22	22
MSA123-0635	12.8	64	33	0.86	140	B	0.28	2	3	34.0	3.5	22	22
MSA124-0635	14.0	64	33	0.79	140	B	0.28	2	4	45.3	4.5	22	22
MSA132-0635	16.2	66	35	1.40	210	B	0.42	3	2	33.5	3.4	22	22
MSA133-0635	19.2	66	35	1.28	210	B	0.42	3	3	51.0	5.0	22	22
MSA134-0635	20.9	66	35	1.19	210	B	0.42	3	4	67.9	6.7	22	22

Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m

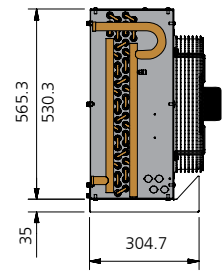
MS 112, 113, 114



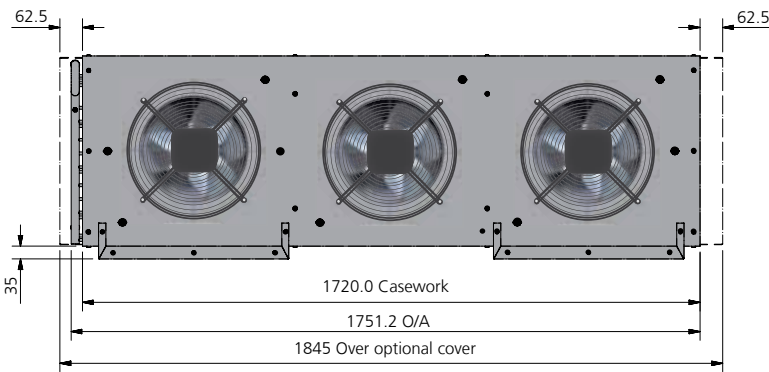
MS 122,1 23, 124



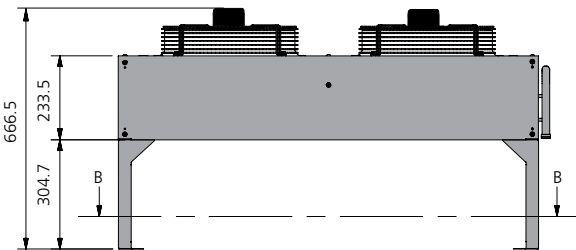
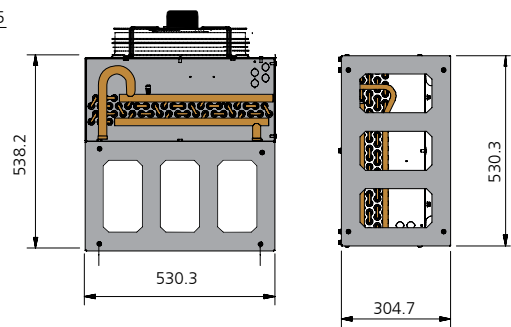
Vertical Floor MTG



MS 132, 133, 134



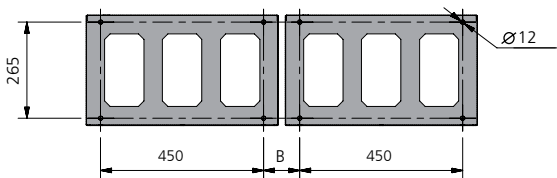
Horizontal operation & Packed



Horizontal floor mounted operation footprint

Model	Coil rows	Fans	Dim A	Dim B	Weight (Less fan)	Weight (Inc fan)
			mm	mm		
MSA 112	2	1	570	N/A	15	20
MSA 113	3	1	570	N/A	17	22
MSA 114	4	1	570	N/A	19	24
MSA 122	2	2	1120	100	24	34
MSA 123	3	2	1120	100	28	38
MSA 124	4	2	1120	100	32	41
MSA 132	2	3	1670	1550	33	48
MSA 133	3	3	1670	1550	38	53
MSA 134	4	3	1670	1550	44	58

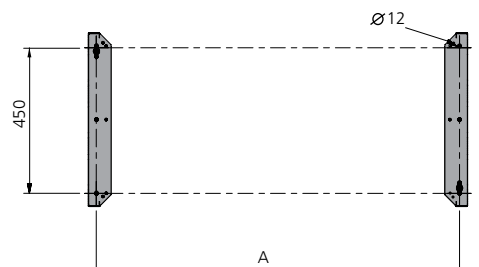
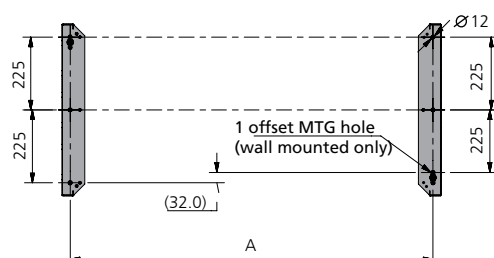
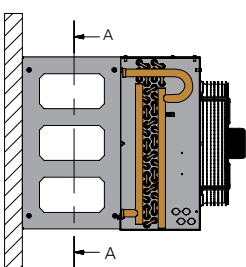
All units supplied less fans



Wall mounted operation

Wall mounted footprint

Horizontal floor mounted operation footprint







ME Condensers

The ME range of air-cooled condensers is based upon the well established E fin heat exchange matrix, combined with the HyBlade® range of fans from ebmpapst. This combination offers a versatile and economical solution to many refrigeration and air conditioning applications. The range consists of one to eight fans in three coil depths and modules with 500mm and 630mm 4,6 and 8 pole fans. This results in a wide range of capacities, noise levels and footprints to meet the diverse requirements of the industry. Optional extras for the ME range include vertical orientation (1 to 4 fan), multi circuiting, integral sub cooling section, alternative fin materials and coating. Control options include fan cycling, variable speed (including EC) and individual fan isolators.

The model selections can be made either directly from the catalogue or by using the popular Searle selection software available on CD or a download from the website at www.searle.co.uk.

ME Features

3 Module sizes (A,B,C), 500mm or 630mm HyBlade® fansets, 4,6,8 pole or EC, Optional coil fin materials and coating, Powder coated robust casework, Factory fitted or separate control options, Compact design Vertical coil (1-4 fans) or Horizontal coil (1-8 fans), Wall mounting kits available for Vertical coil 1-4 fan units

Fan data table

Fan type & Pole	Diameter	Module	Delta			Star		
			Speed (rpm)	FLC (Amp)	SC (Amp)	Speed (rpm)	FLC (Amp)	SC (Amp)
N504 4 Pole	500mm	A,B	1225	2.8	4.7	Single Phase		
N506 6 Pole		A,B	915	1.2	2.3	Single phase		
N508 8 Pole		A,B	680	0.4	1	560	0.2	0.3
N604 4 Pole	630mm	B,C	1330	5	20	1035	3.1	14
N606 6 Pole		B,C	900	1.8	5.4	700	1.1	1.7
N608 8 Pole		B,C	640	1	1.9	440	0.5	0.6



ME A 1 2 4 H - N6 04 3 - AL

Range	ME
Module size	A, B, C
Bank of fans	1 or 2
Fans per bank	1 - 4
Coils rows	2, 3, 4
Coil Orientation	H = Horizontal, V = Vertical
Fans type	N5 = 500mm, N6 = 630mm
Motor speed (poles)	04, 06, 08, EC = Speed control, XX = Less fansets
Power	1 = 1 - phase, 3 = 3 - phase
Coil material	AL = Copper tubes/ Aluminium fns, AV = Copper tubes with 2 pack epoxy coated aluminium fns. CU = Copper tubes/ Copper fns, ET = Copper tubes/ Copper fns electro-tinned, Bg = Copper tube/Aluminium fn Blygold coated

ME Selection data

Model	Delta (High Speed)					Star (Low Speed)					Total Surface m ²	Internal Volume dm ³	R404A Charge kg
	Capacity *	Air Volume	Sound Level **	Power Input	Energy Rating	Capacity *	Air Volume	Sound Level **	Power Input	Energy Rating			
	R404A & R507A					R404A & R507A							
	kW	m ³ /s	dB(A)	W	kW	m ³ /s	dB(A)	W					

500mm 4 pole 1 phase

MEA112-N504-1	16.3	1.90	45	540	D	-	-	-	-	-	26	5	1.6
MEB112-N504-1	20.1	2.06	46	530	D	-	-	-	-	-	38	7	2.2
MEA113-N504-1	20.5	1.78	45	560	D	-	-	-	-	-	38	7	2.2
MEA114-N504-1	23.3	1.68	44	570	D	-	-	-	-	-	51	9	2.8
MEB113-N504-1	25.5	2.00	46	530	C	-	-	-	-	-	58	10	3.2
MEB114-N504-1	28.8	1.92	45	540	C	-	-	-	-	-	77	12	3.8
MEA122-N504-1	32.6	3.82	48	1090	D	-	-	-	-	-	51	9	2.8
MEB122-N504-1	40.2	4.14	49	1060	D	-	-	-	-	-	77	12	3.8
MEA123-N504-1	41.0	3.58	48	1120	D	-	-	-	-	-	77	12	3.8
MEA124-N504-1	46.6	3.36	47	1150	D	-	-	-	-	-	102	17	5.4
MEA132-N504-1	48.9	5.72	50	1630	D	-	-	-	-	-	77	13	4.1
MEB123-N504-1	51.0	4.00	49	1070	C	-	-	-	-	-	115	18	5.7
MEB124-N504-1	57.6	3.86	48	1080	C	-	-	-	-	-	154	24	7.6
MEB132-N504-1	60.3	6.20	51	1580	D	-	-	-	-	-	115	18	5.7
MEA133-N504-1	61.5	5.36	49	1680	D	-	-	-	-	-	115	18	5.7
MEA142-N504-1	65.2	7.62	51	2170	D	-	-	-	-	-	102	16	5.1
MEA134-N504-1	69.9	5.04	49	1720	D	-	-	-	-	-	154	24	7.6
MEB133-N504-1	76.5	5.98	50	1600	C	-	-	-	-	-	173	26	8.2
MEB142-N504-1	80.4	8.26	52	2110	D	-	-	-	-	-	154	23	7.3
MEA143-N504-1	82.0	7.14	50	2230	D	-	-	-	-	-	154	23	7.3
MEB134-N504-1	86.4	5.78	50	1620	C	-	-	-	-	-	230	34	10.7
MEA144-N504-1	93.2	6.74	50	2290	D	-	-	-	-	-	205	31	9.8
MEB143-N504-1	102.0	7.98	51	2130	C	-	-	-	-	-	230	34	10.7
MEB144-N504-1	115.2	7.72	51	2160	C	-	-	-	-	-	307	44	13.9

630mm 4 pole 3 phases

MEB112-N604-3	28.2	3.76	61	2500	E	24.8	2.98	52	1640	E	38	7	2.2
MEC112-N604-3	32.8	3.90	61	2460	E	28.5	3.10	52	1640	E	48	9	2.8
MEB113-N604-3	37.5	3.58	60	2540	E	32.4	2.82	52	1660	E	58	10	3.2
MEC113-N604-3	42.5	3.76	61	2500	E	36.3	2.98	52	1640	E	72	12	3.8
MEB114-N604-3	43.3	3.42	60	2580	E	36.8	2.66	52	1680	E	77	13	4.1
MEC114-N604-3	48.9	3.62	60	2530	E	41.4	2.86	52	1650	E	96	17	5.4
MEB122-N604-3	56.4	7.54	63	4990	E	49.6	5.96	54	3290	E	77	13	4.1
MEC122-N604-3	65.6	7.80	63	4930	E	57.0	6.20	54	3280	E	96	16	5.1
MEB123-N604-3	75.0	7.16	63	5080	E	64.8	5.62	54	3320	E	115	18	5.7
MEB132-N604-3	84.6	11.30	65	7490	E	74.4	8.94	56	4930	E	115	19	6
MEC123-N604-3	85.0	7.54	63	4990	E	72.6	5.98	54	3290	E	144	23	7.3
MEB124-N604-3	86.6	6.84	63	5160	E	73.6	5.34	54	3360	E	154	24	7.6
MEC124-N604-3	97.8	7.26	63	5060	E	82.8	5.74	54	3310	E	192	30	9.5
MEC132-N604-3	98.4	11.70	65	7390	E	85.5	9.30	56	4920	E	144	23	7.3
MEB133-N604-3	112.5	10.74	65	7630	E	97.2	8.44	56	4980	E	173	26	8.2
MEB142-N604-3	112.8	15.08	66	9990	E	99.2	11.92	57	6580	E	154	24	7.6
MEC133-N604-3	127.5	11.30	65	7490	E	108.9	8.96	56	4930	E	216	33	10.4
MEB134-N604-3	129.9	10.26	65	7740	E	110.4	8.00	56	5030	E	230	34	10.7
MEC142-N604-3	131.2	15.60	66	9850	E	114.0	12.40	57	6560	E	192	30	9.5
MEC134-N604-3	146.7	10.88	65	7590	E	124.2	8.60	56	4960	E	288	44	13.9
MEB143-N604-3	150.0	14.30	66	10170	E	129.6	11.24	57	6630	E	230	35	11.1
MEC143-N604-3	170.0	15.06	66	9990	E	145.2	11.94	57	6570	E	288	45	14.2
MEB144-N604-3	173.2	13.68	66	10320	E	147.2	10.66	57	6710	E	307	46	14.5
MEC144-N604-3	195.6	14.50	66	10120	E	165.6	11.46	57	6610	E	384	58	18.3

Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m

Model	Delta (High Speed)					Star (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Capacity *	Air Volume	Sound Level **	Power Input	Energy Rating	Capacity *	Air Volume	Sound Level **	Power Input	Energy Rating			
	R404A & R507A					R404A & R507A							
	kW	m ³ /s	dB(A)	W	kW	m ³ /s	dB(A)	W	m ²	dm ³			

500mm 6 pole 1 phase

MEA112-N506-1	13.6	1.40	37	230	C	-	-	-	-	-	26	5	1.6
MEB112-N506-1	16.7	1.54	38	230	B	-	-	-	-	-	38	7	2.2
MEA113-N506-1	17.1	1.32	36	240	B	-	-	-	-	-	38	7	2.2
MEA114-N506-1	18.8	1.24	36	250	B	-	-	-	-	-	51	9	2.8
MEB113-N506-1	20.6	1.48	37	230	B	-	-	-	-	-	58	9	2.8
MEB114-N506-1	22.9	1.42	37	230	B	-	-	-	-	-	77	12	3.8
MEA122-N506-1	27.2	2.82	40	470	C	-	-	-	-	-	51	9	2.8
MEB122-N506-1	33.4	3.06	41	450	B	-	-	-	-	-	77	12	3.8
MEA123-N506-1	34.2	2.64	39	480	B	-	-	-	-	-	77	12	3.8
MEA124-N506-1	37.6	2.48	39	490	B	-	-	-	-	-	102	16	5.1
MEA132-N506-1	40.8	4.22	41	700	C	-	-	-	-	-	77	12	3.8
MEB123-N506-1	41.2	2.96	40	460	B	-	-	-	-	-	115	17	5.4
MEB124-N506-1	45.8	2.86	40	470	B	-	-	-	-	-	154	24	7.6
MEB132-N506-1	50.1	4.60	42	680	B	-	-	-	-	-	115	18	5.7
MEA133-N506-1	51.3	3.98	41	720	B	-	-	-	-	-	115	18	5.7
MEA142-N506-1	54.4	5.62	42	940	C	-	-	-	-	-	102	16	5.1
MEA134-N506-1	56.4	3.72	41	740	B	-	-	-	-	-	154	24	7.6
MEB133-N506-1	61.8	4.44	42	690	B	-	-	-	-	-	173	26	8.2
MEB142-N506-1	66.8	6.14	43	910	B	-	-	-	-	-	154	23	7.3
MEA143-N506-1	68.4	5.30	42	970	B	-	-	-	-	-	154	23	7.3
MEB134-N506-1	68.7	4.28	41	700	B	-	-	-	-	-	230	34	10.7
MEA144-N506-1	75.2	4.96	42	990	B	-	-	-	-	-	205	30	9.5
MEB143-N506-1	82.4	5.90	43	920	B	-	-	-	-	-	230	34	10.7
MEB144-N506-1	91.6	5.70	42	930	B	-	-	-	-	-	307	44	13.9

630mm 6 pole 3 phases

MEB112-0606-3	23.3	2.72	46	700	D	20.8	2.06	39	470	D	38	7	2.2
MEC112-N606-3	26.6	2.90	46	700	D	23.5	2.20	39	460	C	48	9	2.8
MEB113-N606-3	29.4	2.52	46	710	D	25.3	1.90	39	480	C	58	10	3.2
MEB114-N606-3	33.1	2.36	47	730	C	27.6	1.76	39	490	C	77	12	3.8
MEC113-N606-3	33.1	2.74	46	700	C	28.4	2.06	39	470	C	72	12	3.8
MEC114-N606-3	37.5	2.58	46	710	C	31.4	1.96	39	480	C	96	15	4.7
MEB122-N606-3	46.6	5.44	49	1410	D	41.6	4.12	42	940	D	77	13	4.1
MEC122-N606-3	53.2	5.80	49	1390	D	47.0	4.42	42	920	C	96	16	5.1
MEB123-N606-3	58.8	5.04	49	1420	D	50.6	3.80	42	970	C	115	18	5.7
MEB124-N606-3	66.2	4.72	50	1450	C	55.2	3.54	42	980	C	154	24	7.6
MEC123-N606-3	66.2	5.46	49	1410	C	56.8	4.14	42	930	C	144	23	7.3
MEB132-N606-3	69.9	8.16	50	2110	D	62.4	6.18	43	1400	D	115	18	5.7
MEC124-N606-3	75.0	5.18	49	1420	C	62.8	3.90	42	960	C	192	29	9.2
MEC132-N606-3	79.8	8.68	50	2090	D	70.5	6.62	44	1380	C	144	23	7.3
MEB133-N606-3	88.2	7.56	51	2130	D	75.9	5.70	43	1450	C	173	26	8.2
MEB142-N606-3	93.2	10.88	51	2810	D	83.2	8.24	44	1870	D	154	24	7.6
MEB134-N606-3	99.3	7.08	52	2180	C	82.8	5.30	44	1470	C	230	34	10.7
MEC133-N606-3	99.3	8.20	50	2110	C	85.2	6.20	43	1400	C	216	33	10.4
MEC142-N606-3	106.4	11.58	51	2790	D	94.0	8.82	45	1840	C	192	30	9.5
MEC134-N606-3	112.5	7.76	50	2120	C	94.2	5.86	43	1440	C	288	43	13.6
MEB143-N606-3	117.6	10.08	52	2840	D	101.2	7.58	44	1940	C	230	34	10.7
MEB144-N606-3	132.4	9.44	53	2910	C	110.4	7.08	45	1960	C	307	44	13.9
MEC143-N606-3	132.4	10.94	51	2810	C	113.6	8.28	44	1870	C	288	42	13.3
MEC144-N606-3	150.0	10.36	51	2830	C	125.6	7.82	44	1920	C	384	57	18

Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m

Model	Delta (High Speed)					Star (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Capacity *	Air Volume	Sound Level **	Power Input	Energy Rating	Capacity *	Air Volume	Sound Level **	Power Input	Energy Rating			
	R404A & R507A					R404A & R507A							
	kW	m ³ /s	dB(A)	W	kW	m ³ /s	dB(A)	W	m ²	dm ³			

500mm 8 pole 3 phases

MEA112-N508-3	11.2	1.04	29	120	B	10.1	0.86	25	80	A	26	4	1.3
MEA113-N508-3	13.7	0.96	29	120	A	12.1	0.80	25	80	A	38	7	2.2
MEB112-N508-3	13.8	1.14	29	120	A	12.4	0.96	26	80	A	38	7	2.2
MEA114-N508-3	14.8	0.90	28	130	A	13.0	0.76	24	80	A	51	9	2.8
MEB113-N508-3	16.6	1.10	29	120	A	14.8	0.92	25	80	A	58	9	2.8
MEB114-N508-3	18.0	1.06	29	120	A	15.8	0.88	25	80	A	77	12	3.8
MEA122-N508-3	22.4	2.08	32	250	B	20.2	1.74	28	160	A	51	8	2.5
MEA123-N508-3	27.4	1.94	32	250	A	24.2	1.60	27	160	A	77	12	3.8
MEB122-N508-3	27.6	2.28	32	250	A	24.8	1.94	29	150	A	77	12	3.8
MEA124-N508-3	29.6	1.80	31	260	A	26.0	1.50	27	160	A	102	16	5.1
MEB123-N508-3	33.2	2.18	32	250	A	29.6	1.84	28	160	A	115	17	5.4
MEA132-N508-3	33.6	3.10	34	370	B	30.3	2.60	30	240	A	77	12	3.8
MEB124-N508-3	36.0	2.10	32	250	A	31.6	1.74	28	160	A	154	23	7.3
MEA133-N508-3	41.1	2.90	33	370	A	36.3	2.40	29	240	A	115	17	5.4
MEB132-N508-3	41.4	3.42	34	370	A	37.2	2.90	30	230	A	115	17	5.4
MEA134-N508-3	44.4	2.68	33	400	A	39.0	2.26	29	240	A	154	24	7.6
MEA142-N508-3	44.8	4.14	35	500	B	40.4	3.46	31	320	A	102	16	5.1
MEB133-N508-3	49.8	3.28	34	370	A	44.4	2.76	30	230	A	173	26	8.2
MEB134-N508-3	54.0	3.16	33	370	A	47.4	2.62	30	240	A	230	34	10.7
MEA143-N508-3	54.8	3.86	34	500	A	48.4	3.20	30	320	A	154	23	7.3
MEB142-N508-3	55.2	4.56	35	490	A	49.6	3.86	31	310	A	154	23	7.3
MEA144-N508-3	59.2	3.58	34	530	A	52.0	3.02	30	320	A	205	30	9.5
MEB143-N508-3	66.4	4.38	35	500	A	59.2	3.68	31	310	A	230	34	10.7
MEB144-N508-3	72.0	4.20	35	500	A	63.2	3.50	31	320	A	307	44	13.9

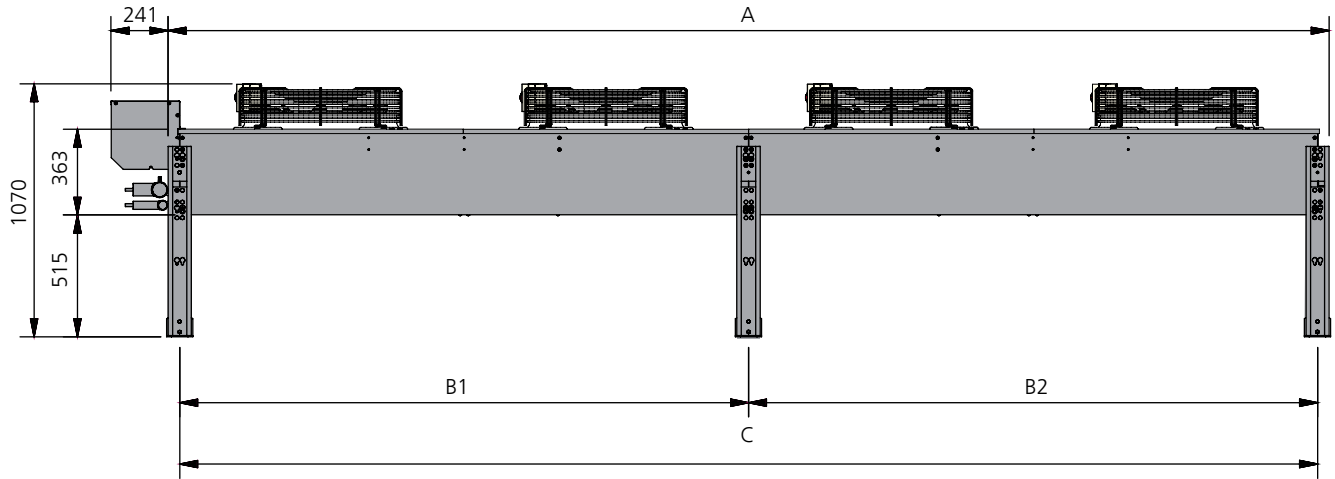
Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m

Model	Delta (High Speed)					Star (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Capacity *	Air Volume	Sound Level **	Power Input	Energy Rating	Capacity *	Air Volume	Sound Level **	Power Input	Energy Rating			
	R404A & R507A					R404A & R507A							
kW	m ³ /s	dB(A)	W		kW	m ³ /s	dB(A)	W		m ²	dm ³	kg	

630mm 8 pole 3 phases

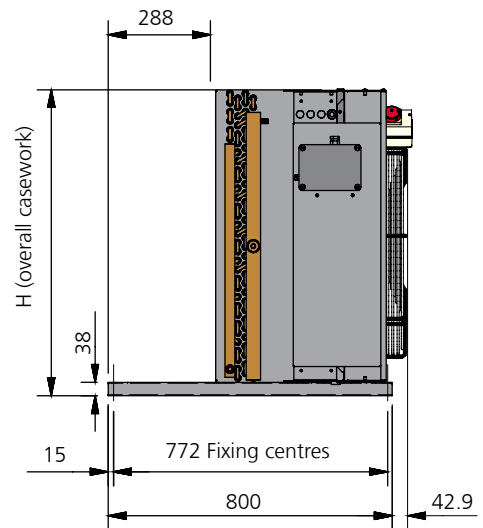
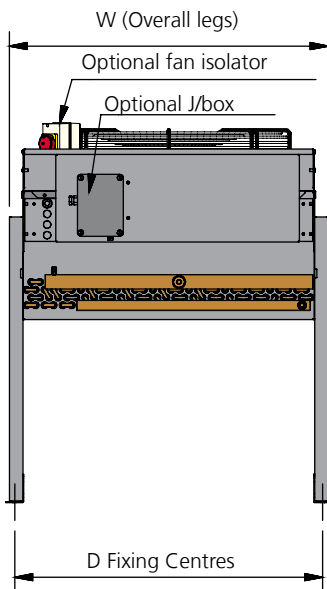
MEB112-N608-3	19.7	1.98	37	350	C	16.3	1.34	28	200	B	38	7	2.2
MEC112-N608-3	22.1	2.10	37	340	C	18.1	1.44	28	200	B	48	8	2.5
MEB113-N608-3	24.2	1.84	37	360	C	19.1	1.26	29	200	B	58	10	3.2
MEB114-N608-3	26.4	1.72	38	370	B	20.4	1.18	29	200	B	77	12	3.8
MEC113-N608-3	27.1	1.98	37	350	B	21.5	1.36	28	200	B	72	12	3.8
MEC114-N608-3	30.0	1.90	37	360	B	23.1	1.30	29	200	A	96	15	4.7
MEB122-N608-3	39.4	3.96	40	700	C	32.6	2.70	31	400	B	77	12	3.8
MEC122-N608-3	44.2	4.22	40	680	C	36.2	2.88	31	390	B	96	16	5.1
MEB123-N608-3	48.4	3.68	40	720	C	38.2	2.50	32	400	B	115	18	5.7
MEB124-N608-3	52.8	3.44	41	740	B	40.8	2.36	32	410	B	154	24	7.6
MEC123-N608-3	54.2	3.98	40	700	B	43.0	2.72	31	400	B	144	23	7.3
MEB132-N608-3	59.1	5.94	41	1050	C	48.9	4.04	33	600	B	115	18	5.7
MEC124-N608-3	60.0	3.78	40	710	B	46.2	2.58	32	400	A	192	29	9.2
MEC132-N608-3	66.3	6.32	41	1030	C	54.3	4.32	33	590	B	144	23	7.3
MEB133-N608-3	72.6	5.52	41	1080	C	57.3	3.76	34	610	B	173	26	8.2
MEB142-N608-3	78.8	7.92	42	1400	C	65.2	5.40	34	790	B	154	23	7.3
MEB134-N608-3	79.2	5.16	42	1110	B	61.2	3.52	34	610	B	230	34	10.7
MEC133-N608-3	81.3	5.96	41	1050	B	64.5	4.08	33	600	B	216	32	10.1
MEC142-N608-3	88.4	8.44	43	1370	C	72.4	5.76	34	780	B	192	30	9.5
MEC134-N608-3	90.0	5.68	41	1070	B	69.3	3.88	33	600	A	288	43	13.6
MEB143-N608-3	96.8	7.36	42	1440	C	76.4	5.02	35	810	B	230	34	10.7
MEB144-N608-3	105.6	6.86	43	1480	B	81.6	4.70	35	820	B	307	44	13.9
MEC143-N608-3	108.4	7.96	42	1400	B	86.0	5.44	34	790	B	288	42	13.3
MEC144-N608-3	120.0	7.56	42	1430	B	92.4	5.16	34	800	A	384	55	17.4

Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m

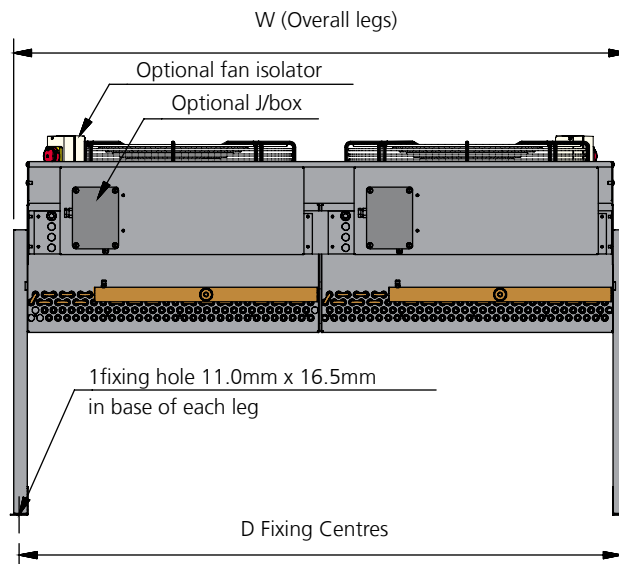


ME Single bank horizontal unit

ME Vertical unit



ME Double bank horizontal unit



Model	Banks	Fans per bank	A	B1	B2	C	D	W	H	Appox Dry Weight.		Inlet	Outlet	
			mm	mm	mm	mm	mm	mm	mm	mm	kg			kg
			AL/AV	CU/ET										
MEA112	1	1	893	—	—	795	867	898	863	75	85	1.3/8"	7/8"	
MEA113	1	1	893	—	—	795	867	898	863	80	97	1.1/8"	7/8"	
MEA114	1	1	893	—	—	795	867	898	863	85	107	1.3/8"	7/8"	
MEA122	1	2	1698	—	—	1600	867	898	863	120	142	1.3/8"	7/8"	
MEA123	1	2	1698	—	—	1600	867	898	863	130	163	1.3/8"	7/8"	
MEA124	1	3	1698	—	—	1600	867	898	863	140	184	1.3/8"	7/8"	
MEA132	1	3	2501	—	—	2403	867	898	863	164	197	1.3/8"	7/8"	
MEA133	1	3	2501	—	—	2403	867	898	863	183	233	1.5/8"	1.1/8"	
MEA134	1	3	2501	—	—	2403	867	898	863	195	261	2.1/8"	1.3/8"	
MEA142	1	4	3308	—	—	3210	867	898	863	209	254	1.5/8"	1.1/8"	
MEA143	1	4	3308	—	—	3210	867	898	863	229	296	2.1/8"	1.1/8"	
MEA144	1	4	3308	—	—	3210	867	898	863	249	338	2.1/8"	1.3/8"	
MEA212	2	1	893	—	—	795	1695	1726	-	144	164	1.3/8"	7/8"	
MEA213	2	1	893	—	—	795	1695	1726	-	154	187	1.1/8"	7/8"	
MEA214	2	1	893	—	—	795	1695	1726	-	164	209	1.3/8"	7/8"	
MEA222	2	2	1698	—	—	1600	1695	1726	-	233	278	1.3/8"	7/8"	
MEA223	2	2	1698	—	—	1600	1695	1726	-	253	320	1.3/8"	7/8"	
MEA224	2	2	1698	—	—	1600	1695	1726	-	273	362	1.3/8"	7/8"	
MEA232	2	3	2501	—	—	2403	1695	1726	-	322	389	1.3/8"	7/8"	
MEA233	2	3	2501	—	—	2403	1695	1726	-	360	460	1.5/8"	1.1/8"	
MEA234	2	3	2501	—	—	2403	1695	1726	-	383	517	2.1/8"	1.3/8"	
MEA242	2	4	3308	—	—	3210	1695	1726	-	413	502	1.5/8"	1.1/8"	
MEA243	2	4	3308	—	—	3210	1695	1726	-	452	586	2.1/8"	1.1/8"	
MEA244	2	4	3308	—	—	3210	1695	1726	-	492	670	2.1/8"	1.3/8"	
MEB112	1	1	1293	—	—	1195	867	898	863	97	113	1.3/8"	7/8"	
MEB113	1	1	1293	—	—	1195	867	898	863	104	129	1.3/8"	7/8"	
MEB114	1	1	1293	—	—	1195	867	898	863	113	146	1.3/8"	7/8"	
MEB122	1	2	2501	—	—	2403	867	898	863	163	196	1.3/8"	7/8"	
MEB123	1	2	2501	—	—	2403	867	898	863	177	227	1.5/8"	7/8"	
MEB124	1	3	2501	—	—	2403	867	898	863	192	259	2.1/8"	1.3/8"	
MEB132	1	3	3703	—	—	3605	867	898	863	230	280	1.5/8"	1.1/8"	
MEB133	1	3	3703	—	—	3605	867	898	863	252	327	2.1/8"	1.1/8"	
MEB134	1	3	3703	—	—	3605	867	898	863	274	375	2.1/8"	1.3/8"	
MEB142	1	4	4903	2403	2403	4805	867	898	863	322	389	1.5/8"	1.1/8"	
MEB143	1	4	4903	2403	2403	4805	867	898	863	352	452	2.1/8"	1.3/8"	
MEB144	1	4	4903	2403	2403	4805	867	898	863	381	515	2.1/8"	1.3/8"	
MEB212	2	1	1293	—	—	1195	1695	1726	-	188	221	1.3/8"	7/8"	
MEB213	2	1	1293	—	—	1195	1695	1726	-	203	252	1.1/8"	7/8"	
MEB214	2	1	1293	—	—	1195	1695	1726	-	219	286	1.3/8"	7/8"	
MEB222	2	2	2501	—	—	2403	1695	1726	-	319	386	1.3/8"	7/8"	
MEB223	2	2	2501	—	—	2403	1695	1726	-	349	449	1.5/8"	1.1/8"	
MEB224	2	2	2501	—	—	2403	1695	1726	-	379	512	2.1/8"	1.3/8"	
MEB232	2	3	3703	—	—	3605	1695	1726	-	454	554	1.5/8"	1.1/8"	
MEB233	2	3	3703	—	—	3605	1695	1726	-	498	648	2.1/8"	1.1/8"	
MEB234	2	3	3703	—	—	3605	1695	1726	-	543	743	2.1/8"	1.3/8"	
MEB242	2	4	4903	2403	2403	4805	1695	1726	-	632	766	2.1/8"	1.3/8"	
MEB243	2	4	4903	2403	2403	4805	1695	1726	-	693	892	1.5/8"	1.1/8"	
MEB244	2	4	4903	2403	2403	4805	1695	1726	-	751	1018	2.1/8"	1.3/8"	
MEC112	1	1	1293	—	—	1195	1070	1101	1066	104	125	1.3/8"	7/8"	
MEC113	1	1	1293	—	—	1195	1070	1101	1066	114	145	1.3/8"	7/8"	
MEC114	1	1	1293	—	—	1195	1070	1101	1066	123	165	1.3/8"	7/8"	
MEC122	1	2	2501	—	—	2403	1070	1101	1066	175	216	1.5/8"	1.1/8"	
MEC123	1	2	2501	—	—	2403	1070	1101	1066	193	256	2.1/8"	1.1/8"	
MEC124	1	3	2501	—	—	2403	1070	1101	1066	212	295	2.1/8"	1.3/8"	
MEC132	1	3	3703	—	—	3605	1070	1101	1066	250	312	2.1/8"	1.1/8"	
MEC133	1	3	3703	—	—	3605	1070	1101	1066	278	372	2.1/8"	1.3/8"	
MEC134	1	3	3703	—	—	3605	1070	1101	1066	306	431	2.1/8"	1.3/8"	
MEC142	1	4	4903	2403	2403	4805	1070	1101	1066	344	427	1.5/8"	1.3/8"	
MEC143	1	4	4903	2403	2403	4805	1070	1101	1066	381	506	2.1/8"	1.3/8"	
MEC144	1	4	4903	2403	2403	4805	1070	1101	1066	418	585	2.1/8"	1.3/8"	
MEC212	2	1	1293	—	—	1195	2101	2132	-	197	238	1.3/8"	7/8"	
MEC213	2	1	1293	—	—	1195	2101	2132	-	216	278	1.3/8"	7/8"	
MEC214	2	1	1293	—	—	1195	2101	2132	-	234	317	1.5/8"	7/8"	
MEC222	2	2	2501	—	—	2403	2101	2132	-	338	412	2.1/8"	1.1/8"	
MEC223	2	2	2501	—	—	2403	2101	2132	-	375	500	2.1/8"	1.1/8"	
MEC224	2	2	2501	—	—	2403	2101	2132	-	412	579	2.1/8"	1.3/8"	
MEC232	2	3	3703	—	—	3605	2101	2132	-	488	613	2.1/8"	1.1/8"	
MEC233	2	3	3703	—	—	3605	2101	2132	-	544	731	2.1/8"	1.3/8"	
MEC234	2	3	3703	—	—	3605	2101	2132	-	499	850	2.1/8"	1.3/8"	
MEC242	2	4	4903	2403	2403	4805	2101	2132	-	664	830	2.1/8"	1.1/8"	
MEC243	2	4	4903	2403	2403	4805	2101	2132	-	738	988	2.1/8"	1.3/8"	
MEC244	2	4	4903	2403	2403	4805	2101	2132	-	812	1145	2.1/8"	1.3/8"	





MG Condensers

The MG range of fully weather-proofed air cooled condensers is suitable for a wide variety of applications, with a duty range of 15kW to 770kW. These capacities can be achieved both in flat-bed horizontal and vertical configurations. In addition, Searle has created the latest innovation of blow-through horizontal coil designs for high ambient temperature applications.

Due to the large number of options only a selection of the range is available in this catalogue, selection is best achieved using the Selection data tables or the Searle selection software, either on-line at www.searle.co.uk or via the Searle Selection CD. GEA Searle achieves a close specification match through module length options of 1200mm, 1440mm and 1800mm in a single (1158mm) or double (2301mm) bank configuration. The range is up to 8 fans in length, combined with coil sizes between 2 to 4 row and multiple standard fan options up to 910mm. Searle is able to manufacture units up to 9.6m in length with 16 fan.

For the ultimate in fan speed control, GEA Searle offers the EC fan, a high efficiency and low noise, complete fan speed control package. For full details of the EC fanset and the suitable applications please refer to the back of this brochure.

Fan data table

Fan type & Pole	Diameter	Module	Delta			Star		
			Speed (rpm)	FLC (Amp)	SC (Amp)	Speed (rpm)	FLC (Amp)	SC (Amp)
N504 4 Pole	800mm	A,B,C	895	4.3	14	685	2.5	4
N808 8 Pole		A,B,C	665	2.5	6.2	495	1.3	2.2
N812 12 Pole		A,B,C	450	1.2	2.3	350	0.5	0.8
Q812 12 Pole	910mm	A,B,C	360	0.75	1	255	0.3	0.5
N906 6 Pole		A,B,C	870	5.7	19	650	3.3	1.10
09EC EC Technology		A,B,C	Variable 100 - 855	3.1	4.3			



MG C 1 3 3 H - Q8 12 D - AL

Range	MG
Module size	A (1200mm), B (1440mm), C (1800mm)
Bank of fans	1 or 2
Fans per bank	1 - 8 (MGA), 1-6 (MGB), 1-5 (MGC)
Coils rows	2, 3, 4
Coil Orientation	H = Horizontal, V = Vertical
Fans type	N8 (800mm), Q8 (800mm), O9 (910mm), N9 (910mm), 99 (990mm)
Motor speed (poles)	06, 08, 12, 09EC = (Max 855rpm)
Power	D = Delta, S = Star, 2 = 2 Speed
Coil material	AL = Copper tubes/ Aluminium fns, AV = Copper tubes with 2 pack epoxy coated aluminium fns. CU = Copper tubes/ Copper fns, ET = Copper tubes/ Copper fns electro-tinned, Bg = Copper tube/Aluminium fn Blygold coated

MG 910mm 6 pole selection data

Model	Delta (High speed)					Star (Low Speed)					Total surface m ²	Internal volume dm ³	R404A Charge kg
	Capacity *	Air volume	Sound level **	Power input	Energy rating	Capacity *	Air volume	Sound level **	Power input	Energy rating			
	R404A & R507A					R404A & R507A							
	kW	m ³ /s	dB(A)	W		kW	m ³ /s	dB(A)	W				
MGA112	45.4	6.27	53	2270	E	39.4	4.83	45	1530	E	60	13	4.1
MGB112	52.2	6.83	52	2170	E	43.7	5.31	45	1490	E	72	17	5.4
MGA113	55.5	5.64	54	2370	E	45.0	4.15	46	1570	E	89	20	6.3
MGC112	60.0	7.34	52	2060	E	50.6	5.78	45	1450	D	89	20	6.3
MGA114	62.2	5.22	56	2420	E	48.5	3.74	47	1590	D	119	26	8.2
MGB113	64.1	6.26	53	2270	E	51.6	4.67	45	1540	D	107	23	7.3
MGB114	69.8	5.98	52	2340	E	56.2	4.25	46	1560	D	143	30	9.5
MGC113	74.2	6.86	52	2160	D	60.8	5.25	45	1500	D	134	28	8.8
MGC114	80.8	6.55	52	2220	D	65.7	4.85	45	1530	D	179	36	11.4
MGA212	90.9	12.54	56	4550	E	78.7	9.67	48	3060	E	119	26	8.2
MGB212	104.4	13.66	55	6510	E	87.3	10.63	48	4490	E	143	33	10.4
MGB122	104.8	13.66	55	4340	E	87.7	10.63	48	2990	E	143	30	9.5
MGA213	110.9	11.27	57	4740	E	88.4	8.30	49	3140	E	179	40	12.6
MGA123	111.2	11.27	57	4740	E	88.5	8.30	49	3140	E	179	36	11.4
MGC212	120.0	15.00	55	4130	E	101.3	94.0	48	2910	D	179	40	12.6
MGA214	124.4	10.00	58	4850	E	99.9	7.47	50	3180	D	239	51	16.1
MGB213	128.2	12.52	56	6830	E	103.2	9.34	48	4620	E	215	46	14.5
MGB214	144.3	11.96	55	7040	E	114.4	8.50	49	4700	E	286	60	19.0
MGB124	145.5	11.96	55	4690	D	116.0	8.50	49	3130	D	286	55	17.4
MGC213	148.4	14.00	55	4320	D	121.7	10.49	48	3000	D	268	56	17.7
MGB132	157.5	20.49	57	6510	E	131.5	15.94	49	4490	E	215	42	13.3
MGC214	166.5	13.10	55	4450	D	135.1	9.70	48	3060	D	358	72	22.8
MGC124	166.9	13.10	55	4450	D	135.4	9.70	48	3060	D	358	70	22.1
MGA133	168.9	16.91	59	7110	E	135.9	12.46	51	4710	E	268	54	17.1
MGB142	204.0	27.32	58	8680	E	168.9	21.25	50	5990	E	286	57	18.0
MGB222	209.6	27.32	58	8680	E	175.4	21.25	51	5990	E	286	59	18.6
MGB134	211.3	17.93	57	7040	D	169.5	12.74	51	4700	D	429	82	25.9
MGA223	222.4	22.54	60	9490	E	177.0	16.61	52	6290	E	358	72	22.8
MGA143	225.6	22.54	60	9490	E	180.7	16.61	52	6290	E	358	69	21.8
MGC134	243.2	19.64	57	6680	D	197.6	14.54	50	4590	D	537	101	31.9
MGB152	260.5	34.15	59	10850	E	216.6	26.57	51	7490	E	358	69	21.8
MGA153	281.3	28.18	61	11860	E	226.7	20.76	53	7860	E	447	86	27.2
MGB144	282.8	23.91	58	9390	D	225.9	16.99	51	6260	D	572	108	34.1
MGB224	291.0	23.91	58	9390	D	232.1	16.99	52	6260	D	572	110	34.8
MGC152	299.9	36.69	59	10320	E	253.2	28.88	52	7260	E	448	86	27.2
MGB162	313.1	40.98	60	13020	E	261.9	31.88	52	8990	E	429	82	25.9
MGB232	314.9	40.98	60	13020	E	263.0	31.88	52	8990	E	429	84	26.5
MGC144	323.1	26.19	58	8910	D	264.6	19.39	50	6120	D	715	133	42.0
MGC224	333.9	26.19	58	8910	D	270.7	19.39	51	6120	D	715	139	43.9
MGA163	334.1	33.81	62	14230	E	265.8	24.91	53	9430	E	537	102	32.2
MGA233	337.8	33.81	62	14230	E	271.9	24.91	54	9430	E	537	108	34.1
MGB154	351.0	29.89	59	11730	E	282.5	21.24	52	7830	D	715	133	42.0
MGA182	363.4	50.17	62	18220	E	314.8	38.66	54	12260	E	480	91	29.0
MGC153	371.1	34.30	59	10820	D	304.2	26.25	51	7520	E	671	117	39.9
MGB163	384.7	37.57	60	13670	E	309.6	28.01	53	9250	E	644	122	38.4
MGA173	388.3	39.45	63	16610	E	315.2	29.06	54	11000	E	627	119	37.4
MGC154	404.1	32.74	59	11140	D	328.6	24.24	51	7660	E	894	166	52.2
MGB242	408.1	54.64	61	17360	E	337.9	42.51	53	11990	E	572	113	35.7
MGB164	419.0	35.87	60	14080	E	337.4	25.49	53	9400	E	858	159	50.2
MGB234	430.3	35.22	61	14050	D	348.5	25.49	53	9400	D	858	164	51.8
MGA183	443.8	45.08	64	18980	E	360.3	33.21	55	12580	E	716	135	42.6
MGA243	451.2	45.08	63	18980	E	361.4	33.21	55	12580	E	715	139	43.9
MGA184	497.6	41.79	65	19410	E	388.3	29.94	57	12730	E	954	176	55.6
MGC234	501.2	39.29	60	13370	D	406.3	29.09	52	9190	D	1073	201	63.5
MGB252	521.0	68.30	61	21700	E	433.2	53.14	54	14980	E	715	138	43.6
MGA253	562.5	56.36	64	23720	E	453.3	41.52	55	15720	E	894	173	54.7
MGB244	576.4	46.96	62	18730	D	464.7	33.98	54	12530	D	1145	217	68.6
MGC252	599.9	73.38	61	20650	E	506.3	57.77	54	14530	E	894	172	54.2
MGB262	626.1	81.96	63	26040	E	523.8	63.76	55	26940	E	858	165	52.0
MGC244	665.2	52.39	60	17830	D	543.7	38.78	53	12250	D	1431	266	84.1
MGA263	668.2	67.63	64	28470	E	531.5	49.82	56	18870	E	1073	204	64.5
MGB254	714.9	58.70	63	23420	D	580.2	42.48	55	15670	D	1431	266	84.1
MGA282	726.8	100.35	65	36440	E	629.6	77.33	57	24530	E	953	183	58.2
MGC253	742.2	68.61	61	21640	D	608.4	52.50	54	9020	E	1342	253	80.0
MGB263	769.4	75.15	63	27340	E	619.3	56.02	55	18510	E	1280	243	76.8

Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m

MG 800mm 6 pole selection data

Model	Delta (High speed)					Star (Low Speed)					Total surface m ²	Internal volume dm ³	R404A Charge kg
	Capacity *	Air volume	Sound level **	Power input	Energy rating	Capacity *	Air volume	Sound level **	Power input	Energy rating			
	R404A & R507A					R404A & R507A							
	kW	m ³ /s	dB(A)	W	kW	m ³ /s	dB(A)	W					
MGA112	39.8	5.31	49	1640	E	35.5	4.34	43	1090	D	60	13	4.1
MGB112	45.3	5.67	48	1590	E	40.3	4.61	44	1080	D	72	17	5.4
MGA113	50.8	4.81	50	1730	E	45.2	3.88	42	1110	D	89	20	6.3
MGC112	52.1	6.04	48	1540	D	46.0	4.84	44	1060	D	89	20	6.3
MGB113	57.9	5.22	49	1650	D	50.4	4.17	42	1100	C	107	23	7.3
MGA114	59.0	4.51	51	1800	D	50.7	3.56	43	1140	D	119	26	8.2
MGB114	65.9	4.91	50	1710	D	57.0	3.87	42	1100	C	143	30	9.5
MGC113	66.4	5.62	48	1590	D	57.6	4.50	43	1080	C	134	28	8.8
MGC114	75.5	5.33	49	1630	C	64.2	4.19	42	1090	C	179	36	11.4
MGA212	79.6	10.63	52	3280	E	71.0	8.68	45	2190	D	119	26	8.2
MGA212	90.6	11.34	51	4780	E	80.6	9.22	46	3240	E	143	33	10.4
MGB122	91.0	11.34	51	3180	E	81.2	9.22	46	2160	D	143	30	9.5
MGA213	101.6	9.62	53	3460	E	88.7	7.76	45	2220	D	179	40	12.6
MGA123	101.8	9.62	53	3460	E	88.9	7.76	45	2220	D	179	36	11.4
MGC212	104.1	12.07	51	3090	D	92.0	9.69	47	2120	D	179	40	12.6
MGB213	115.8	10.44	52	4960	E	100.7	8.33	45	3300	D	215	46	14.5
MGA214	117.9	9.03	54	3600	D	101.4	7.13	46	2290	D	239	51	16.1
MGB214	131.7	9.83	53	3420	D	112.6	7.73	45	2215	C	286	60	19.0
MGC213	132.8	11.24	51	3190	D	115.1	8.99	46	2170	C	268	56	17.7
MGB124	133.3	9.83	52	3420	D	114.3	7.73	45	2210	C	286	55	17.4
MGB132	136.6	17.00	53	4780	E	121.3	13.83	48	3240	D	215	42	13.3
MGC214	151.0	10.66	52	3260	C	128.3	8.37	45	2190	C	358	72	22.8
MGC124	151.3	10.66	51	3260	C	128.5	8.37	45	2190	C	358	70	22.1
MGA133	155.5	14.43	55	5200	E	136.5	11.64	47	3330	D	268	54	17.1
MGB142	175.2	22.67	54	6370	E	155.4	18.44	49	4320	D	286	57	18.0
MGB222	181.9	22.67	54	6370	E	162.3	18.44	49	4320	D	286	59	18.6
MGB134	199.6	14.74	54	5130	D	171.7	11.60	47	3320	C	429	82	25.9
MGA223	203.7	19.24	56	6930	E	177.8	15.52	48	4440	D	358	72	22.8
MGC142	205.5	24.15	54	6180	D	180.2	19.37	50	4250	D	358	68	21.8
MGA143	207.5	19.24	56	6930	E	181.5	15.52	48	4440	D	358	69	21.8
MGB153	286.5	26.10	55	8260	D	248.6	20.83	49	5510	C	537	102	32.2
MGC134	227.1	15.98	53	4900	C	192.9	12.56	47	3290	C	537	101	31.9
MGA162	239.9	31.88	56	9860	E	213.7	26.03	50	6590	D	358	69	21.8
MGA153	259.2	24.05	56	8660	E	227.7	19.40	49	5550	D	447	86	27.2
MGC143	260.2	22.48	54	6390	D	224.6	17.99	49	4340	C	537	102	32.2
MGB224	266.5	19.65	55	6840	D	228.6	15.47	48	4430	C	572	110	34.8
MGB144	267.0	19.65	55	6840	D	228.9	15.47	48	4430	C	572	108	34.1
MGB232	273.1	34.01	56	9560	E	242.7	27.66	51	6480	D	429	84	26.5
MGB153	286.5	26.10	55	8260	D	248.6	20.83	49	5510	C	537	102	32.2
MGC144	302.4	21.31	54	6530	C	258.4	16.75	48	4390	C	715	133	42.0
MGC224	302.5	21.31	54	6530	C	257.0	16.75	48	4390	C	715	139	43.9
MGA163	305.9	28.86	57	10400	E	266.9	23.28	50	6660	D	537	102	32.2
MGA233	311.1	28.86	58	10400	E	273.1	23.28	50	6660	D	537	108	34.1
MGB154	331.5	24.56	56	8550	D	285.8	19.33	49	5540	C	715	133	42.0
MGB242	350.4	45.34	57	12750	E	310.8	36.88	52	8650	D	572	113	35.7
MGA164	353.7	27.09	59	10810	D	305.2	21.38	51	6870	D	715	133	42.0
MGB234	399.2	29.48	57	10270	D	343.5	23.20	50	6650	C	858	164	51.8
MGA243	415.0	38.48	58	13870	E	363.0	31.03	51	8880	D	715	139	43.9
MGB252	449.6	56.68	58	15940	E	399.0	46.10	53	10810	D	715	138	43.6
MGC234	454.1	31.97	56	9800	C	385.7	25.12	50	6590	C	1073	201	63.5
MGA253	518.3	48.10	59	17330	E	455.3	38.79	52	11110	D	894	173	54.7
MGC252	520.7	60.37	58	15450	D	460.1	48.43	54	10600	D	894	171	54.2
MGB244	534.1	39.30	58	13690	D	457.9	30.94	51	8870	C	1145	217	68.6
MGB262	543.7	68.01	59	28680	E	483.6	55.32	54	19440	E	858	164	52.01
MGC244	604.8	42.62	57	13070	C	516.7	33.50	51	8790	C	1431	266	84.1
MGA263	611.8	57.72	60	20800	E	533.8	46.55	53	13330	D	1073	204	64.5
MGA282	636.9	85.03	61	26240	E	567.7	69.41	55	17520	D	953	183	58.2
MGB254	663.1	49.13	59	17110	D	571.7	38.67	52	11090	C	1431	266	84.1
MGC253	664.1	56.21	58	15950	D	575.7	44.97	52	10850	C	1342	253	80.0
MGB263	694.9	62.64	59	29760	E	604.5	50.0	53	19800	D	1280	243	76.86
MGA273	711.4	67.34	61	24220	E	621.2	54.31	54	15540	D	1252	238	75.2
MGC254	754.8	53.28	58	16300	C	641.6	41.87	52	10950	C	1787	330	104
MGB264	790.4	58.95	60	20520	D	675.6	46.40	53	13290	C	1716	319	100.86
MGA283	813.0	76.95	62	27680	E	709.9	62.07	55	17760	D	1430	271	85.6
MGA284	943.5	72.23	64	28800	D	811.1	57.02	56	18320	D	1907	353	111.72

Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m

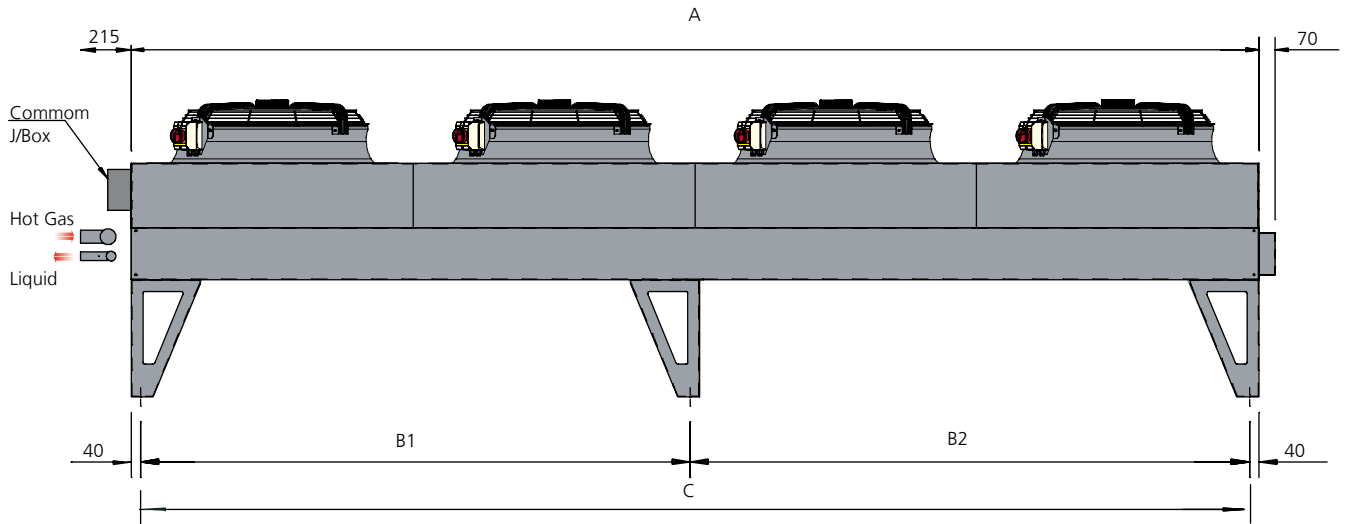
MG 800mm 8 pole selection data

Model	Delta (High speed)					Star (Low Speed)					Total surface m ²	Internal volume dm ³	R404A Charge kg
	Capacity *	Air volume	Sound level **	Power input	Energy rating	Capacity *	Air volume	Sound level **	Power input	Energy rating			
	R404A & R507A					R404A & R507A							
	kW	m ³ /s	dB(A)	W	kW	m ³ /s	dB(A)	W					
MGA112	33.9	4.02	42	800	D	29.8	3.12	35	510	C	60	13	4.1
MGB112	38.7	4.31	41	790	C	32.8	3.30	35	500	C	72	17	5.4
MGA113	42.9	3.65	41	850	C	35.9	2.73	35	520	C	89	20	6.3
MGC112	44.2	4.57	40	780	C	37.5	3.50	34	490	B	89	20	6.3
MGA114	47.6	3.33	41	900	C	38.8	2.47	35	530	B	119	26	8.2
MGB113	48.5	3.98	42	820	C	40.8	3.0	35	510	B	107	23	7.3
MGB114	54.2	3.71	41	840	C	44.3	2.74	35	520	B	143	30	9.5
MGC113	55.2	4.32	41	790	C	46.0	3.23	35	500	B	134	28	8.8
MGC114	61.8	4.07	42	810	B	51.0	3.05	35	510	B	179	36	11.4
MGA212	67.8	8.05	45	1610	D	58.3	6.23	38	1020	C	119	26	8.2
MGB212	77.3	8.63	44	1590	C	65.7	6.61	37	1500	D	143	33	10.4
MGB122	77.9	8.63	44	1590	C	66.6	6.61	37	1000	C	143	30	9.5
MGA123	84.1	7.30	44	1700	C	70.0	5.45	38	1040	C	179	36	11.4
MGA213	85.8	7.30	44	1700	C	71.8	5.45	38	1040	C	179	40	12.6
MGC212	88.5	9.15	43	1560	C	75.0	7.00	37	980	B	179	40	12.6
MGA214	95.2	6.67	44	1800	C	77.7	4.95	37	1060	B	239	51	16.1
MGB213	97.0	7.97	45	1640	C	81.5	6.00	38	1035	B	215	46	14.5
MGB214	108.4	7.41	44	1690	C	88.6	5.49	38	1045	B	286	60	19.0
MGB124	108.6	7.41	44	1690	C	88.5	5.49	38	1040	B	286	55	17.4
MGC213	110.5	8.65	44	1690	C	92.0	6.46	38	1000	B	268	56	17.7
MGB132	116.4	12.94	46	2380	C	98.8	9.91	39	1500	C	215	42	13.3
MGC124	123.3	8.15	45	1620	B	101.3	6.10	38	1020	B	358	70	22.1
MGC214	123.5	8.15	45	1620	B	102.1	6.10	38	1020	B	358	72	22.8
MGA133	129.4	10.95	46	2550	C	108.1	8.18	40	1570	C	268	54	17.1
MGB142	148.9	17.25	47	3180	C	126.4	13.22	40	2000	C	286	57	18.0
MGB222	155.8	17.25	47	3180	C	133.2	13.22	40	2000	C	286	59	18.6
MGB134	163.3	11.12	46	2540	C	133.4	8.23	40	1570	B	429	82	25.9
MGA223	168.1	14.61	47	3400	C	140.0	10.91	41	2090	C	358	72	22.8
MGA143	172.0	14.61	47	3400	C	143.4	10.91	40	2090	C	358	69	21.8
MGC142	173.0	18.30	46	3130	C	145.9	13.99	40	1960	B	358	69	21.8
MGC134	185.0	12.22	47	2430	B	152.1	9.16	40	1540	B	537	101	31.9
MGB152	191.1	121.5	48	3980	C	161.9	16.52	41	2500	C	358	69	21.8
MGA162	204.0	24.14	50	4840	D	175.5	18.70	42	3070	C	358	69	21.8
MGC143	215.4	17.30	47	3190	C	179.2	12.92	40	2010	B	537	102	32.2
MGA153	216.0	18.26	48	4260	C	180.9	13.64	41	2620	C	447	86	27.2
MGB224	217.3	14.83	47	3380	C	177.0	10.97	41	2090	B	572	110	34.8
MGB144	217.6	14.83	47	3380	C	177.1	10.97	40	2090	B	572	108	34.1
MGB232	232.7	25.88	49	4770	C	197.6	19.82	42	3000	C	429	84	26.5
MGB153	237.6	19.92	48	4100	C	198.1	15.00	42	2590	B	537	102	32.2
MGC224	246.5	16.30	48	3240	B	202.7	12.21	41	2050	B	715	139	43.9
MGC144	248.2	16.30	48	3240	B	204.8	12.21	41	2050	B	715	133	42.0
MGA163	252.4	21.91	49	5110	C	210.2	16.36	42	3140	C	537	102	32.2
MGA233	258.7	21.91	49	5110	C	216.2	16.36	42	3140	C	537	108	34.1
MGB154	272.2	18.53	48	4230	C	222.8	13.72	41	2620	B	715	133	42.0
MGA164	287.1	20.00	49	5410	C	235.5	14.84	42	3180	B	715	133	42.0
MGB242	297.8	34.51	50	6370	C	252.7	26.43	43	4000	C	572	113	35.7
MGB234	326.6	22.24	49	5080	C	266.7	16.46	42	3140	B	858	164	51.8
MGA243	343.9	29.21	50	6810	C	286.7	21.82	43	4190	C	715	139	43.9
MGC234	369.9	24.45	50	4860	B	304.1	18.31	43	3080	B	1073	201	63.5
MGB252	382.3	23.13	51	7960	C	323.8	33.04	44	5000	C	715	138	43.6
MGA253	432.0	36.51	51	8520	C	361.7	27.27	44	5240	C	894	173	54.7
MGB244	435.1	29.65	50	6770	C	354.2	21.95	43	4190	B	1145	217	68.6
MGC252	442.4	45.75	50	7800	C	375.2	34.98	44	4900	B	894	171	54.2
MGB262	463.9	51.76	52	9540	C	394.2	39.65	45	9000	D	858	164	52.0
MGC244	496.4	32.60	50	6480	B	409.6	24.42	43	4110	B	1431	266	84.1
MGA263	504.8	43.82	52	10220	C	420.4	32.72	45	6290	C	1073	204	64.5
MGA263	542.2	64.38	55	12880	D	466.7	49.86	47	8160	C	953	183	58.3
MGB254	544.5	37.07	51	8470	C	445.6	27.43	44	5240	B	1431	266	84.1
MGC253	552.5	43.2	51	8450	C	460.0	32.30	44	5000	B	1342	253	80.0
MGB263	581.8	47.81	52	9840	C	489.0	36.00	46	6210	B	1280	243	76.9
MGA273	600.3	51.12	53	11900	C	502.6	38.18	46	7280	C	1252	238	75.3
MGC254	617.7	40.75	52	8100	B	510.4	30.52	45	5100	B	880	165	52.4
MGB264	650.2	44.48	52	10140	C	531.8	32.92	45	6270	B	1716	319	100.9
MGA283	686.1	58.42	54	13600	C	574.4	43.6	47	8320	C	1430	271	85.7
MGA284	761.6	53.3	54	14400	C	621.5	39.56	47	8480	B	1907	353	111.7

Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m

Model	Delta (High speed)					Star (Low Speed)					Total surface m ²	Internal volume dm ³	R404A Charge kg
	Capacity *	Air volume m ³ /s	Sound level ** dB(A)	Power input W	Energy rating	Capacity *	Air volume m ³ /s	Sound level ** dB(A)	Power input W	Energy rating			
	R404A & R507A					R404A & R507A							
	kW	kW	kW										
MGA112	25.5	2.52	30	310	B	22.7	2.01	23	170	A	60	13	4.1
MGB112	28.5	2.67	29	300	B	25.6	2.15	23	170	A	72	17	5.4
MGA133	90.2	6.81	34	960	B	78.3	5.22	28	560	A	268	54	7.1
MGC112	32.3	2.83	29	300	B	29.0	2.30	23	170	A	89	20	6.3
MGA114	34.2	2.06	30	320	B	28.2	1.57	23	190	A	119	26	8.2
MGB113	34.4	2.41	30	310	A	29.7	1.88	23	180	A	107	23	7.3
MGB114	38.0	2.23	30	320	A	31.7	1.72	23	180	A	143	30	9.5
MGC113	39.0	2.60	29	300	A	34.0	2.05	23	170	A	134	28	8.8
MGC114	42.6	2.47	30	310	A	36.1	1.89	23	180	A	179	36	11.4
MGA212	50.9	5.03	33	620	B	45.4	4.02	26	350	A	119	26	8.2
MGB122	56.2	5.34	32	610	B	50.8	4.30	26	340	A	143	30	9.5
MGB212	56.9	5.34	32	610	B	51.2	4.30	26	345	A	143	33	10.4
MGA213	61.7	4.54	33	640	B	52.7	3.48	26	370	A	179	40	12.6
MGA123	62.2	4.54	33	640	B	53.3	3.48	26	370	A	179	36	11.4
MGC212	64.5	5.66	32	600	B	58.1	4.61	26	340	A	179	40	12.6
MGA214	68.4	4.11	33	650	B	56.5	3.14	26	380	A	239	51	16.1
MGB213	68.7	4.82	33	620	A	59.5	3.77	26	360	A	215	46	14.5
MGB214	75.9	4.46	32	640	A	63.5	3.43	26	370	A	286	60	19.0
MGB124	76.2	4.46	32	640	A	63.6	3.43	26	370	A	286	55	17.4
MGC213	77.9	5.20	32	610	A	68.0	4.11	26	340	A	268	56	17.7
MGB132	84.5	8.01	34	920	B	76.3	6.45	28	520	A	215	42	13.3
MGC124	85.1	4.94	33	620	A	72.1	3.79	26	360	A	358	702	2.1
MGC214	85.1	4.94	33	620	A	72.2	3.79	26	360	A	358	72	22.8
MGA133	90.2	6.81	34	960	B	78.3	5.22	28	560	A	268	54	17.1
MGB222	112.3	10.68	35	1220	B	101.5	8.60	29	690	A	286	59	18.6
MGB134	114.4	6.69	34	960	A	95.5	5.15	28	560	A	429	82	25.9
MGB142	114.4	10.68	35	1220	B	102.5	8.60	29	690	A	286	57	18.0
MGA223	124.3	9.08	35	1290	B	106.7	6.96	29	750	A	358	72	22.8
MGA143	124.6	9.08	35	1290	B	106.8	6.96	29	750	A	358	69	21.8
MGC134	128.0	7.41	35	930	A	108.5	5.68	28	540	A	537	101	31.9
MGC142	130.2	11.33	35	1210	B	117.5	9.21	29	680	A	358	69	21.8
MGB152	143.1	13.34	35	1530	B	128.6	10.75	30	860	A	358	69	21.8
MGB224	152.3	8.92	35	1290	A	127.2	6.87	29	750	A	572	110	34.8
MGB144	152.6	8.92	35	1290	A	127.4	6.87	29	750	A	572	108	34.1
MGA162	153.5	15.09	37	1860	B	37.6	12.07	31	1050	A	358	69	21.8
MGA153	154.3	11.35	36	1610	B	33.1	8.71	30	940	A	447	86	27.2
MGC143	156.5	10.40	34	1230	A	136.2	8.21	29	690	A	537	102	32.2
MGB232	169.1	16.01	37	1840	B	152.7	12.90	31	1040	A	429	84	26.5
MGC144	169.8	9.88	36	1240	A	144.6	7.57	29	720	A	715	33	42.0
MGC224	170.2	9.88	36	1240	A	144.2	7.57	29	720	A	715	139	43.9
MGB153	172.7	12.06	37	1560	A	149.6	9.42	30	910	A	537	02	32.2
MGA233	180.4	13.62	37	1930	B	156.7	10.45	31	1130	A	537	08	34.1
MGA163	187.1	13.62	37	1930	B	160.4	10.45	31	1130	A	537	102	32.2
MGB154	188.8	11.15	36	1610	A	159.2	8.58	30	940	A	715	33	42.0
MGA164	203.0	12.33	38	1950	B	169.4	9.41	31	1160	A	715	133	42.0
MGB234	228.8	13.38	37	1930	A	191.0	10.30	31	1130	A	858	164	51.8
MGB242	228.8	21.35	37	2450	B	205.0	17.20	32	1380	A	572	113	35.7
MGA243	249.3	18.16	38	2580	B	213.7	13.93	32	1500	A	715	39	43.9
MGC234	256.0	14.82	38	1870	A	217.0	11.36	31	1080	A	1073	201	63.5
MGB252	286.2	26.69	38	3060	B	257.1	21.50	33	1730	A	715	138	43.6
MGB244	305.2	17.84	38	2580	A	254.7	13.74	32	1500	A	1145	217	68.6
MGA253	308.5	22.71	39	3230	B	266.1	17.41	33	1880	A	894	173	54.7
MGC252	322.6	28.32	39	3000	B	290.3	23.03	33	1700	A	894	171	54.2
MGC244	339.6	19.76	38	2490	A	289.1	15.15	32	1440	A	431	266	84.1
MGB262	341.6	32.03	39	3660	B	306.9	25.80	34	2070	A	858	164.6	52.0
MGA263	374.2	27.25	40	3870	B	320.7	20.89	34	2260	A	1073	204	64.5
MGB254	377.7	22.30	39	3220	A	318.3	17.17	33	1880	A	1431	266	84.1
MGC253	389.5	25.99	38	3050	A	339.9	20.53	33	1700	A	1342	253	80.0
MGA282	407.5	40.24	42	4960	B	363.4	32.20	36	2800	A	953	183	58.3
MGB263	412.3	28.94	41	3720	A	356.9	22.61	34	2160	A	1280	243.1	76.9
MGC254	425.6	24.70	40	3100	A	361.0	18.93	33	1800	A	880	165	52.4
MGA273	432.0	31.79	41	4480	B	369.2	24.38	35	2590	A	1252	238	75.3
MGB264	455.4	26.77	40	3840	A	380.7	20.60	34	2220	A	1716	319.1	100.9
MGA283	493.7	36.33	42	5120	B	421.9	27.86	36	2960	A	1430	271	85.7
MGA284	547.5	32.88	43	5200	B	451.9	25.10	36	3040	A	1907	353.4	111.7

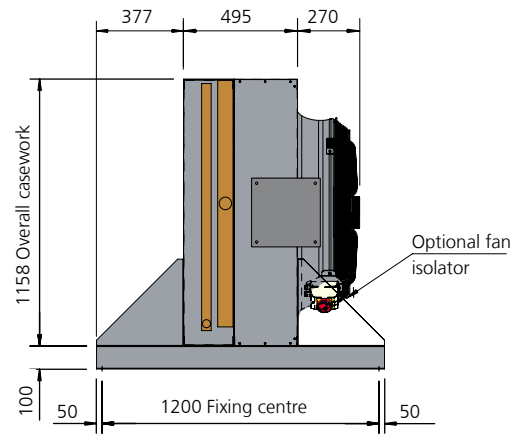
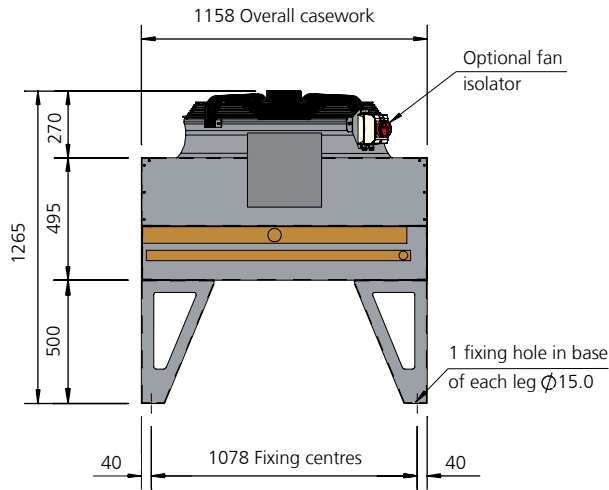
Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m



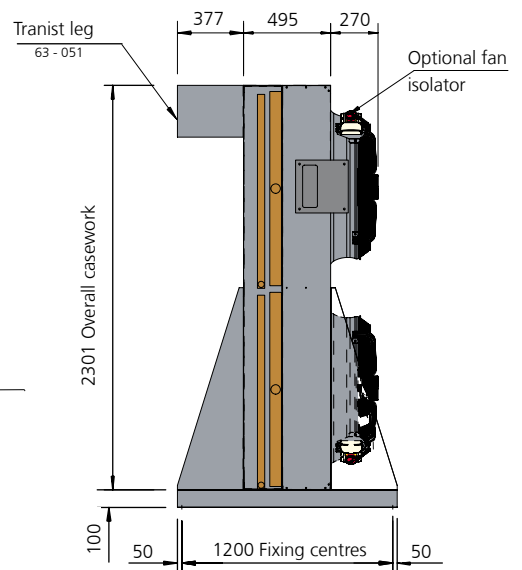
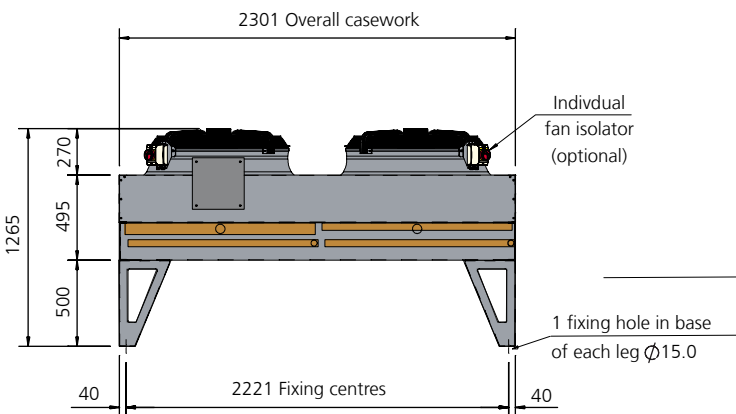
Horizontal unit

Vertical unit

1 Bank



2 Bank



Notes: All dimensions in mm. Common junction box will vary in size and position depending on the control option required.

Model	Fan banks	Fans per bank	A	B1	B2	C	Total unit Dry weight			
							* 1 Bank		* 2 Bank	
							AL	CU	AL	AL
							kg	kg	kg	kg
MGA_12	1 or 2	1	1203	—	—	1123	160	184	285	335
MGA_13	1 or 2	1	1203	—	—	1123	174	211	314	388
MGA_14	1 or 2	1	1203	—	—	1123	188	238	343	441
MGA_22	1 or 2	2	2403	—	—	2323	275	325	494	593
MGA_23	1 or 2	2	2403	—	—	2323	304	378	551	699
MGA_24	1 or 2	2	2403	—	—	2323	331	430	608	806
MGA_32	1 or 2	3	3603	—	—	3523	390	464	712	860
MGA_33	1 or 2	3	3603	—	—	3524	433	544	797	1019
MGA_34	1 or 2	3	3603	—	—	3525	476	624	881	1178
MGA_42	1 or 2	4	4803	2342	2382	4723	515	614	834	1132
MGA_43	1 or 2	4	4803	2342	2382	4723	573	721	1047	1344
MGA_44	1 or 2	4	4803	2342	2382	4723	622	827	1161	1556
MGA_52	1 or 2	5	6003	2942	2982	5923	634	758	1154	1401
MGA_53	1 or 2	5	6003	2942	2982	5923	705	890	1296	1667
MGA_54	1 or 2	5	6003	2942	2982	5923	775	1022	1437	1931
MGA_62	1 or 2	6	7203	3542	3582	7123	745	893	1359	1656
MGA_63	1 or 2	6	7203	3542	3582	7123	830	1052	1530	1975
MGA_64	1 or 2	6	7203	3542	3582	7123	913	1211	1700	2293
MGA272	2	7	8403	2341	2381	8323	—	—	1580	1926
MGA273	2	7	8403	2341	2381	8323	—	—	1778	2298
MGA274	2	7	8403	2341	2381	8323	—	—	1977	2669
MGA282	2	8	9603	3521	3581	9523	—	—	1796	2192
MGA283	2	8	9603	3521	3581	9523	—	—	2022	2617
MGA284	2	8	9603	3521	3581	9523	—	—	2250	3040
MGB_12	1 or 2	1	1443	—	—	1363	176	205	314	373
MGB_13	1 or 2	1	1443	—	—	1363	192	237	347	437
MGB_14	1 or 2	1	1443	—	—	1363	210	269	382	501
MGB_22	1 or 2	2	2883	—	—	2803	304	363	551	670
MGB_23	1 or 2	2	2883	—	—	2803	339	428	618	796
MGB_24	1 or 2	2	2883	—	—	2803	372	491	686	924
MGB_32	1 or 2	3	4323	—	—	4243	433	522	786	964
MGB_33	1 or 2	3	4323	—	—	4243	484	617	889	1156
MGB_34	1 or 2	3	4323	—	—	4243	535	713	991	1346
MGB_42	1 or 2	4	5763	2822	2862	5683	572	691	1034	1279
MGB_43	1 or 2	4	5763	2822	2862	5683	640	818	1169	1525
MGB_44	1 or 2	4	5763	2822	2862	5683	708	946	1306	1780
MGB_52	1 or 2	5	7203	3542	3582	7123	706	854	1278	1574
MGB_53	1 or 2	5	7203	3542	3582	7123	790	1013	1447	1892
MGB_54	1 or 2	5	7203	3542	3582	7123	876	1172	1617	2210
MGB262	2	6	8643	2821	2880	8563	—	—	1516	1840
MGB263	2	6	8643	2821	2880	8563	—	—	1720	2253
MGB264	2	6	8643	2821	2880	8563	—	—	1924	2635
MGC_12	1 or 2	1	1803	—	—	1723	196	233	350	424
MGC_13	1 or 2	1	1803	—	—	1723	218	274	392	503
MGC_14	1 or 2	1	1803	—	—	1723	239	313	435	583
MGC_22	1 or 2	2	3603	—	—	3523	346	420	622	777
MGC_23	1 or 2	2	3603	—	—	3523	388	499	707	929
MGC_24	1 or 2	2	3603	—	—	3523	431	579	792	1088
MGC_32	1 or 2	3	5403	2642	2682	5323	510	621	921	1134
MGC_33	1 or 2	3	5403	2642	2682	5323	574	740	1038	1372
MGC_34	1 or 2	3	5403	2642	2682	5323	638	860	1166	1611
MGC_42	1 or 2	4	7203	3542	3582	7123	656	804	1177	1473
MGC_43	1 or 2	4	7203	3542	3582	7123	740	962	1346	1791
MGC_44	1 or 2	4	7203	3542	3582	7120	826	1122	1516	2109
MGC252	2	5	9003	3541	3581	8923	—	—	1458	1828
MGC253	2	5	9003	3541	3581	8923	—	—	1669	2225
MGC254	2	5	9003	3541	3581	8923	—	—	1881	2623

Notes: Total unit dry weight is dependent upon the coil material used (AL/AV = Copper tubes with Aluminium or Copper tubes with 2 pack epoxy coated aluminium fns, CU = Copper tubes with Copper fins or Copper fins electro-tinned).



MM - MX Condensers

The MM and MX ranges of fully weather-proofed air cooled condensers feature a new range of coil module sizes to extend the coil surface to air volume ratio and thereby increase the "airvolume efficiency" factor. The MM series has a duty range of 18kW to 596kW and the MX series has a duty range of 22kW to 754kW.

Both ranges are available in flat-bed horizontal and vertical configurations and have the latest innovation of blow-through horizontal design for high temperature applications. The MM range is available in a single width of 1539mm and the MX range is available in a single width of 2301mm, both with module lengths of 1200mm, 1440mm and 1800mm, up to 8 fans and 2 to 4 coil rows.

The full fan set options are available, including the 910mm EC energy efficient fan set, which enables a highly efficient, very low noise complete fan speed-control package. Full details of the EC fan set and ideal application areas can be found in the EC section.

Due to the wide variety of condensers available only a selection of the range is represented in this catalogue. For full selection data either refer to the Selection data tables or use the Searle selection software, either on-line or via the Searle Selection CD.



Fan data table

Fan type & Pole	Diameter	Module	Delta			Star		
			Speed (rpm)	FLC (Amp)	SC (Amp)	Speed (rpm)	FLC (Amp)	SC (Amp)
N504 4 Pole	800mm	A, B, C	895	4.3	14	685	2.5	4
N808 8 Pole		A, B, C	665	2.5	6.2	495	1.3	2.2
N812 12 Pole		A, B, C	450	1.2	2.3	350	0.5	0.8
Q812 12 Pole	910mm	A, B, C	360	0.75	1	255	0.3	0.5
N906 6 Pole		A, B, C	870	5.7	19	650	3.3	1.10
09EC EC Technology		A, B, C	Variable 100 - 855	3.1	4.3			



MM A 1 6 2 H - N8 12 D - AL

Range	MM - MX
Module size	A (1200mm), B (1440mm), C (1800mm)
Bank of fans	1
Fans per bank	1 - 8 (MMA & MXA), 1 - 6 (MMB & MXB), 1-5 (MMC & MXC),
Coils rows	2, 3, 4
Coil Orientation	H = Horizontal, V = Vertical
Fans type	N8 (800mm), Q8 (800mm), O9 (910mm), N9 (910mm), 99 (990mm)
Motor speed (poles)	06, 08, 12, 09EC = (Max 855rpm)
Power	D = Delta, S = Star, 2 = 2 Speed, Variable speed
Coil material	AL = Copper tubes/ Aluminium fns, AV = Copper tubes with 2 pack epoxy coated aluminium fns. CU = Copper tubes/ Copper fns, ET = Copper tubes/ Copper fns electro-tinned, Bg = Copper tube/Aluminium fn Blygold coated

MM - MX Selection data

Model	Delta (High speed)					Star (Low Speed)					Total surface m ²	Internal volume dm ³	R404A Charge kg
	Capacity *	Air volume m ³ /s	Sound level ** dB(A)	Power input W	Energy rating	Capacity *	Air volume m ³ /s	Sound level ** dB(A)	Power input W	Energy rating			
	R404A & R507A					R404A & R507A							
	kW	kW											

910mm 6 Pole

MMA112	53.5	7.08	52	2110	E	46.9	5.55	45	1470	D	80	20	6.3
MMB113	74.1	7.00	52	2130	D	63.1	5.38	45	1490	D	143	31	9.8
MMC114	94.4	7.15	52	2100	D	78.4	5.51	45	1480	C	239	48	15.2
MMA122	107.7	14.16	55	4230	E	94.3	11.10	48	2950	D	159	34	10.7
MMB123	149.5	14.01	55	4260	D	126.7	10.76	48	2980	D	286	56	17.7
MMC124	189.3	14.31	55	4200	C	157.2	11.01	48	2960	C	477	93	29.4
MMB133	223.8	21.01	57	6400	D	190.2	16.15	49	4470	D	429	84	26.5
MMC134	283.8	21.46	57	6300	C	234.1	16.52	49	4440	C	715	136	43.0
MMC143	336.2	29.66	58	8190	D	286.7	23.24	51	5800	C	715	136	43.0
MMC144	379.4	28.62	58	8410	C	314.7	22.03	50	5920	C	954	177	55.9
MMB154	419.6	33.49	59	10990	D	345.2	25.08	51	7610	C	954	184	58.1
MMC154	471.9	35.77	59	10500	D	391.9	27.53	51	7400	C	1192	221	69.8
MMB164	502.9	40.19	60	13140	D	411.8	30.09	52	9120	C	1145	217	68.7
MMA174	521.1	43.39	61	16030	D	421.8	31.77	54	10850	D	1113	212	66.9
MMA184	595.5	49.59	62	18320	D	482.1	36.30	55	12400	D	1272	241	76.3
MXA112	67.6	7.78	52	1960	D	59.2	6.21	46	1400	D	119	26	8.2
MXB113	91.4	7.68	52	1990	C	78.3	6.08	46	1420	C	215	44	13.9
MXC114	112.3	7.75	52	1970	C	95.3	6.15	46	1410	C	358	72	22.8
MXA122	136.1	15.57	55	3930	D	118.5	12.43	49	2810	D	239	50	15.8
MXB123	181.2	15.35	55	3980	C	154.1	12.15	48	2840	C	429	84	26.5
MXC124	223.4	15.49	55	3950	C	188.9	12.30	48	2820	C	715	134	42.3
MXB133	272.0	23.03	57	5980	C	231.3	18.23	50	4260	C	644	121	38.2
MXC134	335.2	23.24	57	5930	C	283.4	18.45	50	4240	C	1073	201	63.5
MXC143	400.3	31.71	58	7740	C	337.4	25.45	51	5560	C	1073	200	63.2
MXC144	451.0	30.99	58	7910	C	382.1	24.60	51	5650	C	1431	263	83.1
MXB154	514.2	37.26	58	10200	C	431.7	29.13	51	7240	C	1431	263	83.1
MXC154	561.7	38.74	59	9850	C	476.4	30.75	52	7050	C	1789	328	103.5
MXB164	614.2	44.71	60	12240	C	515.1	34.96	53	8640	C	1717	314	99.3
MXA174	659.5	50.08	61	14700	D	544.6	38.55	53	10360	C	1669	308	97.5
MXA184	753.7	57.24	62	16800	D	622.4	44.05	54	11840	C	1907	352	111.2

800mm 6 pole

MMA112	47.9	5.85	48	1560	D	42.5	4.78	44	1070	D	80	20	6.3
MMB113	67.4	5.65	48	1580	D	58.8	4.57	44	1070	C	143	31	9.8
MMC114	86.5	5.67	48	1570	C	73.8	4.55	44	1070	C	239	48	15.2
MMA122	96.2	11.70	51	3130	D	85.3	9.55	47	2140	D	159	34	10.7
MMB123	136.5	11.30	51	3160	D	118.1	9.15	46	2150	C	286	56	17.7
MMC124	173.9	11.34	51	3140	C	148.0	9.10	47	2150	C	477	93	29.4
MMB133	204.4	16.95	53	4750	D	177.4	13.72	48	3230	C	429	84	26.5
MMC134	260.2	17.01	53	4710	C	220.3	13.64	48	3220	C	715	136	43.0
MMC143	305.5	23.83	54	6160	C	262.4	19.12	50	4250	C	715	136	43.0
MMC144	348.4	22.69	54	6280	C	296.3	18.19	49	4300	C	954	177	55.9
MMB154	391.4	26.85	55	8090	C	333.6	21.48	49	5470	C	954	184	58.1
MMC154	432.7	28.36	55	7850	C	369.1	22.74	50	5350	C	1192	221	69.8
MMB164	468.4	32.22	56	9660	C	397.9	25.78	50	6540	C	1145	217	68.7
MMA174	493.2	35.55	57	11620	D	420.1	28.3	51	7700	C	1113	212	66.9
MMA184	563.7	40.63	58	13280	D	480.1	32.4	52	8800	C	1272	241	76.3
MXA112	60.3	6.38	48	1580	D	52.0	5.10	44	1040	C	119	26	8.2
MXB113	82.7	6.16	48	1510	C	70.8	4.91	44	1050	C	215	44	13.9
MXC114	102.9	6.12	48	1500	C	86.5	4.85	44	1050	B	358	72	22.8
MXA122	120.8	12.76	51	3160	D	103.9	10.21	47	2090	C	239	50	15.8
MXB123	163.2	12.32	51	3020	C	139.0	9.82	47	2100	C	429	84	26.5
MXC124	204.3	12.25	51	3010	C	171.5	9.70	47	2100	B	715	134	42.3
MXB133	244.8	18.48	53	4540	C	208.6	14.73	48	3150	C	644	121	38.2
MXC134	306.5	18.37	53	4520	C	257.3	14.55	48	3150	B	1073	201	63.5
MXC143	353.0	25.37	54	5940	C	300.4	20.13	49	4170	B	1073	200	63.2
MXC144	412.7	24.49	54	6020	C	346.4	19.40	49	4200	B	1431	263	83.1
MXB154	471.8	29.52	55	7690	C	399.3	23.52	50	5310	B	1431	263	83.1
MXC154	514.3	30.61	55	7500	C	432.5	24.2	50	5250	B	1789	328	103.5
MXB164	563.6	35.43	56	9180	C	476.6	28.2	52	6360	B	1717	314	99.3
MXA174	604.9	39.70	57	10990	C	512.6	31.8	52	7490	C	1669	308	97.5
MXA184	691.3	45.37	58	12560	C	585.8	36.4	53	8560	C	1907	352	111.2

Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m

Model	Delta (High speed)					Star (Low Speed)					Total surface	Internal volume	R404A Charge
	Capacity *	Air volume	Sound level **	Power input	Energy rating	Capacity *	Air volume	Sound level **	Power input	Energy rating			
	R404A & R507A					R404A & R507A							
	kW	m ³ /s	dB(A)	W	kW	m ³ /s	dB(A)	W	m ²	dm ³			

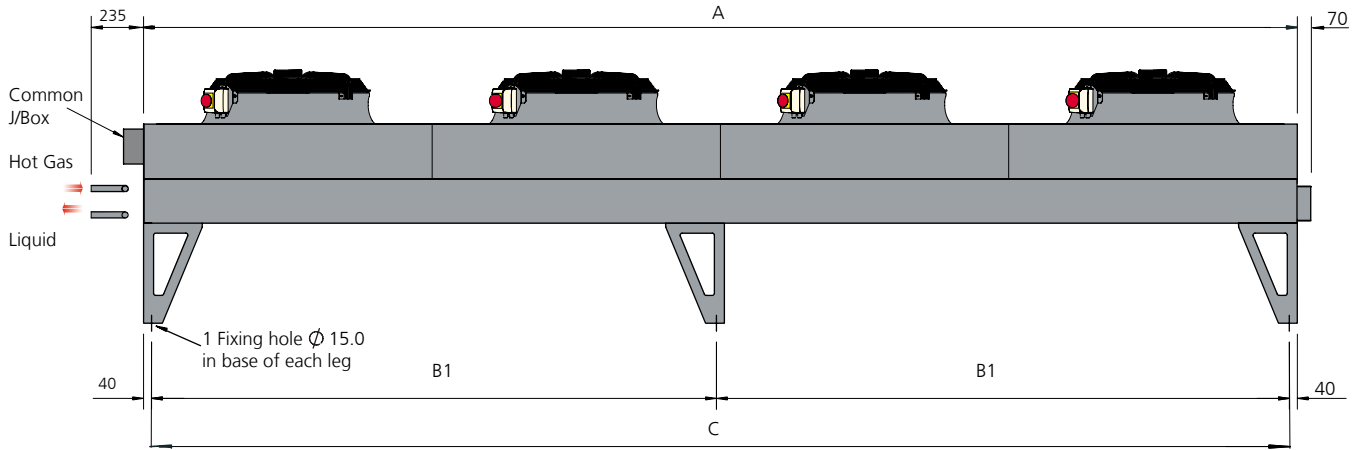
800mm 8 Pole

MMA112	41.3	4.46	41	790	C	35.0	3.40	34	490	B	80	20	6.3
MMB113	56.7	4.32	41	790	B	47.3	3.29	34	500	B	143	31	9.8
MMC114	71.0	4.38	41	790	B	58.1	3.33	34	490	A	239	48	15.2
MMA122	83.0	8.91	44	1580	C	70.2	6.81	37	990	B	159	34	10.7
MMB123	113.6	8.65	44	1590	B	94.6	6.58	37	1000	B	286	56	17.7
MMC124	142.4	8.76	44	1580	B	116.5	6.65	37	990	A	477	93	29.4
MMB133	170.8	12.97	46	2380	B	142.6	9.88	39	1500	B	429	84	26.5
MMC134	211.8	13.15	45	2370	B	173.0	9.98	39	1490	A	715	136	43.0
MMC143	254.5	18.24	46	3130	B	212.8	13.91	40	1960	B	715	136	43.0
MMC144	285.1	17.53	46	3170	B	233.1	13.31	40	1990	A	954	177	55.9
MMB154	318.3	20.44	48	4020	B	262.3	15.61	41	2550	B	954	184	58.1
MMC154	355.2	21.91	47	3950	B	290.7	16.63	41	2450	A	1192	221	69.8
MMB164	379.2	24.53	50	4800	B	312.6	18.73	42	3060	B	1145	217	68.7
MMA174	398.5	26.61	50	5740	C	329.1	20.30	44	3640	B	1113	212	66.9
MMA184	455.4	30.42	51	6560	C	376.1	23.20	45	4160	B	1272	241	76.3
MXA112	50.8	4.80	41	750	C	43.4	3.69	34	470	B	119	26	8.2
MXB113	68.8	4.71	41	760	B	57.1	3.60	34	480	A	215	44	13.9
MXC114	83.8	4.72	41	750	A	68.4	3.62	34	480	A	358	72	22.8
MXA122	101.3	9.60	43	1500	C	86.5	7.39	37	950	B	239	50	15.8
MXB123	135.1	9.41	44	1520	B	112.8	7.20	37	960	A	429	84	26.5
MXC124	167.0	9.44	43	1510	A	135.7	7.23	37	960	A	715	134	42.3
MXB133	202.7	14.12	45	2290	B	169.3	10.81	39	1450	A	644	121	38.2
MXC134	251.0	14.17	45	2270	A	203.6	10.85	39	1440	A	1073	201	63.5
MXC143	292.6	19.35	47	3180	B	245.5	14.91	39	1890	A	1073	200	63.2
MXC144	335.5	18.89	46	3030	A	274.0	14.47	40	1930	A	1431	263	83.1
MXB154	386.0	22.81	47	3900	B	315.1	17.37	41	2450	A	1431	263	83.1
MXC154	419.1	23.61	47	3750	A	342.2	18.09	41	2400	A	1789	328	103.5
MXB164	460.5	27.37	49	4680	B	377.8	20.84	42	2940	A	1717	314	99.3
MXA174	496.2	30.68	50	5530	B	406.4	23.29	43	3430	A	1669	308	97.5
MXA184	567.0	35.06	51	6320	B	464.4	26.61	44	3920	A	1907	352	111.2

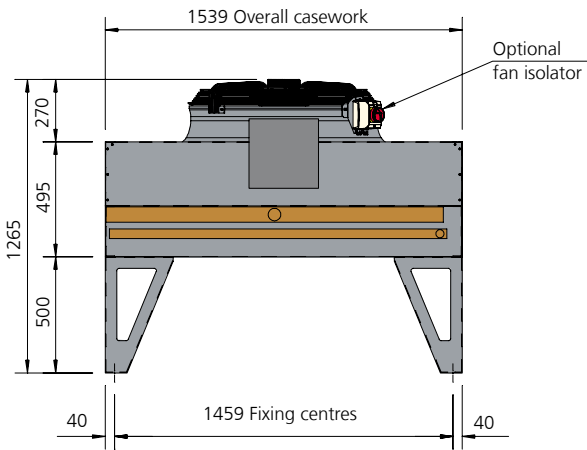
800mm 12 pole

MMA112	30.2	2.81	29	300	B	27.0	2.27	23	170	A	80	20	6.3
MMB113	40.2	2.70	29	300	A	35.1	2.15	23	170	A	143	31	9.8
MMC114	48.5	2.72	29	300	A	41.1	2.10	23	170	A	239	48	15.2
MMA122	60.7	5.62	32	610	B	54.3	4.54	26	340	A	159	34	10.7
MMB123	80.7	5.41	32	600	A	70.4	4.29	26	340	A	286	56	17.7
MMC124	97.2	5.43	32	610	A	82.3	4.20	26	340	A	477	93	29.4
MMB133	121.2	8.11	34	900	A	105.7	6.44	28	520	A	429	84	26.5
MMC134	146.1	8.15	34	910	A	123.3	6.30	28	520	A	715	136	43.0
MMC143	181.0	11.49	35	1210	A	155.8	9.04	29	680	A	715	136	43.0
MMC144	194.7	10.86	34	1220	A	164.8	8.41	29	690	A	954	177	55.9
MMB154	217.7	12.64	36	1550	A	186.5	9.88	30	880	A	954	184	58.1
MMC154	242.6	13.58	36	1500	A	205.4	10.51	30	850	A	1192	221	69.8
MMB164	261.3	15.17	37	1860	A	223.4	11.85	31	1020	A	1145	217	68.7
MMA174	276.6	16.59	38	2170	A	236.7	12.88	32	1260	A	1113	212	66.9
MMA184	276.6	16.59	39	2480	A	270.5	14.72	33	1440	A	1272	241	76.3
MXA112	37.5	3.04	29	300	A	33.4	2.45	23	160	A	119	26	8.2
MXB113	48.7	2.96	29	300	A	42.0	2.33	23	160	A	215	44	13.9
MXC114	56.3	2.92	29	300	A	47.4	2.28	23	160	A	358	72	22.8
MXA122	75.3	6.07	32	600	A	67.1	4.89	26	330	A	239	50	15.8
MXB123	97.9	5.92	32	600	A	84.3	4.67	26	330	A	429	84	26.5
MXC124	114.0	5.85	32	600	A	94.5	4.56	26	330	A	715	134	42.3
MXB133	145.9	8.88	34	900	A	125.5	7.00	28	500	A	644	121	38.2
MXC134	170.3	8.77	34	900	A	142.0	6.84	28	500	A	1073	201	63.5
MXC143	212.2	12.16	34	1200	A	181.1	9.58	29	660	A	1073	200	63.2
MXC144	225.7	11.69	35	1210	A	189.9	9.12	29	670	A	1431	263	83.1
MXB154	261.8	14.11	35	1520	A	221.0	10.95	30	850	A	1431	263	83.1
MXC154	281.3	14.62	36	1500	A	237.1	11.41	30	800	A	1789	328	103.5
MXB164	313.2	16.93	36	1800	A	263.1	13.14	31	1020	A	1717	314	99.3
MXA174	339.3	19.01	37	2100	A	287.0	14.71	32	1190	A	1669	308	97.5
MXA184	387.7	21.73	38	2400	A	328.0	16.81	33	1360	A	1907	352	111.2

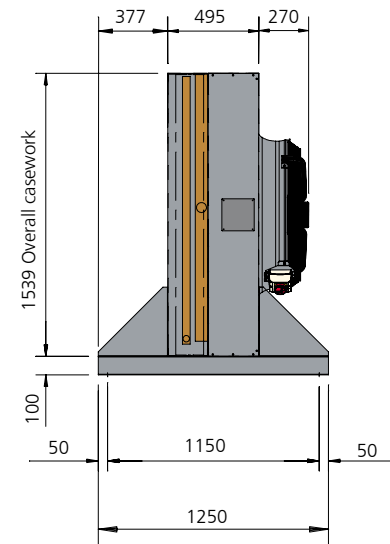
Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m



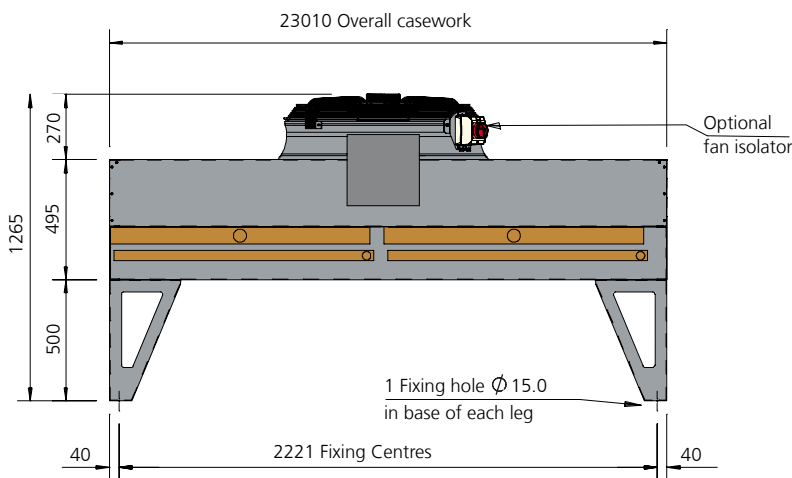
MM Horizontal Unit



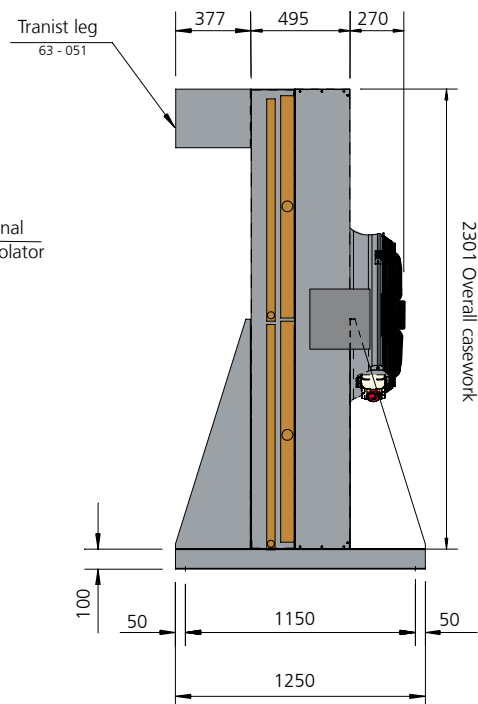
MM Vertical Unit



MX Horizontal Unit



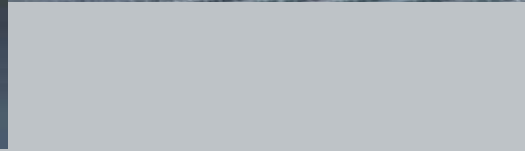
MX Vertical Unit



Notes: All dimensions in mm. Common junction box will vary in size and position depending on the control option required.

Model MM/MX	Fan per bank	A	B1	B2	C	MM		MX	
						Dry weight		Dry weight	
						AL	CU	AL	CU
		mm	mm	mm	mm	kg	kg	kg	kg
M_A112	1	1203	—	—	1123	212	244	249	299
M_A113	1	1203	—	—	1123	237	287	278	352
M_A114	1	1203	—	—	1123	261	330	306	405
M_A122	2	2403	—	—	2323	348	414	413	512
M_A123	2	2403	—	—	2323	396	500	470	618
M_A124	2	2403	—	—	2323	444	589	527	725
M_A132	3	3603	—	—	3523	482	583	576	724
M_A133	3	3603	—	—	3523	553	711	661	883
M_A134	3	3603	—	—	3523	623	839	745	1042
M_A142	4	4803	2342	2382	4723	636	768	748	946
M_A143	4	4803	2342	2382	4723	732	939	861	11158
M_A144	4	4803	2342	2382	4723	828	1111	975	1370
M_A152	5	6003	2942	2982	5923	778	942	918	1165
M_A153	5	6003	2942	2982	5923	898	1157	1060	1431
M_A154	5	6003	2942	2982	5923	1017	1370	1201	1695
M_A162	6	7203	3542	3582	7123	909	1107	1073	1370
M_A163	6	7203	3542	3582	7123	1054	1364	1244	1689
M_A164	6	7203	3542	3582	7123	1197	1621	1414	2007
M_A172	7	8403	2341	2381	8323	1053	1284	1243	1589
M_A173	7	8403	2341	2381	8323	1222	1585	1442	1962
M_A174	7	8403	2341	2381	8323	1389	1884	1640	2332
M_A182	8	9603	3541	3581	9523	1194	1458	1409	1805
M_A183	8	9603	3541	3581	9523	1387	1802	1636	2230
M_A184	8	9603	3541	3581	9523	1578	2143	1863	2653
M_B112	1	1443	—	—	1363	249	285	278	337
M_B113	1	1443	—	—	1363	278	339	311	401
M_B114	1	1443	—	—	1363	309	392	346	465
M_B122	2	2883	—	—	2803	400	459	465	584
M_B123	2	2883	—	—	2803	457	557	532	710
M_B124	2	2883	—	—	2803	516	657	600	838
M_B132	3	4323	—	—	4243	549	629	650	828
M_B133	3	4323	—	—	4243	635	775	753	1020
M_B134	3	4323	—	—	4243	720	919	954	1210
M_B142	4	5763	2822	2862	5683	711	816	848	1093
M_B143	4	5763	2822	2862	5683	823	999	983	1329
M_B144	4	5763	2822	2862	5683	938	1189	1120	1594
M_B152	5	7203	3542	3582	7123	869	998	1042	1338
M_B153	5	7203	3542	3582	7123	1009	1234	1211	1656
M_B154	5	7203	3542	3582	7123	1151	1471	1381	1974
M_B162	6	8643	2821	2880	8563	1021	1172	1230	1606
M_B163	6	8643	2821	2880	8563	1189	1723	1434	1967
M_B164	6	8643	2821	2880	8563	1358	2056	1638	2349
M_C112	1	1803	—	—	1723	273	312	314	388
M_C113	1	1803	—	—	1723	309	376	356	467
M_C114	1	1803	—	—	1723	346	440	399	547
M_C122	2	3603	—	—	3523	439	504	536	684
M_C123	2	3603	—	—	3523	508	620	621	843
M_C124	2	3603	—	—	3523	578	737	706	1002
M_C132	3	5403	2642	2682	5323	602	691	776	998
M_C133	3	5403	2642	2682	5323	700	856	902	1236
M_C134	3	5403	2642	2682	5323	799	1021	1030	1475
M_C142	4	7203	3542	3582	7123	781	896	991	1287
M_C143	4	7203	3542	3582	7123	914	1117	1160	1605
M_C144	4	7203	3542	3582	7123	1047	1338	1330	1923
M_C152	5	9003	3541	1840	8923	955	1097	1222	1592
M_C153	5	9003	3541	1840	8923	1119	1370	1433	1989
M_C154	5	9003	3541	1840	8923	1285	1643	1645	2387

Notes: Total unit dry weight is dependent upon the coil material used (AL/AV = Copper tubes with Aluminium or Copper tubes with 2 pack epoxy coated aluminium fns, CU = Copper tubes with Copper fins or Copper fins electro-tinned).





MV Condensers

The MV range extends the versatility of Searle's Air cooled condensers into a V-Bank configuration with a combination of 3 coil widths and 3 module lengths, 2 fans wide. The available range has a duty from 36kW to 1088kW.

GEA Searle achieves a close specification match by offering three module length options of 1200mm, 1440mm or 1800mm across three coil width options in the small footprint V-Bank formation. The MV...M has 2 x 1524mm high coils and the MV...L has 2 x 1905mm high coils with 2 fans wide, both sizes offer the choice of 2 to 8 fans in length. Combined with coil sizes from 2 to 4 row coils and multiple standard fan options up to 910mm, this range of V configuration units is comprehensive.

GEA Searle offers an EC fan, a highly efficient and very low noise complete control package. Full details of the EC fan and the best-suited application areas are included within this catalogue. Due to the large number of options only a selection of the range is available in this catalogue, selection is best achieved using the condenser data tables or the Searle selection software, either on-line at www.searle.co.uk or via the Searle Selection CD.

Fan data table

Fan type & Pole	Diameter	Module	Delta			Star		
			Speed (rpm)	FLC (Amp)	SC (Amp)	Speed (rpm)	FLC (Amp)	SC (Amp)
N504 4 Pole	800mm	A,B,C	895	4.3	14	685	2.5	4
N808 8 Pole		A,B,C	665	2.5	6.2	495	1.3	2.2
N812 12 Pole		A,B,C	450	1.2	2.3	350	0.5	0.8
Q812 12 Pole	910mm	A,B,C	360	0.75	1	255	0.3	0.5
N906 6 Pole		A,B,C	870	5.7	19	650	3.3	1.10
09EC EC Technology		A,B,C	Variable 100 - 855	3.1	4.3			



MV A 2 6 2 M - N8 12 D - AL

Range	MV
Module size	A (1200mm), B (1440mm), C (1800mm)
Bank of fans	2
Fans per bank	1 - 8
Coils rows	2, 3, 4
Coil Orientation	M = Medium, L = Large
Fans type	N8 (800mm), Q8 (800mm), 09 (910mm), N9 (910mm), 99 (990mm), L9 (990mm)
Motor speed (poles)	06, 08, 12, or EC
Power	D = Delta, S = Star, 2 = 2 Speed, Variable speed
Coil material	AL = Copper tubes/ Aluminium fns, AV = Copper tubes with 2 pack epoxy coated aluminium fns. CU = Copper tubes/ Copper fns, ET = Copper tubes/ Copper fns electro-tinned, Bg = Copper tube/Aluminium fn Blygold coated

MV Selection data

Model	Delta (High speed)					Star (Low Speed)					Total surface m ²	Internal volume dm ³	R404A Charge kg
	Capacity *	Air volume	Sound level **	Power input	Energy rating	Capacity *	Air volume	Sound level **	Power input	Energy rating			
	R404A & R507A					R404A & R507A							
	kW	m ³ /s	dB(A)	W	kW	m ³ /s	dB(A)	W					

910mm 6 pole

MVA212M	104.3	14.02	58	4230	E	91.5	10.9	51	2950	D	159	39	12.3
MVC212M	132.5	15.42	58	3930	D	115.9	12.3	52	2810	D	239	53	16.7
MVB214M	177.6	13.27	58	4390	D	144.8	9.93	51	3040	C	382	79	25.0
MVA222M	209.8	28.05	61	8470	E	183.9	21.98	55	5900	D	318	68	21.5
MVC222M	266.1	30.83	61	7870	D	232.6	24.62	54	5630	D	477	95	30.0
MVA224M	317.5	24.55	61	9160	D	255.6	17.97	54	6200	D	636	128	40.4
MVB232M	351.4	44.28	63	12240	E	308.6	34.99	56	7210	D	572	118	37.3
MVA233M	412.2	39.17	63	13320	D	346.0	29.43	55	9150	D	715	144	45.5
MVB233M	458.0	41.62	63	12800	D	388.8	31.98	55	8950	D	858	168	53.1
MVB234M	534.2	39.80	63	13180	D	436.2	29.80	55	9130	C	1145	219	69.2
MVC234M	600.4	42.52	62	12610	C	493.3	32.72	55	8880	C	1431	261	82.5
MVC243M	687.5	58.75	63	16390	D	585.5	46.02	56	11600	C	1431	272	86.0
MVB244M	714.3	53.07	63	17580	D	581.3	39.73	56	12170	C	1526	285	90.1
MVB254M	886.9	66.34	64	21980	D	726.9	49.66	57	15220	C	1908	350	110.6
MVA264M	949.5	73.66	66	27480	D	771.8	53.93	58	18600	D	1908	350	110.6
MVA212L	117.9	14.90	58	4050	E	104.7	11.80	51	2860	D	199	49	15.5
MVB213L	170.9	14.69	58	4090	D	145.8	11.50	51	2900	C	358	77	24.3
MVC214L	219.2	14.88	58	4050	C	183.8	11.66	51	2880	C	596	121	38.2
MVB222L	265.6	30.83	61	7870	D	232.6	24.62	54	5630	D	477	98	31.0
MVA223L	312.6	28.09	60	8460	D	265.1	21.64	52	5930	D	596	125	39.5
MVB224L	398.6	28.34	61	8410	C	329.8	21.81	53	5920	C	954	191	60.4
MVA233L	471.1	42.14	63	12690	D	397.7	32.47	55	8900	D	894	180	56.9
MVA234L	546.5	40.32	63	13080	D	446.3	30.43	55	9090	C	1192	224	70.8
MVC233L	573.3	45.92	63	11890	C	489.1	36.43	56	8490	C	1341	249	78.7
MVA243L	627.3	56.18	63	16930	D	528.8	43.29	56	11870	D	1192	227	71.7
MVB243L	692.3	58.75	63	16390	D	586.5	46.02	56	11600	C	1431	272	86.0
MVC243L	762.0	61.23	63	15850	C	654.5	48.57	57	11330	C	1788	334	105.5
MVC244L	881.1	59.53	63	16230	C	737.6	46.66	56	11530	C	2385	438	138.4
MVB254L	999.7	70.86	64	21030	C	826.3	54.53	57	14800	C	2385	438	138.4
MVA264L	1088.52	80.63	65	26160	D	895.6	60.86	58	18190	C	2385	438	138.4

800mm 6 pole

MVA212M	95.7	12.1	54	3130	D	84.9	9.65	50	2140	D	159	39	12.3
MVC212M	120.9	13.10	54	3160	D	104.3	10.32	49	2092	C	239	53	16.7
MVB214M	159.3	11.32	54	3230	C	135.3	9.01	48	2180	C	382	79	25.0
MVA222M	192.4	24.02	57	6270	D	170.6	19.30	53	4280	D	318	68	21.5
MVC222M	242.7	26.20	57	6320	D	209.1	20.63	53	4180	C	477	95	30.0
MVA224M	288.3	21.42	57	6650	D	245.4	16.97	51	4410	C	636	128	40.4
MVB232M	321.2	37.75	59	7670	D	282.1	29.99	55	5290	C	572	118	37.3
MVA233M	373.7	33.64	59	9750	D	284.2	22.05	53	6570	D	715	144	45.5
MVB233M	412.9	35.35	59	9500	D	358.4	28.32	54	64.70	C	858	168	53.1
MVB234M	480.1	33.97	59	9710	C	408.3	27.03	53	6560	C	1145	219	69.2
MVC234M	530.9	35.88	59	9420	C	449.5	28.62	54	6450	C	1431	261	82.5
MVC243M	617.1	49.72	59	12330	C	530.1	39.46	55	8500	C	1431	272	86.0
MVB244M	640.1	45.29	60	12950	C	543.1	36.04	54	8750	C	1526	285	90.1
MVB254M	798.8	56.62	61	16180	C	680.9	45.05	55	10940	C	1908	350	110.6
MVA264M	866.5	64.25	62	19970	D	743.6	50.92	55	13250	C	1908	350	110.6
MVA212L	107.4	12.68	54	3050	D	95.3	10.06	50	2110	C	199	49	15.5
MVB213L	152.2	12.43	54	3080	C	131.9	9.86	50	2120	C	358	77	24.3
MVC214L	195.1	12.54	54	3060	C	165.2	9.93	50	2120	B	596	121	38.2
MVB222L	242.4	26.20	57	6000	D	209.2	20.63	52	4180	C	477	98	31.0
MVA223L	281.5	23.81	56	6300	D	243.1	19.05	51	4300	C	596	125	39.5
MVB224L	354.6	23.92	57	6280	C	301.8	19.08	52	4300	B	954	191	60.4
MVA233L	422.5	35.72	59	9450	D	364.3	28.58	54	6450	C	894	180	56.9
MVA234L	489.0	34.36	59	9650	C	414.1	27.37	53	6540	C	1192	224	70.8
MVC233L	511.0	38.79	59	9050	C	435.4	30.58	54	6300	C	1341	249	78.7
MVA243L	562.2	47.62	60	12600	D	483.7	38.11	55	8610	C	1192	227	71.7
MVB243L	618.8	49.72	59	12330	C	529.4	39.46	55	8500	C	1431	272	86.0
MVC243L	683.0	51.72	59	12070	C	585.1	40.77	55	8400	C	1788	334	105.5
MVC244L	783.5	50.17	59	12260	C	662.6	39.73	55	8480	B	2385	438	138.4
MVB254L	888.7	59.80	60	15710	C	755.9	47.70	56	10750	B	2385	438	138.4
MVA264L	979.2	68.72	61	19310	C	833.8	54.73	56	13090	C	2385	438	138.4

Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m

Model	Delta (High speed)					Star (Low Speed)					Total surface m ²	Internal volume dm ³	R404A Charge kg
	Capacity *	Air volume	Sound level **	Power input	Energy rating	Capacity *	Air volume	Sound level **	Power input	Energy rating			
	R404A & R507A					R404A & R507A							
	kW	m ³ /s	dB(A)	W	kW	m ³ /s	dB(A)	W					

800mm 8 pole

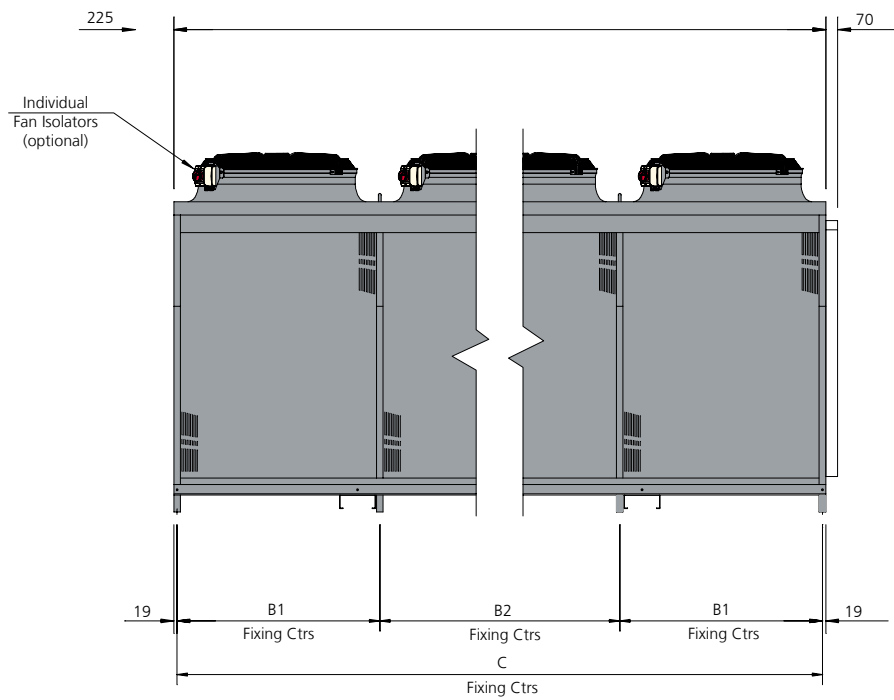
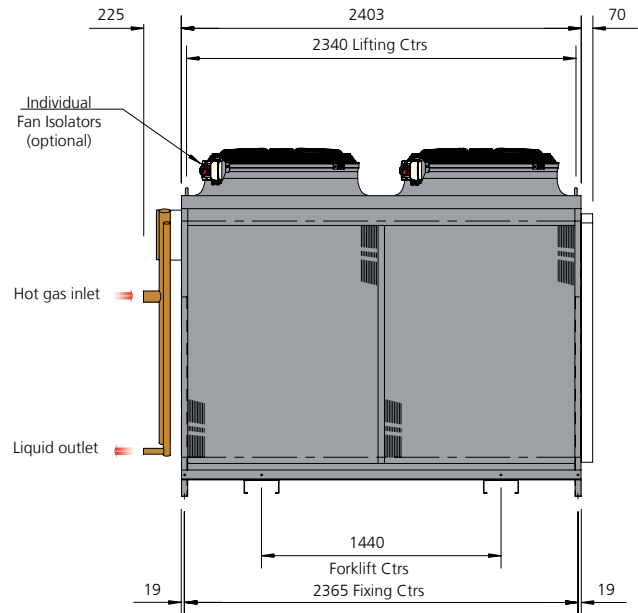
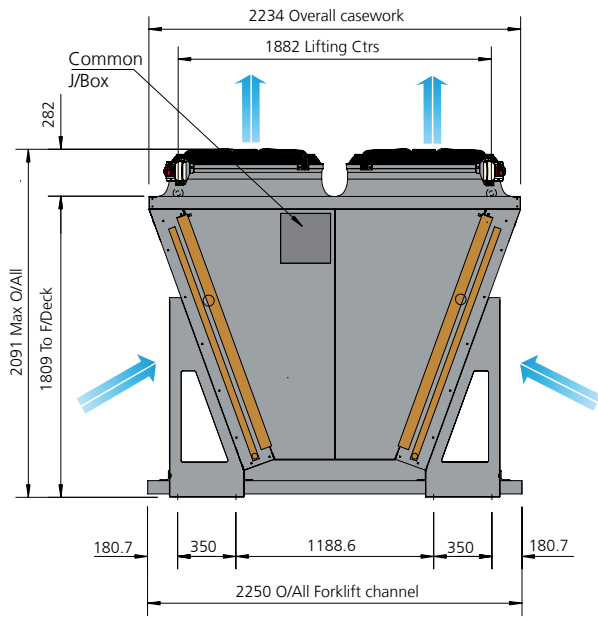
MVA212M	82.7	9.20	47	1580	C	70.0	7.03	40	990	B	159	39	12.3
MVC212M	101.8	9.90	46	1500	C	87.3	7.62	40	950	B	239	53	16.7
MVB214M	129.0	8.44	48	1600	B	106.3	6.44	41	1020	B	382	79	25.0
MVA222M	166.0	18.40	50	3160	C	140.3	14.05	43	1980	B	318	68	21.5
MVC222M	204.0	19.81	49	3010	C	174.3	15.24	43	1910	B	477	95	30
MVA224M	231.5	15.69	51	3310	C	189.8	11.97	44	2080	B	636	128	40.4
MVB232M	274.5	28.68	51	3870	B	234.2	21.96	45	2440	B	572	118	37.3
MVA233M	311.3	25.16	53	4830	C	259.4	19.26	45	3070	B	715	144	45.5
MVB233M	345.1	26.78	52	4770	B	288.0	20.38	45	3000	B	858	168	53.1
MVB234M	389.2	25.31	53	4820	B	320.0	19.33	45	3060	B	1145	219	69.2
MVC234M	432.3	27.13	52	4750	B	353.0	20.60	45	2990	A	1431	261	82.5
MVC243M	514.1	37.64	52	6260	B	430.0	28.71	45	3930	B	1431	272	86.0
MVB244M	517.4	33.75	54	6430	B	424.9	25.77	46	4080	B	1526	285	90.1
MVB254M	649.5	42.19	54	8040	B	535.2	32.21	47	5110	B	1908	350	110.6
MVA264M	702.9	47.08	55	9950	B	578.8	35.91	48	6240	B	1908	350	110.6
MVA212L	92.9	9.63	47	1540	C	79.3	7.38	40	970	B	199	49	15.5
MVB213L	127.9	9.41	47	1560	B	107.0	7.18	40	980	B	358	77	24.3
MVC214L	159.6	9.48	47	1550	B	131.4	7.23	40	970	A	596	121	38.2
MVB222L	204.2	19.81	49	3010	C	174.8	15.24	43	1910	B	477	98	31.0
MVA223L	234.7	18.08	49	3170	B	195.5	13.75	42	1990	B	596	125	39.5
MVA224L	264.3	17.11	50	3200	B	216.9	13.05	42	2030	B	795	164	51.8
MVA233L	351.4	27.12	52	4760	B	292.0	20.62	45	2990	B	894	180	56.9
MVA234L	395.0	25.66	53	4810	B	324.1	19.58	45	3050	B	1192	224	70.8
MVC233L	423.1	29.31	51	4560	B	352.9	22.46	44	2890	A	1341	249	78.7
MVA243L	466.4	36.16	53	6340	B	387.3	27.49	46	3980	B	1192	227	71.7
MVB243L	513.0	37.64	52	6260	B	427.2	28.71	45	3930	B	1431	272	86.0
MVC243L	568.9	39.08	52	6080	B	475.9	29.95	45	3860	A	1788	334	105.5
MVC244L	640.1	37.92	52	6220	B	523.9	28.93	45	3910	A	2385	438	138.4
MVB254L	727.3	45.22	54	7930	B	594.6	34.33	46	4980	A	2385	438	138.4
MVA264L	796.2	51.32	55	9620	B	655.4	39.16	48	6100	B	2385	438	138.4

800mm 12 pole

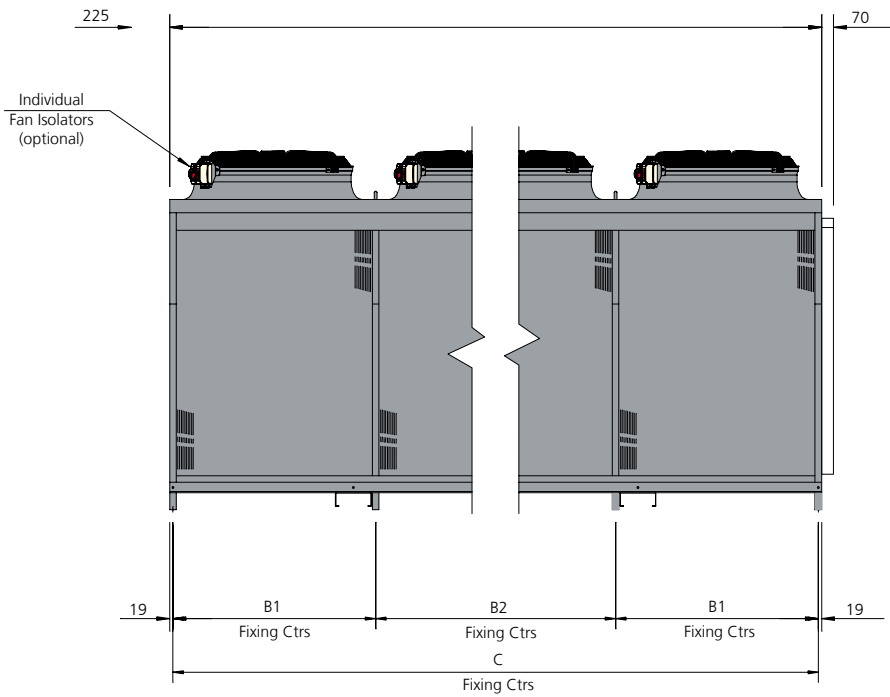
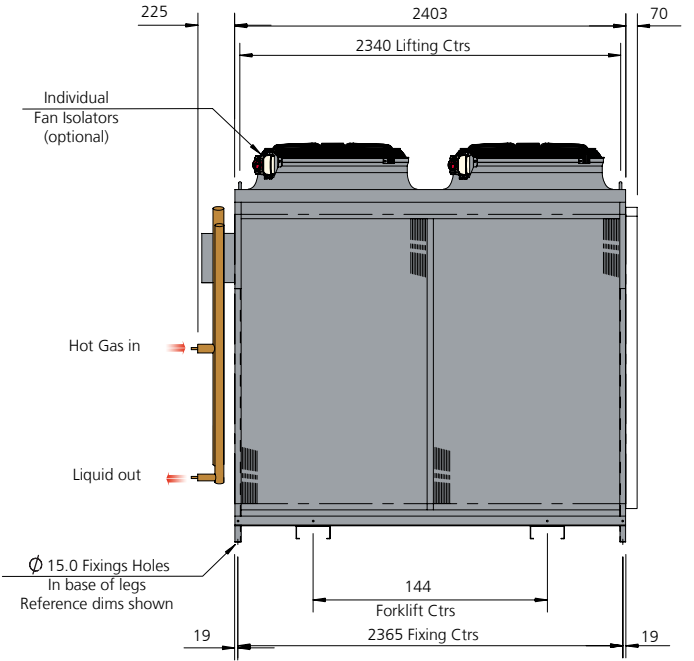
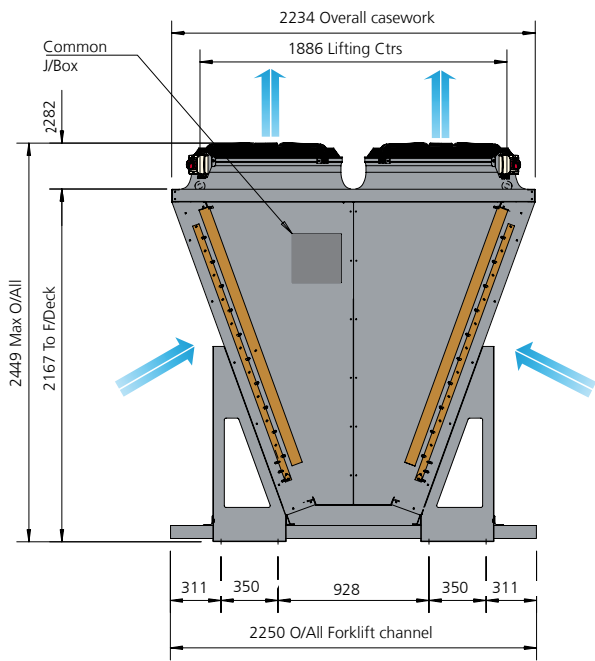
MVA212M	60.0	5.56	35	610	B	54.0	4.54	29	340	A	159	39	12.3
MVC212M	75.2	6.01	35	600	A	67.0	4.89	29	330	A	239	53	16.7
MVB214M	88.0	5.06	35	620	A	76.0	4.12	29	350	A	382	79	25.0
MVA222M	121.4	11.12	38	1220	B	108.5	9.07	32	680	A	318	68	21.5
MVC222M	150.8	12.02	38	1200	A	134.3	9.79	32	660	A	477	95	30.0
MVA224M	160.0	9.48	38	1270	A	138.2	7.67	32	740	A	636	128	40.4
MVB232M	201.8	17.38	40	1510	A	180.4	14.23	34	840	A	572	118	37.3
MVA233M	219.8	15.17	40	1860	A	192.7	12.35	34	1060	A	715	144	45.5
MVB233M	242.4	16.06	39	1840	A	213.5	13.15	34	1040	A	858	168	53.1
MVB234M	264.9	15.17	40	1860	A	228.5	12.36	34	1060	A	1145	219	69.2
MVC234M	295.1	16.29	39	1830	A	251.6	13.15	34	1040	A	1431	261	82.5
MVB244M	353.3	20.22	41	2480	A	304.7	16.47	35	1420	A	1526	285	90.1
MVC243M	361.9	22.74	40	2430	A	314.8	18.46	34	1360	A	1431	272	86.0
MVB254M	439.7	25.28	42	3100	A	380.6	20.59	35	1770	A	1908	350	111.0
MVA264M	477.8	28.44	43	3810	A	413.7	23.02	36	2230	A	1908	350	111.0
MVA212L	68.3	5.83	35	600	A	61.2	4.78	29	330	A	199	49	15.5
MVB213L	90.2	5.69	35	600	A	78.5	4.61	29	340	A	358	77	24.3
MVC214L	107.1	5.69	35	600	A	92.8	4.61	29	340	A	596	121	38.2
MVB222L	150.7	12.02	38	1200	A	134.2	9.79	32	660	A	477	98	31.0
MVA223L	165.0	10.84	37	1220	A	144.8	8.87	31	690	A	596	125	40.0
MVB224L	196.7	10.86	37	1220	A	167.8	8.76	32	690	A	954	191	60.4
MVA233L	247.3	16.26	39	1830	A	217.8	13.30	34	1030	A	894	180	57.0
MVA234L	270.3	15.38	40	1850	A	232.9	12.51	34	1050	A	1192	224	70.8
MVC233L	298.2	17.68	40	1810	A	258.6	14.36	34	1010	A	1341	249	79.0
MVA243L	330.5	21.67	40	2450	A	290.0	17.73	35	1380	A	1192	227	72.0
MVB243L	362.5	22.74	40	2430	A	315.9	18.46	34	1360	A	1431	272	86.0
MVC243L	396.9	23.57	40	2420	A	344.1	19.15	34	1340	A	1788	334	106.0
MVC244L	429.4	22.75	40	2430	A	371.4	18.42	34	1360	A	2385	438	138.4
MVB254L	491.6	27.16	41	3060	A	420.4	21.91	35	1730	A	2385	438	138.4
MVA264L	541.1	30.76	42	3700	A	465.8	25.03	36	2110	A	2385	438	138.4

Note: * Capacity quoted at 15 K DT1 Dew Point, ** Sound level quoted as mean pressure level at 10m

MV (M)



MV (L)



Model	Size	No of fans	A Casework overall	B1	B2	C	Approx dry weight		
			mm	mm	mm	mm	AL/AV	CU/ET	
							kg	kg	
MVA	222	M	4	2403	N/A	N/A	2365	720	866
MVA	223	M	4	2403	N/A	N/A	2365	788	1008
MVA	224	M	4	2403	N/A	N/A	2365	857	1149
MVA	232	M	6	3603	1183	1200	3565	1087	1306
MVA	233	M	6	3603	1183	1200	3565	1189	1518
MVA	234	M	6	3603	1183	1200	3565	1292	1731
MVA	242	M	8	4803	1183	2400	4765	1449	1741
MVA	243	M	8	4803	1183	2400	4765	1585	2024
MVA	244	M	8	4803	1183	2400	4765	1722	2307
MVA	252	M	10	6003	2383	1200	5965	1811	2177
MVA	253	M	10	6003	2383	1200	5965	1981	2530
MVA	254	M	10	6003	2383	1200	5965	2152	2884
MVA	262	M	12	7203	2383	2400	7165	2173	2612
MVA	263	M	12	7203	2383	2400	7165	2377	3036
MVA	264	M	12	7203	2383	2400	7165	2535	3460
MVA	272	M	14	8403	2382	2400	8365	2535	3048
MVA	273	M	14	8403	2382	2400	8365	2774	3542
MVA	274	M	14	8403	2382	2400	8365	3013	4037
MVA	232	M	16	9603	2382	3400	9565	2898	3483
MVA	233	M	16	9603	2382	3400	9565	3170	4049
MVA	234	M	16	9603	2382	3400	9565	3443	4614
MVB	222	M	4	2883	N/A	N/A	2845	830	1005
MVB	223	M	4	2883	N/A	N/A	2845	912	1175
MVB	224	M	4	2883	N/A	N/A	2845	994	1345
MVB	232	M	6	4323	1422	1440	4285	1244	1508
MVB	233	M	6	4323	1422	1440	4285	1367	1762
MVB	234	M	6	4323	1422	1440	4285	1490	2017
MVB	242	M	8	5763	1422	2880	5725	1659	2010
MVB	243	M	8	5763	1422	2880	5725	1823	2350
MVB	244	M	8	5763	1422	2880	5725	1986	2689
MVB	252	M	10	7203	2862	1400	7165	2073	2512
MVB	253	M	10	7203	2862	1400	7165	2277	2936
MVB	254	M	10	7203	2862	1400	7165	2482	3360
MVB	262	M	12	8640	2862	2720	8602	2487	3015
MVB	263	M	12	8640	2862	2720	8602	2733	3523
MVB	264	M	12	8640	2862	2720	8602	2978	4032
MVC	222	M	4	3603	1782	N/A	3565	987	1206
MVC	223	M	4	3603	1782	N/A	3565	1089	1418
MVC	224	M	4	3603	1782	N/A	3565	1192	1631
MVC	232	M	6	5403	1782	1800	5365	1480	1809
MVC	233	M	6	5403	1782	1800	5365	1633	2127
MVC	234	M	6	5403	1782	1800	5365	1787	2445
MVC	242	M	8	7203	1782	3600	7165	1973	2412
MVC	243	M	8	7203	1782	3600	7165	2177	2836
MVC	244	M	8	7203	1782	3600	7165	2382	3260
MVC	252	M	10	9003	3565	1840	8965	2466	3015
MVC	253	M	10	9003	3565	1840	8965	3545	4721
MVC	254	M	10	9003	3565	1840	8965	2977	4075

Notes: Total unit dry weight is dependent upon the coil material used (AL = Copper tubes with Aluminium or Vinyl coated aluminium fins, CU = Copper tubes with Copper fins or Copper fins electro-tinned).

Model	Size	No of fans	A	B1	B2	C	Approx dry weight		
			Casework overall				AL/AV	CU/ET	
			mm	mm	mm	mm	kg	kg	
MVA	222	L	4	2403	N/A	N/A	2365	850	1033
MVA	223	L	4	2403	N/A	N/A	2365	935	1210
MVA	224	L	4	2403	N/A	N/A	2365	1021	1387
MVA	232	L	6	3603	1183	1200	3565	1282	1556
MVA	233	L	6	3603	1183	1200	3565	1410	1822
MVA	234	L	6	3603	1183	1200	3565	1538	2087
MVA	242	L	8	4803	1183	2400	4765	1709	2075
MVA	243	L	8	4803	1183	2400	4765	2428	1880
MVA	244	L	8	4803	1183	2400	4765	2050	2782
MVA	252	L	10	6003	2383	1200	5965	2136	2593
MVA	253	L	10	6003	2383	1200	5965	3035	2349
MVA	254	L	10	6003	2383	1200	5965	3477	2562
MVA	262	L	12	7203	2383	2400	7165	2563	3112
MVA	263	L	12	7203	2383	2400	7165	3642	2819
MVA	264	L	12	7203	2383	2400	7165	4172	3074
MVA	272	L	14	8403	2382	2400	8365	2991	3631
MVA	273	L	14	8403	2382	2400	8365	2390	4250
MVA	274	L	14	8403	2382	2400	8365	3587	4868
MVA	232	L	16	9603	2382	3400	9565	3418	4150
MVA	233	L	16	9603	2382	3400	9565	3760	4857
MVA	234	L	16	9603	2382	3400	9565	4100	5563
MVB	222	L	4	2883	N/A	N/A	2845	987	1206
MVB	223	L	4	2883	N/A	N/A	2845	1090	1419
MVB	224	L	4	2883	N/A	N/A	2845	1192	1631
MVB	232	L	6	4323	1422	1440	4285	1480	1803
MVB	233	L	6	4323	1422	1440	4285	1634	2127
MVB	234	L	6	4323	1422	1440	4285	1787	2446
MVB	242	L	8	5763	1422	2880	5725	1973	2412
MVB	243	L	8	5763	1422	2880	5725	2178	2836
MVB	244	L	8	5763	1422	2880	5725	2382	3260
MVB	252	L	10	7203	2862	1400	7165	2463	3012
MVB	253	L	10	7203	2862	1400	7165	2719	3542
MVB	254	L	10	7203	2862	1400	7165	2974	4072
MVB	262	L	12	8640	2862	2720	8602	2947	3606
MVB	263	L	12	8640	2862	2720	8602	3253	4242
MVB	264	L	12	8640	2862	2720	8602	3560	4878
MVC	222	L	4	3603	1782	N/A	3565	1182	1456
MVC	223	L	4	3603	1782	N/A	3565	1310	1722
MVC	224	L	4	3603	1782	N/A	3565	1438	1987
MVC	232	L	6	5403	1782	1800	5365	1772	2184
MVC	233	L	6	5403	1782	1800	5365	1964	2582
MVC	234	L	6	5403	1782	1800	5365	2156	2980
MVC	242	L	8	7203	1782	3600	7165	2327	2876
MVC	243	L	8	7203	1782	3600	7165	2619	3442
MVC	244	L	8	7203	1782	3600	7165	2874	3972
MVC	252	L	10	9003	3565	1840	8965	2917	3604
MVC	253	L	10	9003	3565	1840	8965	3273	4302
MVC	254	L	10	9003	3565	1840	8965	3593	4965

Notes: Total unit dry weight is dependent upon the coil material used (AL/AV = Copper tubes with Aluminium or Copper tubes with 2 pack epoxy coated aluminium fns, CU = Copper tubes with Copper fins or Copper fins electro-tinned).

Engineered efficiency - no matter where or what



GEA Searle Ltd

20 Davis Way, Newgate Lane, Fareham, PO14 1AR
Tel. +44 (0) 1329 823344, Fax +44 (0) 1329 821242
sales@searle.co.uk, www.searle.co.uk

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