Searle Air Cooled Condensers

Searle

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Range benefits

- **Meeting your specification -**
  Our range has literally 1000s of models, created through a modular design and variety of fan sizes, offering a greater choice to match your requirements.

- **Assured performance -**
  All our condensers are Eurovent Certified, enabling you to rest easy, with the knowledge that our unit will perform as specified.

- **Designed to be quiet -**
  designed restrictions using the latest 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 are so confident in our product that we offer one years warranty on all condensers and an additional one year warranty on all EC fans (subject to 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 Searle's Research & Development facility and ensures an optimised cooling efficiency.

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.

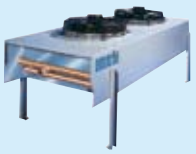
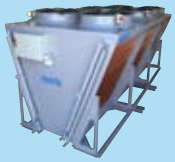
Within the coil casework surround, each fan chamber is separated by internal baffle plates to prevent windmilling of off-cycle fans. Alternative fin materials are available to give added protection in polluted or saline atmospheres: -

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

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 and full width flat-bed 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
	MDA	✔	3
	ME	✔	1 - 8
	MG	✔	1 - 16
	MM	✔	1 - 9
	MX	✔	1 - 9
	MVM	✔	2 - 16
	MVL	✔	2 - 16

✔ Yes X No O Option

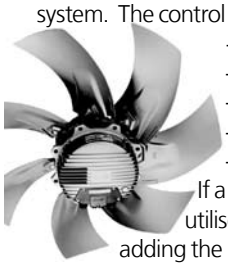
General Range Features

Rows of Fans	Options				Capacity kW @ 15 DT1
	Supply	EC Fans	Adiabatic Cooling System	Fin Materials	10 100 1000
1	1 & 3ph	✔	X	Al AV Cu	7 - 38 kW
1 or 2	1 & 3ph	✔	X	Al AV Cu	11 - 384 kW
1 or 2	3ph	✔	O	Al AV Cu	15 - 960 kW
1	3ph	✔	O	Al AV Cu	18 - 573 kW
1	3ph	✔	O	Al AV Cu	22 - 702 kW
2	3ph	✔	O	Al AV Cu	36 - 863 kW
2	3ph	✔	O	Al AV Cu	40 - 976 kW

Air Cooled Condenser Options

Control Options

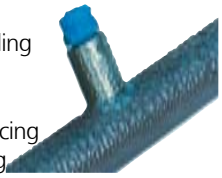
There are various optional Searle control packages available, including fully variable speed controlled products using Searle inverter control or the latest EC fan control system. The control options include:



- EC speed control
- Inverter speed control
- Triac speed control
- Dual speed step control
- Single speed control

If a speed control method is utilised Searle recommends adding the option of internal motor protection.

Adiabatic Cooling System



Searle's adiabatic cooling system is designed to enhance the thermal performance by reducing the effective incoming air temperature during peak ambient and load conditions. Air temperature reduction is achieved by spraying water into the incoming airstream (please see Searle's Adiabatic brochure for further details).

Other Options

Searle offers a wide range of accessories and additional options, including anti-vibration mounts and optional leg extensions - to enhance fresh air in difficult locations. For further details please contact your Searle representative.

Vertical Mounting

Flat bed units may be specified with the coil vertical for horizontal air flow systems.

Sub-Cooling

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 7°C 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%.

The system should be designed so that refrigerant passes from the condensing section into a liquid receiver or liquid trap to prevent gas from entering the sub-cooling section. Some larger units will have the end cooling outlet at the opposite end to other connections.

Quality Assured

Searle is a quality assured company to ISO 9001:2008 encompassing Performance Testing, Manufacturing Systems and Inspection Procedures.

Eurovent Certification

The range is certified under the Eurovent CERTIFY-ALL Condensers program, with performances rated in accordance with B5 EN 327 and sound with EN13487. Data covered includes: performance, sound power, mean sound pressure, power input and surface area.

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
B	Very low	70 < R < 110
C	Low	5 < R < 70
D	Medium	30 < R < 45
E	High	< 30

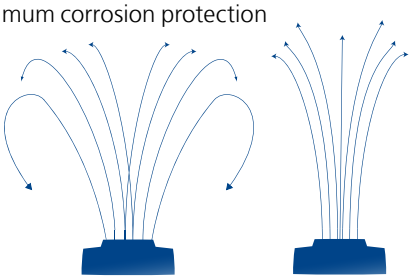
Where R= Nominal Capacity / Total fan power input

CE Marking

Searle's condensers are CE marked under the 'Low Voltage Directive'. Under the 'Pressure Equipment Directive', they are category 1 or 'SEP' and therefore excluded from it.

Fan Data

Searle offers a variety of fan types and speeds to suit specific requirements. The fansets include guarding in accordance with B5 EN ISO 13857. Motors are environmentally protected to IP54. The wire fan guards are of welded construction and coated in a weatherproof durable synthetic finish for maximum corrosion protection



Typical fan New fan

The blade profile of Searle's new fan and its proximity to the fanplate reduces the occurrence of air-recirculation due to a more projected airflow.

AC Fansets

The standard AC fansets used in the entire Searle condenser range are external rotor motors with either die cast aluminium or plastic sickle bladed impellers. The sickle-shaped design of the blades reduce the fan noise considerably versus other fansets available.

The fansets are supplied with a full bell mouth fan plate, optimised to provide the highest efficiency, lowest noise fan currently available. Motors can be connected in Delta or Star configurations for high or low speed operation or, as an option can be switchable between the 2 speeds. The motors can also be externally speed controlled by triac or inverter systems.

EC Fansets

For speed control the EC motor offers high efficiency whilst being extremely quiet over its entire operational range. At nominal speed, there is an energy saving of about 10%. In the controlled range, both relative and absolute savings are substantially more pronounced.

Fan type & Pole	Diameter	Model Length	Delta			Star		
			Speed (rpm)	FLC (Amp)	SC (Ampl)	Speed (rpm)	FLC (Amp)	SC (Ampl)
N5 4 Pole	500mm	AB	1250	2.8	4.7	Single Phase		
N5 6 Pole		AB	915	1.2	2.3	Single Phase		
N5 8 Pole		AB	680	0.4	1	560	0.2	0.3
N6 4 Pole	630mm	BC	1330	5.2	19	1035	3.3	6
N6 6 Pole		BC	900	1.8	5	700	1.1	2.5
N6 8 Pole		BC	650	1	3.1	470	0.5	1
N8 6 Pole	800mm	ABC	920	4.2	14	730	2.3	4
N8 8 Pole		ABC	670	2.5	6.2	550	1.3	2.2
N8 12 Pole		ABC	450	1.4	2.3	350	0.6	0.8
Q8 12 Pole		ABC	370	0.7	1	240	0.5	0.8
N9 6 Pole	910mm	ABC	905	5.7	19	640	3.3	1.1
L9 EC Technology		ABC	Variable 100 - 600	1.2	1.7			
09 EC Technology		ABC	Variable 100 - 870	3.1	4.3			

Note: The figures in the table are for 400V/3ph/50Hz operation and are per fan.

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.

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.

Sound power correction factors for multiple fans

No Fans	1	2	3	4	5	6	8	10	12
Corrections	+0	+3	+5	+6	+7	+8	+9	+10	+11

Correction Factors

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

	DT1					
	8K	10K	12K	15K	17K	20K
R507A, R134a, R404A	0.53	0.67	0.80	1.00	1.13	1.33
R407A, R407C,	0.46	0.62	0.77	1.00	1.15	1.38

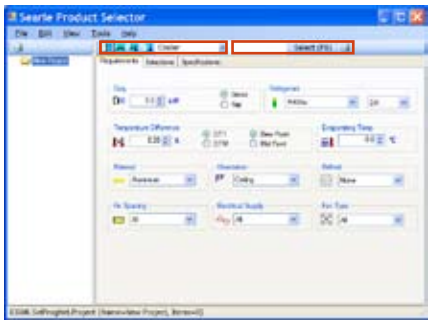
Product Selection Software

This document contains screenshots of selected features of the latest version of the Searle Product Selection software. This release retains the familiar interface which our customers tell us they like, but adds a number of new features requested by both customers and sales staff.

Introductory Screen

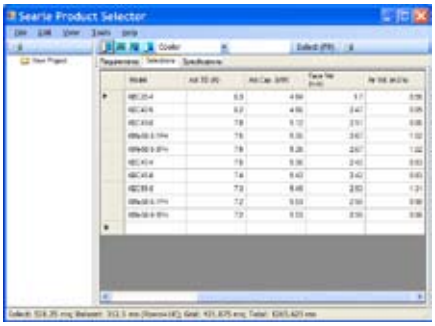
The new introductory screen places Searle within the context of our new parent group, GEA Refrigeration.

Main Screen



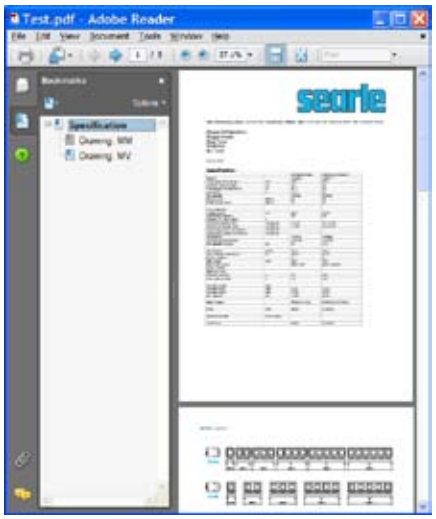
The main screen incorporates the traditional layout and appearance of the existing program, but now includes all product types within one program. The customer can select the type of product by clicking an icon or selecting from a drop-down list; whichever they find most convenient. The box to the left of the Select button allows the customer to enter a filter (for example MM for a Condenser selection) to limit the number of models considered.

Specification of Selected Models



The product specification of one or more models is presented in the traditional way. Although not visible on this screenshot, the specification screen allows the customer to select optional extras (by ticking checkboxes at the bottom of the specification). The nett price of the unit (including extras and taking into account customer discounts) is immediately calculated and displayed.

Specification as a PDF File



A new feature of this version is that the specifcation can be presented as a PDF file. The appearance of the specification document will be enhanced to include company logos, contact information and anything else required to create a professional proposal document. The specification document can include one or more specification pages and the relevant drawings (extracted from the standard product range brochures).

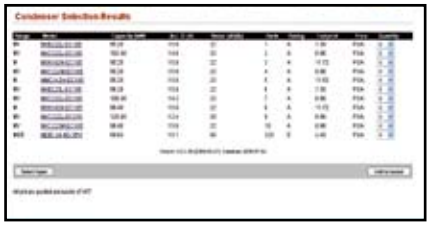
Note: also in the above screenshot that bookmarks in the PDF file allow quick navigation to the relevant part of a large specification document.

Website

Keep up to date with our products and latest news by visiting the website, www.searle.co.uk.

i) Selection software

Use selection software and check product availability. A fully interactive version of these-lection software is available on-line at www.searle.co.uk. Our unique website allows visitors to use an interactive product selector, showing the latest stock availability.



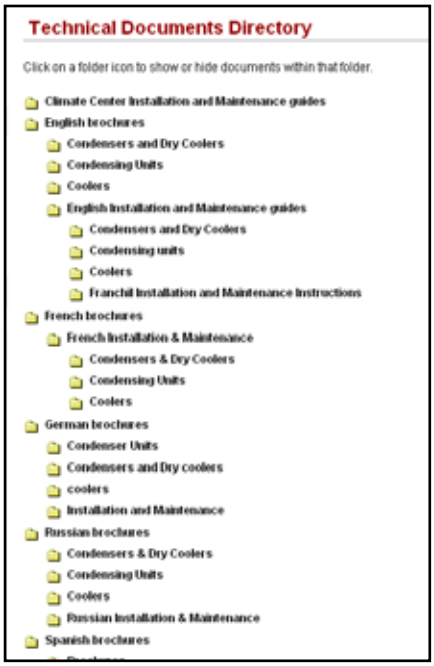
Simply click on "Help Me Choose" and choose your product range, such as condensers, dry coolers and coolers. Then input your requirements and a range of suitable products will be shown. These products can be added to a basket, fromwhich you can email for a quote from the Searle UK or export sales team

ii) Online ordering

If you buy direct from Searle an online customer account can be created for customer-specific pricing and online ordering. For further details please speak with your sales representative.

iii) Download brochures and technical docments

Visitors can view and download the latest information from the website. Our full product range and installation and maintenance instructions can be found on the"Downloads" menu bar.



ME

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 500 and 630 mm 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 ME range is also available as a fluid cooler designated DE.

Model selections can be made either directly from the catalogue by using the popular Searle selection software available on CD, as a download from the website or interactively on-line at www.searle.co.uk.

ME Features

- 3 Module length 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

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

Range	ME
Module length	A , B, C
Bank of fans	1 or 2
Fans per bank	1 - 4
Coils rows	2, 3, 4
Orientation	H = Horizontal, V = Vertical
Fans type	N5 = 500mm,N6 = 630mm,
Motor speed	04, 06, 08, EC, XX = Less fansets
Power	1 = 1 - phase, 3 = 3 - phase
Coil material	AL = Copper tubes/ Aluminium fins, AV = Copper tubes/ Vinyl coated Aluminium fins CU = Copper tubes/ Copper fins, ET = Copper tubes/ Copper fins electro-tinned BLG = Anti corrosion protection

ME Selection Data

Model	DELTA (High Speed)					STAR (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Duty (15 K DT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure Level at 10m	Power Input	Energy rating	Duty (15 K DT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure Level at 10m	Power Input	Energy rating			
	kW	m³/s	dB(A)	W		kW	m³/s	dB(A)	W		m²	dm³	kg
500mm 4 pole 1 phase													
MEA112-0504-1	16.3	1.90	45	540	D	-	-	-	-	-	26	5	1.6
MEB112-0504-1	20.1	2.06	46	530	D	-	-	-	-	-	38	7	2.2
MEA113-0504-1	20.5	1.78	45	560	D	-	-	-	-	-	38	7	2.2
MEA114-0504-1	23.3	1.68	44	570	D	-	-	-	-	-	51	9	2.8
MEB113-0504-1	25.5	2.00	46	530	C	-	-	-	-	-	58	10	3.2
MEB114-0504-1	28.8	1.92	45	540	C	-	-	-	-	-	77	12	3.8
MEA122-0504-1	32.6	3.82	48	1090	D	-	-	-	-	-	51	9	2.8
MEB122-0504-1	40.2	4.14	49	1060	D	-	-	-	-	-	77	12	3.8
MEA123-0504-1	41.0	3.58	48	1120	D	-	-	-	-	-	77	12	3.8
MEA124-0504-1	46.6	3.36	47	1150	D	-	-	-	-	-	102	17	5.4
MEA132-0504-1	48.9	5.72	50	1630	D	-	-	-	-	-	77	13	4.1
MEB123-0504-1	51.0	4.00	49	1070	C	-	-	-	-	-	115	18	5.7
MEB124-0504-1	57.6	3.86	48	1080	C	-	-	-	-	-	154	24	7.6
MEB132-0504-1	60.3	6.20	51	1580	D	-	-	-	-	-	115	18	5.7
MEA133-0504-1	61.5	5.36	49	1680	D	-	-	-	-	-	115	18	5.7
MEA142-0504-1	65.2	7.62	51	2170	D	-	-	-	-	-	102	16	5.1
MEA134-0504-1	69.9	5.04	49	1720	D	-	-	-	-	-	154	24	7.6
MEB133-0504-1	76.5	5.98	50	1600	C	-	-	-	-	-	173	26	8.2
MEB142-0504-1	80.4	8.26	52	2110	D	-	-	-	-	-	154	23	7.3
MEA143-0504-1	82.0	7.14	50	2230	D	-	-	-	-	-	154	23	7.3
MEB134-0504-1	86.4	5.78	50	1620	C	-	-	-	-	-	230	34	10.7
MEA144-0504-1	93.2	6.74	50	2290	D	-	-	-	-	-	205	31	9.8
MEB143-0504-1	102.0	7.98	51	2130	C	-	-	-	-	-	230	34	10.7
MEB144-0504-1	115.2	7.72	51	2160	C	-	-	-	-	-	307	44	13.9
630mm 4 pole 3 phase													
MEB112-0604-3	28.2	3.76	61	2500	E	24.8	2.98	52	1640	E	38	7	2.2
MEC112-0604-3	32.8	3.90	61	2460	E	28.5	3.10	52	1640	E	48	9	2.8
MEB113-0604-3	37.5	3.58	60	2540	E	32.4	2.82	52	1660	E	58	10	3.2
MEC113-0604-3	42.5	3.76	61	2500	E	36.3	2.98	52	1640	E	72	12	3.8
MEB114-0604-3	43.3	3.42	60	2580	E	36.8	2.66	52	1680	E	77	13	4.1
MEC114-0604-3	48.9	3.62	60	2530	E	41.4	2.86	52	1650	E	96	17	5.4
MEB122-0604-3	56.4	7.54	63	4990	E	49.6	5.96	54	3290	E	77	13	4.1
MEC122-0604-3	65.6	7.80	63	4930	E	57.0	6.20	54	3280	E	96	16	5.1
MEB123-0604-3	75.0	7.16	63	5080	E	64.8	5.62	54	3320	E	115	18	5.7
MEB132-0604-3	84.6	11.30	65	7490	E	74.4	8.94	56	4930	E	115	19	6
MEC123-0604-3	85.0	7.54	63	4990	E	72.6	5.98	54	3290	E	144	23	7.3
MEB124-0604-3	86.6	6.84	63	5160	E	73.6	5.34	54	3360	E	154	24	7.6
MEC124-0604-3	97.8	7.26	63	5060	E	82.8	5.74	54	3310	E	192	30	9.5
MEC132-0604-3	98.4	11.70	65	7390	E	85.5	9.30	56	4920	E	144	23	7.3
MEB133-0604-3	112.5	10.74	65	7630	E	97.2	8.44	56	4980	E	173	26	8.2
MEB142-0604-3	112.8	15.08	66	9990	E	99.2	11.92	57	6580	E	154	24	7.6
MEC133-0604-3	127.5	11.30	65	7490	E	108.9	8.96	56	4930	E	216	33	10.4
MEB134-0604-3	129.9	10.26	65	7740	E	110.4	8.00	56	5030	E	230	34	10.7
MEC142-0604-3	131.2	15.60	66	9850	E	114.0	12.40	57	6560	E	192	30	9.5
MEC134-0604-3	146.7	10.88	65	7590	E	124.2	8.60	56	4960	E	288	44	13.9
MEB143-0604-3	150.0	14.30	66	10170	E	129.6	11.24	57	6630	E	230	35	11.1
MEC143-0604-3	170.0	15.06	66	9990	E	145.2	11.94	57	6570	E	288	45	14.2
MEB144-0604-3	173.2	13.68	66	10320	E	147.2	10.66	57	6710	E	307	46	14.5
MEC144-0604-3	195.6	14.50	66	10120	E	165.6	11.46	57	6610	E	384	58	18.3

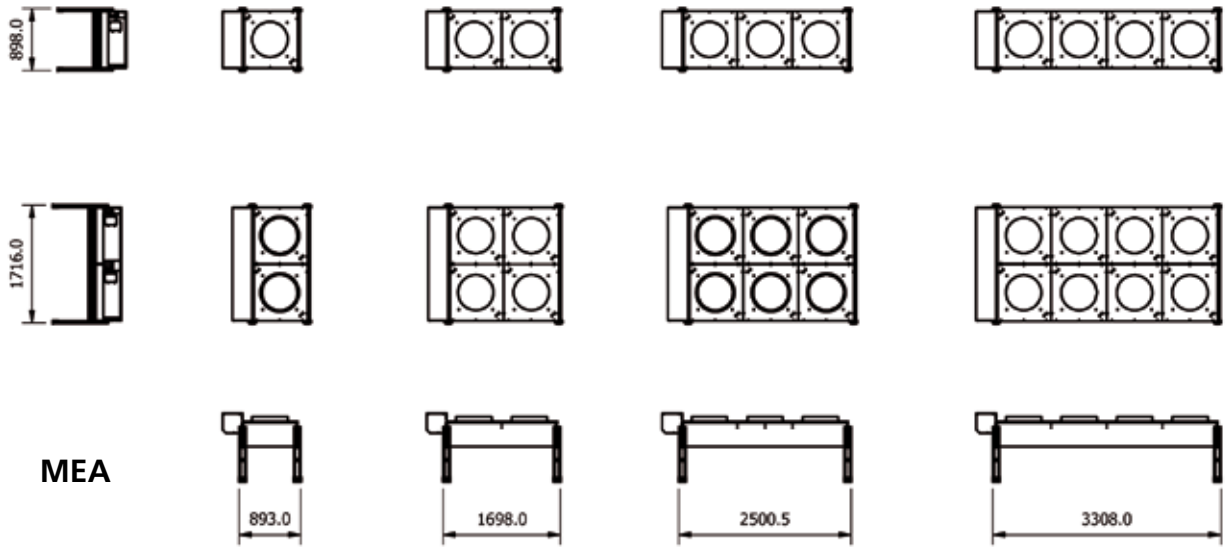
ME Selection Data

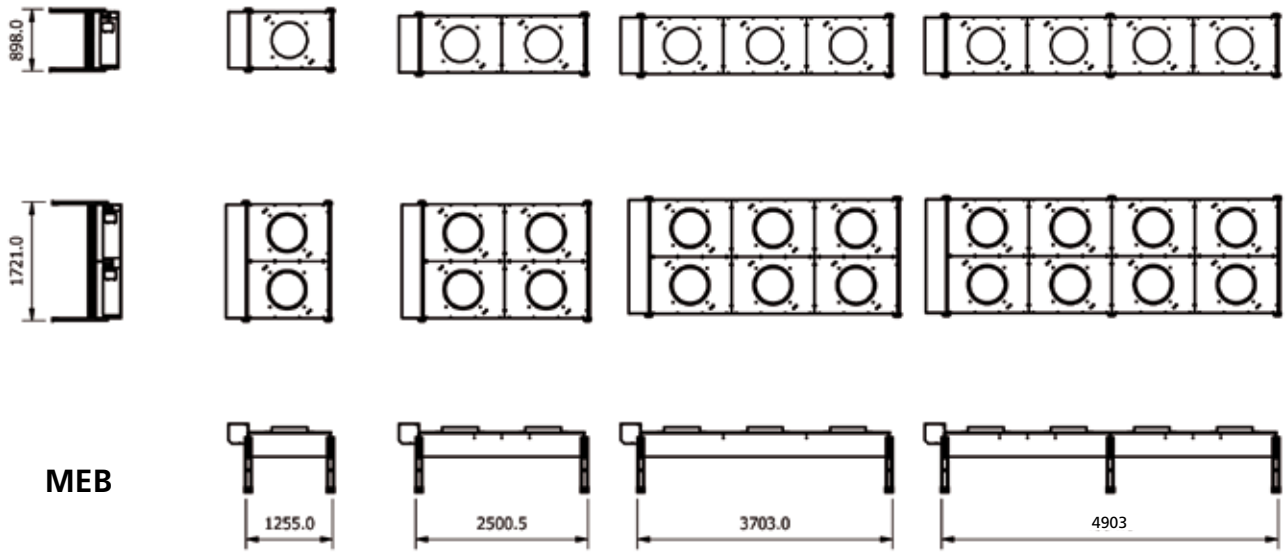
Model	DELTA (High Speed)					STAR (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Duty (15 K DT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure Level at 10m	Power Input	Energy rating	Duty (15 K DT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure Level at 10m	Power Input	Energy rating			
	kW	m³/s	dB(A)	W		kW	m³/s	dB(A)	W		m²	dm³	kg
500mm 6 pole 1 phase													
MEA112-0506-1	13.6	1.40	37	230	C	-	-	-	-	-	26	5	1.6
MEB112-0506-1	16.7	1.54	38	230	B	-	-	-	-	-	38	7	2.2
MEA113-0506-1	17.1	1.32	36	240	B	-	-	-	-	-	38	7	2.2
MEA114-0506-1	18.8	1.24	36	250	B	-	-	-	-	-	51	9	2.8
MEB113-0506-1	20.6	1.48	37	230	B	-	-	-	-	-	58	9	2.8
MEB114-0506-1	22.9	1.42	37	230	B	-	-	-	-	-	77	12	3.8
MEA122-0506-1	27.2	2.82	40	470	C	-	-	-	-	-	51	9	2.8
MEB122-0506-1	33.4	3.06	41	450	B	-	-	-	-	-	77	12	3.8
MEA123-0506-1	34.2	2.64	39	480	B	-	-	-	-	-	77	12	3.8
MEA124-0506-1	37.6	2.48	39	490	B	-	-	-	-	-	102	16	5.1
MEA132-0506-1	40.8	4.22	41	700	C	-	-	-	-	-	77	12	3.8
MEB123-0506-1	41.2	2.96	40	460	B	-	-	-	-	-	115	17	5.4
MEB124-0506-1	45.8	2.86	40	470	B	-	-	-	-	-	154	24	7.6
MEB132-0506-1	50.1	4.60	42	680	B	-	-	-	-	-	115	18	5.7
MEA133-0506-1	51.3	3.98	41	720	B	-	-	-	-	-	115	18	5.7
MEA142-0506-1	54.4	5.62	42	940	C	-	-	-	-	-	102	16	5.1
MEA134-0506-1	56.4	3.72	41	740	B	-	-	-	-	-	154	24	7.6
MEB133-0506-1	61.8	4.44	42	690	B	-	-	-	-	-	173	26	8.2
MEB142-0506-1	66.8	6.14	43	910	B	-	-	-	-	-	154	23	7.3
MEA143-0506-1	68.4	5.30	42	970	B	-	-	-	-	-	154	23	7.3
MEB134-0506-1	68.7	4.28	41	700	B	-	-	-	-	-	230	34	10.7
MEA144-0506-1	75.2	4.96	42	990	B	-	-	-	-	-	205	30	9.5
MEB143-0506-1	82.4	5.90	43	920	B	-	-	-	-	-	230	34	10.7
MEB144-0506-1	91.6	5.70	42	930	B	-	-	-	-	-	307	44	13.9
630mm 6 pole 3 phase													
MEB112-0606-3	23.3	2.72	46	700	D	20.8	2.06	39	470	D	38	7	2.2
MEC112-0606-3	26.6	2.90	46	700	D	23.5	2.20	39	460	C	48	9	2.8
MEB113-0606-3	29.4	2.52	46	710	D	25.3	1.90	39	480	C	58	10	3.2
MEB114-0606-3	33.1	2.36	47	730	C	27.6	1.76	39	490	C	77	12	3.8
MEC113-0606-3	33.1	2.74	46	700	C	28.4	2.06	39	470	C	72	12	3.8
MEC114-0606-3	37.5	2.58	46	710	C	31.4	1.96	39	480	C	96	15	4.7
MEB122-0606-3	46.6	5.44	49	1410	D	41.6	4.12	42	940	D	77	13	4.1
MEC122-0606-3	53.2	5.80	49	1390	D	47.0	4.42	42	920	C	96	16	5.1
MEB123-0606-3	58.8	5.04	49	1420	D	50.6	3.80	42	970	C	115	18	5.7
MEB124-0606-3	66.2	4.72	50	1450	C	55.2	3.54	42	980	C	154	24	7.6
MEC123-0606-3	66.2	5.46	49	1410	C	56.8	4.14	42	930	C	144	23	7.3
MEB132-0606-3	69.9	8.16	50	2110	D	62.4	6.18	43	1400	D	115	18	5.7
MEC124-0606-3	75.0	5.18	49	1420	C	62.8	3.90	42	960	C	192	29	9.2
MEC132-0606-3	79.8	8.68	50	2090	D	70.5	6.62	44	1380	C	144	23	7.3
MEB133-0606-3	88.2	7.56	51	2130	D	75.9	5.70	43	1450	C	173	26	8.2
MEB142-0606-3	93.2	10.88	51	2810	D	83.2	8.24	44	1870	D	154	24	7.6
MEB134-0606-3	99.3	7.08	52	2180	C	82.8	5.30	44	1470	C	230	34	10.7
MEC133-0606-3	99.3	8.20	50	2110	C	85.2	6.20	43	1400	C	216	33	10.4
MEC142-0606-3	106.4	11.58	51	2790	D	94.0	8.82	45	1840	C	192	30	9.5
MEC134-0606-3	112.5	7.76	50	2120	C	94.2	5.86	43	1440	C	288	43	13.6
MEB143-0606-3	117.6	10.08	52	2840	D	101.2	7.58	44	1940	C	230	34	10.7
MEB144-0606-3	132.4	9.44	53	2910	C	110.4	7.08	45	1960	C	307	44	13.9
MEC143-0606-3	132.4	10.94	51	2810	C	113.6	8.28	44	1870	C	288	42	13.3
MEC144-0606-3	150.0	10.36	51	2830	C	125.6	7.82	44	1920	C	384	57	18

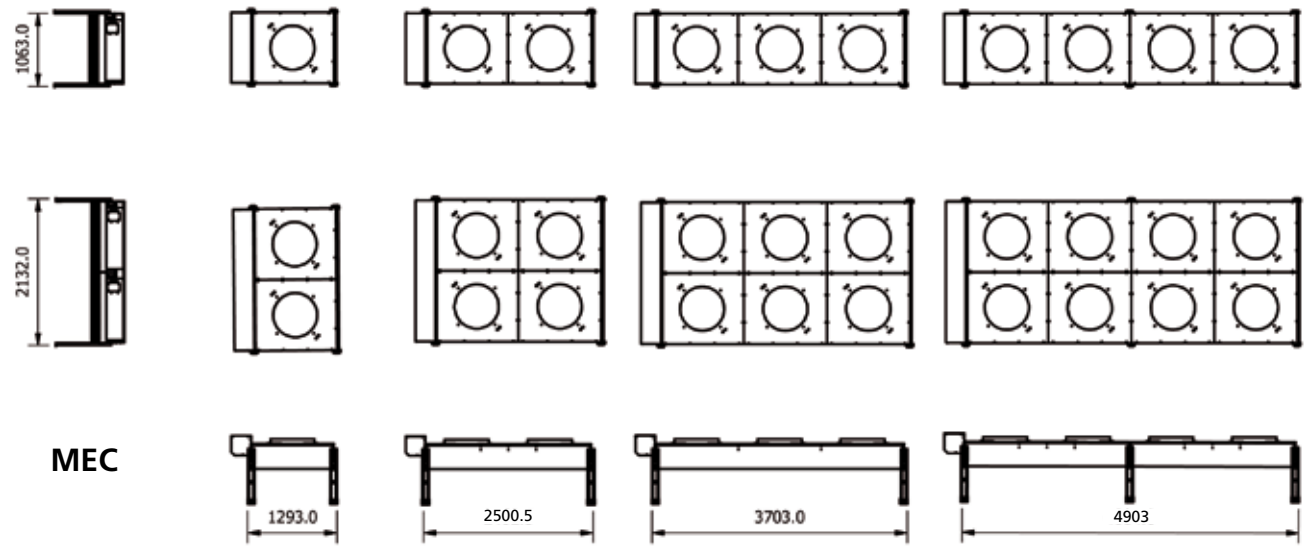
ME Selection Data

Model	DELTA (High Speed)					STAR (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Duty (15 K DT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure Level at 10m	Power Input	Energy rating	Duty (15 K DT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure Level at 10m	Power Input	Energy rating			
	kW	m³/s	dB(A)	W		kW	m³/s	dB(A)	W		m²	dm³	kg
500mm 8 pole 3 phase													
MEA112-0508-3	11.2	1.04	29	120	B	10.1	0.86	25	80	A	26	4	1.3
MEA113-0508-3	13.7	0.96	29	120	A	12.1	0.80	25	80	A	38	7	2.2
MEB112-0508-3	13.8	1.14	29	120	A	12.4	0.96	26	80	A	38	7	2.2
MEA114-0508-3	14.8	0.90	28	130	A	13.0	0.76	24	80	A	51	9	2.8
MEB113-0508-3	16.6	1.10	29	120	A	14.8	0.92	25	80	A	58	9	2.8
MEB114-0508-3	18.0	1.06	29	120	A	15.8	0.88	25	80	A	77	12	3.8
MEA122-0508-3	22.4	2.08	32	250	B	20.2	1.74	28	160	A	51	8	2.5
MEA123-0508-3	27.4	1.94	32	250	A	24.2	1.60	27	160	A	77	12	3.8
MEB122-0508-3	27.6	2.28	32	250	A	24.8	1.94	29	150	A	77	12	3.8
MEA124-0508-3	29.6	1.80	31	260	A	26.0	1.50	27	160	A	102	16	5.1
MEB123-0508-3	33.2	2.18	32	250	A	29.6	1.84	28	160	A	115	17	5.4
MEA132-0508-3	33.6	3.10	34	370	B	30.3	2.60	30	240	A	77	12	3.8
MEB124-0508-3	36.0	2.10	32	250	A	31.6	1.74	28	160	A	154	23	7.3
MEA133-0508-3	41.1	2.90	33	370	A	36.3	2.40	29	240	A	115	17	5.4
MEB132-0508-3	41.4	3.42	34	370	A	37.2	2.90	30	230	A	115	17	5.4
MEA134-0508-3	44.4	2.68	33	400	A	39.0	2.26	29	240	A	154	24	7.6
MEA142-0508-3	44.8	4.14	35	500	B	40.4	3.46	31	320	A	102	16	5.1
MEB133-0508-3	49.8	3.28	34	370	A	44.4	2.76	30	230	A	173	26	8.2
MEB134-0508-3	54.0	3.16	33	370	A	47.4	2.62	30	240	A	230	34	10.7
MEA143-0508-3	54.8	3.86	34	500	A	48.4	3.20	30	320	A	154	23	7.3
MEB142-0508-3	55.2	4.56	35	490	A	49.6	3.86	31	310	A	154	23	7.3
MEA144-0508-3	59.2	3.58	34	530	A	52.0	3.02	30	320	A	205	30	9.5
MEB143-0508-3	66.4	4.38	35	500	A	59.2	3.68	31	310	A	230	34	10.7
MEB144-0508-3	72.0	4.20	35	500	A	63.2	3.50	31	320	A	307	44	13.9
630mm 8 pole 3 phase													
MEB112-0608-3	19.7	1.98	37	350	C	16.3	1.34	28	200	B	38	7	2.2
MEC112-0608-3	22.1	2.10	37	340	C	18.1	1.44	28	200	B	48	8	2.5
MEB113-0608-3	24.2	1.84	37	360	C	19.1	1.26	29	200	B	58	10	3.2
MEB114-0608-3	26.4	1.72	38	370	B	20.4	1.18	29	200	B	77	12	3.8
MEC113-0608-3	27.1	1.98	37	350	B	21.5	1.36	28	200	B	72	12	3.8
MEC114-0608-3	30.0	1.90	37	360	B	23.1	1.30	29	200	A	96	15	4.7
MEB122-0608-3	39.4	3.96	40	700	C	32.6	2.70	31	400	B	77	12	3.8
MEC122-0608-3	44.2	4.22	40	680	C	36.2	2.88	31	390	B	96	16	5.1
MEB123-0608-3	48.4	3.68	40	720	C	38.2	2.50	32	400	B	115	18	5.7
MEB124-0608-3	52.8	3.44	41	740	B	40.8	2.36	32	410	B	154	24	7.6
MEC123-0608-3	54.2	3.98	40	700	B	43.0	2.72	31	400	B	144	23	7.3
MEB132-0608-3	59.1	5.94	41	1050	C	48.9	4.04	33	600	B	115	18	5.7
MEC124-0608-3	60.0	3.78	40	710	B	46.2	2.58	32	400	A	192	29	9.2
MEC132-0608-3	66.3	6.32	41	1030	C	54.3	4.32	33	590	B	144	23	7.3
MEB133-0608-3	72.6	5.52	41	1080	C	57.3	3.76	34	610	B	173	26	8.2
MEB142-0608-3	78.8	7.92	42	1400	C	65.2	5.40	34	790	B	154	23	7.3
MEB134-0608-3	79.2	5.16	42	1110	B	61.2	3.52	34	610	B	230	34	10.7
MEC133-0608-3	81.3	5.96	41	1050	B	64.5	4.08	33	600	B	216	32	10.1
MEC142-0608-3	88.4	8.44	43	1370	C	72.4	5.76	34	780	B	192	30	9.5
MEC134-0608-3	90.0	5.68	41	1070	B	69.3	3.88	33	600	A	288	43	13.6
MEB143-0608-3	96.8	7.36	42	1440	C	76.4	5.02	35	810	B	230	34	10.7
MEB144-0608-3	105.6	6.86	43	1480	B	81.6	4.70	35	820	B	307	44	13.9
MEC143-0608-3	108.4	7.96	42	1400	B	86.0	5.44	34	790	B	288	42	13.3
MEC144-0608-3	120.0	7.56	42	1430	B	92.4	5.16	34	800	A	384	55	17.4

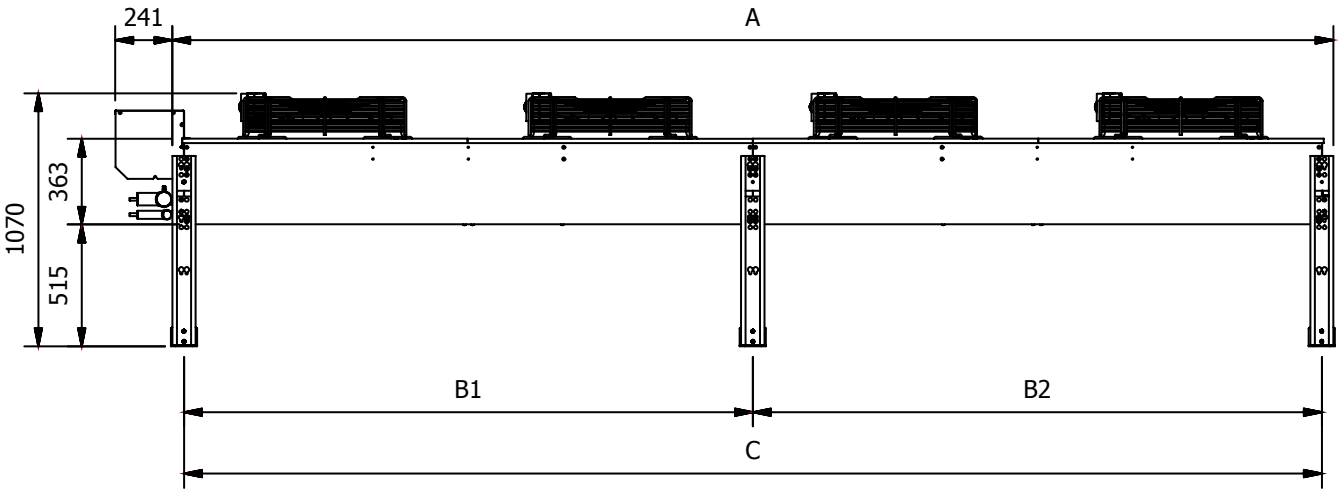
ME Model Layout



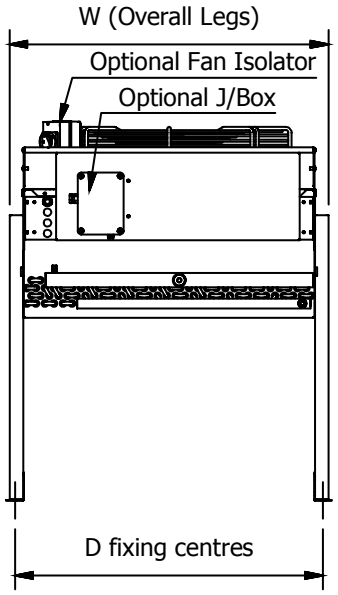




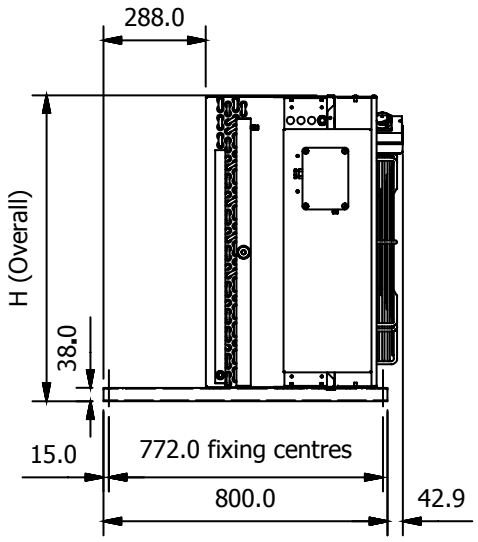
ME Model Drawings



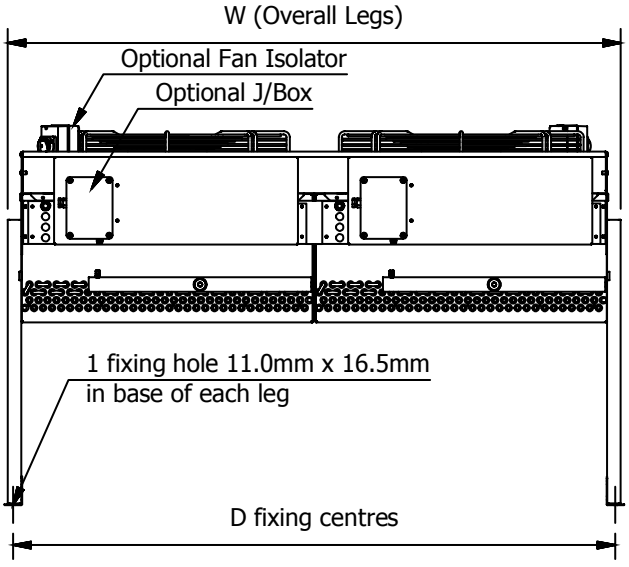
ME SINGLE BANK HORIZONTAL UNIT



ME VERTICAL UNIT



ME DOUBLE BANK HORIZONTAL UNIT



Dimensions

Model		Banks	Fans per bank	Coil rows	A	B1	B2	C	D	W	H	Approx Dry Weight		Inlet	outlet
												AL/AV	CU/ET		
					mm	mm	mm	mm	mm	mm	mm	kg	kg		
MEA	112	1	1	2	893	-	-	795	867	898	863	75	85	1.3/8"	7/8"
MEA	122	1	2	2	1698	-	-	1600	867	898	863	120	142	1.3/8"	7/8"
MEA	132	1	3	2	2500	-	-	2402	867	898	863	164	197	1.3/8"	7/8"
MEA	142	1	4	2	3308	-	-	3210	867	898	863	209	254	1.5/8"	1.1/8"
MEA	212	2	1	2	893	-	-	795	1695	1726	-	144	164	1.3/8"	7/8"
MEA	222	2	2	2	1698	-	-	1600	1695	1726	-	233	278	1.3/8"	7/8"
MEA	232	2	3	2	2500	-	-	2402	1695	1726	-	322	389	1.3/8"	7/8"
MEA	242	2	4	2	3308	-	-	3210	1695	1726	-	413	502	1.5/8"	1.1/8"
MEB	112	1	1	2	1293	-	-	1195	867	898	863	97	113	1.3/8"	7/8"
MEB	122	1	2	2	2500	-	-	2402	867	898	863	163	196	1.3/8"	7/8"
MEB	132	1	3	2	3703	-	-	3605	867	898	863	230	280	1.5/8"	1.1/8"
MEB	142	1	4	2	4903	2402	2402	4805	867	898	863	322	389	1.5/8"	1.1/8"
MEB	212	2	1	2	1293	-	-	1195	1695	1726	-	188	221	1.3/8"	7/8"
MEB	222	2	2	2	2500	-	-	2402	1695	1726	-	319	386	1.3/8"	7/8"
MEB	232	2	3	2	3703	-	-	3605	1695	1726	-	454	554	1.5/8"	1.1/8"
MEB	242	2	4	2	4903	2402	2402	4805	1695	1726	-	632	766	1.5/8"	1.1/8"
MEC	112	1	1	2	1293	-	-	1195	1070	1101	1066	104	125	1.3/8"	7/8"
MEC	122	1	2	2	2500	-	-	2402	1070	1101	1066	175	216	1.5/8"	1.1/8"
MEC	132	1	3	2	3703	-	-	3605	1070	1101	1066	250	312	2.1/8"	1.1/8"
MEC	142	1	4	2	4903	2402	2402	4805	1070	1101	1066	344	427	1.5/8"	1.3/8"
MEC	212	2	1	2	1293	-	-	1195	2101	2132	-	197	238	1.3/8"	7/8"
MEC	222	2	2	2	2500	-	-	2402	2101	2132	-	338	412	1.5/8"	1.1/8"
MEC	232	2	3	2	3703	-	-	3605	2101	2132	-	488	613	2.1/8"	1.1/8"
MEC	242	2	4	2	4903	2402	2402	4805	2101	2132	-	664	830	1.5/8"	1.3/8

MG

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.

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 12m in length with 16 fans

For the ultimate in fan speed control, 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 front of this brochure.

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

Range	MG
Module length	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
Orientation	H = Horizontal, V = Vertical
Fans type	N8 (800mm), Q8 (800mm), N9 (910mm), 09 (910mm), 99 (990mm)
Motor speed	AC pole: 06, 08, 12, 09EC (Max 855rpm), L9EC (Max 600rpm)
Power	D = Delta, S = Star, 2 = 2 Speed
Coil material	AL = Copper tubes/ Aluminium fins, AV = Copper tubes/ Vinyl coated aluminium fins CU = Copper tubes/ Copper fins, ET = Copper tubes/ Copper fins electro-tinned

Note: Isolators and control box shown are additional extras

MG 800mm 6 pole Selection data

Model	Delta (High Speed)					Star (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating			
	kW	m^3/s	dB(A)	W		kW	m^3/s	dB(A)	W		m^2	dm^3	kg
MGA112H	39.8	5.31	49	1640	E	35.5	4.34	43	1090	D	60	13	4.1
MGA162H	239.9	31.88	56	9860	E	213.7	26.03	50	6590	D	358	69	21.8
MGA212H	79.6	10.63	52	3280	E	71.0	8.68	45	2190	D	119	26	8.2
MGA282H	636.9	85.03	61	26240	E	567.7	69.41	55	17520	D	953	183	58.28
MGB112H	45.3	5.67	48	1590	E	40.3	4.61	44	1080	D	72	17	5.4
MGB122H	91.0	11.34	51	3180	E	81.2	9.22	46	2160	D	143	30	9.5
MGB132H	136.6	17.00	53	4780	E	121.3	13.83	48	3240	D	215	42	13.3
MGB142H	175.2	22.67	54	6370	E	155.4	18.44	49	4320	D	286	57	18
MGB152H	224.8	28.34	55	7970	E	199.5	23.05	50	5400	D	358	69	21.8
MGB212H	90.6	11.34	51	4780	E	80.6	9.22	46	3240	E	143	33	10.4
MGB222H	181.9	22.67	54	6370	E	162.3	18.44	49	4320	D	286	59	18.6
MGB232H	273.1	34.01	56	9560	E	242.7	27.66	51	6480	D	429	84	26.5
MGB242H	350.4	45.34	57	12750	E	310.8	36.88	52	8650	D	572	113	35.7
MGB252H	449.6	56.68	58	15940	E	399.0	46.10	53	10810	D	715	138	43.6
MGB262H	543.7	68.01	59	28680	E	483.6	55.32	54	19440	E	858	164	52.01
MGC112H	52.1	6.04	48	1540	D	46.0	4.84	44	1060	D	89	20	6.3
MGC142H	205.5	24.15	54	6180	D	180.2	19.37	50	4250	D	358	69	21.8
MGC212H	104.1	12.07	51	3090	D	92.0	9.69	47	2120	D	179	40	12.6
MGC252H	520.7	60.37	58	15450	D	460.1	48.43	54	10600	D	894	171	54.2
MGA113H	50.8	4.81	50	1730	E	45.2	3.88	42	1110	D	89	20	6.3
MGA123H	101.8	9.62	53	3460	E	88.9	7.76	45	2220	D	179	36	11.4
MGA133H	155.5	14.43	55	5200	E	136.5	11.64	47	3330	D	268	54	17.1
MGA143H	207.5	19.24	56	6930	E	181.5	15.52	48	4440	D	358	69	21.8
MGA153H	259.2	24.05	56	8660	E	227.7	19.40	49	5550	D	447	86	27.2
MGA163H	305.9	28.86	57	10400	E	266.9	23.28	50	6660	D	537	102	32.2
MGA213H	101.6	9.62	53	3460	E	88.7	7.76	45	2220	D	179	40	12.6
MGA223H	203.7	19.24	56	6930	E	177.8	15.52	48	4440	D	358	72	22.8
MGA233H	311.1	28.86	58	10400	E	273.1	23.28	50	6660	D	537	108	34.1
MGA243H	415.0	38.48	58	13870	E	363.0	31.03	51	8880	D	715	139	43.9
MGA253H	518.3	48.10	59	17330	E	455.3	38.79	52	11110	D	894	173	54.7
MGA263H	611.8	57.72	60	20800	E	533.8	46.55	53	13330	D	1073	204	64.5
MGA273H	711.4	67.34	61	24220	E	621.2	54.31	54	15540	D	1252	238	75.2
MGA283H	813.0	76.95	62	27680	E	709.9	62.07	55	17760	D	1430	271	85.6
MGB113H	57.9	5.22	49	1650	D	50.4	4.17	42	1100	C	107	23	7.3
MGB153H	286.5	26.10	55	8260	D	248.6	20.83	49	5510	C	537	102	32.2
MGB213H	115.8	10.44	52	4960	E	100.7	8.33	45	3300	D	215	46	14.5
MGB213H	115.8	10.44	52	4960	E	100.7	8.33	45	3300	D	215	46	14.5
MGB263H	694.9	62.64	59	29760	E	604.5	50.0	53	19800	D	1280	243	76.86
MGC113H	66.4	5.62	48	1590	D	57.6	4.50	43	1080	C	134	28	8.8
MGC143H	260.2	22.48	54	6390	D	224.6	17.99	49	4340	C	537	102	32.2
MGC213H	132.8	11.24	51	3190	D	115.1	8.99	46	2170	C	268	56	17.7
MGC253H	664.1	56.21	58	15950	D	575.7	44.97	52	10850	C	1342	253	80
MGA114H	59.0	4.51	51	1800	D	50.7	3.56	43	1140	D	119	26	8.2
MGA164H	353.7	27.09	59	10810	D	305.2	21.38	51	6870	D	715	133	42
MGA214H	117.9	9.03	54	3600	D	101.4	7.13	46	2290	D	239	51	16.1
MGA284H	943.5	72.23	64	28800	D	811.1	57.02	56	18320	D	1907	353.4	111.72
MGB114H	65.9	4.91	50	1710	D	57.0	3.87	42	1100	C	143	30	9.5
MGB124H	133.3	9.83	52	3420	D	114.3	7.73	45	2210	C	286	55	17.4
MGB134H	199.6	14.74	54	5130	D	171.7	11.60	47	3320	C	429	82	25.9
MGB144H	267.0	19.65	55	6840	D	228.9	15.47	48	4430	C	572	108	34.1
MGB154H	331.5	24.56	56	8550	D	285.8	19.33	49	5540	C	715	133	42
MGB214H	131.7	9.83	53	3420	D	112.6	7.73	45	2215	C	286	60	19
MGB224H	266.5	19.65	55	6840	D	228.6	15.47	48	4430	C	572	110	34.8
MGB234H	399.2	29.48	57	10270	D	343.5	23.20	50	6650	C	858	164	51.8
MGB244H	534.1	39.30	58	13690	D	457.9	30.94	51	8870	C	1145	217	68.6
MGB254H	663.1	49.13	59	17110	D	571.7	38.67	52	11090	C	1431	266	84.1
MGB264H	790.4	58.95	60	20520	D	675.6	46.40	53	13290	C	1716	319.1	100.86
MGC114H	75.5	5.33	49	1630	C	64.2	4.19	42	1090	C	179	36	11.4
MGC124H	151.3	10.66	51	3260	C	128.5	8.37	45	2190	C	358	70	22.1
MGC134H	227.1	15.98	53	4900	C	192.9	12.56	47	3290	C	537	101	31.9
MGC144H	302.4	21.31	54	6530	C	258.4	16.75	48	4390	C	715	133	42
MGC214H	151.0	10.66	52	3260	C	128.3	8.37	45	2190	C	358	72	22.8
MGC224H	302.5	21.31	54	6530	C	257.0	16.75	48	4390	C	715	139	43.9
MGC234H	454.1	31.97	56	9800	C	385.7	25.12	50	6590	C	1073	201	63.5
MGC244H	604.8	42.62	57	13070	C	516.7	33.50	51	8790	C	1431	266	84.1

MG 800mm 8 pole Selection data

Model	Delta (High Speed)					Star (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating			
	kW	m^3/s	dB(A)	W		kW	m^3/s	dB(A)	W		m^2	dm^3	kg
MGA112H	33.9	4.02	42	800	D	29.8	3.12	35	510	C	60	13	4.1
MGA162H	204.0	24.14	50	4840	D	175.5	18.70	42	3070	C	358	69	21.8
MGA212H	67.8	8.05	45	1610	D	58.3	6.23	38	1020	C	119	26	8.2
MGA282H	542.2	64.38	55	12880	D	466.7	49.86	47	8160	C	953	183	58.3
MGB112H	38.7	4.31	41	790	C	32.8	3.30	35	500	C	72	17	5.4
MGB122H	77.9	8.63	44	1590	C	66.6	6.61	37	1000	C	143	30	9.5
MGB132H	116.4	12.94	46	2380	C	98.8	9.91	39	1500	C	215	42	13.3
MGB142H	148.9	17.25	47	3180	C	126.4	13.22	40	2000	C	286	57	18.0
MGB152H	191.1	21.57	48	3980	C	161.9	16.52	41	2500	C	358	69	21.8
MGB212H	77.3	8.63	44	1590	C	65.7	6.61	37	1500	D	143	33	10.4
MGB222H	155.8	17.25	47	3180	C	133.2	13.22	40	2000	C	286	59	18.6
MGB232H	232.7	25.88	49	4770	C	197.6	19.82	42	3000	C	429	84	26.5
MGB242H	297.8	34.51	50	6370	C	252.7	26.43	43	4000	C	572	113	35.7
MGB242H	297.8	34.51	50	6370	C	252.7	26.43	43	4000	C	572	113	35.7
MGB262H	463.9	51.76	52	9540	C	394.2	39.65	45	9000	D	858	164	52.0
MGC112H	44.2	4.57	40	780	C	37.5	3.50	34	490	B	89	20	6.3
MGC142H	173.0	18.30	46	3130	C	145.9	13.99	40	1960	B	358	69	21.8
MGC212H	88.5	9.15	43	1560	C	75.0	7.00	37	980	B	179	40	12.6
MGC252H	442.4	45.75	50	7800	C	375.2	34.98	44	4900	B	894	171	54.2
MGA113H	42.9	3.65	41	850	C	35.9	2.73	35	520	C	89	20	6.3
MGA123H	84.1	7.30	44	1700	C	70.0	5.45	38	1040	C	179	36	11.4
MGA133H	129.4	10.95	46	2550	C	108.1	8.18	40	1570	C	268	54	17.1
MGA143H	172.0	14.61	47	3400	C	143.4	10.91	40	2090	C	358	69	21.8
MGA153H	216.0	18.26	48	4260	C	180.9	13.64	41	2620	C	447	86	27.2
MGA163H	252.4	21.91	49	5110	C	210.2	16.36	42	3140	C	537	102	32.2
MGA213H	85.8	7.30	44	1700	C	71.8	5.45	38	1040	C	179	40	12.6
MGA223H	168.1	14.61	47	3400	C	140.0	10.91	41	2090	C	358	72	22.8
MGA233H	258.7	21.91	49	5110	C	216.2	16.36	42	3140	C	537	108	34.1
MGA243H	343.9	29.21	50	6810	C	286.7	21.82	43	4190	C	715	139	43.9
MGA253H	432.0	36.51	51	8520	C	361.7	27.27	44	5240	C	894	173	54.7
MGA263H	504.8	43.82	52	10220	C	420.4	32.72	45	6290	C	1073	204	64.5
MGA273H	600.3	51.12	53	11900	C	502.6	38.18	46	7280	C	1252	238	75.3
MGA283H	686.1	58.42	54	13600	C	574.4	43.6	47	8320	C	1430	271	85.7
MGB113H	48.5	3.98	42	820	C	40.8	3.0	35	510	B	107	23	7.3
MGB153H	237.6	19.92	48	4100	C	198.1	15.0	42	2590	B	537	102	32.2
MGB213H	97.0	7.97	45	1640	C	81.5	6.00	38	1035	B	215	46	14.5
MGB263H	581.8	47.81	52	9840	C	489.0	36.0	46	6210	B	1280	243.1	76.9
MGC113H	55.2	4.32	41	790	C	46.0	3.23	35	500	B	134	28	8.8
MGC143H	215.4	17.30	47	3190	C	179.2	12.92	40	2010	B	537	102	32.2
MGC213H	110.5	8.65	44	1690	C	92.0	6.46	38	1000	B	268	56	17.7
MGC253H	552.5	43.2	51	8450	C	460.0	32.30	44	5000	B	1342	253	80.0
MGA114H	47.6	3.33	41	900	C	38.8	2.47	35	530	B	119	26	8.2
MGA164H	287.1	20.0	49	5410	C	235.5	14.84	42	3180	B	715	133	42.0
MGA214H	95.2	6.67	44	1800	C	77.7	4.95	37	1060	B	239	51	16.1
MGA284H	761.6	53.3	54	14400	C	621.5	39.56	47	8480	B	1907	353	111.7
MGB114H	54.2	3.71	41	840	C	44.3	2.74	35	520	B	143	30	9.5
MGB124H	108.6	7.41	44	1690	C	88.5	5.49	38	1040	B	286	55	17.4
MGB134H	163.3	11.12	46	2540	C	133.4	8.23	40	1570	B	429	82	25.9
MGB144H	217.6	14.83	47	3380	C	177.1	10.97	40	2090	B	572	108	34.1
MGB154H	272.2	18.53	48	4230	C	222.8	13.72	41	2620	B	715	133	42.0
MGB214H	108.4	7.41	44	1690	C	88.6	5.49	38	1045	B	286	60	19.0
MGB224H	217.3	14.83	47	3380	C	177.0	10.97	41	2090	B	572	110	34.8
MGB234H	326.6	22.24	49	5080	C	266.7	16.46	42	3140	B	858	164	51.8
MGB244H	435.1	29.65	50	6770	C	354.2	21.95	43	4190	B	1145	217	68.6
MGB254H	544.5	37.07	51	8470	C	445.6	27.43	44	5240	B	1431	266	84.1
MGB264H	650.2	44.48	52	10140	C	531.8	32.92	45	6270	B	1716	319.1	100.9
MGC114H	61.8	4.07	42	810	B	51.0	3.05	35	510	B	179	36	11.4
MGC124H	123.3	8.15	45	1620	B	101.3	6.10	38	1020	B	358	70	22.1
MGC134H	185.0	12.22	47	2430	B	152.1	9.16	40	1540	B	537	101	31.9
MGC144H	248.2	16.30	48	3240	B	204.8	12.21	41	2050	B	715	133	42.0
MGC214H	123.5	8.15	45	1620	B	102.1	6.10	38	1020	B	358	72	22.8
MGC224H	246.5	16.30	48	3240	B	202.7	12.21	41	2050	B	715	139	43.9
MGC234H	369.9	24.45	50	4860	B	304.1	18.31	43	3080	B	1073	201	63.5
MGC244H	496.4	32.60	50	6480	B	409.6	24.42	43	4110	B	1431	266	84.1
MGC254H	617.7	40.75	52	8100	B	510.4	30.52	45	5100	B	880	165	52.4

MG 800mm 12 pole Selection data

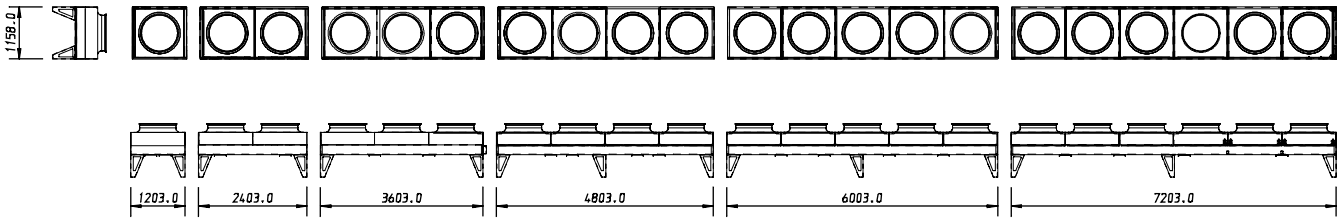
Model	Delta (High Speed)					Star (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating			
	kW	m^3/s	dB(A)	W		kW	m^3/s	dB(A)	W		m^2	dm^3	kg
MGA112H	25.5	2.52	30	310	B	22.7	2.01	23	170	A	60	13	4.1
MGA162H	153.5	15.09	37	1860	B	137.6	12.07	31	1050	A	358	69	21.8
MGA212H	50.9	5.03	33	620	B	45.4	4.02	26	350	A	119	26	8.2
MGA282H	407.5	40.24	42	4960	B	363.4	32.20	36	2800	A	953	183	58.3
MGB112H	28.5	2.67	29	300	B	25.6	2.15	23	170	A	72	17	5.4
MGB122H	56.2	5.34	32	610	B	50.8	4.30	26	340	A	143	30	9.5
MGB132H	84.5	8.01	34	920	B	76.3	6.45	28	520	A	215	42	13.3
MGB142H	114.4	10.68	35	1220	B	102.5	8.60	29	690	A	286	57	18.0
MGB152H	143.1	13.34	35	1530	B	128.6	10.75	30	860	A	358	69	21.8
MGB212H	56.9	5.34	32	610	B	51.2	4.30	26	345	A	143	33	10.4
MGB222H	112.3	10.68	35	1220	B	101.5	8.60	29	690	A	286	59	18.6
MGB232H	169.1	16.01	37	1840	B	152.7	12.90	31	1040	A	429	84	26.5
MGB242H	228.8	21.35	37	2450	B	205.0	17.20	32	1380	A	572	113	35.7
MGB252H	286.2	26.69	38	3060	B	257.1	21.50	33	1730	A	715	138	43.6
MGB262H	341.6	32.03	39	3660	B	306.9	25.80	34	2070	A	858	164.6	52.0
MGC112H	32.3	2.83	29	300	B	29.0	2.30	23	170	A	89	20	6.3
MGC142H	130.2	11.33	35	1210	B	117.5	9.21	29	680	A	358	69	21.8
MGC212H	64.5	5.66	32	600	B	58.1	4.61	26	340	A	179	40	12.6
MGC252H	322.6	28.32	39	3000	B	290.3	23.03	33	1700	A	894	171	54.2
MGA113H	30.9	2.27	30	320	B	26.4	1.74	23	180	A	89	20	6.3
MGA123H	62.2	4.54	33	640	B	53.3	3.48	26	370	A	179	36	11.4
MGA133H	90.2	6.81	34	960	B	78.3	5.22	28	560	A	268	54	17.1
MGA143H	124.6	9.08	35	1290	B	106.8	6.96	29	750	A	358	69	21.8
MGA153H	154.3	11.35	36	1610	B	133.1	8.71	30	940	A	447	86	27.2
MGA163H	187.1	13.62	37	1930	B	160.4	10.45	31	1130	A	537	102	32.2
MGA213H	61.7	4.54	33	640	B	52.7	3.48	26	370	A	179	40	12.6
MGA223H	124.3	9.08	35	1290	B	106.7	6.96	29	750	A	358	72	22.8
MGA233H	180.4	13.62	37	1930	B	156.7	10.45	31	1130	A	537	108	34.1
MGA243H	249.3	18.16	38	2580	B	213.7	13.93	32	1500	A	715	139	43.9
MGA253H	308.5	22.71	39	3230	B	266.1	17.41	33	1880	A	894	173	54.7
MGA263H	374.2	27.25	40	3870	B	320.7	20.89	34	2260	A	1073	204	64.5
MGA273H	432.0	31.79	41	4480	B	369.2	24.38	35	2590	A	1252	238	75.3
MGA283H	493.7	36.33	42	5120	B	421.9	27.86	36	2960	A	1430	271	85.7
MGB113H	34.4	2.41	30	310	A	29.7	1.88	23	180	A	107	23	7.3
MGB153H	172.7	12.06	37	1560	A	149.6	9.42	30	910	A	537	102	32.2
MGB213H	68.7	4.82	33	620	A	59.5	3.77	26	360	A	215	46	14.5
MGB263H	412.3	28.94	41	3720	A	356.9	22.61	34	2160	A	1280	243.1	76.9
MGC113H	39.0	2.60	29	300	A	34.0	2.05	23	170	A	134	28	8.8
MGC143H	156.5	10.40	34	1230	A	136.2	8.21	29	690	A	537	102	32.2
MGC213H	77.9	5.20	32	610	A	68.0	4.11	26	340	A	268	56	17.7
MGC253H	389.5	25.99	38	3050	A	339.9	20.53	33	1700	A	1342	253	80.0
MGA114H	34.2	2.06	30	320	B	28.2	1.57	23	190	A	119	26	8.2
MGA164H	203.0	12.33	38	1950	B	169.4	9.41	31	1160	A	715	133	42.0
MGA214H	68.4	4.11	33	650	B	56.5	3.14	26	380	A	239	51	16.1
MGA284H	547.5	32.88	43	5200	B	451.9	25.10	36	3040	A	1907	353.4	111.7
MGB114H	38.0	2.23	30	320	A	31.7	1.72	23	180	A	143	30	9.5
MGB124H	76.2	4.46	32	640	A	63.6	3.43	26	370	A	286	55	17.4
MGB134H	114.4	6.69	34	960	A	95.5	5.15	28	560	A	429	82	25.9
MGB144H	152.6	8.92	35	1290	A	127.4	6.87	29	750	A	572	108	34.1
MGB154H	188.8	11.15	36	1610	A	159.2	8.58	30	940	A	715	133	42.0
MGB214H	75.9	4.46	32	640	A	63.5	3.43	26	370	A	286	60	19.0
MGB224H	152.3	8.92	35	1290	A	127.2	6.87	29	750	A	572	110	34.8
MGB234H	228.8	13.38	37	1930	A	191.0	10.30	31	1130	A	858	164	51.8
MGB244H	305.2	17.84	38	2580	A	254.7	13.74	32	1500	A	1145	217	68.6
MGB254H	377.7	22.30	39	3220	A	318.3	17.17	33	1880	A	1431	266	84.1
MGB264H	455.4	26.77	40	3840	A	380.7	20.60	34	2220	A	1716	319.1	100.9
MGC114H	42.6	2.47	30	310	A	36.1	1.89	23	180	A	179	36	11.4
MGC124H	85.1	4.94	33	620	A	72.1	3.79	26	360	A	358	702	2.1
MGC134H	128.0	7.41	35	930	A	108.5	5.68	28	540	A	537	101	31.9
MGC144H	169.8	9.88	36	1240	A	144.6	7.57	29	720	A	715	133	42.0
MGC214H	85.1	4.94	33	620	A	72.2	3.79	26	360	A	358	72	22.8
MGC224H	170.2	9.88	36	1240	A	144.2	7.57	29	720	A	715	139	43.9
MGC234H	256.0	14.82	38	1870	A	217.0	11.36	31	1080	A	1073	201	63.5
MGC244H	339.6	19.76	38	2490	A	289.1	15.15	32	1440	A	1431	266	84.1
MGC254H	425.6	24.70	40	3100	A	361.0	18.93	33	1800	A	880	165	52.4

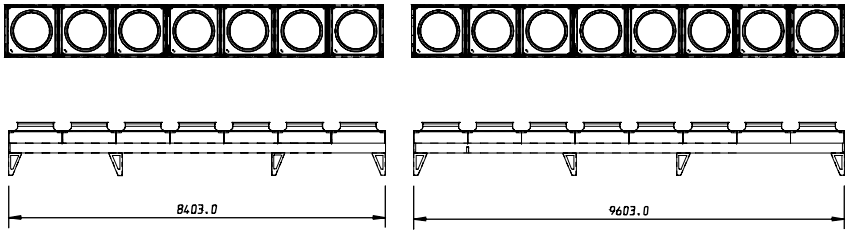
MG 910mm 6 pole Selection data

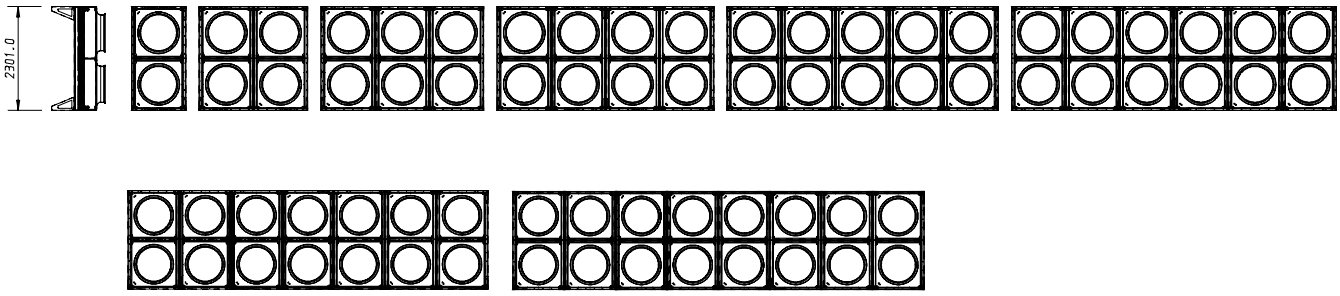
Model	Delta (High Speed)					Star (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating			
	kW	m^3/s	dB(A)	W		kW	m^3/s	dB(A)	W		m^2	dm^3	kg
MGA112H	45.4	6.27	53	2270	E	39.4	4.83	45	1530	E	60	13	4.1
MGB112H	52.2	6.83	52	2170	E	43.7	5.31	45	1490	E	72	17	5.4
MGA113H	55.5	5.64	54	2370	E	45.0	4.15	46	1570	E	89	20	6.3
MGC112H	60.0	7.34	52	2060	E	50.6	5.78	45	1450	D	89	20	6.3
MGA114H	62.2	5.22	56	2420	E	48.5	3.74	47	1590	D	119	26	8.2
MGB113H	64.1	6.26	53	2270	E	51.6	4.67	45	1540	D	107	23	7.3
MGB114H	69.8	5.98	52	2340	E	56.2	4.25	46	1560	D	143	30	9.5
MGC113H	74.2	6.86	52	2160	D	60.8	5.25	45	1500	D	134	28	8.8
MGC114H	80.8	6.55	52	2220	D	65.7	4.85	45	1530	D	179	36	11.4
MGA212H	90.9	12.54	56	4550	E	78.7	9.67	48	3060	E	119	26	8.2
MGB212H	104.4	13.66	55	6510	E	87.3	10.63	48	4490	E	143	33	10.4
MGB122H	104.8	13.66	55	4340	E	87.7	10.63	48	2990	E	143	30	9.5
MGA213H	110.9	11.27	57	4740	E	88.4	8.30	49	3140	E	179	40	12.6
MGA123H	111.2	11.27	57	4740	E	88.5	8.30	49	3140	E	179	36	11.4
MGC212H	120.0	15	55	4130	E	101.3	94	48	2910	D	179	40	12.6
MGA214H	124.4	10	58	4850	E	99.9	7.47	50	3180	D	239	51	16.1
MGB213H	128.2	12.52	56	6830	E	103.2	9.34	48	4620	E	215	46	14.5
MGB214H	144.3	11.96	55	7040	E	114.4	8.50	49	4700	E	286	60	19
MGB124H	145.5	11.96	55	4690	D	116.0	8.50	49	3130	D	286	55	17.4
MGC213H	148.4	14	55	4320	D	121.7	10.49	48	3000	D	268	56	17.7
MGB132H	157.5	20.49	57	6510	E	131.5	15.94	49	4490	E	215	42	13.3
MGC214H	166.5	13.10	55	4450	D	135.1	9.70	48	3060	D	358	72	22.8
MGC124H	166.9	13.10	55	4450	D	135.4	9.70	48	3060	D	358	70	22.1
MGA133H	168.9	16.91	59	7110	E	135.9	12.46	51	4710	E	268	54	17.1
MGB142H	204.0	27.32	58	8680	E	168.9	21.25	50	5990	E	286	57	18
MGB222H	209.6	27.32	58	8680	E	175.4	21.25	51	5990	E	286	59	18.6
MGB134H	211.3	17.93	57	7040	D	169.5	12.74	51	4700	D	429	82	25.9
MGA223H	222.4	22.54	60	9490	E	177.0	16.61	52	6290	E	358	72	22.8
MGA143H	225.6	22.54	60	9490	E	180.7	16.61	52	6290	E	358	69	21.8
MGC134H	243.2	19.64	57	6680	D	197.6	14.54	50	4590	D	537	101	31.9
MGB152H	260.5	34.15	59	10850	E	216.6	26.57	51	7490	E	358	69	21.8
MGA153H	281.3	28.18	61	11860	E	226.7	20.76	53	7860	E	447	86	27.2
MGB144H	282.8	23.91	58	9390	D	225.9	16.99	51	6260	D	572	108	34.1
MGB224H	291.0	23.91	58	9390	D	232.1	16.99	52	6260	D	572	110	34.8
MGC152H	299.9	36.69	59	10320	E	253.2	28.88	52	7260	E	448	86	27.2
MGB162H	313.1	40.98	60	13020	E	261.9	31.88	52	8990	E	429	82	25.99
MGB232H	314.9	40.98	60	13020	E	263.0	31.88	52	8990	E	429	84	26.5
MGC144H	323.1	26.19	58	8910	D	264.6	19.39	50	6120	D	715	133	42
MGC224H	333.9	26.19	58	8910	D	270.7	19.39	51	6120	D	715	139	43.9
MGA163H	334.1	33.81	62	14230	E	265.8	24.91	53	9430	E	537	102	32.2
MGA233H	337.8	33.81	62	14230	E	271.9	24.91	54	9430	E	537	108	34.1
MGB154H	351.0	29.89	59	11730	E	282.5	21.24	52	7830	D	715	133	42
MGA182H	363.4	50.17	62	18220	E	314.8	38.66	54	12260	E	480	91	29
MGC153H	371.1	34.30	59	10820	D	304.2	26.25	51	7520	E	671	117	39.95
MGB163H	384.7	37.57	60	13670	E	309.6	28.01	53	9250	E	644	122	38.4
MGA173H	388.3	39.45	63	16610	E	315.2	29.06	54	11000	E	627	119	37.4
MGC154H	404.1	32.74	59	11140	D	328.6	24.24	51	7660	E	894	166	52.2
MGB242H	408.1	54.64	61	17360	E	337.9	42.51	53	11990	E	572	113	35.7
MGB164H	419.0	35.87	60	14080	E	337.4	25.49	53	9400	E	858	159	50.2
MGB234H	430.3	35.22	61	14050	D	348.5	25.49	53	9400	D	858	164	51.8
MGA183H	443.8	45.08	64	18980	E	360.3	33.21	55	12580	E	716	135	42.6
MGA243H	451.2	45.08	63	18980	E	361.4	33.21	55	12580	E	715	139	43.9
MGA184H	497.6	41.79	65	19410	E	388.3	29.94	57	12730	E	954	176	55.6
MGC234H	501.2	39.29	60	13370	D	406.3	29.09	52	9190	D	1073	201	63.5
MGB252H	521.0	68.30	61	21700	E	433.2	53.14	54	14980	E	715	138	43.6
MGA253H	562.5	56.36	64	23720	E	453.3	41.52	55	15720	E	894	173	54.7
MGB244H	576.4	46.96	62	18730	D	464.7	33.98	54	12530	D	1145	217	68.6
MGC252H	599.9	73.38	61	20650	E	506.3	57.77	54	14530	E	894	172	54.2
MGB262H	626.1	81.96	63	26040	E	523.8	63.76	55	26940	E	858	165	52.0
MGC244H	665.2	52.39	60	17830	D	543.7	38.78	53	12250	D	1431	266	84.1
MGA263H	668.2	67.63	64	28470	E	531.5	49.82	56	18870	E	1073	204	64.5
MGB254H	714.9	58.70	63	23420	D	580.2	42.48	55	15670	D	1431	266	84.1
MGA282H	726.8	100.35	65	36440	E	629.6	77.33	57	24530	E	953	183	58.2
MGC253H	742.2	68.61	61	21640	D	608.4	52.50	54	9020	E	1342	253	80
MGB263H	769.4	75.15	63	27340	E	619.3	56.02	55	18510	E	1280	243	76.8

MG Model Layout

MGA







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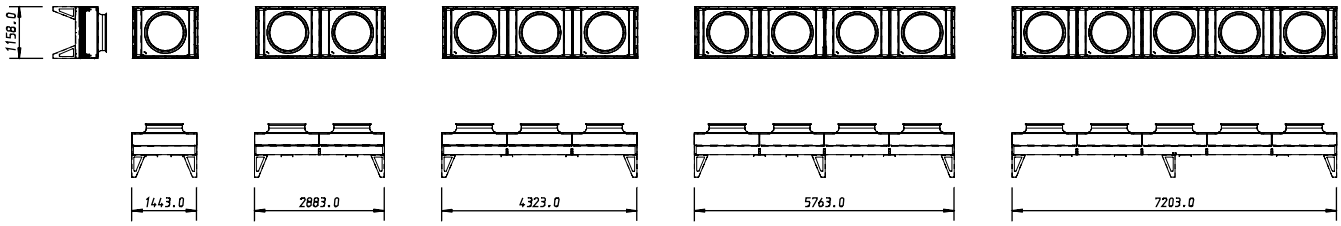

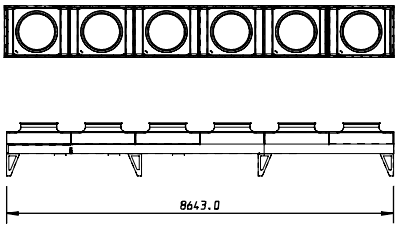

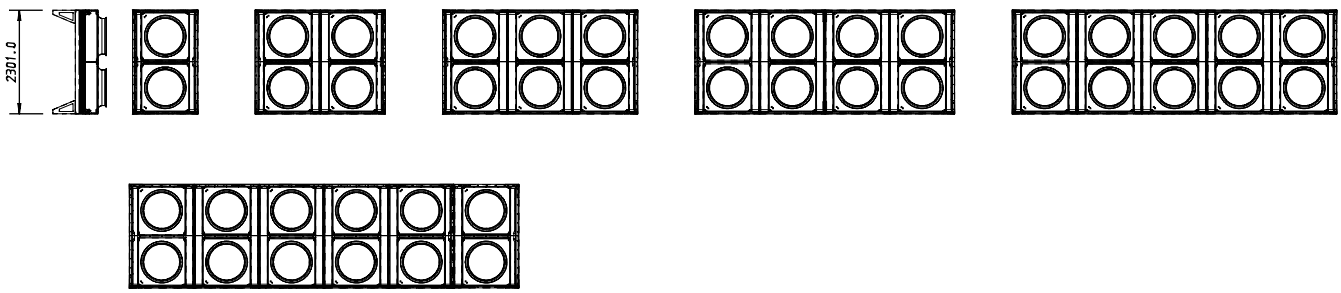

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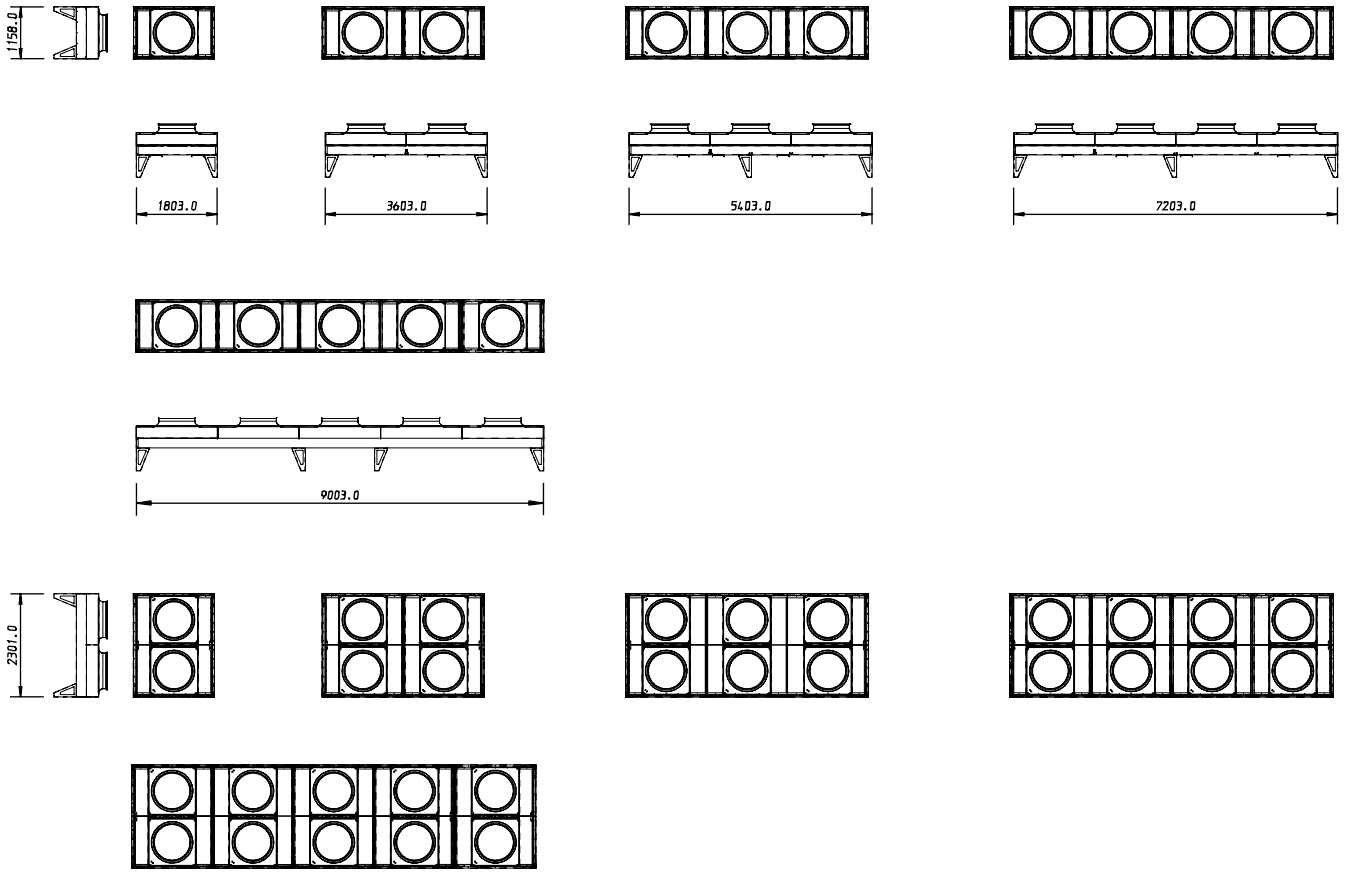
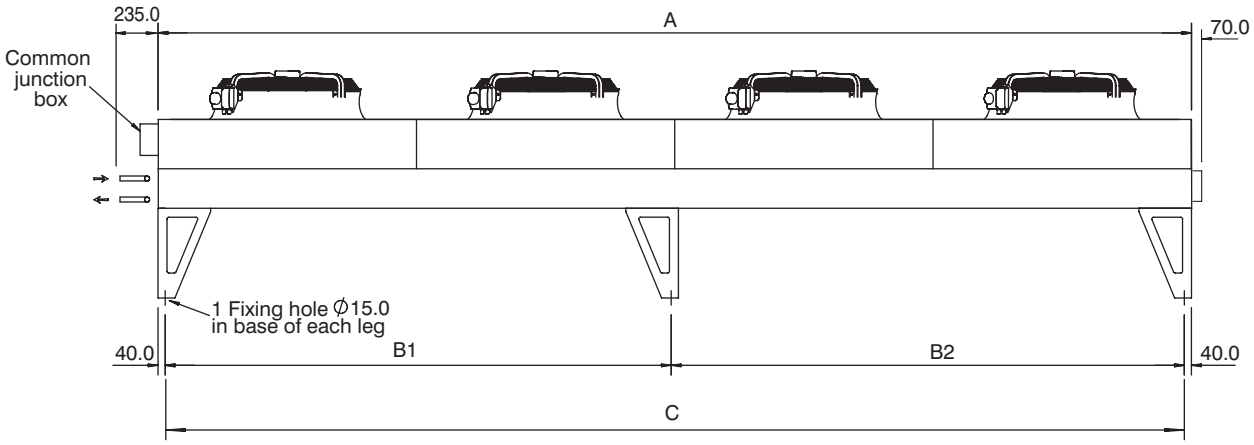


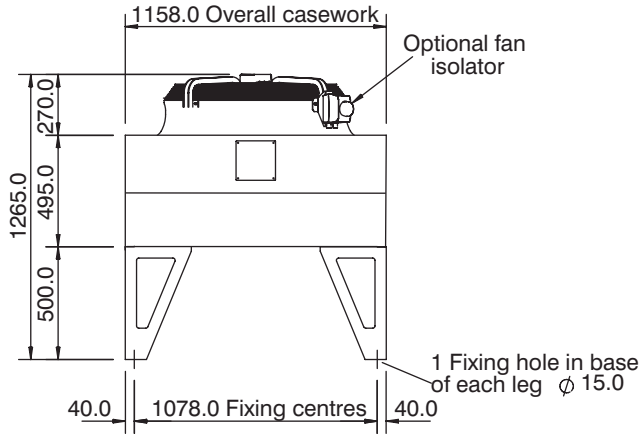
MG Model Drawings

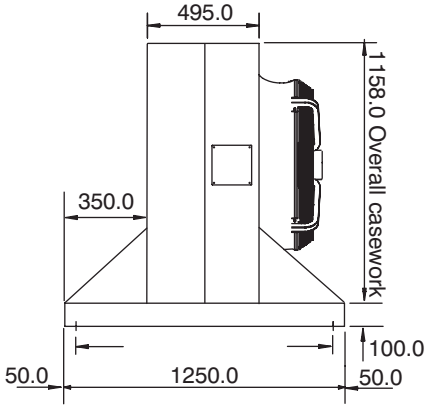


Horizontal Unit

Vertical Unit

1 bank

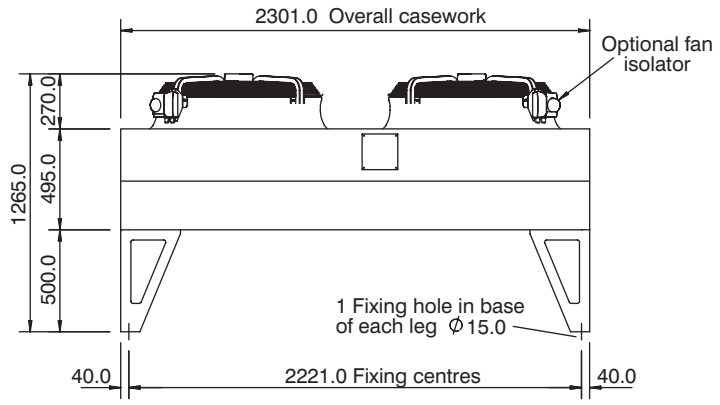


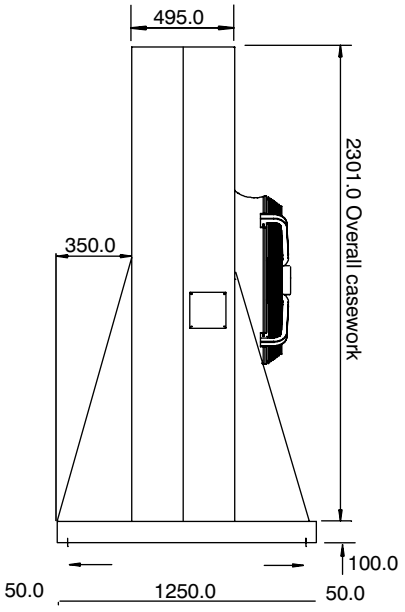


Horizontal Unit

Vertical Unit

1 bank





Notes:

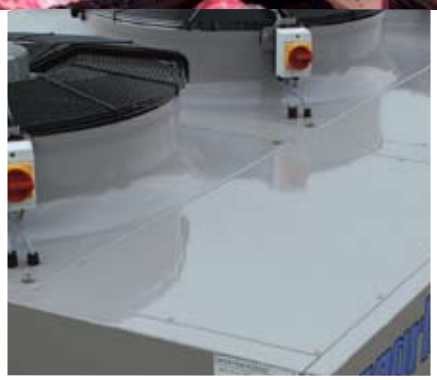
All dimensions in mm. Common junction box will vary in size and position depending on the control option required.

Dimensions

Model		Fans per bank	Coil rows	A	B1	B2	C	Total Unit Dry Weight			
								* 1 bank		* 2 bank	
				mm	mm	mm	mm	AL	CU	AL	AL
								kg	kg	kg	kg
MGA	*12	1	2	1203	—	—	1123	159.8	183.8	280.4	330.4
MGA	*13	1	3	1203	—	—	1123	173.8	210.8	309.4	383.4
MGA	*14	1	4	1203	—	—	1123	187.8	237.8	337.4	436.4
MGA	*22	2	2	2403	—	—	2323	269.7	319.7	483.6	582.6
MGA	*23	2	3	2403	—	—	2323	298.7	372.8	540.6	688.6
MGA	*24	2	4	2403	—	—	2323	325.7	424.8	597.6	597.6
MGA	*32	3	2	3603	—	—	3523	379.6	453.6	686.9	834.9
MGA	*33	3	3	3603	—	—	3524	422.6	533.6	771.9	993.9
MGA	*34	3	4	3603	—	—	3525	465.6	613.6	855.9	1152.9
MGA	*42	4	2	4803	2342	2382	4723	499.5	598.5	899.1	1097.1
MGA	*43	4	3	4803	2342	2382	4723	557.5	705.5	1012.1	1309.1
MGA	*44	4	4	4803	2342	2382	4723	606.5	811.5	1126.1	1521.1
MGA	*52	5	2	6003	2942	2982	5923	614.3	738.3	1108.9	1355.9
MGA	*53	5	3	6003	2942	2982	5923	685.3	870.3	1250.9	1621.9
MGA	*54	5	4	6003	2942	2982	5923	755.3	1002.3	1391.9	1885.9
MGA	*62	6	2	7203	3542	3582	7123	720.3	868.3	1303.6	1600.6
MGA	*63	6	3	7203	3542	3582	7123	805.3	1027.3	1474.6	1919.6
MGA	*64	6	4	7203	3542	3582	7123	889.3	1186.3	1644.6	2237.6
MGA	*72	7	2	8403	2341	2341	8323	—	—	1515.2	1861.5
MGA	*73	7	3	8403	2341	2341	8323	—	—	1713.3	2233.8
MGA	*74	7	4	8403	2341	2341	8323	—	—	1911.5	2603.9
MGA	*82	8	2	9603	3521	3521	9523	—	—	1721.4	2117.2
MGA	*83	8	3	9603	3521	3521	9523	—	—	1947.6	2642.8
MGA	*84	8	4	9603	3521	3521	9523	—	—	2174.2	2965.6
MGB	*12	1	2	1443	—	—	1363	175.5	204.5	309.0	368.0
MGB	*13	1	3	1443	—	—	1363	191.5	236.5	342.0	432.0
MGB	*14	1	4	1443	—	—	1363	209.5	268.5	377.0	496.0
MGB	*22	2	2	2883	—	—	2803	298.6	357.6	535.7	654.7
MGB	*23	2	3	2883	—	—	2803	333.6	422.6	602.7	780.7
MGB	*24	2	4	2883	—	—	2803	366.6	485.6	670.7	908.7
MGB	*32	3	2	4323	—	—	4243	422.7	511.7	761.4	939.4
MGB	*33	3	3	4323	—	—	4243	473.7	606.7	864.4	1131.4
MGB	*34	3	4	4323	—	—	4243	524.7	702.7	965.4	1321.4
MGB	*42	4	2	5763	2822	2862	5683	556.9	675.9	999.1	1244.1
MGB	*43	4	3	5763	5822	2862	5683	624.9	802.9	1134.1	1490.1
MGB	*44	4	4	5763	5822	2862	5683	692.9	930.9	1271.1	1745.1
MGB	*52	5	2	7203	3542	3582	7123	685.9	833.9	1233.3	1529.3
MGB	*53	5	3	7203	3542	3582	7123	769.9	992.9	1402.3	1847.3
MGB	*54	5	4	7203	3542	3582	7123	855.9	1151.9	1572.3	2165.3
MGB	*62	6	2	8643	2821	2861	8563	—	—	1521.3	1880.7
MGB	*63	6	3	8643	2821	2861	8563	—	—	1724.7	2258.3
MGB	*64	6	4	8643	2821	2861	8563	—	—	2132	2639.8
MGC	*12	1	2	1803	—	—	1723	195.8	232.8	344.6	418.6
MGC	*13	1	3	1803	—	—	1723	217.8	273.8	386.6	497.6
MGC	*14	1	4	1803	—	—	1723	238.8	312.8	429.6	577.6
MGC	*22	2	2	3603	—	—	3523	341.2	415.2	606.9	754.9
MGC	*23	2	3	3603	—	—	3523	383.2	494.2	691.9	913.9
MGC	*24	2	4	3603	—	—	3523	426.2	574.2	776.9	1072.9
MGC	*32	3	2	5403	2642	2682	5323	499.5	610.5	886.7	1108.7
MGC	*33	3	3	5403	2642	2682	5323	563.5	729.5	1012.7	1346.7
MGC	*34	3	4	5403	2642	2682	5323	627.5	849.5	1140.7	1585.7
MGC	*42	4	2	7203	3542	3582	7123	641.1	789.1	1141.5	1437.5
MGC	*43	4	3	7203	3542	3582	7123	725.1	947.1	1310.5	1755.5
MGC	*44	4	4	7203	3541	3581	7120	—	—	1836.5	2578
MGC	*52	5	2	9003	3541	3581	8923	—	—	1413	1787.7
MGC	*53	5	3	9003	3541	3581	8923	—	—	1624	2181
MGC	*54	5	4	9003	3541	3581	8923	—	—	1836.5	2578

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).



MM / MX

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 "air-volume 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 6 fans and 2 to 4 coil rows.

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

Due to the wide variety of condensers available only a selection of the range is available 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.

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

Range	MM or MX
Module length	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
Orientation	H = Horizontal, V = Vertical
Fans type	N8 (800mm), Q8 (800mm), N9 (910mm) 09 (910mm), 99 (990mm)
Motor speed	06, 08, 12 or EC
Power	D = Delta, S = Star, 2 = 2 Speed, Variable speed
Coil material	AL = Copper tubes/ Aluminium fins, AV = Copper tubes/ Vinyl coated aluminium fins CU = Copper tubes/ Copper fins, ET = Copper tubes/ Copper fins electro-tinned

Note: Isolators and control box shown are additional extras

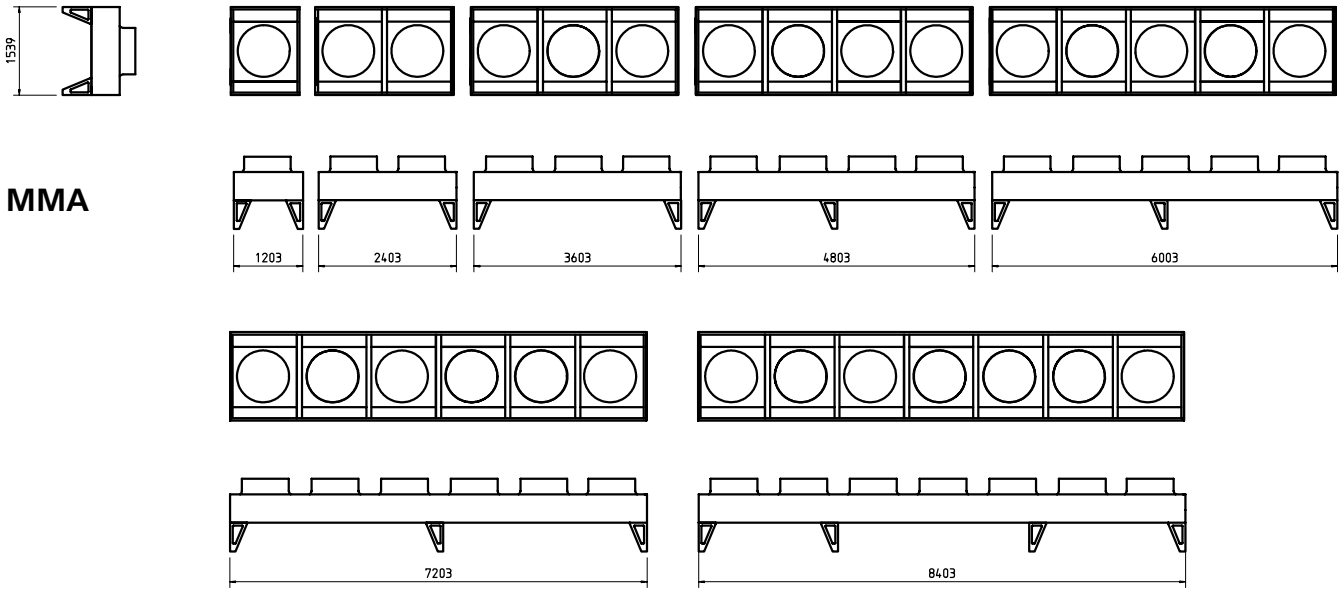
MM/ MX Selection Data

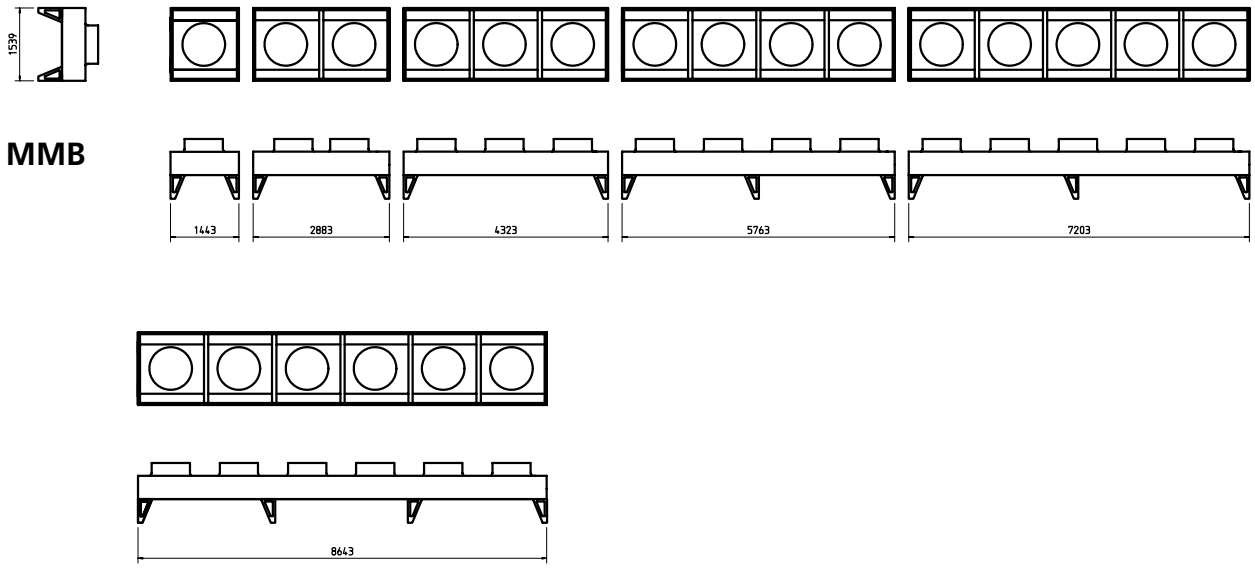
Model	Delta (High Speed)					Star (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating			
	kW	m^3/s	dB(A)	W		kW	m^3/s	dB(A)	W		m^2	dm^3	kg
800 mm 6 Pole													
MMA112H	47.9	5.85	48	1560	D	42.5	4.78	44	1070	D	80	20	6.3
MMB113H	67.4	5.65	48	1580	D	58.8	4.57	44	1070	C	143	31	9.8
MMC114H	86.5	5.67	48	1570	C	73.8	4.55	44	1070	C	239	48	15.2
MMA122H	96.2	11.70	51	3130	D	85.3	9.55	47	2140	D	159	34	10.7
MMB123H	136.5	11.30	51	3160	D	118.1	9.15	46	2150	C	286	56	17.7
MMC124H	173.9	11.34	51	3140	C	148.0	9.10	47	2150	C	477	93	29.4
MMB133H	204.4	16.95	53	4750	D	177.4	13.72	48	3230	C	429	84	26.5
MMC134H	260.2	17.01	53	4710	C	220.3	13.64	48	3220	C	715	136	43.0
MMC143H	305.5	23.83	54	6160	C	262.4	19.12	50	4250	C	715	136	43.0
MMC144H	348.4	22.69	54	6280	C	296.3	18.19	49	4300	C	954	177	55.9
MMB154H	391.4	26.85	55	8090	C	333.6	21.48	49	5470	C	954	184	58.1
MMC154H	432.7	28.36	55	7850	C	369.1	22.74	50	5350	C	1192	221	69.8
MMB164H	468.4	32.22	56	9660	C	397.9	25.78	50	6540	C	1145	217	68.7
MMA174H	493.2	35.55	57	11620	D	420.1	28.3	51	7700	C	1113	212	66.9
MMA184H	563.7	40.63	58	13280	D	480.1	32.4	52	8800	C	1272	241	76.3
MXA112H	60.3	6.38	48	1580	D	52.0	5.10	44	1040	C	119	26	8.2
MXB113H	82.7	6.16	48	1510	C	70.8	4.91	44	1050	C	215	44	13.9
MXC114H	102.9	6.12	48	1500	C	86.5	4.85	44	1050	B	358	72	22.8
MXA122H	120.8	12.76	51	3160	D	103.9	10.21	47	2090	C	239	50	15.8
MXB123H	163.2	12.32	51	3020	C	139.0	9.82	47	2100	C	429	84	26.5
MXC124H	204.3	12.25	51	3010	C	171.5	9.70	47	2100	B	715	134	42.3
MXB133H	244.8	18.48	53	4540	C	208.6	14.73	48	3150	C	644	121	38.2
MXC134H	306.5	18.37	53	4520	C	257.3	14.55	48	3150	B	1073	201	63.5
MXC143H	353.0	25.37	54	5940	C	300.4	20.13	49	4170	B	1073	200	63.2
MXC144H	412.7	24.49	54	6020	C	346.4	19.40	49	4200	B	1431	263	83.1
MXB154H	471.8	29.52	55	7690	C	399.3	23.52	50	5310	B	1431	263	83.1
MXC154H	514.3	30.61	55	7500	C	432.5	24.2	50	5250	B	1789	328	103.5
MXB164H	563.6	35.43	56	9180	C	476.6	28.2	52	6360	B	1717	314	99.3
MXA174H	604.9	39.70	57	10990	C	512.6	31.8	52	7490	C	1669	308	97.5
MXA184H	691.3	45.37	58	12560	C	585.8	36.4	53	8560	C	1907	352	111.2
910mm 8 Pole													
MMA112H	53.5	7.08	52	2110	E	46.9	5.55	45	1470	D	80	20	6.3
MMB113H	74.1	7.00	52	2130	D	63.1	5.38	45	1490	D	143	31	9.8
MMC114H	94.4	7.15	52	2100	D	78.4	5.51	45	1480	C	239	48	15.2
MMA122H	107.7	14.16	55	4230	E	94.3	11.10	48	2950	D	159	34	10.7
MMB123H	149.5	14.01	55	4260	D	126.7	10.76	48	2980	D	286	56	17.7
MMC124H	189.3	14.31	55	4200	C	157.2	11.01	48	2960	C	477	93	29.4
MMB133H	223.8	21.01	57	6400	D	190.2	16.15	49	4470	D	429	84	26.5
MMC134H	283.8	21.46	57	6300	C	234.1	16.52	49	4440	C	715	136	43
MMC143H	336.2	29.66	58	8190	D	286.7	23.24	51	5800	C	715	136	43
MMC144H	379.4	28.62	58	8410	C	314.7	22.03	50	5920	C	954	177	55.9
MMB154H	419.6	33.49	59	10990	D	345.2	25.08	51	7610	C	954	184	58.1
MMC154H	471.9	35.77	59	10500	D	391.9	27.53	51	7400	C	1192	221	69.8
MMB164H	502.9	40.19	60	13140	D	411.8	30.09	52	9120	C	1145	217	68.7
MMA174H	521.1	43.39	61	16030	D	421.8	31.77	54	10850	D	1113	212	66.9
MMA184H	595.5	49.59	62	18320	D	482.1	36.30	55	12400	D	1272	241	76.3
MXA112H	67.6	7.78	52	1960	D	59.2	6.21	46	1400	D	119	26	8.2
MXB113H	91.4	7.68	52	1990	C	78.3	6.08	46	1420	C	215	44	13.9
MXC114H	112.3	7.75	52	1970	C	95.3	6.15	46	1410	C	358	72	22.8
MXA122H	136.1	15.57	55	3930	D	118.5	12.43	49	2810	D	239	50	15.8
MXB123H	181.2	15.35	55	3980	C	154.1	12.15	48	2840	C	429	84	26.5
MXC124H	223.4	15.49	55	3950	C	188.9	12.30	48	2820	C	715	134	42.3
MXB133H	272.0	23.03	57	5980	C	231.3	18.23	50	4260	C	644	121	38.2
MXC134H	335.2	23.24	57	5930	C	283.4	18.45	50	4240	C	1073	201	63.5
MXC143H	400.3	31.71	58	7740	C	337.4	25.45	51	5560	C	1073	200	63.2
MXC144H	451.0	30.99	58	7910	C	382.1	24.60	51	5650	C	1431	263	83.1
MXB154H	514.2	37.26	58	10200	C	431.7	29.13	51	7240	C	1431	263	83.1
MXC154H	561.7	38.74	59	9850	C	476.4	30.75	52	7050	C	1789	328	103.5
MXB164H	614.2	44.71	60	12240	C	515.1	34.96	53	8640	C	1717	314	99.3
MXA174H	659.5	50.08	61	14700	D	544.6	38.55	53	10360	C	1669	308	97.5
MXA184H	753.7	57.24	62	16800	D	622.4	44.05	54	11840	C	1907	352	111.2

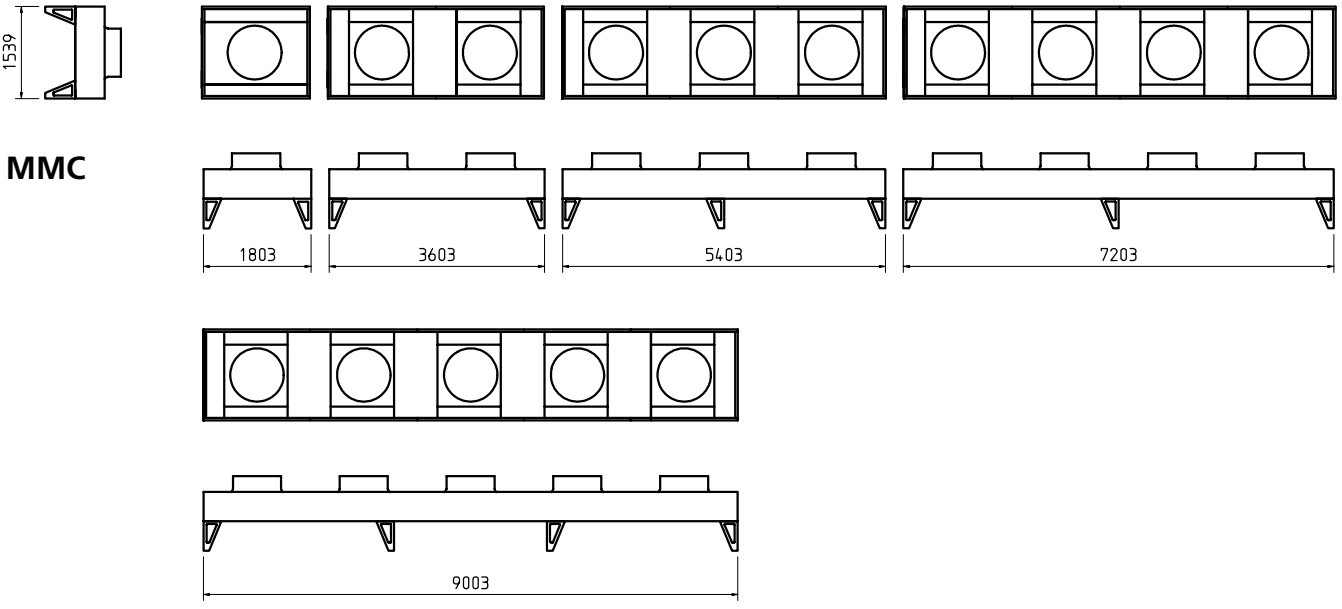
MM/ MX Selection Data

Model	Delta (High Speed)					Star (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating			
	kW	m^3/s	dB(A)	W		kW	m^3/s	dB(A)	W		m^2	dm^3	kg
800 mm 8 Pole													
MMA112H	41.3	4.46	41	790	C	35.0	3.40	34	490	B	80	20	6.3
MMB113H	56.7	4.32	41	790	B	47.3	3.29	34	500	B	143	31	9.8
MMC114H	71.0	4.38	41	790	B	58.1	3.33	34	490	A	239	48	15.2
MMA122H	83.0	8.91	44	1580	C	70.2	6.81	37	990	B	159	34	10.7
MMB123H	113.6	8.65	44	1590	B	94.6	6.58	37	1000	B	286	56	17.7
MMC124H	142.4	8.76	44	1580	B	116.5	6.65	37	990	A	477	93	29.4
MMB133H	170.8	12.97	46	2380	B	142.6	9.88	39	1500	B	429	84	26.5
MMC134H	211.8	13.15	45	2370	B	173.0	9.98	39	1490	A	715	136	43
MMC143H	254.5	18.24	46	3130	B	212.8	13.91	40	1960	B	715	136	43
MMC144H	285.1	17.53	46	3170	B	233.1	13.31	40	1990	A	954	177	55.9
MMB154H	318.3	20.44	48	4020	B	262.3	15.61	41	2550	B	954	184	58.1
MMC154H	355.2	21.91	47	3950	B	290.7	16.63	41	2450	A	1192	221	69.8
MMB164H	379.2	24.53	50	4800	B	312.6	18.73	42	3060	B	1145	217	68.7
MMA174H	398.5	26.61	50	5740	C	329.1	20.30	44	3640	B	1113	212	66.9
MMA184H	455.4	30.42	51	6560	C	376.1	23.20	45	4160	B	1272	241	76.3
MXA112H	50.8	4.80	41	750	C	43.4	3.69	34	470	B	119	26	8.2
MXB113H	68.8	4.71	41	760	B	57.1	3.60	34	480	A	215	44	13.9
MXC114H	83.8	4.72	41	750	A	68.4	3.62	34	480	A	358	72	22.8
MXA122H	101.3	9.60	43	1500	C	86.5	7.39	37	950	B	239	50	15.8
MXB123H	135.1	9.41	44	1520	B	112.8	7.20	37	960	A	429	84	26.5
MXC124H	167.0	9.44	43	1510	A	135.7	7.23	37	960	A	715	134	42.3
MXB133H	202.7	14.12	45	2290	B	169.3	10.81	39	1450	A	644	121	38.2
MXC134H	251.0	14.17	45	2270	A	203.6	10.85	39	1440	A	1073	201	63.5
MXC143H	292.6	19.35	47	3180	B	245.5	14.91	39	1890	A	1073	200	63.2
MXC144H	335.5	18.89	46	3030	A	274.0	14.47	40	1930	A	1431	263	83.1
MXB154H	386.0	22.81	47	3900	B	315.1	17.37	41	2450	A	1431	263	83.1
MXC154H	419.1	23.61	47	3750	A	342.2	18.09	41	2400	A	1789	328	103.5
MXB164H	460.5	27.37	49	4680	B	377.8	20.84	42	2940	A	1717	314	99.3
MXA174H	496.2	30.68	50	5530	B	406.4	23.29	43	3430	A	1669	308	97.5
MXA184H	567.0	35.06	51	6320	B	464.4	26.61	44	3920	A	1907	352	111.2
800 mm 12 Pole													
MMA112H	30.2	2.81	29	300	B	27.0	2.27	23	170	A	80	20	6.3
MMB113H	40.2	2.70	29	300	A	35.1	2.15	23	170	A	143	31	9.8
MMC114H	48.5	2.72	29	300	A	41.1	2.10	23	170	A	239	48	15.2
MMA122H	60.7	5.62	32	610	B	54.3	4.54	26	340	A	159	34	10.7
MMB123H	80.7	5.41	32	600	A	70.4	4.29	26	340	A	286	56	17.7
MMC124H	97.2	5.43	32	610	A	82.3	4.20	26	340	A	477	93	29.4
MMB133H	121.2	8.11	34	900	A	105.7	6.44	28	520	A	429	84	26.5
MMC134H	146.1	8.15	34	910	A	123.3	6.30	28	520	A	715	136	43
MMC143H	181.0	11.49	35	1210	A	155.8	9.04	29	680	A	715	136	43
MMC144H	194.7	10.86	34	1220	A	164.8	8.41	29	690	A	954	177	55.9
MMB154H	217.7	12.64	36	1550	A	186.5	9.88	30	880	A	954	184	58.1
MMC154H	242.6	13.58	36	1500	A	205.4	10.51	30	850	A	1192	221	69.8
MMB164H	261.3	15.17	37	1860	A	223.4	11.85	31	1020	A	1145	217	68.7
MMA174H	276.6	16.59	38	2170	A	236.7	12.88	32	1260	A	1113	212	66.9
MMA184H	276.6	16.59	39	2480	A	270.5	14.72	33	1440	A	1272	241	76.3
MXA112H	37.5	3.04	29	300	A	33.4	2.45	23	160	A	119	26	8.2
MXB113H	48.7	2.96	29	300	A	42.0	2.33	23	160	A	215	44	13.9
MXC114H	56.3	2.92	29	300	A	47.4	2.28	23	160	A	358	72	22.8
MXA122H	75.3	6.07	32	600	A	67.1	4.89	26	330	A	239	50	15.8
MXB123H	97.9	5.92	32	600	A	84.3	4.67	26	330	A	429	84	26.5
MXC124H	114.0	5.85	32	600	A	94.5	4.56	26	330	A	715	134	42.3
MXB133H	145.9	8.88	34	900	A	125.5	7.00	28	500	A	644	121	38.2
MXC134H	170.3	8.77	34	900	A	142.0	6.84	28	500	A	1073	201	63.5
MXC143H	212.2	12.16	34	1200	A	181.1	9.58	29	660	A	1073	200	63.2
MXC144H	225.7	11.69	35	1210	A	189.9	9.12	29	670	A	1431	263	83.1
MXB154H	261.8	14.11	35	1520	A	221.0	10.95	30	850	A	1431	263	83.1
MXC154H	281.3	14.62	36	1500	A	237.1	11.41	30	800	A	1789	328	103.5
MXB164H	313.2	16.93	36	1800	A	263.1	13.14	31	1020	A	1717	314	99.3
MXA174H	339.3	19.01	37	2100	A	287.0	14.71	32	1190	A	1669	308	97.5
MXA184H	387.7	21.73	38	2400	A	328.0	16.81	33	1360	A	1907	352	111.2

MM Model Layout







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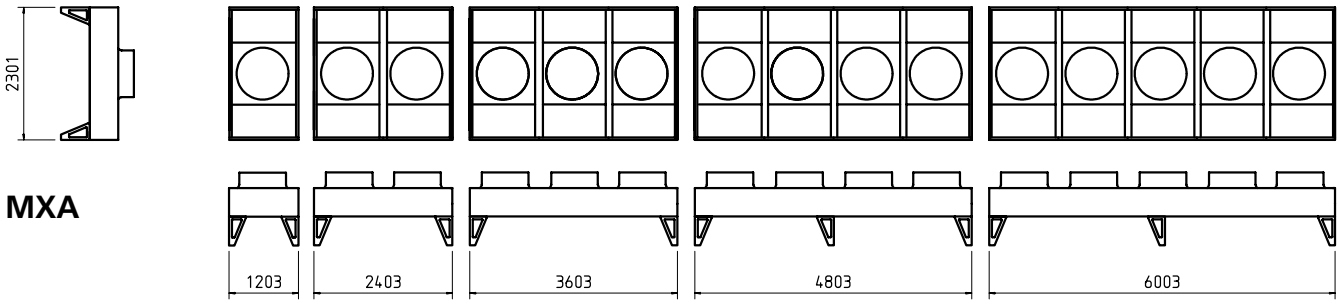

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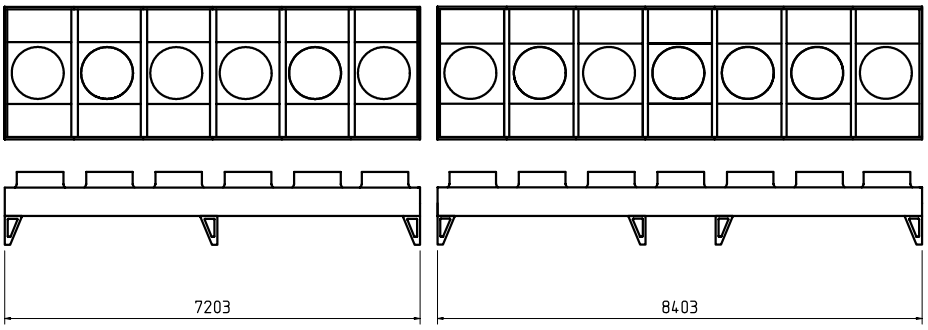

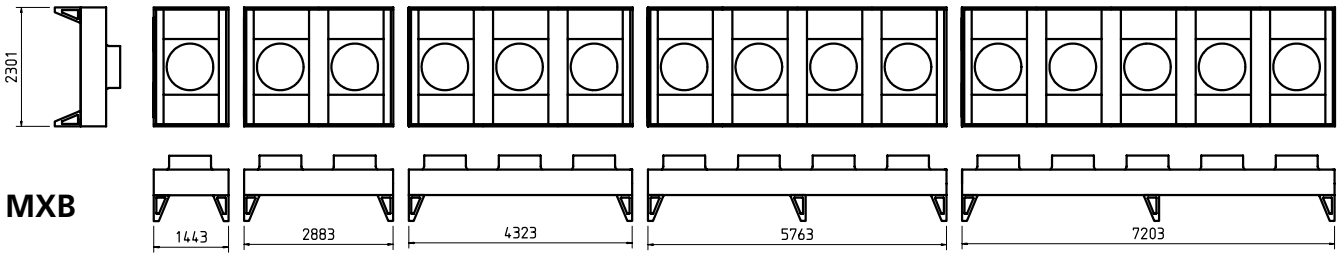

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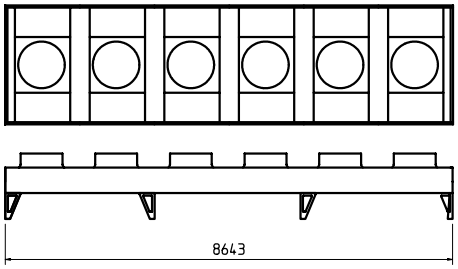

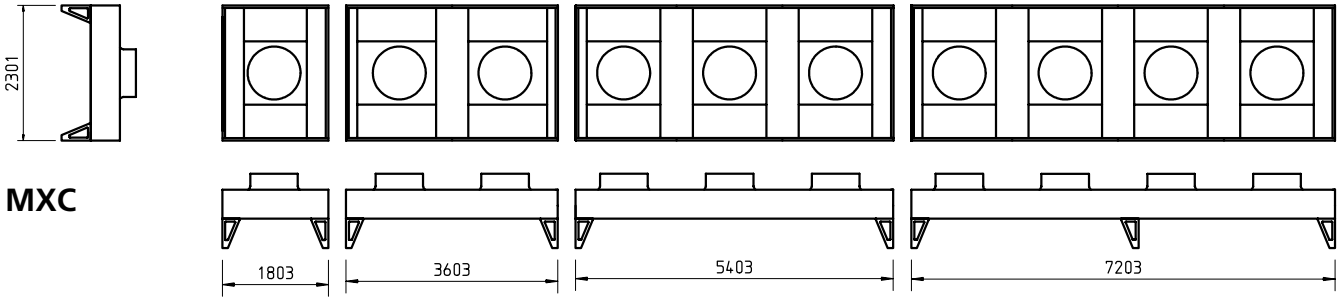

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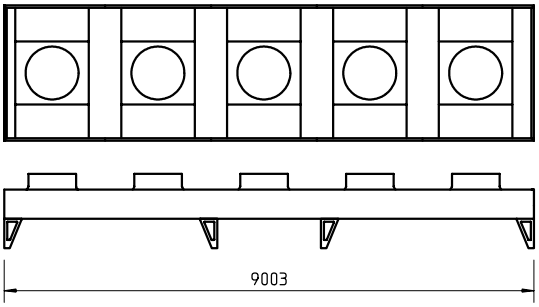
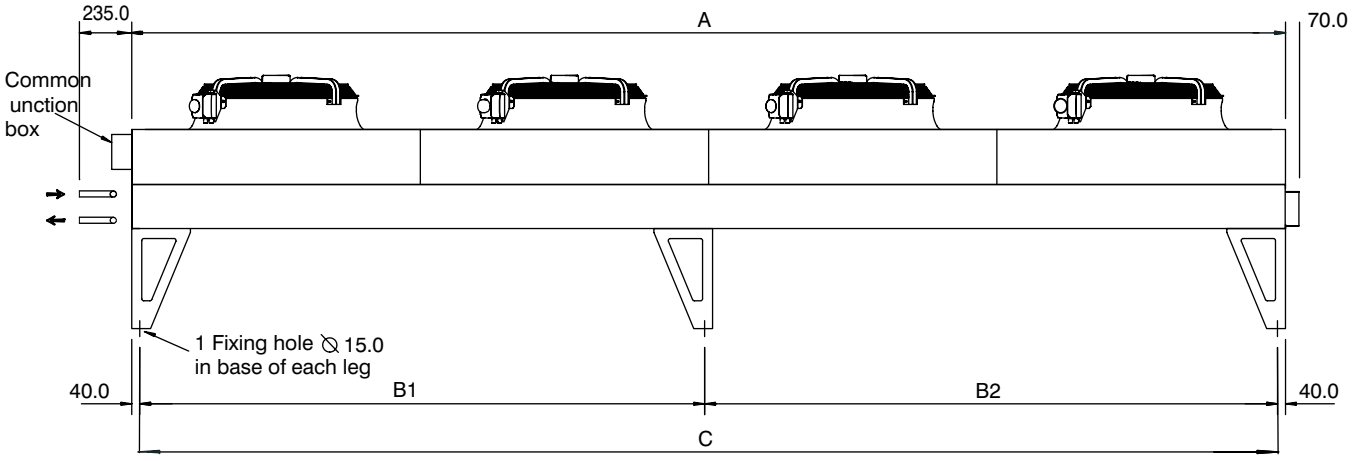
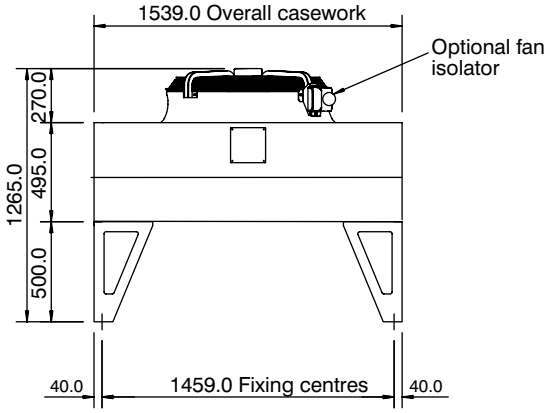


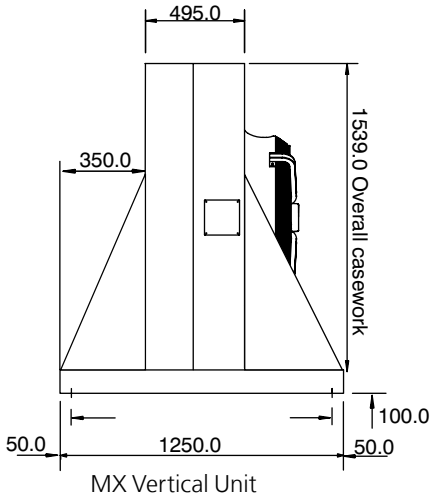
Model Drawings



MM Horizontal Unit

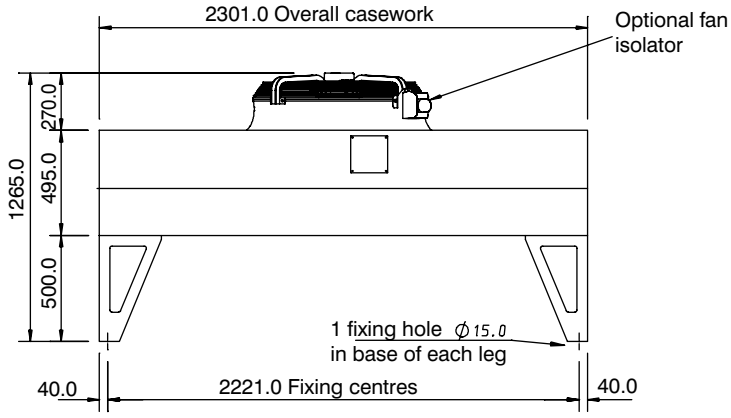
MM Vertical Unit

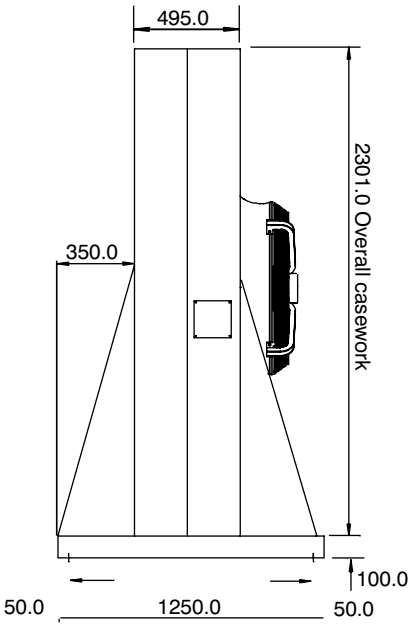




MX Vertical Unit

MX Horizontal Unit





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

Dimensions

Model MM/MX		Fans per bank	Coil rows	A	B1	B2	C	MM Total Unit Dry Weight		MX Total Unit Dry Weight	
								AL	CU	AL	CU
				mm	mm	mm	mm	kg	kg	kg	kg
A	112	1	2	1203	—	—	1123	198.2	230.2	235.4	285.4
A	113	1	3	1203	—	—	1123	216.2	266.2	264.4	338.4
A	114	1	4	1203	—	—	1123	235.2	301.2	292.4	391.4
A	122	2	2	2403	—	—	2323	329.3	395.3	393.6	492.6
A	123	2	3	2403	—	—	2323	364.3	465.3	450.6	598.6
A	124	2	4	2403	—	—	2323	405.3	537.3	507.6	705.6
A	132	3	2	3603	—	—	3523	458.3	559.3	551.9	699.9
A	133	3	3	3603	—	—	3524	518.3	666.3	636.9	858.9
A	134	3	4	3603	—	—	3525	574.3	772.3	720.9	1017.9
A	142	4	2	4803	2342	2382	4723	606.7	738.7	719.1	917.1
A	143	4	3	4803	2342	2382	4723	681.7	879.7	832.1	1129.1
A	144	4	4	4803	2342	2382	4723	756.7	1019.7	946.1	1341.1
A	152	5	2	6003	2942	2982	5923	743.9	907.9	883.9	1130.9
A	153	5	3	6003	2942	2982	5923	836.9	1083.9	1025.9	1396.9
A	154	5	4	6003	2942	2982	5923	931.9	1260.9	1166.9	1660.9
A	162	6	2	7203	3542	3582	7123	869.8	1067.8	1033.6	1330.6
A	163	6	3	7203	3542	3582	7123	982.8	1279.8	1330.6	1649.6
A	164	6	4	7203	3542	3582	7123	1095.8	1490.8	1374.6	1967.6
A	172	7	2	8403	2341	2381	8323	1044.4	1275.4	1234.2	1580.3
A	173	7	3	8403	2341	2381	8323	1176.5	1522.3	1433	1952.4
A	174	7	4	8403	2341	2381	8323	1308.1	1768.7	1631.2	2355.8
A	182	8	2	9603	3541	3581	9523	1185.1	1449.1	1400	1795.5
A	183	8	3	9603	3541	3581	9523	1336.2	1731.2	1627.2	2220.9
A	183	8	4	9603	3541	3581	9523	1486.4	2012.7	1853.8	2644.1
B	112	1	2	1443	—	—	1363	267.4	307.4	264.0	323.0
B	113	1	3	1443	—	—	1363	290.4	349.4	297.0	387.0
B	123	2	3	2883	—	—	2803	478.2	597.2	512.7	690.7
B	124	2	4	2883	—	—	2803	524.2	682.2	580.7	818.7
B	134	3	4	4323	—	—	4243	734.0	971.0	830.4	1186.4
B	142	4	2	5763	2822	2862	5683	777.1	935.1	819.1	1064.1
B	143	4	3	5763	5822	2862	5683	867.1	1105.1	954.1	1310.1
B	144	4	4	5763	5822	2862	5683	958.1	1274.1	1091.1	1565.1
B	152	5	2	7203	3542	3582	7123	952.0	1150.0	1008.3	1304.3
B	153	5	3	7203	3542	3582	7123	1065.0	1362.0	1177.3	1622.3
B	154	5	4	7203	3542	3582	7123	1178.0	1573.0	1347.3	1940.3
B	162	6	2	8643	2821	2880	8563	1123.5	1356.8	1221.3	1329.3
B	163	6	3	8643	2821	2880	8563	1259.5	1356.8	1424.7	1958
B	164	6	4	8643	2821	2880	8563	1259.5	1616	1628.6	2339.8
C	112	1	2	1803	—	—	1723	666.8	716.8	299.6	373.6
C	113	1	3	1803	—	—	1723	695.8	769.8	341.6	452.6
C	114	1	4	1803	—	—	1723	723.8	822.8	384.6	532.6
C	122	2	2	3603	—	—	3523	330.0	429.0	516.9	664.9
C	123	2	3	3603	—	—	3523	388.0	536.0	601.9	823.9
C	124	2	4	3603	—	—	3523	444.0	642.0	686.9	982.9
C	132	3	2	5403	2642	2682	5323	493.0	641.0	751.7	973.7
C	133	3	3	5403	2642	2682	5323	577.0	799.0	877.7	1211.7
C	134	3	4	5403	2642	2682	5323	662.0	959.0	1005.7	1450.7
C	142	4	2	7203	3542	3582	7123	654.0	852.0	961.5	1257.5
C	143	4	3	7203	3542	3582	7123	767.0	1064.0	1130.5	1575.5
C	144	4	4	7203	3542	3582	7123	880.0	1275.0	1300.5	1893.5
C	152	5	2	9003	3541	1840	8923	1413	1783.7	1212.6	1582.6
C	153	5	3	9003	3541	1840	8923	1624	2181	1423.6	1980.1
C	154	5	4	9003	3541	1840	8923	1836.5	2578	1636.1	2377.6

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).

MV

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.

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 MVM has 2 x 1524mm coils and the MVL has 2 x 1905mm high coils with 2 fans wide, all sizes offer the choice of 2 to 6 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.

Searle now offers the 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 at the front of this brochure.

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.

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

Range	MV
Module length	A (1200mm), B (1440mm), C (1800mm)
Bank of fans	1 - 6
Fans per bank	1 - 6
Coils rows	2, 3, 4
Orientation	S = Small (mm) H = Horizontal, V = Vertical
Fans type	N8 (800mm), Q8 (800mm),N9 (910mm), 09 (910mm), 99 (990mm)
Motor speed	06, 08, 12, Q12 or EC
Power	D = Delta, S = Star, 2 = 2 Speed, EC Variable speed
Coil material	AL = Copper tubes/ Aluminium fins, AV = Copper tubes/ Vinyl coated aluminium fins CU = Copper tubes/ Copper fins, ET = Copper tubes/ Copper fins electro-tinned

Note: Isolators and control box shown are additional extras

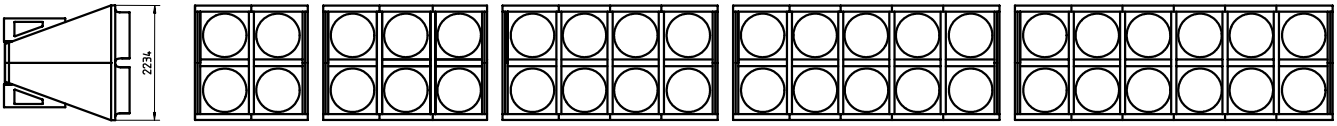
MV Selection Data

Model	Delta (High Speed)					Star (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating			
	kW	m^3/s	dB(A)	W		kW	m^3/s	dB(A)	W		m^2	dm^3	kg
800mm 6 Pole													
MVA212M-N806-AL	95.7	12.01	54	3130	D	84.9	9.65	50	2140	D	159	39	12.3
MVC212M-N806-AL	120.9	13.10	54	3160	D	104.3	10.32	49	2090	C	239	53	16.7
MVB214M-N806-AL	159.3	11.32	54	3230	C	135.3	9.01	48	2180	C	382	79	25
MVA222M-N806-AL	192.4	24.02	57	6270	D	170.6	19.30	53	4280	D	318	68	21.5
MVC222M-N806-AL	242.7	26.20	57	6320	D	209.1	20.63	52	4180	C	477	95	30
MVA224M-N806-AL	288.3	21.42	57	6650	D	245.4	16.97	51	4410	C	636	128	40.4
MVB232M-N806-AL	321.2	37.75	59	7670	D	282.1	29.99	55	5290	C	572	118	37.3
MVA233M-N806-AL	373.7	33.64	59	9750	D	284.2	22.05	53	6570	D	715	144	45.5
MVB233M-N806-AL	412.9	35.35	59	9500	D	358.4	28.32	54	6470	C	858	168	53.1
MVB234M-N806-AL	480.1	33.97	59	9710	C	408.3	27.03	53	6560	C	1145	219	69.2
MVC234M-N806-AL	530.9	35.88	59	9420	C	449.5	28.62	54	6450	C	1431	261	82.5
MVC243M-N806-AL	617.1	49.72	59	12330	C	530.1	39.46	55	8500	C	1431	272	86
MVB244M-N806-AL	640.1	45.29	60	12950	C	543.1	36.04	54	8750	C	1526	285	90.1
MVB254M-N806-AL	798.8	56.62	61	16180	C	680.9	45.05	55	10940	C	1908	350	110.6
MVA264M-N806-AL	866.5	64.25	62	19970	D	743.6	50.92	55	13250	C	1908	350	110.6
MVA212L-N806-AL	107.4	12.68	54	3050	D	95.3	10.06	50	2110	C	199	49	15.5
MVB213L-N806-AL	152.2	12.43	54	3080	C	131.9	9.86	50	2120	C	358	77	24.3
MVC214L-N806-AL	195.1	12.54	54	3060	C	165.2	9.93	50	2120	B	596	121	38.2
MVB222L-N806-AL	242.4	26.20	57	6000	D	209.2	20.63	52	4180	C	477	98	31
MVA223L-N806-AL	281.5	23.81	56	6300	D	243.1	19.05	51	4300	C	596	125	39.5
MVB224L-N806-AL	354.6	23.92	57	6280	C	301.8	19.08	52	4300	B	954	191	60.4
MVA233L-N806-AL	422.5	35.72	59	9450	D	364.3	28.58	54	6450	C	894	180	56.9
MVA234L-N806-AL	489.0	34.36	59	9650	C	414.1	27.37	53	6540	C	1192	224	70.8
MVC233L-N806-AL	511.0	38.79	59	9050	C	435.4	30.58	54	6300	C	1341	249	78.7
MVA243L-N806-AL	562.2	47.62	60	12600	D	483.7	38.11	55	8610	C	1192	227	71.7
MVB243L-N806-AL	618.8	49.72	59	12330	C	529.4	39.46	55	8500	C	1431	272	86
MVC243L-N806-AL	683.0	51.72	59	12070	C	585.1	40.77	55	8400	C	1788	334	105.5
MVC244L-N806-AL	783.5	50.17	59	12260	C	662.6	39.73	55	8480	B	2385	438	138.4
MVB254L-N806-AL	888.7	59.80	60	15710	C	755.9	47.70	56	10750	B	2385	438	138.4
MVA264L-N806-AL	979.2	68.72	61	19310	C	833.8	54.73	56	13090	C	2385	438	138.4
910mm 6 Pole													
MVA212M-N906-AL	104.3	14.02	58	4230	E	91.5	10.9	51	2950	D	159	39	12.3
MVC212M-N906-AL	132.5	15.42	58	3930	D	115.9	12.3	52	2810	D	239	53	16.7
MVB214M-N906-AL	177.6	13.27	58	4390	D	144.8	9.93	51	3040	C	382	79	25
MVA222M-N906-AL	209.8	28.05	61	8470	E	183.9	21.98	55	5900	D	318	68	21.5
MVC222M-N906-AL	266.1	30.83	61	7870	D	232.6	24.62	54	5630	D	477	95	30
MVA224M-N906-AL	317.5	24.55	61	9160	D	255.6	17.97	54	6200	D	636	128	40.4
MVB232M-N906-AL	351.4	44.28	63	12240	E	308.6	34.99	56	7210	D	572	118	37.3
MVA233M-N906-AL	412.2	39.17	63	13320	D	346.0	29.43	55	9150	D	715	144	45.5
MVB233M-N906-AL	458.0	41.62	63	12800	D	388.8	31.98	55	8950	D	858	168	53.1
MVB234M-N906-AL	534.2	39.80	63	13180	D	436.2	29.80	55	9130	C	1145	219	69.2
MVC234M-N906-AL	600.4	42.52	62	12610	C	493.3	32.72	55	8880	C	1431	261	82.5
MVC243M-N906-AL	687.5	58.75	63	16390	D	585.5	46.02	56	11600	C	1431	272	86
MVB244M-N906-AL	714.3	53.07	63	17580	D	581.3	39.73	56	12170	C	1526	285	90.1
MVB254M-N906-AL	886.9	66.34	64	21980	D	726.9	49.66	57	15220	C	1908	350	110.6
MVA264M-N906-AL	949.5	73.66	66	27480	D	771.8	53.93	58	18600	D	1908	350	110.6
MVA212L-N906-AL	117.9	14.90	58	4050	E	104.7	11.80	51	2860	D	199	49	15.5
MVB213L-N906-AL	170.9	14.69	58	4090	D	145.8	11.50	51	2900	C	358	77	24.3
MVC214L-N906-AL	219.2	14.88	58	4050	C	183.8	11.66	51	2880	C	596	121	38.2
MVB222L-N906-AL	265.6	30.83	61	7870	D	232.6	24.62	54	5630	D	477	98	31
MVA223L-N906-AL	312.6	28.09	60	8460	D	265.1	21.64	52	5930	D	596	125	39.5
MVB224L-N906-AL	398.6	28.34	61	8410	C	329.8	21.81	53	5920	C	954	191	60.4
MVA233L-N906-AL	471.1	42.14	63	12690	D	397.7	32.47	55	8900	D	894	180	56.9
MVA234L-N906-AL	546.5	40.32	63	13080	D	446.3	30.43	55	9090	C	1192	224	70.8
MVC233L-N906-AL	573.3	45.92	63	11890	C	489.1	36.43	56	8490	C	1341	249	78.7
MVA243L-N906-AL	627.3	56.18	63	16930	D	528.8	43.29	56	11870	D	1192	227	71.7
MVB243L-N906-AL	692.3	58.75	63	16390	D	586.5	46.02	56	11600	C	1431	272	86
MVC243L-N906-AL	762.0	61.23	63	15850	C	654.5	48.57	57	11330	C	1788	334	105.5
MVC244L-N906-AL	881.1	59.53	63	16230	C	737.6	46.66	56	11530	C	2385	438	138.4
MVB254L-N906-AL	999.7	70.86	64	21030	C	826.3	54.53	57	14800	C	2385	438	138.4
MVA264L-N906-AL	1088.52	80.63	65	26160	D	895.6	60.86	58	18190	C	2385	438	138.4

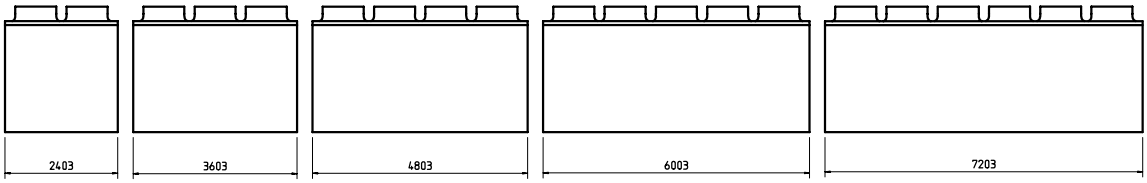
MV Selection Data

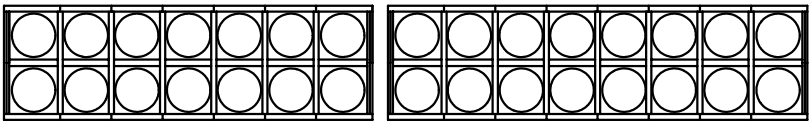
Model	Delta (High Speed)					Star (Low Speed)					Total Surface	Internal Volume	R404A Charge
	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating	Duty (15KDT1 - Dew Point) R404A & R507A	Air Volume	Sound Pressure level at 10m	Power Input	Energy rating			
	kW	m^3/s	dB(A)	W		kW	m^3/s	dB(A)	W		m^2	dm^3	kg
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
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
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
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
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
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
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
MVB254M	439.7	25.28	42	3100	A	380.6	20.59	35	1770	A	1908	350	110.6
MVA264M	477.8	28.44	43	3810	A	413.7	23.02	36	2230	A	1908	350	110.6
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
MVA223L	165.0	10.84	37	1220	A	144.8	8.87	31	690	A	596	125	39.5
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	56.9
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	78.7
MVA243L	330.5	21.67	40	2450	A	290.0	17.73	35	1380	A	1192	227	71.7
MVB243L	362.5	22.74	40	2430	A	315.9	18.46	34	1360	A	1431	272	86
MVC243L	396.9	23.57	40	2420	A	344.1	19.15	34	1340	A	1788	334	105.5
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

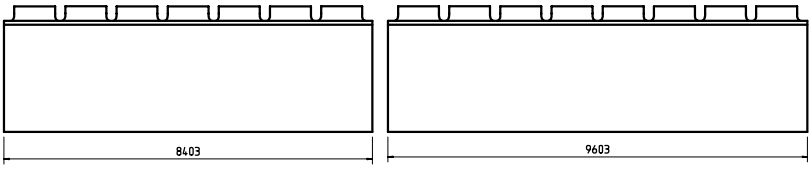
DV Model Layout

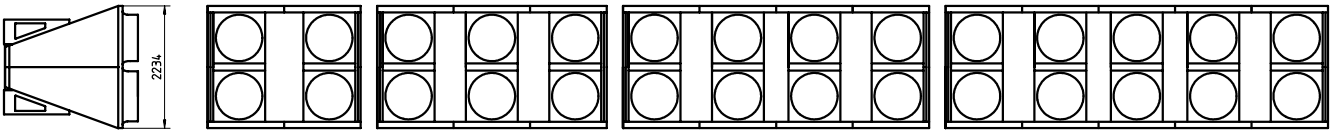


MVA

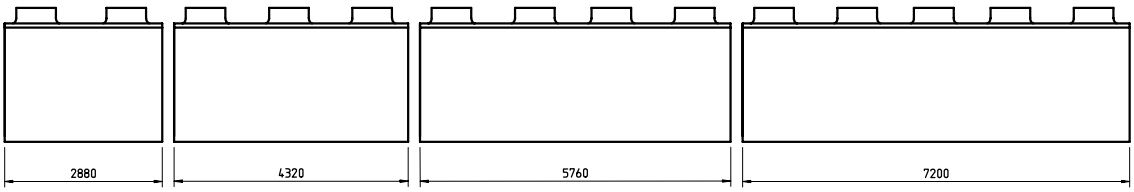


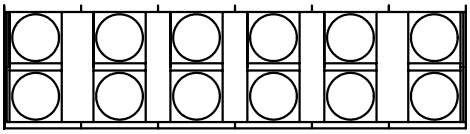


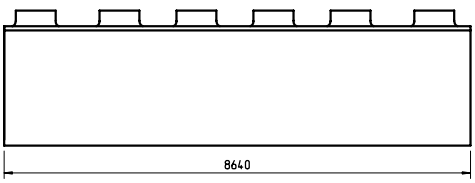




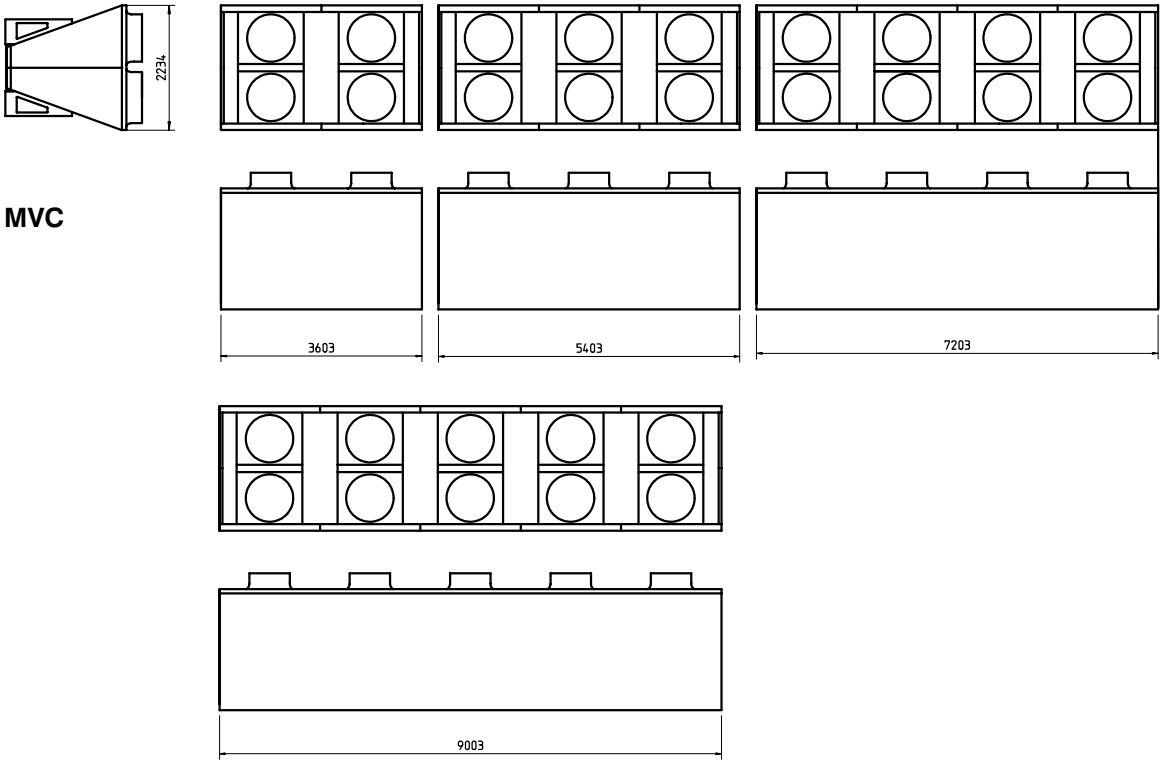
MVB





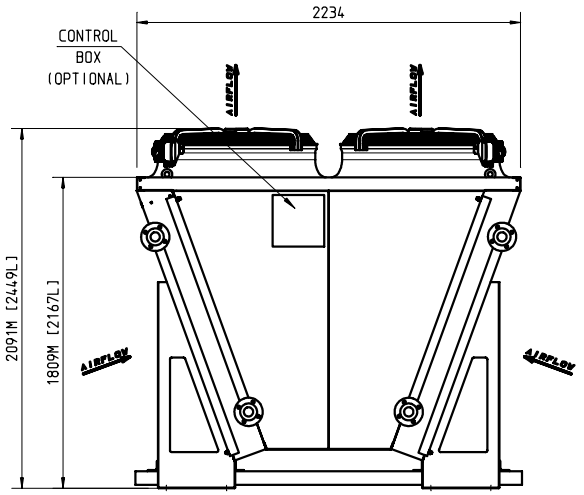


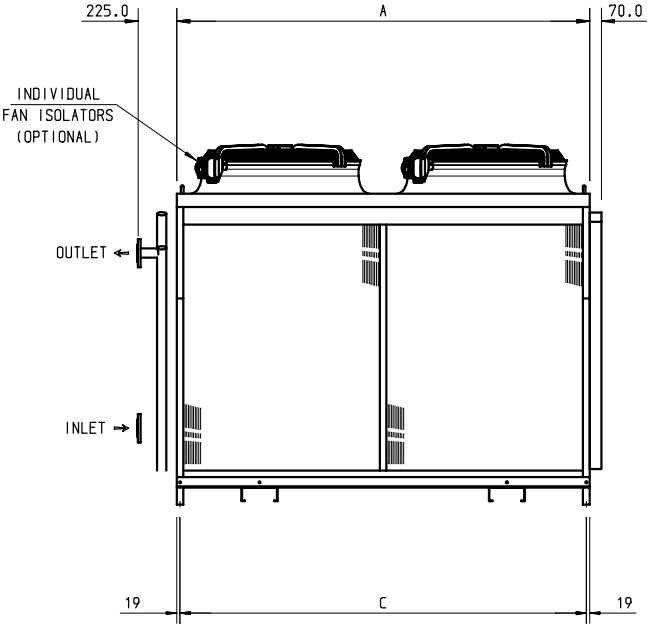
DV Model Layout

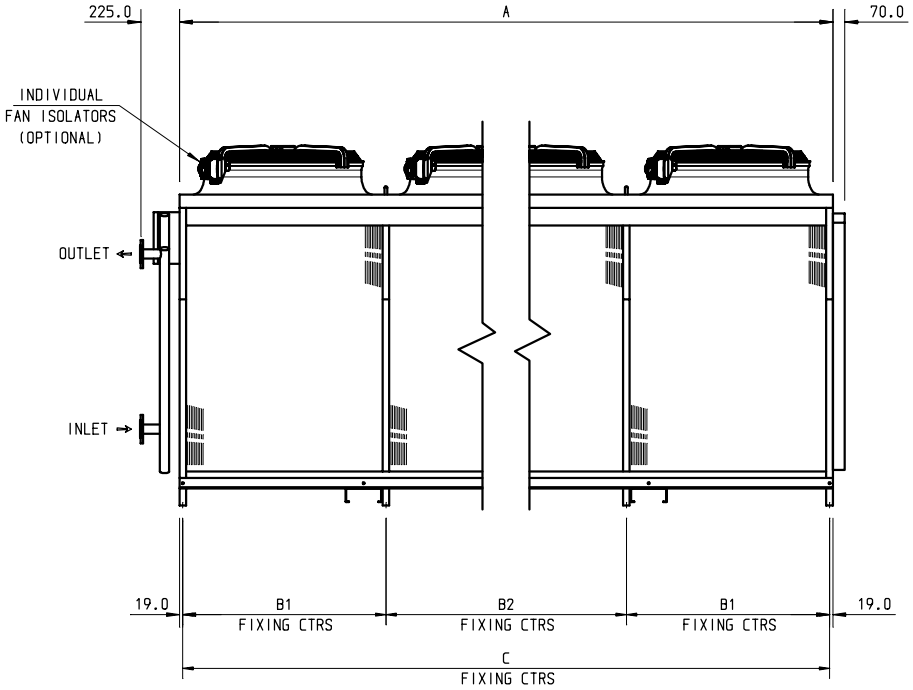


MVC

DV Model Drawings







Dimensions

Model		Size	Fan	Coil Rows	A Casework overall	B1	B2	C	Approx Dry Weight	
									AL/AV	CU/ET
					mm	mm	mm	mm	kg	kg
MVA	222	M	4	2	2403	N/A	N/A	2365	720.4	866.4
MVA	223	M	4	3	2403	N/A	N/A	2365	788.6	1008.1
MVA	224	M	4	4	2403	N/A	N/A	2365	857.1	1149.7
MVA	232	M	6	2	3603	1183	1200	3565	1087.1	1306.7
MVA	233	M	6	3	3603	1183	1200	3565	1189.5	1518.9
MVA	234	M	6	4	3603	1183	1200	3565	1292.1	1731.3
MVA	242	M	8	2	4803	1183	2400	4765	1449	1741.7
MVA	243	M	8	3	4803	1183	2400	4765	1585.6	2024.6
MVA	244	M	8	4	4803	1183	2400	4765	1722.1	2307.5
MVA	252	M	10	2	6003	2383	1200	5965	1811.1	2177.1
MVA	253	M	10	3	6003	2383	1200	5965	1981.6	2530.5
MVA	254	M	10	4	6003	2383	1200	5965	2152.2	2884
MVA	262	M	12	2	7203	2383	2400	7165	2173.1	2612.3
MVA	263	M	12	3	7203	2383	2400	7165	2377.7	3036.5
MVA	264	M	12	4	7203	2383	2400	7165	2535.7	3460.6
MVA	272	M	14	2	8403	2382	2400	8365	2535.7	3048.2
MVA	273	M	14	3	8403	2382	2400	8365	2774.4	3542.9
MVA	274	M	14	4	8403	2382	2400	8365	3013	4037.7
MVA	232	M	16	2	9603	2382	3400	9565	2898.1	3483.9
MVA	233	M	16	3	9603	2382	3400	9565	3170.9	4049.2
MVA	234	M	16	4	9603	2382	3400	9565	3443.5	4614.5
MVB	222	M	4	2	2883	N/A	N/A	2845	830.2	1005.8
MVB	223	M	4	3	2883	N/A	N/A	2845	912.4	1175.9
MVB	224	M	4	4	2883	N/A	N/A	2845	994.5	1345.8
MVB	232	M	6	2	4323	1422	1440	4285	1244.8	1508.3
MVB	233	M	6	3	4323	1422	1440	4285	1367.7	1762.8
MVB	234	M	6	4	4323	1422	1440	4285	1490.6	2017.4
MVB	242	M	8	2	5763	1422	2880	5725	1659.5	2010.8
MVB	243	M	8	3	5763	1422	2880	5725	1823.2	2350.1
MVB	244	M	8	4	5763	1422	2880	5725	1986.9	2689.5
MVB	252	M	10	2	7203	2862	1400	7165	2073.1	2512.3
MVB	253	M	10	3	7203	2862	1400	7165	2277.7	2936.5
MVB	254	M	10	4	7203	2862	1400	7165	2482.3	3360.6
MVB	262	M	12	2	8640	2862	2720	8602	2487.9	3015
MVB	263	M	12	3	8640	2862	2720	8602	2733.3	3523.8
MVB	264	M	12	4	8640	2862	2720	8602	2978.7	4032.7
MVC	222	M	4	2	3603	1782	N/A	3565	987.1	1206.7
MVC	223	M	4	3	3603	1782	N/A	3565	1089.5	1418.9
MVC	224	M	4	4	3603	1782	N/A	3565	1192.1	1631.1
MVC	232	M	6	2	5403	1782	1800	5365	1480.1	1809.4
MVC	233	M	6	3	5403	1782	1800	5365	1633.6	2127.6
MVC	234	M	6	4	5403	1782	1800	5365	1787.2	2445.8
MVC	242	M	8	2	7203	1782	3600	7165	1973.1	2412.3
MVC	243	M	8	3	7203	1782	3600	7165	2177.7	2836.5
MVC	244	M	8	4	7203	1782	3600	7165	2382.3	3260.6
MVC	252	M	10	2	9003	3565	1840	8965	2466.1	3015.1
MVC	253	M	10	3	9003	3565	1840	8965	3545.2	2721.7
MVC	254	M	10	4	9003	3565	1840	8965	2977.4	4075.3

Note:

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

Dimensions

Model		Size	Fan	Coil Rows	A Casework overall	B1	B2	C	Approx Dry Weight	
									AL/AV	CU/ET
					mm	mm	mm	mm	kg	kg
MVA	222	L	4	2	2403	N/A	N/A	2365	850.3	1033.2
MVA	223	L	4	3	2403	N/A	N/A	2365	935.9	1210.3
MVA	224	L	4	4	2403	N/A	N/A	2365	1021.6	1387.5
MVA	232	L	6	2	3603	1183	1200	3565	1282.4	1556.8
MVA	233	L	6	3	3603	1183	1200	3565	1410.6	1822.3
MVA	234	L	6	4	3603	1183	1200	3565	1538.6	2087.6
MVA	242	L	8	2	4803	1183	2400	4765	1709.3	2075.2
MVA	243	L	8	3	4803	1183	2400	4765	2428.8	1880
MVA	244	L	8	4	4803	1183	2400	4765	2050.6	2782.3
MVA	252	L	10	2	6003	2383	1200	5965	2136.4	2593.8
MVA	253	L	10	3	6003	2383	1200	5965	3035.7	2349.6
MVA	254	L	10	4	6003	2383	1200	5965	3477.5	2562.7
MVA	262	L	12	2	7203	2383	2400	7165	2563.4	3112.4
MVA	263	L	12	3	7203	2383	2400	7165	3642.5	2819.7
MVA	264	L	12	4	7203	2383	2400	7165	4172.7	3074.9
MVA	272	L	14	2	8403	2382	2400	8365	2991.1	3631.6
MVA	273	L	14	3	8403	2382	2400	8365	2390	4250
MVA	274	L	14	4	8403	2382	2400	8365	3587.5	4868.3
MVA	232	L	16	2	9603	2382	3400	9565	3418.6	4150.6
MVA	233	L	16	3	9603	2382	3400	9565	3760	4857.2
MVA	234	L	16	4	9603	2382	3400	9565	4100.4	5563.8
MVB	222	L	4	2	2883	N/A	N/A	2845	987.3	1206.8
MVB	223	L	4	3	2883	N/A	N/A	2845	1090	1419.3
MVB	224	L	4	4	2883	N/A	N/A	2845	1192.6	1631.7
MVB	232	L	6	2	4323	1422	1440	4285	1480.3	1803.5
MVB	233	L	6	3	4323	1422	1440	4285	1634	2127.8
MVB	234	L	6	4	4323	1422	1440	4285	1787.6	2446.1
MVB	242	L	8	2	5763	1422	2880	5725	1973.4	2412.5
MVB	243	L	8	3	5763	1422	2880	5725	2178	2836.6
MVB	244	L	8	4	5763	1422	2880	5725	2382.7	3260.9
MVB	252	L	10	2	7203	2862	1400	7165	2463.4	3012.4
MVB	253	L	10	3	7203	2862	1400	7165	2719.1	3542.5
MVB	254	L	10	4	7203	2862	1400	7165	2974.9	4072.7
MVB	262	L	12	2	8640	2862	2720	8602	2947	3606
MVB	263	L	12	3	8640	2862	2720	8602	3253.7	4242
MVB	264	L	12	4	8640	2862	2720	8602	3560.5	4878
MVC	222	L	4	2	3603	1782	N/A	3565	1182.4	1456.8
MVC	223	L	4	3	3603	1782	N/A	3565	1310.6	1722.3
MVC	224	L	4	4	3603	1782	N/A	3565	1438.6	1987.6
MVC	232	L	6	2	5403	1782	1800	5365	1772.8	2184.4
MVC	233	L	6	3	5403	1782	1800	5365	1964.9	2582.3
MVC	234	L	6	4	5403	1782	1800	5365	2156.7	2980
MVC	242	L	8	2	7203	1782	3600	7165	2327.4	2876.4
MVC	243	L	8	3	7203	1782	3600	7165	2619.1	3442.5
MVC	244	L	8	4	7203	1782	3600	7165	2874.9	3972.7
MVC	252	L	10	2	9003	3565	1840	8965	2917.9	3604.1
MVC	253	L	10	3	9003	3565	1840	8965	3273.5	4302.7
MVC	254	L	10	4	9003	3565	1840	8965	3593	4965.3

Note:

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

GEA Refrigeration

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.com

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