



Goedhart KOAL-S

Air cooled condensers

Cu/Al

R404A

Goedhart KOAL-S

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.

Designed to be quiet -

Our condensers can meet even the most stringent noise 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 EBMPapst 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 and ensure 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/Al/Bg - Copper tubes / aluminium fins Blygold coated
- Cu/Almg - Copper tubes / Seawater resistant aluminium fins

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 | No. fans |
|---|-----------|----------|
|  | KOAL-S E | 1 - 8 |
|  | KOAL-S G | 1 - 16 |
|  | KOAL-S M | 1 - 9 |
|  | KOAL-S X | 1 - 9 |
|  | KOAL-S VM | 2 - 16 |
|  | KOAL-S VL | 2 - 16 |

V=Yes X=No O=Option

| Rows of fans | Options | | | | Capacities kW at 15K DT1 | | |
|--------------|---------|---------|--------------------------|------------------------|--------------------------|--------------|------|
| | Supply | EC fans | Adiabatic cooling system | Fin materials | 10 | 100 | 1000 |
| 2 | 1 &3 ph | V | X | Al AV Cu Almg | | 11 - 390 kW | |
| 1 or 2 | 3 ph | V | O | Al AV Cu Almg | | 23 - 970 kW | |
| 1 | 3 ph | V | O | Al AV Cu Almg | | 27- 595 kW | |
| 1 | 3 ph | V | O | Al AV Cu Almg | | 33 - 754 kW | |
| 2 | 3 ph | V | O | Al AV Cu Almg | | 54 - 980 kW | |
| 2 | 3 ph | V | O | Al AV Cu Almg | | 61 - 1090 kW | |



Air cooled condenser options

Control Options

There are various optional control packages available, including fully variable speed controlled products using 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 Goedhart recommends adding the option of internal motor protection.



air temperature during peak ambient and load conditions. Air temperature reduction is achieved by spraying water into the incoming airstream (please see Goedhart's Adiabatic brochure for further details).

Other Options

Goedhart 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 Goedhart representative.

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%.

Adiabatic Cooling System

The adiabatic cooling system is designed to enhance the thermal performance by reducing the effective incoming



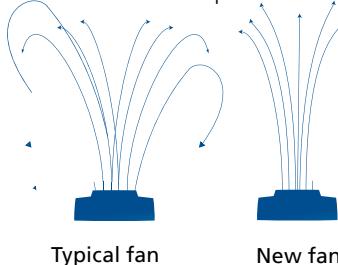
Vertical Mounting

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

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.

Fan data

Goedhart 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 Goedhart's new fan and its proximity to the fan-plate reduces the occurrence of air-recirculation due to a more projected airflow.

AC Fansets

The standard AC fansets used in the entire Goedhart 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 | D (Delta) | | | Y (Star) | | |
|-----------------|----------|------------------------|------------------------|---------|--------|--------------|--------------|--------|
| | | | Speed [rpm] | FLC [A] | SC [A] | Speed [rpm] | FLC [A] | SC [A] |
| | | | A, B | 1225 | 2.8 | 4.7 | Single Phase | |
| N5 4 pole | 500 mm | A, B | 915 | 1.2 | 2.3 | Single Phase | | |
| N5 6 pole | | | 680 | 0.4 | 1.0 | 560 | 0.2 | 0.3 |
| N5 8 pole | | | Information on request | | | | | |
| N5 EC | | Information on request | | | | | | |
| N6 4 pole | 630 mm | B, C | 1330 | 5.2 | 19.0 | 1035 | 3.3 | 6.0 |
| N6 6 pole | | | 900 | 1.8 | 5.0 | 700 | 1.1 | 2.5 |
| N6 8 pole | | | 650 | 1.0 | 3.1 | 470 | 0.5 | 1.0 |
| N6 EC | | Information on request | | | | | | |
| N8 6 pole | 800 mm | A, B, C | 920 | 4.2 | 14.0 | 730 | 2.3 | 4.0 |
| N8 6 pole | | | 670 | 2.5 | 6.2 | 550 | 1.3 | 2.2 |
| N8 12 pole | | | 450 | 1.4 | 2.3 | 350 | 0.6 | 0.8 |
| Q8 12 pole | | A, B, C | 370 | 0.7 | 1.0 | 240 | 0.5 | 0.8 |
| N9 6 pole | 910 mm | A, B, C | 905 | 5.7 | 19 | 640 | 3.3 | 1.1 |
| L9 EC | | A, B, C | Variable 100-600 | 1.2 | 1.7 | | | |
| 09 EC | | A, B, C | Variable 100-870 | 3.1 | 4.3 | | | |

Note: The figures in the table are for 400V/3ph/50Hz operation and per fan, except N5 4&6 pole which are 230V/1ph/50Hz

Sound data

The mean unit sound pressure indication (± 2 dB(A)) at 10m is given for each model in the catalogue. 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. Changes to or by the fan or the product, affect the sound, in these cases, consult the manufacturer for the new indication value. In critical sound requirements, we advise you to consult an expert.

Sound power correction factors for multiple fans

| No Fans | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
|----------------------|----|----|----|----|----|----|----|-----|-----|
| Corrections dB(A) | +0 | +3 | +5 | +6 | +7 | +8 | +9 | +10 | +11 |

Capacity Data

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.

Quality Assured



Goedhart is a quality assured company to ISO 9001:2000 encompassing Performance Testing, Manufacturing Systems and Inspection Procedures.

The range is certified 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.

CE Marking

Goedhart'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.



Energy Labelling

The energy efficiency of the air cooled condensers is rated in terms of a set of energy efficiency classes from A to E on the label, A being the most energy efficient, E the least efficient. The labels also give other useful information to the customer as they choose between various models. Rating is based on the ratio of nominal duty to power input with banding as in the table below.

| | |
|---------------|-------------------|
| Extremely low | $R > 110$ |
| Very low | $70 < R \leq 110$ |
| Low | $45 < R \leq 70$ |
| Medium | $30 < R \leq 45$ |
| High | < 30 |

Where $R = \text{Nominal Capacity} / \text{Total fan power input}$



Goedhart KOAL-S E

The KOAL-S E 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.

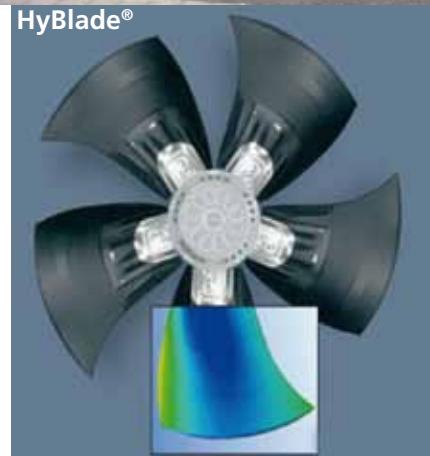
The range consists of one to eight fans in three coil depths and modules with 500 and 630 mm 4, 6 and 8 pole fans. This results in a wide range of capacities, noise levels and footprints to meet the diverse requirements of the industry.

Optional extras for the KOAL-S E 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 KOAL-S E range is also available as a dry cooler designated KOAD-S E.

Model selections can be made either directly from the catalogue or by contacting your Goedhart representative to select for you the required air cooled condenser.

KOAL-S E 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
- Standard powder coated, RAL7036 (Platinum Gray) robust casework. RAL 9010 Bright on request.
- 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



Type description

KOAL-S EA 1 2 4 H - N6 04 - AL

KOAL-S E = range

A, B, C = module length

1 or 2 = bank of fans

1, 2, 3, 4 = fans per bank

2, 3, 4 = coils row

H = Horizontal = orientation

= Vertical air direction

V = Vertical

= Horizontal air direction

N5=500mm, N6=630mm = Fan type

AC pole 04, 06, 08, EC, = Motor speed
XX=without fans

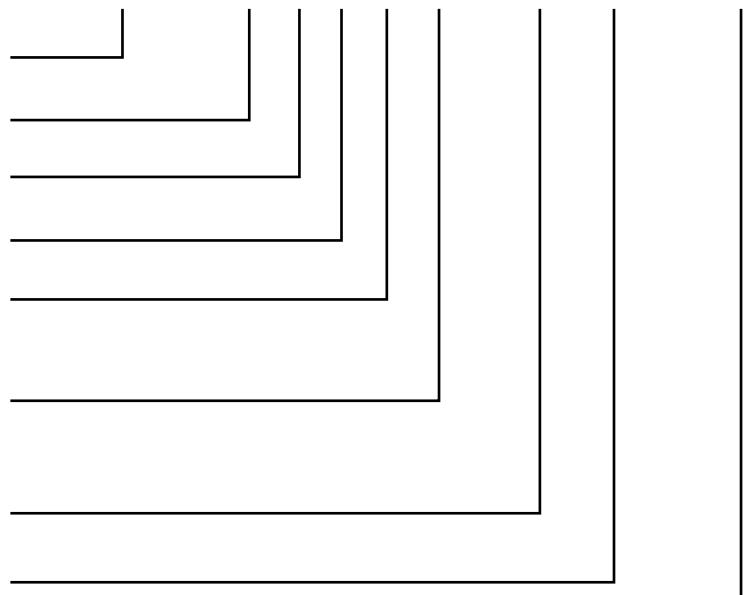
AL = Copper tubes/Aluminium fins

AV = Copper tubes/Vinyl coated aluminium fin

CU = Copper tubes/Copper fins

BG = Blygold tubes and fins

ALMG = Copper tubes/Sea water resistant (Almg) fins



KOAL-S E 500 Selection data



| Model KOAL-S E | D E L T A (High Speed) | | | | | S T A R (Low Speed) | | | | | Total Surface | Internal Volume | R404A Charge | | | |
|-----------------------------|--------------------------------------|------------|---|----------------|---------------|--------------------------------------|------------|---|----------------|---------------|---------------|-----------------|--------------|--|--|--|
| | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | Energy rating | | | | | | |
| | R404A & R507A | | | | | R404A & R507A | | | | | | | | | | |
| | kW | | | | | kW | | | | m² | | dm³ | kg | | | |
| 500 mm 4 pole 1x230V | | | | | | | | | | | | | | | | |
| EA112-N504-1 | 16,3 | 6840 | 45 | 540 | D | - | - | - | - | - | 26 | 5 | 1,6 | | | |
| EB112-N504-1 | 20,1 | 7416 | 46 | 530 | D | - | - | - | - | - | 38 | 7 | 2,2 | | | |
| EA113-N504-1 | 20,5 | 6408 | 45 | 560 | D | - | - | - | - | - | 38 | 7 | 2,2 | | | |
| EA114-N504-1 | 23,3 | 6048 | 44 | 570 | D | - | - | - | - | - | 51 | 9 | 2,8 | | | |
| EB113-N504-1 | 25,5 | 7200 | 46 | 530 | C | - | - | - | - | - | 58 | 10 | 3,2 | | | |
| EB114-N504-1 | 28,8 | 6912 | 45 | 540 | C | - | - | - | - | - | 77 | 12 | 3,8 | | | |
| EA122-N504-1 | 32,6 | 13752 | 48 | 1090 | D | - | - | - | - | - | 51 | 9 | 2,8 | | | |
| EB122-N504-1 | 40,2 | 14904 | 49 | 1060 | D | - | - | - | - | - | 77 | 12 | 3,8 | | | |
| EA123-N504-1 | 41,0 | 12888 | 48 | 1120 | D | - | - | - | - | - | 77 | 12 | 3,8 | | | |
| EA124-N504-1 | 46,6 | 12096 | 47 | 1150 | D | - | - | - | - | - | 102 | 17 | 5,4 | | | |
| EA132-N504-1 | 48,9 | 20592 | 50 | 1630 | D | - | - | - | - | - | 77 | 13 | 4,1 | | | |
| EB123-N504-1 | 51,0 | 14400 | 49 | 1070 | C | - | - | - | - | - | 115 | 18 | 5,7 | | | |
| EB124-N504-1 | 57,6 | 13896 | 48 | 1080 | C | - | - | - | - | - | 154 | 24 | 7,6 | | | |
| EB132-N504-1 | 60,3 | 22320 | 51 | 1580 | D | - | - | - | - | - | 115 | 18 | 5,7 | | | |
| EA133-N504-1 | 61,5 | 19296 | 49 | 1680 | D | - | - | - | - | - | 115 | 18 | 5,7 | | | |
| EA142-N504-1 | 65,2 | 27432 | 51 | 2170 | D | - | - | - | - | - | 102 | 16 | 5,1 | | | |
| EA134-N504-1 | 69,9 | 18144 | 49 | 1720 | D | - | - | - | - | - | 154 | 24 | 7,6 | | | |
| EB133-N504-1 | 76,5 | 21528 | 50 | 1600 | C | - | - | - | - | - | 173 | 26 | 8,2 | | | |
| EB142-N504-1 | 80,4 | 29736 | 52 | 2110 | D | - | - | - | - | - | 154 | 23 | 7,3 | | | |
| EA143-N504-1 | 82,0 | 25704 | 50 | 2230 | D | - | - | - | - | - | 154 | 23 | 7,3 | | | |
| EB134-N504-1 | 86,4 | 20808 | 50 | 1620 | C | - | - | - | - | - | 230 | 34 | 10,7 | | | |
| EA144-N504-1 | 93,2 | 24264 | 50 | 2290 | D | - | - | - | - | - | 205 | 31 | 9,8 | | | |
| EB143-N504-1 | 102,0 | 28728 | 51 | 2130 | C | - | - | - | - | - | 230 | 34 | 10,7 | | | |
| EB144-N504-1 | 115,2 | 27792 | 51 | 2160 | C | - | - | - | - | - | 307 | 44 | 13,9 | | | |
| 500 mm 6 pole 1x230V | | | | | | | | | | | | | | | | |
| EA112-N506-1 | 13,6 | 5040 | 37 | 230 | C | - | - | - | - | - | 26 | 5 | 1,6 | | | |
| EB112-N506-1 | 16,7 | 5544 | 38 | 230 | B | - | - | - | - | - | 38 | 7 | 2,2 | | | |
| EA113-N506-1 | 17,1 | 4752 | 36 | 240 | B | - | - | - | - | - | 38 | 7 | 2,2 | | | |
| EA114-N506-1 | 18,8 | 4464 | 36 | 250 | B | - | - | - | - | - | 51 | 9 | 2,8 | | | |
| EB113-N506-1 | 20,6 | 5328 | 37 | 230 | B | - | - | - | - | - | 58 | 9 | 2,8 | | | |
| EB114-N506-1 | 22,9 | 5112 | 37 | 230 | B | - | - | - | - | - | 77 | 12 | 3,8 | | | |
| EA122-N506-1 | 27,2 | 10152 | 40 | 470 | C | - | - | - | - | - | 51 | 9 | 2,8 | | | |
| EB122-N506-1 | 33,4 | 11016 | 41 | 450 | B | - | - | - | - | - | 77 | 12 | 3,8 | | | |
| EA123-N506-1 | 34,2 | 9504 | 39 | 480 | B | - | - | - | - | - | 77 | 12 | 3,8 | | | |
| EA124-N506-1 | 37,6 | 8928 | 39 | 490 | B | - | - | - | - | - | 102 | 16 | 5,1 | | | |
| EA132-N506-1 | 40,8 | 15192 | 41 | 700 | C | - | - | - | - | - | 77 | 12 | 3,8 | | | |
| EB123-N506-1 | 41,2 | 10656 | 40 | 460 | B | - | - | - | - | - | 115 | 17 | 5,4 | | | |
| EB124-N506-1 | 45,8 | 10296 | 40 | 470 | B | - | - | - | - | - | 154 | 24 | 7,6 | | | |
| EB132-N506-1 | 50,1 | 16560 | 42 | 680 | B | - | - | - | - | - | 115 | 18 | 5,7 | | | |
| EA133-N506-1 | 51,3 | 14328 | 41 | 720 | B | - | - | - | - | - | 115 | 18 | 5,7 | | | |
| EA142-N506-1 | 54,4 | 20232 | 42 | 940 | C | - | - | - | - | - | 102 | 16 | 5,1 | | | |
| EA134-N506-1 | 56,4 | 13392 | 41 | 740 | B | - | - | - | - | - | 154 | 24 | 7,6 | | | |
| EB133-N506-1 | 61,8 | 15984 | 42 | 690 | B | - | - | - | - | - | 173 | 26 | 8,2 | | | |
| EB142-N506-1 | 66,8 | 22104 | 43 | 910 | B | - | - | - | - | - | 154 | 23 | 7,3 | | | |
| EA143-N506-1 | 68,4 | 19080 | 42 | 970 | B | - | - | - | - | - | 154 | 23 | 7,3 | | | |
| EB134-N506-1 | 68,7 | 15408 | 41 | 700 | B | - | - | - | - | - | 230 | 34 | 10,7 | | | |
| EA144-N506-1 | 75,2 | 17856 | 42 | 990 | B | - | - | - | - | - | 205 | 30 | 9,5 | | | |
| EB143-N506-1 | 82,4 | 21240 | 43 | 920 | B | - | - | - | - | - | 230 | 34 | 10,7 | | | |
| EB144-N506-1 | 91,6 | 20520 | 42 | 930 | B | - | - | - | - | - | 307 | 44 | 13,9 | | | |
| 500 mm 8 pole 3x400V | | | | | | | | | | | | | | | | |
| EA112-N508-3 | 11,2 | 3744 | 29 | 120 | B | 10,1 | 3096 | 25 | 80 | A | 26 | 4 | 1,3 | | | |
| EA113-N508-3 | 13,7 | 3456 | 29 | 120 | A | 12,1 | 2880 | 25 | 80 | A | 38 | 7 | 2,2 | | | |
| EB112-N508-3 | 13,8 | 4104 | 29 | 120 | A | 12,4 | 3456 | 26 | 80 | A | 38 | 7 | 2,2 | | | |
| EA114-N508-3 | 14,8 | 3240 | 28 | 130 | A | 13 | 2736 | 24 | 80 | A | 51 | 9 | 2,8 | | | |
| EB113-N508-3 | 16,6 | 3960 | 29 | 120 | A | 14,8 | 3312 | 25 | 80 | A | 58 | 9 | 2,8 | | | |
| EB114-N508-3 | 18 | 3816 | 29 | 120 | A | 15,8 | 3168 | 25 | 80 | A | 77 | 12 | 3,8 | | | |
| EA122-N508-3 | 22,4 | 7488 | 32 | 250 | B | 20,2 | 6264 | 28 | 160 | A | 51 | 8 | 2,5 | | | |
| EA123-N508-3 | 27,4 | 6984 | 32 | 250 | A | 24,2 | 5760 | 27 | 160 | A | 77 | 12 | 3,8 | | | |
| EB122-N508-3 | 27,6 | 8208 | 32 | 250 | A | 24,8 | 6984 | 29 | 150 | A | 77 | 12 | 3,8 | | | |
| EA124-N508-3 | 29,6 | 6480 | 31 | 260 | A | 26 | 5400 | 27 | 160 | A | 102 | 16 | 5,1 | | | |
| EB123-N508-3 | 33,2 | 7848 | 32 | 250 | A | 29,6 | 6624 | 28 | 160 | A | 115 | 17 | 5,4 | | | |
| EA132-N508-3 | 33,6 | 11160 | 34 | 370 | B | 30,3 | 9360 | 30 | 240 | A | 77 | 12 | 3,8 | | | |
| EB124-N508-3 | 36 | 7560 | 32 | 250 | A | 31,6 | 6264 | 28 | 160 | A | 154 | 23 | 7,3 | | | |
| EA133-N508-3 | 41,1 | 10440 | 33 | 370 | A | 36,3 | 8640 | 29 | 240 | A | 115 | 17 | 5,4 | | | |
| EB132-N508-3 | 41,4 | 12312 | 34 | 370 | A | 37,2 | 10440 | 30 | 230 | A | 115 | 17 | 5,4 | | | |
| EA134-N508-3 | 44,4 | 9648 | 33 | 400 | A | 39 | 8136 | 29 | 240 | A | 154 | 24 | 7,6 | | | |
| EA142-N508-3 | 44,8 | 14904 | 35 | 500 | B | 40,4 | 12456 | 31 | 320 | A | 102 | 16 | 5,1 | | | |
| EB133-N508-3 | 49,8 | 11808 | 34 | 370 | A | 44,4 | 9936 | 30 | 230 | A | 173 | 26 | 8,2 | | | |
| EB134-N508-3 | 54 | 11376 | 33 | 370 | A | 47,4 | 9432 | 30 | 240 | A | 230 | 34 | 10,7 | | | |
| EA143-N508-3 | 54,8 | 13896 | 34 | 500 | A | 48,4 | 11520 | 30 | 320 | A | 154 | 23 | 7,3 | | | |
| EB142-N508-3 | 55,2 | 16416 | 35 | 490 | A | 49,6 | 13896 | 31 | 310 | A | 154 | 23 | 7,3 | | | |
| EA144-N508-3 | 59,2 | 12888 | 34 | 530 | A | 52 | 10872 | 30 | 320 | A | 205 | 30 | 9,5 | | | |
| EB143-N508-3 | 66,4 | 15768 | 35 | 500 | A | 59,2 | 13248 | 31 | 310 | A | 230 | 34 | 10,7 | | | |
| EB144-N508-3 | 72,0 | 15120 | 35 | 500 | A | 63,2 | 12600 | 31 | 320 | A | 307 | 44 | 13,9 | | | |



KOAL-S E 630 Selection data

| Model KOAL-S E | D E L T A (High Speed) | | | | | S T A R (Low Speed) | | | | | Total Surface m ² | Internal Volume dm ³ | R404A Charge kg | | | |
|-------------------|--------------------------------------|------------|---|---------------------|---------------|--------------------------------------|------------|---|---------------------|---------------|---------------------------------|------------------------------------|--------------------|--|--|--|
| | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input W | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input W | Energy rating | | | | | | |
| | R404A & R507A | | | | | R404A & R507A | | | | | | | | | | |
| | kW | | | m ³ /h | | dB(A) | | | W | | | | | | | |

630 mm 4 pole 3x400V

| | | | | | | | | | | | | | |
|--------------|-------|-------|----|-------|---|-------|-------|----|------|---|-----|----|------|
| EB112-N604-3 | 28,2 | 13536 | 61 | 2500 | E | 24,8 | 10728 | 52 | 1640 | E | 38 | 7 | 2,2 |
| EC112-N604-3 | 32,8 | 14040 | 61 | 2460 | E | 28,5 | 11160 | 52 | 1640 | E | 48 | 9 | 2,8 |
| EB113-N604-3 | 37,5 | 12888 | 60 | 2540 | E | 32,4 | 10152 | 52 | 1660 | E | 58 | 10 | 3,2 |
| EC113-N604-3 | 42,5 | 13536 | 61 | 2500 | E | 36,3 | 10728 | 52 | 1640 | E | 72 | 12 | 3,8 |
| EB114-N604-3 | 43,3 | 12312 | 60 | 2580 | E | 36,8 | 9576 | 52 | 1680 | E | 77 | 13 | 4,1 |
| EC114-N604-3 | 48,9 | 13032 | 60 | 2530 | E | 41,4 | 10296 | 52 | 1650 | E | 96 | 17 | 5,4 |
| EB122-N604-3 | 56,4 | 27144 | 63 | 4990 | E | 49,6 | 21456 | 54 | 3290 | E | 77 | 13 | 4,1 |
| EC122-N604-3 | 65,6 | 28080 | 63 | 4930 | E | 57 | 22320 | 54 | 3280 | E | 96 | 16 | 5,1 |
| EB123-N604-3 | 75,0 | 25776 | 63 | 5080 | E | 64,8 | 20232 | 54 | 3320 | E | 115 | 18 | 5,7 |
| EB132-N604-3 | 84,6 | 40680 | 65 | 7490 | E | 74,4 | 32184 | 56 | 4930 | E | 115 | 19 | 6,0 |
| EC123-N604-3 | 85,0 | 27144 | 63 | 4990 | E | 72,6 | 21528 | 54 | 3290 | E | 144 | 23 | 7,3 |
| EB124-N604-3 | 86,6 | 24624 | 63 | 5160 | E | 73,6 | 19224 | 54 | 3360 | E | 154 | 24 | 7,6 |
| EC124-0604-3 | 97,8 | 26136 | 63 | 5060 | E | 82,8 | 20664 | 54 | 3310 | E | 192 | 30 | 9,5 |
| EC132-N604-3 | 98,4 | 42120 | 65 | 7390 | E | 85,5 | 33480 | 56 | 4920 | E | 144 | 23 | 7,3 |
| EB133-N604-3 | 112,5 | 38664 | 65 | 7630 | E | 97,2 | 30384 | 56 | 4980 | E | 173 | 26 | 8,2 |
| EB142-N604-3 | 112,8 | 54288 | 66 | 9990 | E | 99,2 | 42912 | 57 | 6580 | E | 154 | 24 | 7,6 |
| EC133-N604-3 | 127,5 | 40680 | 65 | 7490 | E | 108,9 | 32256 | 56 | 4930 | E | 216 | 33 | 10,4 |
| EB134-N604-3 | 129,9 | 36936 | 65 | 7740 | E | 110,4 | 28800 | 56 | 5030 | E | 230 | 34 | 10,7 |
| EC142-N604-3 | 131,2 | 56160 | 66 | 9850 | E | 114 | 44640 | 57 | 6560 | E | 192 | 30 | 9,5 |
| EC134-N604-3 | 146,7 | 39168 | 65 | 7590 | E | 124,2 | 30960 | 56 | 4960 | E | 288 | 44 | 13,9 |
| EB143-N604-3 | 150,0 | 51480 | 66 | 10170 | E | 129,6 | 40464 | 57 | 6630 | E | 230 | 35 | 11,1 |
| EC143-N604-3 | 170,0 | 54216 | 66 | 9990 | E | 145,2 | 42984 | 57 | 6570 | E | 288 | 45 | 14,2 |
| EB144-N604-3 | 173,2 | 49248 | 66 | 10320 | E | 147,2 | 38376 | 57 | 6710 | E | 307 | 46 | 14,5 |
| EC144-N604-3 | 195,6 | 52200 | 66 | 10120 | E | 165,6 | 41256 | 57 | 6610 | E | 384 | 58 | 18,3 |

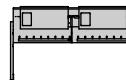
630 mm 6 pole 3x400V

| | | | | | | | | | | | | | |
|--------------|-------|-------|----|------|---|-------|-------|----|------|---|-----|----|------|
| EB112-0606-3 | 23,3 | 9792 | 46 | 700 | D | 20,8 | 7416 | 39 | 470 | D | 38 | 7 | 2,2 |
| EC112-N606-3 | 26,6 | 10440 | 46 | 700 | D | 23,5 | 7920 | 39 | 460 | C | 48 | 9 | 2,8 |
| EB113-N606-3 | 29,4 | 9072 | 46 | 710 | D | 25,3 | 6840 | 39 | 480 | C | 58 | 10 | 3,2 |
| EB114-N606-3 | 33,1 | 8496 | 47 | 730 | C | 27,6 | 6336 | 39 | 490 | C | 77 | 12 | 3,8 |
| EC113-N606-3 | 33,1 | 9864 | 46 | 700 | C | 28,4 | 7416 | 39 | 470 | C | 72 | 12 | 3,8 |
| EC114-N606-3 | 37,5 | 9288 | 46 | 710 | C | 31,4 | 7056 | 39 | 480 | C | 96 | 15 | 4,7 |
| EB122-N606-3 | 46,6 | 19584 | 49 | 1410 | D | 41,6 | 14832 | 42 | 940 | D | 77 | 13 | 4,1 |
| EC122-N606-3 | 53,2 | 20880 | 49 | 1390 | D | 47 | 15912 | 42 | 920 | C | 96 | 16 | 5,1 |
| EB123-N606-3 | 58,8 | 18144 | 49 | 1420 | D | 50,6 | 13680 | 42 | 970 | C | 115 | 18 | 5,7 |
| EB124-N606-3 | 66,2 | 16992 | 50 | 1450 | C | 55,2 | 12744 | 42 | 980 | C | 154 | 24 | 7,6 |
| EC123-N606-3 | 66,2 | 19656 | 49 | 1410 | C | 56,8 | 14904 | 42 | 930 | C | 144 | 23 | 7,3 |
| EB123-N606-3 | 69,9 | 29376 | 50 | 2110 | D | 62,4 | 22248 | 43 | 1400 | D | 115 | 18 | 5,7 |
| EC124-N606-3 | 75,0 | 18648 | 49 | 1420 | C | 62,8 | 14040 | 42 | 960 | C | 192 | 29 | 9,2 |
| EC132-N606-3 | 79,8 | 31248 | 50 | 2090 | D | 70,5 | 23832 | 44 | 1380 | C | 144 | 23 | 7,3 |
| EB133-N606-3 | 88,2 | 27216 | 51 | 2130 | D | 75,9 | 20520 | 43 | 1450 | C | 173 | 26 | 8,2 |
| EB142-N606-3 | 93,2 | 39168 | 51 | 2810 | D | 83,2 | 29664 | 44 | 1870 | D | 154 | 24 | 7,6 |
| EB134-N606-3 | 99,3 | 25488 | 52 | 2180 | C | 82,8 | 19080 | 44 | 1470 | C | 230 | 34 | 10,7 |
| EC133-N606-3 | 99,3 | 29520 | 50 | 2110 | C | 85,2 | 22320 | 43 | 1400 | C | 216 | 33 | 10,4 |
| EC142-N606-3 | 106,4 | 41688 | 51 | 2790 | D | 94 | 31752 | 45 | 1840 | C | 192 | 30 | 9,5 |
| EC134-N606-3 | 112,5 | 27936 | 50 | 2120 | C | 94,2 | 21096 | 43 | 1440 | C | 288 | 43 | 13,6 |
| EB143-N606-3 | 117,6 | 36288 | 52 | 2840 | D | 101,2 | 27288 | 44 | 1940 | C | 230 | 34 | 10,7 |
| EB144-N606-3 | 132,4 | 33984 | 53 | 2910 | C | 110,4 | 25488 | 45 | 1960 | C | 307 | 44 | 13,9 |
| EC143-N606-3 | 132,4 | 39384 | 51 | 2810 | C | 113,6 | 29808 | 44 | 1870 | C | 288 | 42 | 13,3 |
| EC144-N606-3 | 150,0 | 37296 | 51 | 2830 | C | 125,6 | 28152 | 44 | 1920 | C | 384 | 57 | 18,0 |

630 mm 8 pole 3x400V

| | | | | | | | | | | | | | |
|--------------|-------|-------|----|------|---|------|-------|----|-----|---|-----|----|------|
| EB112-N608-3 | 19,7 | 7128 | 37 | 350 | C | 16,3 | 4824 | 28 | 200 | B | 38 | 7 | 2,2 |
| EC112-N608-3 | 22,1 | 7560 | 37 | 340 | C | 18,1 | 5184 | 28 | 200 | B | 48 | 8 | 2,5 |
| EB113-N608-3 | 24,2 | 6624 | 37 | 360 | C | 19,1 | 4536 | 29 | 200 | B | 58 | 10 | 3,2 |
| EB114-N608-3 | 26,4 | 6192 | 38 | 370 | B | 20,4 | 4248 | 29 | 200 | B | 77 | 12 | 3,8 |
| EC113-N608-3 | 27,1 | 7128 | 37 | 350 | B | 21,5 | 4896 | 28 | 200 | B | 72 | 12 | 3,8 |
| EC114-N608-3 | 30 | 6840 | 37 | 360 | B | 23,1 | 4680 | 29 | 200 | A | 96 | 15 | 4,7 |
| EB122-N608-3 | 39,4 | 14256 | 40 | 700 | C | 32,6 | 9720 | 31 | 400 | B | 77 | 12 | 3,8 |
| EC122-N608-3 | 44,2 | 15192 | 40 | 680 | C | 36,2 | 10368 | 31 | 390 | B | 96 | 16 | 5,1 |
| EB123-N608-3 | 48,4 | 13248 | 40 | 720 | C | 38,2 | 9000 | 32 | 400 | B | 115 | 18 | 5,7 |
| EB124-N608-3 | 52,8 | 12384 | 41 | 740 | B | 40,8 | 8496 | 32 | 410 | B | 154 | 24 | 7,6 |
| EC123-N608-3 | 54,2 | 14328 | 40 | 700 | B | 43 | 9792 | 31 | 400 | B | 144 | 23 | 7,3 |
| EB132-N608-3 | 59,1 | 21384 | 41 | 1050 | C | 48,9 | 14544 | 33 | 600 | B | 115 | 18 | 5,7 |
| EC124-N608-3 | 60 | 13608 | 40 | 710 | B | 46,2 | 9288 | 32 | 400 | A | 192 | 29 | 9,2 |
| EC132-N608-3 | 66,3 | 22752 | 41 | 1030 | C | 54,3 | 15552 | 33 | 590 | B | 144 | 23 | 7,3 |
| EB133-N608-3 | 72,6 | 19872 | 41 | 1080 | C | 57,3 | 13536 | 34 | 610 | B | 173 | 26 | 8,2 |
| EB142-N608-3 | 78,8 | 28512 | 42 | 1400 | C | 65,2 | 19440 | 34 | 790 | B | 154 | 23 | 7,3 |
| EB134-N608-3 | 79,2 | 18576 | 42 | 1110 | B | 61,2 | 12672 | 34 | 610 | B | 230 | 34 | 10,7 |
| EC133-N608-3 | 81,3 | 21456 | 41 | 1050 | B | 64,5 | 14688 | 33 | 600 | B | 216 | 32 | 10,1 |
| EC142-N608-3 | 88,4 | 30384 | 43 | 1370 | C | 72,4 | 20736 | 34 | 780 | B | 192 | 30 | 9,5 |
| EC134-N608-3 | 90 | 20448 | 41 | 1070 | B | 69,3 | 13968 | 33 | 600 | A | 288 | 43 | 13,6 |
| EB143-N608-3 | 96,8 | 26496 | 42 | 1440 | C | 76,4 | 18072 | 35 | 810 | B | 230 | 34 | 10,7 |
| EB144-N608-3 | 105,6 | 24696 | 43 | 1480 | B | 81,6 | 16920 | 35 | 820 | B | 307 | 44 | 13,9 |
| EC143-N608-3 | 108,4 | 28656 | 42 | 1400 | B | 86 | 19584 | 34 | 790 | B | 288 | 42 | 13,3 |
| EC144-N608-3 | 120,0 | 27216 | 42 | 1430 | B | 92, | | | | | | | |

KOAL-S E 500 Selection data



| Model KOAL-S E | D E L T A (High Speed) | | | | | | S T A R (Low Speed) | | | | | | Total Surface | Internal Volume | R404A Charge | | | |
|-------------------|--------------------------------------|------------|---|----------------|---------------|--------------------------------------|---------------------|---|----------------|---------------|--|--|---------------|-----------------|--------------|--|--|--|
| | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | Energy rating | | | | | | | | |
| | R404A & R507A | | | | | R404A & R507A | | | | | | | | | | | | |
| | kW | | | m³/h | | dB(A) | | | W | | | | | | | | | |

500 mm 4 pole 1x230V

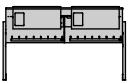
| | | | | | | | | | | | | | | |
|--------------|-------|-------|----|------|---|---|---|---|---|---|---|-----|----|------|
| EA212-N504-1 | 32,6 | 13680 | 48 | 1080 | D | - | - | - | - | - | - | 52 | 10 | 3,2 |
| EB212-N504-1 | 40,2 | 14832 | 49 | 1060 | D | - | - | - | - | - | - | 76 | 14 | 4,4 |
| EA213-N504-1 | 41,0 | 12816 | 48 | 1120 | D | - | - | - | - | - | - | 76 | 14 | 4,4 |
| EA214-N504-1 | 46,6 | 12096 | 47 | 1140 | D | - | - | - | - | - | - | 102 | 18 | 5,6 |
| EB213-N504-1 | 51,0 | 14400 | 49 | 1060 | C | - | - | - | - | - | - | 116 | 20 | 6,4 |
| EB214-N504-1 | 57,6 | 13824 | 48 | 1080 | C | - | - | - | - | - | - | 154 | 24 | 7,6 |
| EA222-N504-1 | 65,2 | 27504 | 51 | 2180 | D | - | - | - | - | - | - | 102 | 18 | 5,6 |
| EB222-N504-1 | 80,4 | 29808 | 52 | 2120 | D | - | - | - | - | - | - | 154 | 24 | 7,6 |
| EA223-N504-1 | 82,0 | 25776 | 51 | 2240 | D | - | - | - | - | - | - | 154 | 24 | 7,6 |
| EA224-N504-1 | 93,2 | 24192 | 50 | 2300 | D | - | - | - | - | - | - | 204 | 34 | 10,8 |
| EA232-N504-1 | 97,8 | 41184 | 53 | 3260 | D | - | - | - | - | - | - | 154 | 26 | 8,2 |
| EB223-N504-1 | 102,0 | 28800 | 52 | 2140 | C | - | - | - | - | - | - | 230 | 36 | 11,4 |
| EB224-N504-1 | 115,2 | 27792 | 51 | 2160 | C | - | - | - | - | - | - | 308 | 48 | 15,2 |
| EB232-N504-1 | 120,6 | 44640 | 54 | 3160 | D | - | - | - | - | - | - | 230 | 36 | 11,4 |
| EA233-N504-1 | 123,0 | 38592 | 52 | 3360 | D | - | - | - | - | - | - | 230 | 36 | 11,4 |
| EA242-N504-1 | 130,4 | 54864 | 54 | 4340 | D | - | - | - | - | - | - | 204 | 32 | 10,2 |
| EA234-N504-1 | 139,8 | 36288 | 52 | 3440 | D | - | - | - | - | - | - | 308 | 48 | 15,2 |
| EB233-N504-1 | 153,0 | 43056 | 53 | 3200 | C | - | - | - | - | - | - | 346 | 52 | 16,4 |
| EB242-N504-1 | 160,8 | 59472 | 55 | 4220 | D | - | - | - | - | - | - | 308 | 46 | 14,6 |
| EA243-N504-1 | 164,0 | 51408 | 53 | 4460 | D | - | - | - | - | - | - | 308 | 46 | 14,6 |
| EB234-N504-1 | 172,8 | 41616 | 53 | 3240 | C | - | - | - | - | - | - | 460 | 68 | 21,4 |
| EA244-N504-1 | 186,4 | 48528 | 53 | 4580 | D | - | - | - | - | - | - | 410 | 62 | 19,6 |
| EB243-N504-1 | 204,0 | 57456 | 54 | 4260 | C | - | - | - | - | - | - | 460 | 68 | 21,4 |
| EB244-N504-1 | 230,4 | 55584 | 54 | 4320 | C | - | - | - | - | - | - | 614 | 88 | 27,8 |

500 mm 6 pole 1x230V

| | | | | | | | | | | | | | | |
|--------------|-------|-------|----|------|---|---|---|---|---|---|---|-----|----|------|
| EA212-N506-1 | 27,2 | 10080 | 40 | 460 | C | - | - | - | - | - | - | 52 | 10 | 3,2 |
| EB212-N506-1 | 33,4 | 11088 | 41 | 460 | B | - | - | - | - | - | - | 76 | 14 | 4,4 |
| EA213-N506-1 | 34,2 | 9504 | 39 | 480 | B | - | - | - | - | - | - | 76 | 14 | 4,4 |
| EA214-N506-1 | 37,6 | 8928 | 39 | 500 | B | - | - | - | - | - | - | 102 | 18 | 5,6 |
| EB213-N506-1 | 41,2 | 10656 | 40 | 460 | B | - | - | - | - | - | - | 116 | 18 | 5,6 |
| EB214-N506-1 | 45,8 | 10224 | 40 | 460 | B | - | - | - | - | - | - | 154 | 24 | 7,6 |
| EA222-N506-1 | 54,4 | 20304 | 43 | 940 | C | - | - | - | - | - | - | 102 | 18 | 5,6 |
| EB222-N506-1 | 66,8 | 22032 | 44 | 900 | B | - | - | - | - | - | - | 154 | 24 | 7,6 |
| EA223-N506-1 | 68,4 | 19008 | 42 | 960 | B | - | - | - | - | - | - | 154 | 24 | 7,6 |
| EA224-N506-1 | 75,2 | 17856 | 42 | 980 | B | - | - | - | - | - | - | 204 | 32 | 10,2 |
| EA232-N506-1 | 81,6 | 30384 | 44 | 1400 | C | - | - | - | - | - | - | 154 | 24 | 7,6 |
| EB223-N506-1 | 82,4 | 21312 | 43 | 920 | B | - | - | - | - | - | - | 230 | 34 | 10,8 |
| EB224-N506-1 | 91,6 | 20592 | 43 | 940 | B | - | - | - | - | - | - | 308 | 48 | 15,2 |
| EB232-N506-1 | 100,2 | 33120 | 45 | 1360 | B | - | - | - | - | - | - | 230 | 36 | 11,4 |
| EA233-N506-1 | 102,6 | 28656 | 44 | 1440 | B | - | - | - | - | - | - | 230 | 36 | 11,4 |
| EA242-N506-1 | 108,8 | 40464 | 45 | 1880 | C | - | - | - | - | - | - | 204 | 32 | 10,2 |
| EA234-N506-1 | 112,8 | 26784 | 44 | 1480 | B | - | - | - | - | - | - | 308 | 48 | 15,2 |
| EB233-N506-1 | 123,6 | 31968 | 45 | 1380 | B | - | - | - | - | - | - | 346 | 52 | 16,4 |
| EB242-N506-1 | 133,6 | 44208 | 46 | 1820 | B | - | - | - | - | - | - | 308 | 46 | 14,6 |
| EA243-N506-1 | 136,8 | 38160 | 45 | 1940 | B | - | - | - | - | - | - | 308 | 46 | 14,6 |
| EB234-N506-1 | 137,4 | 30816 | 44 | 1400 | B | - | - | - | - | - | - | 460 | 68 | 21,4 |
| EA244-N506-1 | 150,4 | 35712 | 45 | 1980 | B | - | - | - | - | - | - | 410 | 60 | 19,0 |
| EB243-N506-1 | 164,8 | 42480 | 46 | 1840 | B | - | - | - | - | - | - | 460 | 68 | 21,4 |
| EB244-N506-1 | 183,2 | 41040 | 45 | 1860 | B | - | - | - | - | - | - | 614 | 88 | 27,8 |

500 mm 8 pole 3x400V

| | | | | | | | | | | | | | |
|--------------|-------|-------|----|------|---|-------|-------|----|-----|---|-----|----|------|
| EA212-N508-3 | 22,4 | 7488 | 32 | 240 | B | 20,2 | 6192 | 28 | 160 | A | 52 | 8 | 2,6 |
| EA213-N508-3 | 27,4 | 6912 | 32 | 240 | A | 24,2 | 5760 | 28 | 160 | A | 76 | 14 | 4,4 |
| EB212-N508-3 | 27,6 | 8208 | 32 | 240 | A | 24,8 | 6912 | 29 | 160 | A | 76 | 14 | 4,4 |
| EA214-N508-3 | 29,6 | 6480 | 31 | 260 | A | 26 | 5472 | 27 | 160 | A | 102 | 18 | 5,6 |
| EB213-N508-3 | 33,2 | 7920 | 32 | 240 | A | 29,6 | 6624 | 28 | 160 | A | 116 | 18 | 5,6 |
| EB214-N508-3 | 36 | 7632 | 32 | 240 | A | 31,6 | 6336 | 28 | 160 | A | 154 | 24 | 7,6 |
| EA222-N508-3 | 44,8 | 14976 | 35 | 500 | B | 40,4 | 12528 | 31 | 320 | A | 102 | 16 | 5,0 |
| EA223-N508-3 | 54,8 | 13968 | 35 | 500 | A | 48,4 | 11520 | 30 | 320 | A | 154 | 24 | 7,6 |
| EB222-N508-3 | 55,2 | 16416 | 35 | 500 | A | 49,6 | 13968 | 32 | 300 | A | 154 | 24 | 7,6 |
| EA224-N508-3 | 59,2 | 12960 | 34 | 520 | A | 52 | 10800 | 30 | 320 | A | 204 | 32 | 10,2 |
| EB223-N508-3 | 66,4 | 15696 | 35 | 500 | A | 59,2 | 13248 | 31 | 320 | A | 230 | 34 | 10,8 |
| EA232-N508-3 | 67,2 | 22320 | 37 | 740 | B | 60,6 | 18720 | 33 | 480 | A | 154 | 24 | 7,6 |
| EB224-N508-3 | 72 | 15120 | 35 | 500 | A | 63,2 | 12528 | 31 | 320 | A | 308 | 46 | 14,6 |
| EA233-N508-3 | 82,2 | 20880 | 36 | 740 | A | 72,6 | 17280 | 32 | 480 | A | 230 | 34 | 10,8 |
| EB232-N508-3 | 82,8 | 24624 | 37 | 740 | A | 74,4 | 20880 | 33 | 460 | A | 230 | 34 | 10,8 |
| EA234-N508-3 | 88,8 | 19296 | 36 | 800 | A | 78 | 16272 | 32 | 480 | A | 308 | 48 | 15,2 |
| EA242-N508-3 | 89,6 | 29808 | 38 | 1000 | B | 80,8 | 24912 | 34 | 640 | A | 204 | 32 | 10,2 |
| EB233-N508-3 | 99,6 | 23616 | 37 | 740 | A | 88,8 | 19872 | 33 | 460 | A | 346 | 52 | 16,4 |
| EB234-N508-3 | 108 | 22752 | 36 | 740 | A | 94,8 | 18864 | 33 | 480 | A | 460 | 68 | 21,4 |
| EA243-N508-3 | 109,6 | 27792 | 37 | 1000 | A | 96,8 | 23040 | 33 | 640 | A | 308 | 46 | 14,6 |
| EB242-N508-3 | 110,4 | 32832 | 38 | 980 | A | 99,2 | 27792 | 34 | 620 | A | 308 | 46 | 14,6 |
| EA244-N508-3 | 118,4 | 25776 | 37 | 1060 | A | 104 | 21744 | 33 | 640 | A | 410 | 60 | 19,0 |
| EB243-N508-3 | 132,8 | 31536 | 38 | 1000 | A | 118,4 | 26496 | 34 | 620 | A | 460 | 68 | 21,4 |
| EB244-N508-3 | 144,0 | 30240 | 38 | 1000 | A | 126,4 | 25200 | 34 | 640 | A | 614 | 88 | 27,8 |



KOAL-S E 630 Selection data

| Model KOAL-S E | D E L T A (High Speed) | | | | | S T A R (Low Speed) | | | | | Total Surface m ² | Internal Volume dm ³ | R404A Charge kg | | | |
|-------------------|--------------------------------------|---------------------------------|---|---------------------|---------------|--------------------------------------|---------------------------------|---|---------------------|---------------|---------------------------------|------------------------------------|--------------------|--|--|--|
| | Duty (15 K DT1 - Dew Point) | Air Volume m ³ /h | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input W | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume m ³ /h | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input W | Energy rating | | | | | | |
| | R404A & R507A | | | | | R404A & R507A | | | | | | | | | | |
| | kW | | | | | kW | | | | | | | | | | |

630 mm 4 pole 3x400V

| | | | | | | | | | | | | | |
|--------------|-------|--------|----|-------|---|-------|-------|----|-------|---|-----|-----|------|
| EB212-N604-3 | 56,4 | 27072 | 64 | 5000 | E | 49,6 | 21456 | 55 | 3280 | E | 76 | 14 | 4,4 |
| EC212-N604-3 | 65,6 | 28080 | 64 | 4920 | E | 57,0 | 22320 | 55 | 3280 | E | 96 | 18 | 5,6 |
| EB213-N604-3 | 75,0 | 25776 | 63 | 5080 | E | 64,8 | 20304 | 55 | 3320 | E | 116 | 20 | 6,4 |
| EC213-N604-3 | 85,0 | 27072 | 64 | 5000 | E | 72,6 | 21456 | 55 | 3280 | E | 144 | 24 | 7,6 |
| EB214-N604-3 | 86,6 | 24624 | 63 | 5160 | E | 73,6 | 19152 | 55 | 3360 | E | 154 | 26 | 8,2 |
| EC214-N604-3 | 97,8 | 26064 | 63 | 5060 | E | 82,8 | 20592 | 55 | 3300 | E | 192 | 34 | 10,8 |
| EB222-N604-3 | 112,8 | 54288 | 66 | 9980 | E | 99,2 | 42912 | 57 | 6580 | E | 154 | 26 | 8,2 |
| EC222-N604-3 | 131,2 | 56160 | 66 | 9860 | E | 114,0 | 44640 | 57 | 6560 | E | 192 | 32 | 10,2 |
| EB223-N604-3 | 150,0 | 51552 | 66 | 10160 | E | 129,6 | 40464 | 57 | 6640 | E | 230 | 36 | 11,4 |
| EB232-N604-3 | 169,2 | 81360 | 68 | 14980 | E | 148,8 | 64368 | 59 | 9860 | E | 230 | 38 | 12,0 |
| EC223-N604-3 | 170,0 | 54288 | 66 | 9980 | E | 145,2 | 43056 | 57 | 6580 | E | 288 | 46 | 14,6 |
| EB224-N604-3 | 173,2 | 49248 | 66 | 10320 | E | 147,2 | 38448 | 57 | 6720 | E | 308 | 48 | 15,2 |
| EC224-0604-3 | 195,6 | 52272 | 66 | 10120 | E | 165,6 | 41328 | 57 | 6620 | E | 384 | 60 | 19,0 |
| EC232-N604-3 | 196,8 | 84240 | 68 | 14780 | E | 171,0 | 66960 | 59 | 9840 | E | 288 | 46 | 14,6 |
| EB233-N604-3 | 225,0 | 77328 | 68 | 15260 | E | 194,4 | 60768 | 59 | 9960 | E | 346 | 52 | 16,4 |
| EB242-N604-3 | 225,6 | 108576 | 69 | 19980 | E | 198,4 | 85824 | 60 | 13160 | E | 308 | 48 | 15,2 |
| EC233-N604-3 | 255,0 | 81360 | 68 | 14980 | E | 217,8 | 64512 | 59 | 9860 | E | 432 | 66 | 20,8 |
| EB234-N604-3 | 259,8 | 73872 | 68 | 15480 | E | 220,8 | 57600 | 59 | 10060 | E | 460 | 68 | 21,4 |
| EC242-N604-3 | 262,4 | 112320 | 69 | 19700 | E | 228,0 | 89280 | 60 | 13120 | E | 384 | 60 | 19,0 |
| EC234-N604-3 | 293,4 | 78336 | 68 | 15180 | E | 248,4 | 61920 | 59 | 9920 | E | 576 | 88 | 27,8 |
| EB243-N604-3 | 300,0 | 102960 | 69 | 20340 | E | 259,2 | 80928 | 60 | 13260 | E | 460 | 70 | 22,2 |
| EC243-N604-3 | 340,0 | 108432 | 69 | 19980 | E | 290,4 | 85968 | 60 | 13140 | E | 576 | 90 | 28,4 |
| EB244-N604-3 | 346,4 | 98496 | 69 | 20640 | E | 294,4 | 76752 | 60 | 13420 | E | 614 | 92 | 29,0 |
| EC244-N604-3 | 391,2 | 104400 | 69 | 20240 | E | 331,2 | 82512 | 60 | 13220 | E | 768 | 116 | 36,6 |

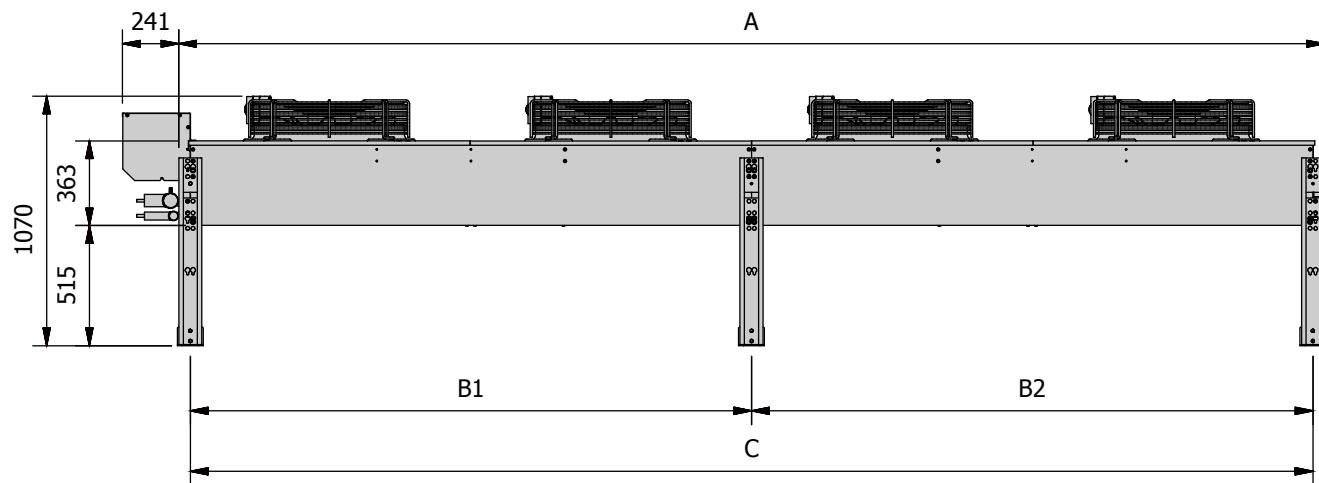
630 mm 6 pole 3x400V

| | | | | | | | | | | | | | |
|--------------|-------|-------|----|------|---|-------|-------|----|------|---|-----|-----|------|
| EB212-0606-3 | 46,6 | 19584 | 49 | 1400 | D | 41,6 | 14832 | 42 | 940 | D | 76 | 14 | 4,4 |
| EC212-N606-3 | 53,2 | 20880 | 49 | 1400 | D | 47 | 15840 | 42 | 920 | C | 96 | 18 | 5,6 |
| EB213-N606-3 | 58,8 | 18144 | 49 | 1420 | D | 50,6 | 13680 | 42 | 960 | C | 116 | 20 | 6,4 |
| EB214-N606-3 | 66,2 | 16992 | 50 | 1460 | C | 55,2 | 12672 | 42 | 980 | C | 154 | 24 | 7,6 |
| EC213-N606-3 | 66,2 | 19728 | 49 | 1400 | C | 56,8 | 14832 | 42 | 940 | C | 144 | 24 | 7,6 |
| EC214-N606-3 | 75,0 | 18576 | 49 | 1420 | C | 62,8 | 14112 | 42 | 960 | C | 192 | 30 | 9,4 |
| EB222-N606-3 | 93,2 | 39168 | 52 | 2820 | D | 83,2 | 29664 | 45 | 1880 | D | 154 | 26 | 8,2 |
| EC222-N606-3 | 106,4 | 41760 | 52 | 2780 | D | 94,0 | 31824 | 45 | 1840 | C | 192 | 32 | 10,2 |
| EB223-N606-3 | 117,6 | 36288 | 52 | 2840 | D | 101,2 | 27360 | 45 | 1940 | C | 230 | 36 | 11,4 |
| EB224-N606-3 | 132,4 | 33984 | 53 | 2900 | C | 110,4 | 25488 | 45 | 1960 | C | 308 | 48 | 15,2 |
| EC223-N606-3 | 132,4 | 39312 | 52 | 2820 | C | 113,6 | 29808 | 45 | 1860 | C | 288 | 46 | 14,6 |
| EB223-N606-3 | 139,8 | 58752 | 53 | 4220 | D | 124,8 | 44496 | 46 | 2800 | D | 230 | 36 | 11,4 |
| EC224-N606-3 | 150,0 | 37296 | 52 | 2840 | C | 125,6 | 28080 | 45 | 1920 | C | 384 | 58 | 18,4 |
| EC232-N606-3 | 159,6 | 62496 | 53 | 4180 | D | 141,0 | 47664 | 47 | 2760 | C | 288 | 46 | 14,6 |
| EB233-N606-3 | 176,4 | 54432 | 54 | 4260 | D | 151,8 | 41040 | 46 | 2900 | C | 346 | 52 | 16,4 |
| EB242-N606-3 | 186,4 | 78336 | 54 | 5620 | D | 166,4 | 59328 | 47 | 3740 | D | 308 | 48 | 15,2 |
| EB234-N606-3 | 198,6 | 50976 | 55 | 4360 | C | 165,6 | 38160 | 47 | 2940 | C | 460 | 68 | 21,4 |
| EC233-N606-3 | 198,6 | 59040 | 53 | 4220 | C | 170,4 | 44640 | 46 | 2800 | C | 432 | 66 | 20,8 |
| EC242-N606-3 | 212,8 | 83376 | 54 | 5580 | D | 188,0 | 63504 | 48 | 3680 | C | 384 | 60 | 19,0 |
| EC234-N606-3 | 225,0 | 55872 | 53 | 4240 | C | 188,4 | 42192 | 46 | 2880 | C | 576 | 86 | 27,2 |
| EB243-N606-3 | 235,2 | 72576 | 55 | 5680 | D | 202,4 | 54576 | 47 | 3880 | C | 460 | 68 | 21,4 |
| EB244-N606-3 | 264,8 | 67968 | 56 | 5820 | C | 220,8 | 50976 | 48 | 3920 | C | 614 | 88 | 27,8 |
| EC243-N606-3 | 264,8 | 78768 | 54 | 5620 | C | 227,2 | 59616 | 47 | 3740 | C | 576 | 84 | 26,6 |
| EC244-N606-3 | 300,0 | 74592 | 54 | 5660 | C | 251,2 | 56304 | 47 | 3840 | C | 768 | 114 | 36,0 |

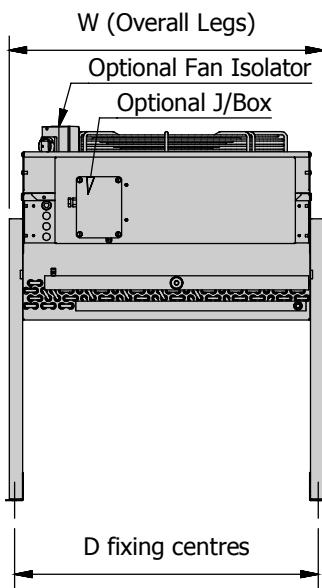
630 mm 8 pole 3x400V

| | | | | | | | | | | | | | |
|--------------|-------|-------|----|------|---|-------|-------|----|------|---|-----|----|------|
| EB212-N608-3 | 39,4 | 14256 | 40 | 700 | C | 32,6 | 9648 | 31 | 400 | B | 76 | 14 | 4,4 |
| EC212-N608-3 | 44,2 | 15120 | 40 | 680 | C | 36,2 | 10368 | 31 | 400 | B | 96 | 16 | 5,0 |
| EB213-N608-3 | 48,4 | 13248 | 40 | 720 | C | 38,2 | 9072 | 32 | 400 | B | 116 | 20 | 6,4 |
| EB214-N608-3 | 52,8 | 12384 | 41 | 740 | B | 40,8 | 8496 | 32 | 400 | B | 154 | 24 | 7,6 |
| EC213-N608-3 | 54,2 | 14256 | 40 | 700 | B | 43,0 | 9792 | 31 | 400 | B | 144 | 24 | 7,6 |
| EC214-N608-3 | 60,0 | 13680 | 40 | 720 | B | 46,2 | 9360 | 32 | 400 | A | 192 | 30 | 9,4 |
| EB222-N608-3 | 78,8 | 28512 | 43 | 1400 | C | 65,2 | 19440 | 34 | 800 | B | 154 | 24 | 7,6 |
| EC222-N608-3 | 88,4 | 30384 | 43 | 1360 | C | 72,4 | 20736 | 34 | 780 | B | 192 | 32 | 10,2 |
| EB223-N608-3 | 96,8 | 26496 | 43 | 1440 | C | 76,4 | 18000 | 35 | 800 | B | 230 | 36 | 11,4 |
| EB224-N608-3 | 105,6 | 24768 | 44 | 1480 | B | 81,6 | 16992 | 35 | 820 | B | 308 | 48 | 15,2 |
| EC223-N608-3 | 108,4 | 28656 | 43 | 1400 | B | 86,0 | 19584 | 34 | 800 | B | 288 | 46 | 14,6 |
| EB232-N608-3 | 118,2 | 42768 | 44 | 2100 | C | 97,8 | 29088 | 36 | 1200 | B | 230 | 36 | 11,4 |
| EC224-N608-3 | 120,0 | 27216 | 43 | 1420 | B | 92,4 | 18576 | 35 | 800 | A | 384 | 58 | 18,4 |
| EC232-N608-3 | 132,6 | 45504 | 44 | 2060 | C | 108,6 | 31104 | 36 | 1180 | B | 288 | 46 | 14,6 |
| EB233-N608-3 | 145,2 | 39744 | 44 | 2160 | C | 114,6 | 27072 | 37 | 1220 | B | 346 | 52 | 16,4 |
| EB242-N608-3 | 157,6 | 57024 | 45 | 2800 | C | 130,4 | 38880 | 37 | 1580 | B | 308 | 46 | 14,6 |
| EB234-N608-3 | 158,4 | 37152 | 45 | 2220 | B | 122,4 | 25344 | 37 | 1220 | B | 460 | 68 | 21,4 |
| EC233-N608-3 | 162,6 | 42912 | 44 | 2100 | B | 129,0 | 29376 | 36 | 1200 | B | 432 | 64 | 20,2 |
| EC242-N608-3 | 176,8 | 60768 | 46 | 2740 | C | 144,8 | 41472 | 37 | 1560 | B | 384 | 60 | 19,0 |
| EC234-N608-3 | 180,0 | 40896 | 44 | 2140 | B | 138,6 | 27936 | 36 | 1200 | A | 576 | 86 | 27,2 |
| EB243-N608-3 | 193,6 | 52992 | 45 | 2880 | C | 152,8 | 36144 | 38 | 1620 | B | 460 | 68 | 21,4 |
| EB244-N608-3 | 211,2 | 49392 | 46 | 296 | | | | | | | | | |

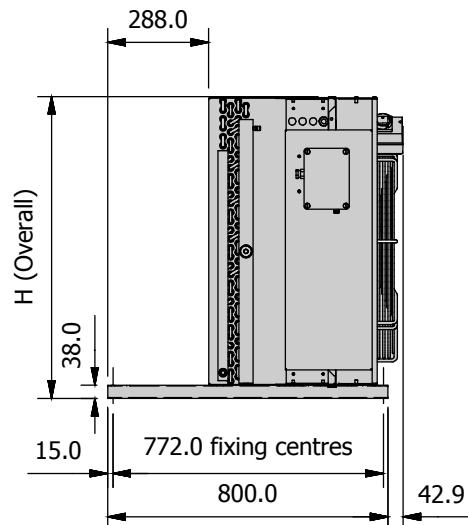
KOAL-S E Drawing



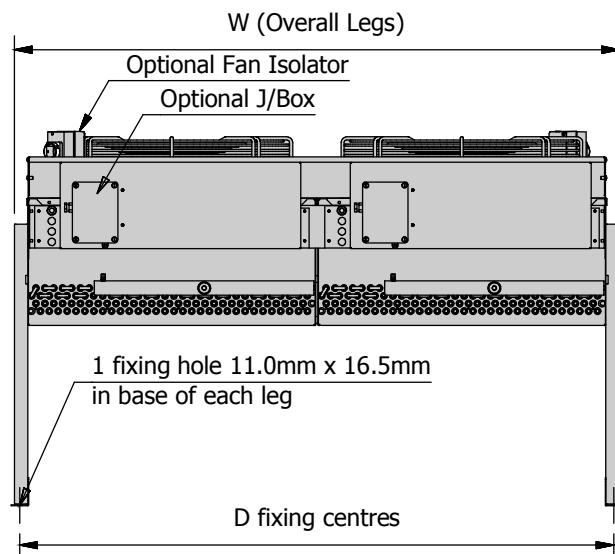
E SINGLE BANK HORIZONTAL UNIT



E VERTICAL UNIT



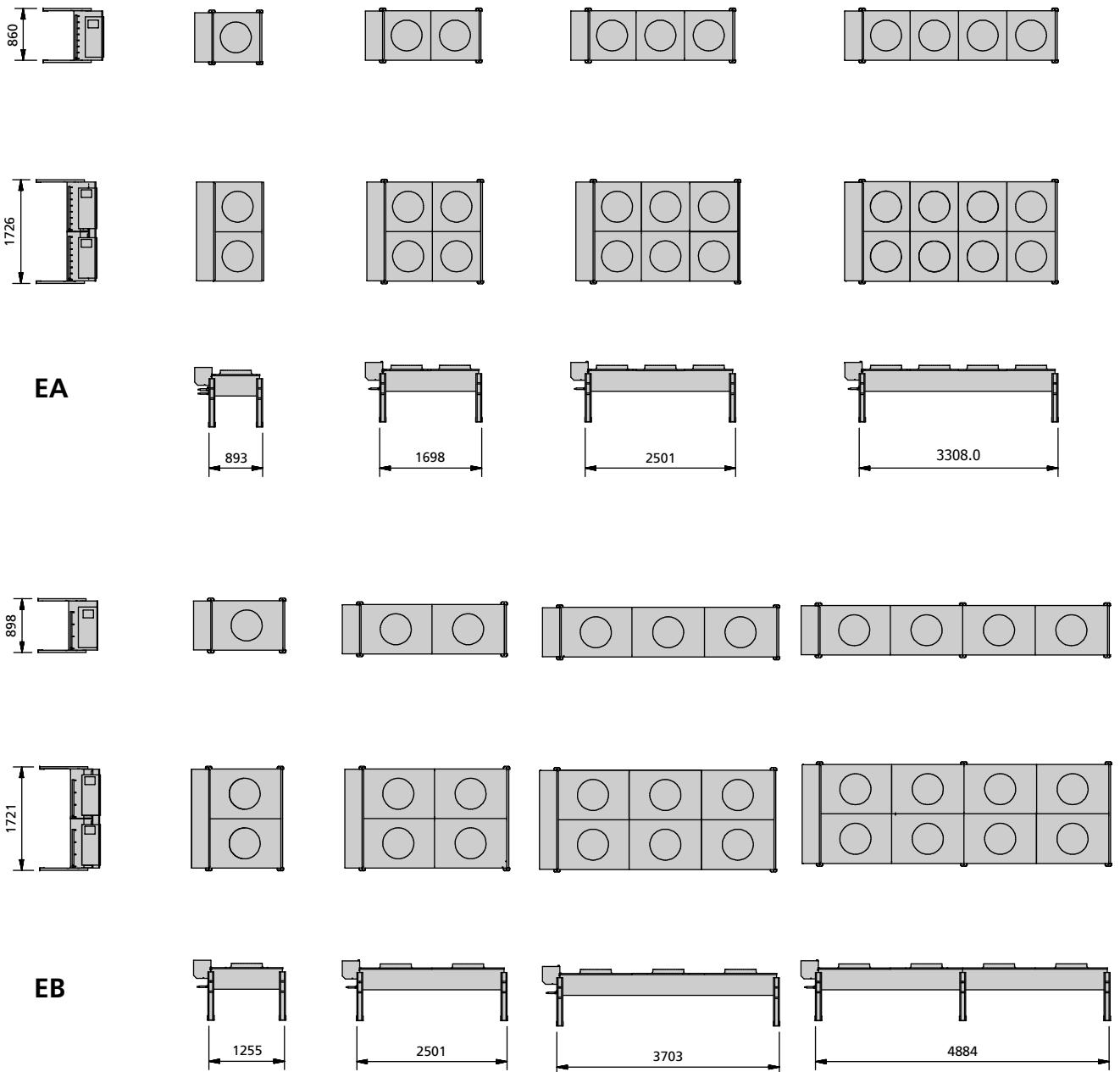
E DOUBLE BANK HORIZONTAL UNIT



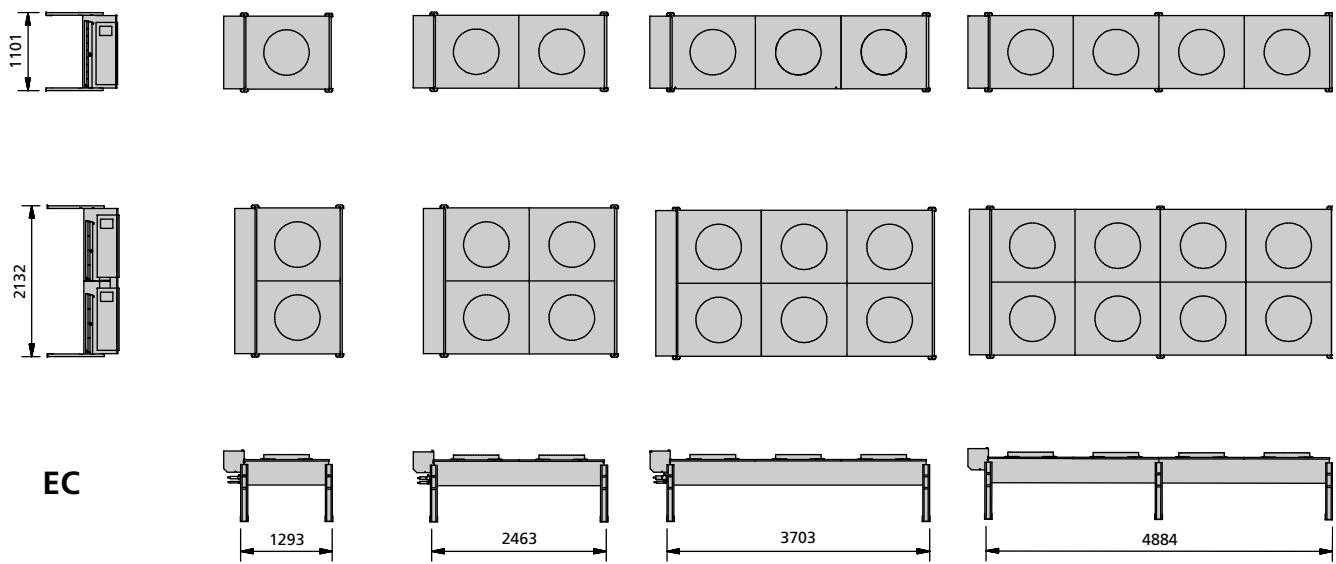
KOAL-S E Dimensions

| Model KOAL-S E | | Banks | Fans per bank | Coil Rows | A | B1 | B2 | C | D | W | H | Approx Dry Weight | | Inlet | Outlet |
|-------------------|-----|-------|---------------|-----------|--------|--------|--------|--------|------|------|------|-------------------|------|-------|--------|
| | | | | | mm | mm | mm | mm | mm | mm | mm | kg | kg | mm | mm |
| EA | 112 | 1 | 1 | 2 | 893 | - | - | 795 | 867 | 898 | 863 | 75 | 85 | 35 | 15 |
| EA | 113 | 1 | 1 | 3 | 893 | - | - | 795 | 867 | 898 | 863 | 80 | 97 | 28 | 15 |
| EA | 114 | 1 | 1 | 4 | 893 | - | - | 795 | 867 | 898 | 863 | 85 | 107 | 35 | 15 |
| EA | 122 | 1 | 2 | 2 | 1698 | - | - | 1600 | 867 | 898 | 863 | 120 | 142 | 35 | 15 |
| EA | 123 | 1 | 2 | 3 | 1698 | - | - | 1600 | 867 | 898 | 863 | 130 | 163 | 35 | 15 |
| EA | 124 | 1 | 2 | 4 | 1698 | - | - | 1600 | 867 | 898 | 863 | 140 | 184 | 35 | 15 |
| EA | 132 | 1 | 3 | 2 | 2500,5 | - | - | 2402,5 | 867 | 898 | 863 | 164 | 197 | 35 | 15 |
| EA | 133 | 1 | 3 | 3 | 2500,5 | - | - | 2402,5 | 867 | 898 | 863 | 183 | 233 | 42 | 28 |
| EA | 134 | 1 | 3 | 4 | 2500,5 | - | - | 2402,5 | 867 | 898 | 863 | 195 | 261 | 54 | 35 |
| EA | 142 | 1 | 4 | 2 | 3308 | - | - | 3210 | 867 | 898 | 863 | 209 | 254 | 42 | 28 |
| EA | 143 | 1 | 4 | 3 | 3308 | - | - | 3210 | 867 | 898 | 863 | 229 | 296 | 54 | 28 |
| EA | 144 | 1 | 4 | 4 | 3308 | - | - | 3210 | 867 | 898 | 863 | 249 | 338 | 54 | 35 |
| EA | 212 | 2 | 1 | 2 | 893 | - | - | 795 | 1695 | 1726 | - | 144 | 164 | 35 | 15 |
| EA | 213 | 2 | 1 | 3 | 893 | - | - | 795 | 1695 | 1726 | - | 154 | 187 | 28 | 15 |
| EA | 214 | 2 | 1 | 4 | 893 | - | - | 795 | 1695 | 1726 | - | 164 | 209 | 35 | 15 |
| EA | 222 | 2 | 2 | 2 | 1698 | - | - | 1600 | 1695 | 1726 | - | 233 | 278 | 35 | 15 |
| EA | 223 | 2 | 2 | 3 | 1698 | - | - | 1600 | 1695 | 1726 | - | 253 | 320 | 35 | 15 |
| EA | 224 | 2 | 2 | 4 | 1698 | - | - | 1600 | 1695 | 1726 | - | 273 | 362 | 35 | 15 |
| EA | 232 | 2 | 3 | 2 | 2500,5 | - | - | 2402,5 | 1695 | 1726 | - | 322 | 389 | 35 | 15 |
| EA | 233 | 2 | 3 | 3 | 2500,5 | - | - | 2402,5 | 1695 | 1726 | - | 360 | 460 | 42 | 28 |
| EA | 234 | 2 | 3 | 4 | 2500,5 | - | - | 2402,5 | 1695 | 1726 | - | 383 | 517 | 54 | 35 |
| EA | 242 | 2 | 4 | 2 | 3308 | - | - | 3210 | 1695 | 1726 | - | 413 | 502 | 42 | 28 |
| EA | 243 | 2 | 4 | 3 | 3308 | - | - | 3210 | 1695 | 1726 | - | 452 | 586 | 54 | 28 |
| EA | 244 | 2 | 4 | 4 | 3308 | - | - | 3210 | 1695 | 1726 | - | 492 | 670 | 54 | 35 |
| EB | 112 | 1 | 1 | 2 | 1293 | - | - | 1195 | 867 | 898 | 863 | 97 | 113 | 35 | 15 |
| EB | 113 | 1 | 1 | 3 | 1293 | - | - | 1195 | 867 | 898 | 863 | 104 | 129 | 35 | 15 |
| EB | 114 | 1 | 1 | 4 | 1293 | - | - | 1195 | 867 | 898 | 863 | 113 | 146 | 35 | 15 |
| EB | 122 | 1 | 2 | 2 | 2500,5 | - | - | 2402,5 | 867 | 898 | 863 | 163 | 196 | 35 | 15 |
| EB | 123 | 1 | 2 | 3 | 2500,5 | - | - | 2402,5 | 867 | 898 | 863 | 177 | 227 | 42 | 28 |
| EB | 124 | 1 | 2 | 4 | 2500,5 | - | - | 2402,5 | 867 | 898 | 863 | 192 | 259 | 54 | 35 |
| EB | 132 | 1 | 3 | 2 | 3703 | - | - | 3605 | 867 | 898 | 863 | 230 | 280 | 42 | 28 |
| EB | 133 | 1 | 3 | 3 | 3703 | - | - | 3605 | 867 | 898 | 863 | 252 | 327 | 54 | 28 |
| EB | 134 | 1 | 3 | 4 | 3703 | - | - | 3605 | 867 | 898 | 863 | 274 | 375 | 54 | 35 |
| EB | 142 | 1 | 4 | 2 | 4903 | 2402,5 | 2402,5 | 4805 | 867 | 898 | 863 | 322 | 389 | 42 | 28 |
| EB | 143 | 1 | 4 | 3 | 4903 | 2402,5 | 2402,5 | 4805 | 867 | 898 | 863 | 352 | 452 | 54 | 35 |
| EB | 144 | 1 | 4 | 4 | 4903 | 2402,5 | 2402,5 | 4805 | 867 | 898 | 863 | 381 | 515 | 54 | 35 |
| EB | 212 | 2 | 1 | 2 | 1293 | - | - | 1195 | 1695 | 1726 | - | 188 | 221 | 35 | 15 |
| EB | 213 | 2 | 1 | 3 | 1293 | - | - | 1195 | 1695 | 1726 | - | 203 | 252 | 35 | 15 |
| EB | 214 | 2 | 1 | 4 | 1293 | - | - | 1195 | 1695 | 1726 | - | 219 | 286 | 35 | 15 |
| EB | 222 | 2 | 2 | 2 | 2500,5 | - | - | 2402,5 | 1695 | 1726 | - | 319 | 386 | 35 | 15 |
| EB | 223 | 2 | 2 | 3 | 2500,5 | - | - | 2402,5 | 1695 | 1726 | - | 349 | 449 | 42 | 28 |
| EB | 224 | 2 | 2 | 4 | 2500,5 | - | - | 2402,5 | 1695 | 1726 | - | 379 | 512 | 54 | 35 |
| EB | 232 | 2 | 3 | 2 | 3703 | - | - | 3605 | 1695 | 1726 | - | 454 | 554 | 42 | 28 |
| EB | 233 | 2 | 3 | 3 | 3703 | - | - | 3605 | 1695 | 1726 | - | 498 | 648 | 54 | 28 |
| EB | 234 | 2 | 3 | 4 | 3703 | - | - | 3605 | 1695 | 1726 | - | 543 | 743 | 54 | 35 |
| EB | 242 | 2 | 4 | 2 | 4903 | 2402,5 | 2402,5 | 4805 | 1695 | 1726 | - | 632 | 766 | 42 | 28 |
| EB | 243 | 2 | 4 | 3 | 4903 | 2402,5 | 2402,5 | 4805 | 1695 | 1726 | - | 693 | 892 | 54 | 35 |
| EB | 244 | 2 | 4 | 4 | 4903 | 2402,5 | 2402,5 | 4805 | 1695 | 1726 | - | 751 | 1018 | 54 | 35 |
| EC | 112 | 1 | 1 | 2 | 1293 | - | - | 1195 | 1070 | 1101 | 1066 | 104 | 125 | 35 | 15 |
| EC | 113 | 1 | 1 | 3 | 1293 | - | - | 1195 | 1070 | 1101 | 1066 | 114 | 145 | 35 | 15 |
| EC | 114 | 1 | 1 | 4 | 1293 | - | - | 1195 | 1070 | 1101 | 1066 | 123 | 165 | 35 | 15 |
| EC | 122 | 1 | 2 | 2 | 2500,5 | - | - | 2402,5 | 1070 | 1101 | 1066 | 175 | 216 | 42 | 28 |
| EC | 123 | 1 | 2 | 3 | 2500,5 | - | - | 2402,5 | 1070 | 1101 | 1066 | 193 | 256 | 54 | 28 |
| EC | 124 | 1 | 2 | 4 | 2500,5 | - | - | 2402,5 | 1070 | 1101 | 1066 | 212 | 295 | 54 | 35 |
| EC | 132 | 1 | 3 | 2 | 3703 | - | - | 3605 | 1070 | 1101 | 1066 | 250 | 312 | 54 | 28 |
| EC | 133 | 1 | 3 | 3 | 3703 | - | - | 3605 | 1070 | 1101 | 1066 | 278 | 372 | 54 | 35 |
| EC | 134 | 1 | 3 | 4 | 3703 | - | - | 3605 | 1070 | 1101 | 1066 | 306 | 431 | 54 | 35 |
| EC | 142 | 1 | 4 | 2 | 4903 | 2402,5 | 2402,5 | 4805 | 1070 | 1101 | 1066 | 344 | 427 | 42 | 35 |
| EC | 143 | 1 | 4 | 3 | 4903 | 2402,5 | 2402,5 | 4805 | 1070 | 1101 | 1066 | 381 | 506 | 54 | 35 |
| EC | 144 | 1 | 4 | 4 | 4903 | 2402,5 | 2402,5 | 4805 | 1070 | 1101 | 1066 | 418 | 585 | 54 | 35 |
| EC | 212 | 2 | 1 | 2 | 1293 | - | - | 1195 | 2101 | 2132 | - | 197 | 238 | 35 | 15 |
| EC | 213 | 2 | 1 | 3 | 1293 | - | - | 1195 | 2101 | 2132 | - | 216 | 278 | 35 | 15 |
| EC | 214 | 2 | 1 | 4 | 1293 | - | - | 1195 | 2101 | 2132 | - | 234 | 317 | 35 | 15 |
| EC | 222 | 2 | 2 | 2 | 2500,5 | - | - | 2402,5 | 2101 | 2132 | - | 338 | 412 | 42 | 28 |
| EC | 223 | 2 | 2 | 3 | 2500,5 | - | - | 2402,5 | 2101 | 2132 | - | 375 | 500 | 54 | 28 |
| EC | 224 | 2 | 2 | 4 | 2500,5 | - | - | 2402,5 | 2101 | 2132 | - | 412 | 579 | 54 | 35 |
| EC | 232 | 2 | 3 | 2 | 3703 | - | - | 3605 | 2101 | 2132 | - | 488 | 613 | 54 | 28 |
| EC | 233 | 2 | 3 | 3 | 3703 | - | - | 3605 | 2101 | 2132 | - | 544 | 731 | 54 | 35 |
| EC | 234 | 2 | 3 | 4 | 3703 | - | - | 3605 | 2101 | 2132 | - | 599 | 850 | 54 | 35 |
| EC | 242 | 2 | 4 | 2 | 4903 | 2402,5 | 2402,5 | 4805 | 2101 | 2132 | - | 664 | 830 | 42 | 35 |
| EC | 243 | 2 | 4 | 3 | 4903 | 2402,5 | 2402,5 | 4805 | 2101 | 2132 | - | 738 | 988 | 54 | 35 |
| EC | 244 | 2 | 4 | 4 | 4903 | 2402,5 | 2402,5 | 4805 | 2101 | 2132 | - | 812 | 1145 | 54 | 35 |

KOAL-S E model layout



KOAL-S E model layout





Goedhart KOAL-S G

KOAL-S G Features

The KOAL-S G range of fully weather-proofed air cooled condensers is suitable for a wide variety of applications, with a duty range of 15 kW to 960 kW. These capacities can be achieved both in flat-bed horizontal and vertical configurations. In addition, Goedhart 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 by contacting your Goedhart representative to select for you the required air cooled condenser.

Goedhart achieves a close specification match through module length options of 1200 mm, 1440 mm and 1800 mm in a single (1158 mm) or double (2301 mm) 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. Goedhart is able to deliver units up to 9.6m in length with 16 fans

For the ultimate in fan speed control, Goedhart 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 (page 5).

- 3 Module length sizes (A,B,C)
- 800mm or 910mm fan sets
- 6,8, 12 pole or EC
- Optional coil fin materials and coating
- Standard powder coated, RAL7036 (Platinum Gray) robust casework. RAL 9010 Bright on request.
- factory fitted or separate control options

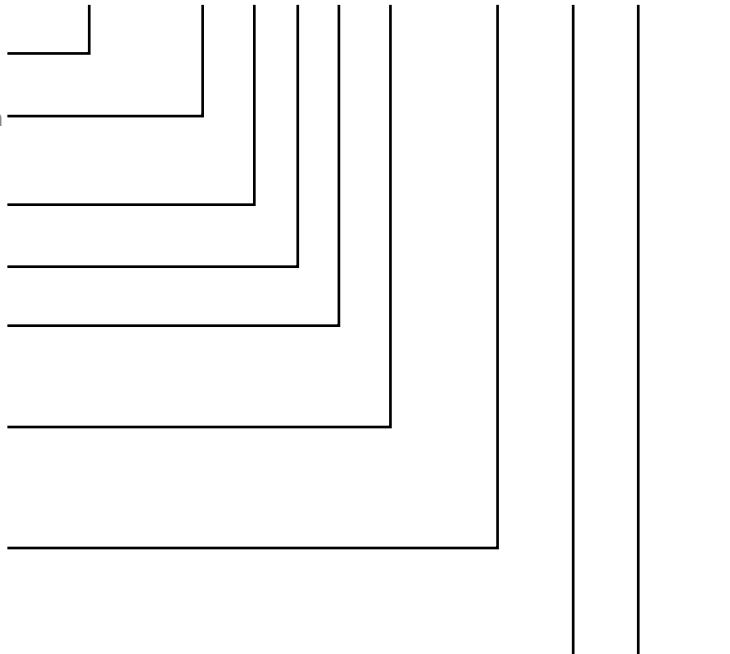
Type description

KOAL-S GA 1 3 3 H - Q8 12 D - AL

KOAL-S G

= range

A (1200mm), B (1440mm),
C (1800mm)



1 or 2

= bank of fans

1-8, 1-6, 1-5

= Fans per bank

2, 3, 4

= coils row

H = Horizontal
= Vertical air direction
V = Vertical
= Horizontal air direction

= orientation

N8=800mm, Q8=800mm,
N9=910mm, 09=910mm

= Fan type

AC pole 06, 08, 12
09EC (max 855 rpm),
L9EC (max 600 rpm)

= Motor speed

D=Delta, S=Star, 2=2 speed

= Fan connection

AL = Copper tubes/Aluminium fins

AV = Copper tubes/Vinyl coated aluminium fin

CU = Copper tubes/Copper fins

BG = Blygold tubes and fins

ALMG = Copper tubes/Sea water resistant (Almg) fins



KOAL-S G 800 mm 6p selection data

| Model KOAL-S G | D E L T A (High Speed) | | | | | S T A R (Low Speed) | | | | | Total Surface | Internal Volume | R404A Charge | | | |
|-------------------|--------------------------------------|------------|---|----------------|---------------|--------------------------------------|------------|---|----------------|---------------|---------------|-----------------|--------------|--|--|--|
| | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | Energy rating | | | | | | |
| | R404A & R507A | | | | | R404A & R507A | | | | | | | | | | |
| | kW | | | | | kW | | | | m² | | dm³ | kg | | | |



| | | | | | | | | | | | | | |
|------------|-------|--------|----|-------|---|-------|-------|----|------|---|-----|-----|------|
| GA112-N806 | 39,8 | 19116 | 49 | 1640 | E | 35,5 | 15624 | 43 | 1090 | D | 60 | 13 | 4,1 |
| GB112-N806 | 45,3 | 20412 | 48 | 1590 | E | 40,3 | 16596 | 44 | 1080 | D | 72 | 17 | 5,4 |
| GA113-N806 | 50,8 | 17316 | 50 | 1730 | E | 45,2 | 13968 | 42 | 1110 | D | 89 | 20 | 6,3 |
| GC112-N806 | 52,1 | 21744 | 48 | 1540 | D | 46,0 | 17424 | 44 | 1060 | D | 89 | 20 | 6,3 |
| GB113-N806 | 57,9 | 18792 | 49 | 1650 | D | 50,4 | 15012 | 42 | 1100 | C | 107 | 23 | 7,3 |
| GA114-N806 | 59,0 | 16236 | 51 | 1800 | D | 50,7 | 12816 | 43 | 1140 | D | 119 | 26 | 8,2 |
| GB114-N806 | 65,9 | 17676 | 50 | 1710 | D | 57,0 | 13932 | 42 | 1100 | C | 143 | 30 | 9,5 |
| GC113-N806 | 66,4 | 20232 | 48 | 1590 | D | 57,6 | 16200 | 43 | 1080 | C | 134 | 28 | 8,8 |
| GC114-N806 | 75,5 | 19188 | 49 | 1630 | C | 64,2 | 15084 | 42 | 1090 | C | 179 | 36 | 11,4 |
| GB122-N806 | 91,0 | 40824 | 51 | 3180 | E | 81,2 | 33192 | 46 | 2160 | D | 143 | 30 | 9,5 |
| GA123-N806 | 101,8 | 34632 | 53 | 3460 | E | 88,9 | 27936 | 45 | 2220 | D | 179 | 36 | 11,4 |
| GB124-N806 | 133,3 | 35388 | 52 | 3420 | D | 114,3 | 27828 | 45 | 2210 | C | 286 | 55 | 17,4 |
| GB132-N806 | 136,6 | 61200 | 53 | 4780 | E | 121,3 | 49788 | 48 | 3240 | D | 215 | 42 | 13,3 |
| GC124-N806 | 151,3 | 38376 | 51 | 3260 | C | 128,5 | 30132 | 45 | 2190 | C | 358 | 70 | 22,1 |
| GA133-N806 | 155,5 | 51948 | 55 | 5200 | E | 136,5 | 41904 | 47 | 3330 | D | 268 | 54 | 17,1 |
| GB142-N806 | 175,2 | 81612 | 54 | 6370 | E | 155,4 | 66384 | 49 | 4320 | D | 286 | 57 | 18,0 |
| GB134-N806 | 199,6 | 53064 | 54 | 5130 | D | 171,7 | 41760 | 47 | 3320 | C | 429 | 82 | 25,9 |
| GC142-N806 | 205,5 | 86940 | 54 | 6180 | D | 180,2 | 69732 | 50 | 4250 | D | 358 | 68 | 21,8 |
| GA143-N806 | 207,5 | 69264 | 56 | 6930 | E | 181,5 | 55872 | 48 | 4440 | D | 358 | 69 | 21,8 |
| GC134-N806 | 227,1 | 57528 | 53 | 4900 | C | 192,9 | 45216 | 47 | 3290 | C | 537 | 101 | 31,9 |
| GA162-N806 | 239,9 | 114768 | 56 | 9860 | E | 213,7 | 93708 | 50 | 6590 | D | 358 | 69 | 21,8 |
| GA153-N806 | 259,2 | 86580 | 56 | 8660 | E | 227,7 | 69840 | 49 | 5550 | D | 447 | 86 | 27,2 |
| GC143-N806 | 260,2 | 80928 | 54 | 6390 | D | 224,6 | 64764 | 49 | 4340 | C | 537 | 102 | 32,2 |
| GB144-N806 | 267,0 | 70740 | 55 | 6840 | D | 228,9 | 55692 | 48 | 4430 | C | 572 | 108 | 34,1 |
| GB153-N806 | 286,5 | 93960 | 55 | 8260 | D | 248,6 | 74988 | 49 | 5510 | C | 537 | 102 | 32,2 |
| GC144-N806 | 302,4 | 76716 | 54 | 6530 | C | 258,4 | 60300 | 48 | 4390 | C | 715 | 133 | 42,0 |
| GA163-N806 | 305,9 | 103896 | 57 | 10400 | E | 266,9 | 83808 | 50 | 6660 | D | 537 | 102 | 32,2 |
| GB154-N806 | 331,5 | 88416 | 56 | 8550 | D | 285,8 | 69588 | 49 | 5540 | C | 715 | 133 | 42,0 |
| GA164-N806 | 353,7 | 97524 | 59 | 10810 | D | 305,2 | 76968 | 51 | 6870 | D | 715 | 133 | 42,0 |



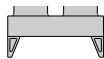
| | | | | | | | | | | | | | |
|------------|-------|--------|----|-------|---|-------|--------|----|-------|---|------|-------|-------|
| GA212-N806 | 79,6 | 38268 | 52 | 3280 | E | 71,0 | 31248 | 45 | 2190 | D | 119 | 26 | 8,2 |
| GB212-N806 | 90,6 | 40824 | 51 | 4780 | E | 80,6 | 33192 | 46 | 3240 | E | 143 | 33 | 10,4 |
| GA213-N806 | 101,6 | 34632 | 53 | 3460 | E | 88,7 | 27936 | 45 | 2220 | D | 179 | 40 | 12,6 |
| GC212-N806 | 104,1 | 43452 | 51 | 3090 | D | 92,0 | 34884 | 47 | 2120 | D | 179 | 40 | 12,6 |
| GB213-N806 | 115,8 | 37584 | 52 | 4960 | E | 100,7 | 29988 | 45 | 3300 | D | 215 | 46 | 14,5 |
| GA214-N806 | 117,9 | 32508 | 54 | 3600 | D | 101,4 | 25668 | 46 | 2290 | D | 239 | 51 | 16,1 |
| GB214-N806 | 131,7 | 35388 | 53 | 3420 | D | 112,6 | 27828 | 45 | 2215 | C | 286 | 60 | 19,0 |
| GC213-N806 | 132,8 | 40464 | 51 | 3190 | D | 115,1 | 32364 | 46 | 2170 | C | 268 | 56 | 17,7 |
| GC214-N806 | 151,0 | 38376 | 52 | 3260 | C | 128,3 | 30132 | 45 | 2190 | C | 358 | 72 | 22,8 |
| GB222-N806 | 181,9 | 81612 | 54 | 6370 | E | 162,3 | 66384 | 49 | 4320 | D | 286 | 59 | 18,6 |
| GA223-N806 | 203,7 | 69264 | 56 | 6930 | E | 177,8 | 55872 | 48 | 4440 | D | 358 | 72 | 22,8 |
| GB224-N806 | 266,5 | 70740 | 55 | 6840 | D | 228,6 | 55692 | 48 | 4430 | C | 572 | 110 | 34,8 |
| GB232-N806 | 273,1 | 122436 | 56 | 9560 | E | 242,7 | 99576 | 51 | 6480 | D | 429 | 84 | 26,5 |
| GB253-N806 | 286,5 | 93960 | 55 | 8260 | D | 248,6 | 74988 | 49 | 5510 | C | 537 | 102 | 32,2 |
| GC224-N806 | 302,5 | 76716 | 54 | 6530 | C | 257,0 | 60300 | 48 | 4390 | C | 715 | 139 | 43,9 |
| GA233-N806 | 311,1 | 103896 | 58 | 10400 | E | 273,1 | 83808 | 50 | 6660 | D | 537 | 108 | 34,1 |
| GB242-N806 | 350,4 | 163224 | 57 | 12750 | E | 310,8 | 132768 | 52 | 8650 | D | 572 | 113 | 35,7 |
| GB234-N806 | 399,2 | 106128 | 57 | 10270 | D | 343,5 | 83520 | 50 | 6650 | C | 858 | 164 | 51,8 |
| GA243-N806 | 415,0 | 138528 | 58 | 13870 | E | 363,0 | 111708 | 51 | 8880 | D | 715 | 139 | 43,9 |
| GB252-N806 | 449,6 | 204048 | 58 | 15940 | E | 399,0 | 165960 | 53 | 10810 | D | 715 | 138 | 43,6 |
| GC234-N806 | 454,1 | 115092 | 56 | 9800 | C | 385,7 | 90432 | 50 | 6590 | C | 1073 | 201 | 63,5 |
| GA253-N806 | 518,3 | 173160 | 59 | 17330 | E | 455,3 | 139644 | 52 | 11110 | D | 894 | 173 | 54,7 |
| GC252-N806 | 520,7 | 217332 | 58 | 15450 | D | 460,1 | 174348 | 54 | 10600 | D | 894 | 171 | 54,2 |
| GB244-N806 | 534,1 | 141480 | 58 | 13690 | D | 457,9 | 111384 | 51 | 8870 | C | 1145 | 217 | 68,6 |
| GB262-N806 | 543,7 | 244836 | 59 | 28680 | E | 483,6 | 199152 | 54 | 19440 | E | 858 | 164 | 52,0 |
| GC244-N806 | 604,8 | 153432 | 57 | 13070 | C | 516,7 | 120600 | 51 | 8790 | C | 1431 | 266 | 84,1 |
| GA263-N806 | 611,8 | 207792 | 60 | 20800 | E | 533,8 | 167580 | 53 | 13330 | D | 1073 | 204 | 64,5 |
| GA282-N806 | 636,9 | 306108 | 61 | 26240 | E | 567,7 | 249876 | 55 | 17520 | D | 953 | 183 | 58,2 |
| GB254-N806 | 663,1 | 176868 | 59 | 17110 | D | 571,7 | 139212 | 52 | 11090 | C | 1431 | 266 | 84,1 |
| GC253-N806 | 664,1 | 202356 | 58 | 15950 | D | 575,7 | 161892 | 52 | 10850 | C | 1342 | 253 | 80,0 |
| GB263-N806 | 694,9 | 225504 | 59 | 29760 | E | 604,5 | 180000 | 53 | 19800 | D | 1280 | 243 | 76,9 |
| GA273-N806 | 711,4 | 242424 | 61 | 24220 | E | 621,2 | 195516 | 54 | 15540 | D | 1252 | 238 | 75,2 |
| GC254-N806 | 754,8 | 191808 | 58 | 16300 | C | 641,6 | 150732 | 52 | 10950 | C | 1787 | 330 | 104,0 |
| GB264-N806 | 790,4 | 212220 | 60 | 20520 | D | 675,6 | 167040 | 53 | 13290 | C | 1716 | 319,1 | 100,9 |
| GA283-N806 | 813,0 | 277020 | 62 | 27680 | E | 709,9 | 223452 | 55 | 17760 | D | 1430 | 271 | 85,6 |
| GA284-N806 | 943,5 | 260028 | 64 | 28800 | D | 811,1 | 205272 | 56 | 18320 | D | 1907 | 353,4 | 111,7 |

KOAL-S G 800 mm 8p selection data

| Model KOAL-S G | D E L T A (High Speed) | | | | | S T A R (Low Speed) | | | | | Total Surface m ² | Internal Volume dm ³ | R404A Charge kg | | | |
|-------------------|--------------------------------------|-------------------------------------|---|-------------------------|---------------|--------------------------------------|-------------------------------------|---|-------------------------|---------------|-------------------------------------|--|------------------------|--|--|--|
| | Duty (15 K DT1 - Dew Point) | Air Volume m ³ /h | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input W | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume m ³ /h | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input W | Energy rating | | | | | | |
| | R404A & R507A | | | | | R404A & R507A | | | | | | | | | | |
| | kW | | | | | kW | | | | | | | | | | |



| | | | | | | | | | | | | | |
|------------|-------|-------|----|------|---|-------|-------|----|------|---|-----|-----|------|
| GA112-N808 | 33,9 | 14472 | 42 | 800 | D | 29,8 | 11232 | 35 | 510 | C | 60 | 13 | 4,1 |
| GB112-N808 | 38,7 | 15516 | 41 | 790 | C | 32,8 | 11880 | 35 | 500 | C | 72 | 17 | 5,4 |
| GA113-N808 | 42,9 | 13140 | 41 | 850 | C | 35,9 | 9828 | 35 | 520 | C | 89 | 20 | 6,3 |
| GC112-N808 | 44,2 | 16452 | 40 | 780 | C | 37,5 | 12600 | 34 | 490 | B | 89 | 20 | 6,3 |
| GA114-N808 | 47,6 | 11988 | 41 | 900 | C | 38,8 | 8892 | 35 | 530 | B | 119 | 26 | 8,2 |
| GB113-N808 | 48,5 | 14328 | 42 | 820 | C | 40,8 | 10800 | 35 | 510 | B | 107 | 23 | 7,3 |
| GB114-N808 | 54,2 | 13356 | 41 | 840 | C | 44,3 | 9864 | 35 | 520 | B | 143 | 30 | 9,5 |
| GC113-N808 | 55,2 | 15552 | 41 | 790 | C | 46,0 | 11628 | 35 | 500 | B | 134 | 28 | 8,8 |
| GC114-N808 | 61,8 | 14652 | 42 | 810 | B | 51,0 | 10980 | 35 | 510 | B | 179 | 36 | 11,4 |
| GB122-N808 | 77,9 | 31068 | 44 | 1590 | C | 66,6 | 23796 | 37 | 1000 | C | 143 | 30 | 9,5 |
| GA123-N808 | 84,1 | 26280 | 44 | 1700 | C | 70,0 | 19620 | 38 | 1040 | C | 179 | 36 | 11,4 |
| GB124-N808 | 108,6 | 26676 | 44 | 1690 | C | 88,5 | 19764 | 38 | 1040 | B | 286 | 55 | 17,4 |
| GB132-N808 | 116,4 | 46584 | 46 | 2380 | C | 98,8 | 35676 | 39 | 1500 | C | 215 | 42 | 13,3 |
| GC124-N808 | 123,3 | 29340 | 45 | 1620 | B | 101,3 | 21960 | 38 | 1020 | B | 358 | 70 | 22,1 |
| GA133-N808 | 129,4 | 39420 | 46 | 2550 | C | 108,1 | 29448 | 40 | 1570 | C | 268 | 54 | 17,1 |
| GB142-N808 | 148,9 | 62100 | 47 | 3180 | C | 126,4 | 47592 | 40 | 2000 | C | 286 | 57 | 18,0 |
| GB134-N808 | 163,3 | 40032 | 46 | 2540 | C | 133,4 | 29628 | 40 | 1570 | B | 429 | 82 | 25,9 |
| GA143-N808 | 172,0 | 52596 | 47 | 3400 | C | 143,4 | 39276 | 40 | 2090 | C | 358 | 69 | 21,8 |
| GC142-N808 | 173,0 | 65880 | 46 | 3130 | C | 145,9 | 50364 | 40 | 1960 | B | 358 | 69 | 21,8 |
| GC134-N808 | 185,0 | 43992 | 47 | 2430 | B | 152,1 | 32976 | 40 | 1540 | B | 537 | 101 | 31,9 |
| GB152-N808 | 191,1 | 43765 | 48 | 3980 | C | 161,9 | 59472 | 41 | 2500 | C | 358 | 69 | 21,8 |
| GA162-N808 | 204,0 | 86904 | 50 | 4840 | D | 175,5 | 67320 | 42 | 3070 | C | 358 | 69 | 21,8 |
| GC143-N808 | 215,4 | 62280 | 47 | 3190 | C | 179,2 | 46512 | 40 | 2010 | B | 537 | 102 | 32,2 |
| GA153-N808 | 216,0 | 65736 | 48 | 4260 | C | 180,9 | 49104 | 41 | 2620 | C | 447 | 86 | 27,2 |
| GB144-N808 | 217,6 | 53388 | 47 | 3380 | C | 177,1 | 39492 | 40 | 2090 | B | 572 | 108 | 34,1 |
| GB153-N808 | 237,6 | 71712 | 48 | 4100 | C | 198,1 | 54000 | 42 | 2590 | B | 537 | 102 | 32,2 |
| GC144-N808 | 248,2 | 58680 | 48 | 3240 | B | 204,8 | 43956 | 41 | 2050 | B | 715 | 133 | 42,0 |
| GA163-N808 | 252,4 | 78876 | 49 | 5110 | C | 210,2 | 58896 | 42 | 3140 | C | 537 | 102 | 32,2 |
| GB154-N808 | 272,2 | 66708 | 48 | 4230 | C | 222,8 | 49392 | 41 | 2620 | B | 715 | 133 | 42,0 |
| GA164-N808 | 287,1 | 72000 | 49 | 5410 | C | 235,5 | 53424 | 42 | 3180 | B | 715 | 133 | 42,0 |



| | | | | | | | | | | | | | |
|------------|-------|--------|----|-------|---|-------|--------|----|------|---|------|-------|-------|
| GA212-N808 | 67,8 | 28980 | 45 | 1610 | D | 58,3 | 22428 | 38 | 1020 | C | 119 | 26 | 8,2 |
| GB212-N808 | 77,3 | 31068 | 44 | 1590 | C | 65,7 | 23796 | 37 | 1500 | D | 143 | 33 | 10,4 |
| GA213-N808 | 85,8 | 26280 | 44 | 1700 | C | 71,8 | 19620 | 38 | 1040 | C | 179 | 40 | 12,6 |
| GC212-N808 | 88,5 | 32940 | 43 | 1560 | C | 75,0 | 25200 | 37 | 980 | B | 179 | 40 | 12,6 |
| GA214-N808 | 95,2 | 24012 | 44 | 1800 | C | 77,7 | 17820 | 37 | 1060 | B | 239 | 51 | 16,1 |
| GB213-N808 | 97,0 | 28692 | 45 | 1640 | C | 81,5 | 21600 | 38 | 1035 | B | 215 | 46 | 14,5 |
| GB214-N808 | 108,4 | 26676 | 44 | 1690 | C | 88,6 | 19764 | 38 | 1045 | B | 286 | 60 | 19,0 |
| GC213-N808 | 110,5 | 31140 | 44 | 1690 | C | 92,0 | 23256 | 38 | 1000 | B | 268 | 56 | 17,7 |
| GC214-N808 | 123,5 | 29340 | 45 | 1620 | B | 102,1 | 21960 | 38 | 1020 | B | 358 | 72 | 22,8 |
| GB222-N808 | 155,8 | 62100 | 47 | 3180 | C | 133,2 | 47592 | 40 | 2000 | C | 286 | 59 | 18,6 |
| GA223-N808 | 168,1 | 52596 | 47 | 3400 | C | 140,0 | 39276 | 41 | 2090 | C | 358 | 72 | 22,8 |
| GB224-N808 | 217,3 | 53388 | 47 | 3380 | C | 177,0 | 39492 | 41 | 2090 | B | 572 | 110 | 34,8 |
| GB232-N808 | 232,7 | 93168 | 49 | 4770 | C | 197,6 | 71352 | 42 | 3000 | C | 429 | 84 | 26,5 |
| GC224-N808 | 246,5 | 58680 | 48 | 3240 | B | 202,7 | 43956 | 41 | 2050 | B | 715 | 139 | 43,9 |
| GA233-N808 | 258,7 | 78876 | 49 | 5110 | C | 216,2 | 58896 | 42 | 3140 | C | 537 | 108 | 34,1 |
| GB242-N808 | 297,8 | 124236 | 50 | 6370 | C | 252,7 | 95148 | 43 | 4000 | C | 572 | 113 | 35,7 |
| GB234-N808 | 326,6 | 80064 | 49 | 5080 | C | 266,7 | 59256 | 42 | 3140 | B | 858 | 164 | 51,8 |
| GA243-N808 | 343,9 | 105156 | 50 | 6810 | C | 286,7 | 78552 | 43 | 4190 | C | 715 | 139 | 43,9 |
| GC234-N808 | 369,9 | 88020 | 50 | 4860 | B | 304,1 | 65916 | 43 | 3080 | B | 1073 | 201 | 63,5 |
| GB252-N808 | 382,3 | 83268 | 51 | 7960 | C | 323,8 | 118944 | 44 | 5000 | C | 715 | 138 | 43,6 |
| GA253-N808 | 432,0 | 131436 | 51 | 8520 | C | 361,7 | 98172 | 44 | 5240 | C | 894 | 173 | 54,7 |
| GB244-N808 | 435,1 | 106740 | 50 | 6770 | C | 354,2 | 79020 | 43 | 4190 | B | 1145 | 217 | 68,6 |
| GC252-N808 | 442,4 | 164700 | 50 | 7800 | C | 375,2 | 125928 | 44 | 4900 | B | 894 | 171 | 54,2 |
| GB262-N808 | 463,9 | 186336 | 52 | 9540 | C | 394,2 | 142740 | 45 | 9000 | D | 858 | 164 | 52,0 |
| GC244-N808 | 496,4 | 117360 | 50 | 6480 | B | 409,6 | 87912 | 43 | 4110 | B | 1431 | 266 | 84,1 |
| GA263-N808 | 504,8 | 157752 | 52 | 10220 | C | 420,4 | 117792 | 45 | 6290 | C | 1073 | 204 | 64,5 |
| GA263-N808 | 542,2 | 231768 | 55 | 12880 | D | 466,7 | 179496 | 47 | 8160 | C | 953 | 183 | 58,3 |
| GB254-N808 | 544,5 | 133452 | 51 | 8470 | C | 445,6 | 98748 | 44 | 5240 | B | 1431 | 266 | 84,1 |
| GC253-N808 | 552,5 | 155520 | 51 | 8450 | C | 460,0 | 116280 | 44 | 5000 | B | 1342 | 253 | 80,0 |
| GB263-N808 | 581,8 | 172116 | 52 | 9840 | C | 489,0 | 129600 | 46 | 6210 | B | 1280 | 243,1 | 76,9 |
| GA273-N808 | 600,3 | 184032 | 53 | 11900 | C | 502,6 | 137448 | 46 | 7280 | C | 1252 | 238 | 75,3 |
| GC254-N808 | 617,7 | 146700 | 52 | 8100 | B | 510,4 | 109872 | 45 | 5100 | B | 880 | 165 | 52,4 |
| GB264-N808 | 650,2 | 160128 | 52 | 10140 | C | 531,8 | 118512 | 45 | 6270 | B | 1716 | 319,1 | 100,9 |
| GA283-N808 | 686,1 | 210312 | 54 | 13600 | C | 574,4 | 156960 | 47 | 8320 | C | 1430 | 271 | 85,7 |
| GA284-N808 | 761,6 | 191880 | 54 | 14400 | C | 621,5 | 142416 | 47 | 8480 | B | 1907 | 353 | 111,7 |

KOAL-S G 800 mm 12p selection data

| Model KOAL-S G | D E L T A (High Speed) | | | | | | S T A R (Low Speed) | | | | | | Total Surface | Internal Volume | R404A Charge | |
|---|--------------------------------------|------------|---|----------------|---------------|--------------------------------------|---------------------|---|----------------|---------------|---------------|-----------------|---------------|-----------------|--------------|--|
| | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | Energy rating | | | | | | |
| | R404A & R507A | | | | | R404A & | | | | | | | | | | |
| | kW | m³/h | dB(A) | W | Energy rating | kW | m³/h | dB(A) | W | Energy rating | Total Surface | Internal Volume | | | | |
|  | GA112-N812 | 25,5 | 9072 | 30 | B | 22,7 | 7236 | 23 | 170 | A | 60 | 13 | 4,1 | | | |
| | GB112-N812 | 28,5 | 9612 | 29 | B | 25,6 | 7740 | 23 | 170 | A | 72 | 17 | 5,4 | | | |
| | GC112-N812 | 32,3 | 10188 | 29 | B | 29,0 | 8280 | 23 | 170 | A | 89 | 20 | 6,3 | | | |
| | GA114-N812 | 34,2 | 7416 | 30 | B | 28,2 | 5652 | 23 | 190 | A | 119 | 26 | 8,2 | | | |
| | GB113-N812 | 34,4 | 8676 | 30 | A | 29,7 | 6768 | 23 | 180 | A | 107 | 23 | 7,3 | | | |
| | GB114-N812 | 38,0 | 8028 | 30 | A | 31,7 | 6192 | 23 | 180 | A | 143 | 30 | 9,5 | | | |
| | GC113-N812 | 39,0 | 9360 | 29 | A | 34,0 | 7380 | 23 | 170 | A | 134 | 28 | 8,8 | | | |
| | GC114-N812 | 42,6 | 8892 | 30 | A | 36,1 | 6804 | 23 | 180 | A | 179 | 36 | 11,4 | | | |
| | GB122-N812 | 56,2 | 19224 | 32 | B | 50,8 | 15480 | 26 | 340 | A | 143 | 30 | 9,5 | | | |
| | GA123-N812 | 62,2 | 16344 | 33 | B | 53,3 | 12528 | 26 | 370 | A | 179 | 36 | 11,4 | | | |
| | GB124-N812 | 76,2 | 16056 | 32 | A | 63,6 | 12348 | 26 | 370 | A | 286 | 55 | 17,4 | | | |
| | GB132-N812 | 84,5 | 28836 | 34 | B | 76,3 | 23220 | 28 | 520 | A | 215 | 42 | 13,3 | | | |
| | GC124-N812 | 85,1 | 17784 | 33 | A | 72,1 | 13644 | 26 | 360 | A | 358 | 702 | 2,1 | | | |
| | GA133-N812 | 90,2 | 24516 | 34 | B | 78,3 | 18792 | 28 | 560 | A | 268 | 54 | 7,1 | | | |
| | GB142-N812 | 114,4 | 38448 | 35 | B | 102,5 | 30960 | 29 | 690 | A | 286 | 57 | 18,0 | | | |
| | GB134-N812 | 114,4 | 24084 | 34 | A | 95,5 | 18540 | 28 | 560 | A | 429 | 82 | 25,9 | | | |
| | GA143-N812 | 124,6 | 32688 | 35 | B | 106,8 | 25056 | 29 | 750 | A | 358 | 69 | 21,8 | | | |
| | GC134-N812 | 128,0 | 26676 | 35 | A | 108,5 | 20448 | 28 | 540 | A | 537 | 101 | 31,9 | | | |
| | GC142-N812 | 130,2 | 40788 | 35 | B | 1210 | 117,5 | 33156 | 29 | 680 | A | 358 | 69 | 21,8 | | |
| | GB152-N812 | 143,1 | 48024 | 35 | B | 1530 | 128,6 | 38700 | 30 | 860 | A | 358 | 69 | 21,8 | | |
| | GB144-N812 | 152,6 | 32112 | 35 | A | 1290 | 127,4 | 24732 | 29 | 750 | A | 572 | 108 | 34,1 | | |
| | GA162-N812 | 153,5 | 54324 | 37 | B | 1860 | 37,6 | 43452 | 31 | 1050 | A | 358 | 69 | 21,8 | | |
| | GA153-N812 | 154,3 | 40860 | 36 | B | 1610 | 33,1 | 31356 | 30 | 940 | A | 447 | 86 | 27,2 | | |
| | GC143-N812 | 156,5 | 37440 | 34 | A | 1230 | 136,2 | 29556 | 29 | 690 | A | 537 | 102 | 32,2 | | |
| | GC144-N812 | 169,8 | 35568 | 36 | A | 1240 | 144,6 | 27252 | 29 | 720 | A | 715 | 33 | 42,0 | | |
| | GB153-N812 | 172,7 | 43416 | 37 | A | 1560 | 149,6 | 33912 | 30 | 910 | A | 537 | 2 | 32,2 | | |
| | GA163-N812 | 187,1 | 49032 | 37 | B | 1930 | 160,4 | 37620 | 31 | 1130 | A | 537 | 102 | 32,2 | | |
| | GB154-N812 | 188,8 | 40140 | 36 | A | 1610 | 159,2 | 30888 | 30 | 940 | A | 715 | 33 | 42,0 | | |
| | GA164-N812 | 203,0 | 44388 | 38 | B | 1950 | 169,4 | 33876 | 31 | 1160 | A | 715 | 133 | 42,0 | | |
|  | GA212-N812 | 50,9 | 18108 | 33 | B | 45,4 | 14472 | 26 | 350 | A | 119 | 26 | 8,2 | | | |
| | GB212-N812 | 56,9 | 19224 | 32 | B | 51,2 | 15480 | 26 | 345 | A | 143 | 33 | 10,4 | | | |
| | GA213-N812 | 61,7 | 16344 | 33 | B | 52,7 | 12528 | 26 | 370 | A | 179 | 40 | 12,6 | | | |
| | GC212-N812 | 64,5 | 20376 | 32 | B | 58,1 | 16596 | 26 | 340 | A | 179 | 40 | 12,6 | | | |
| | GA214-N812 | 68,4 | 14796 | 33 | B | 56,5 | 11304 | 26 | 380 | A | 239 | 51 | 16,1 | | | |
| | GB213-N812 | 68,7 | 17352 | 33 | B | 59,5 | 13572 | 26 | 360 | A | 215 | 46 | 14,5 | | | |
| | GB214-N812 | 75,9 | 16056 | 32 | B | 63,5 | 12348 | 26 | 370 | A | 286 | 60 | 19,0 | | | |
| | GC213-N812 | 77,9 | 18720 | 32 | B | 68,0 | 14796 | 26 | 340 | A | 268 | 56 | 17,7 | | | |
| | GC214-N812 | 85,1 | 17784 | 33 | B | 72,2 | 13644 | 26 | 360 | A | 358 | 72 | 22,8 | | | |
| | GA233-N812 | 90,2 | 24516 | 34 | B | 78,3 | 18792 | 28 | 560 | A | 268 | 54 | 17,1 | | | |
| | GB222-N812 | 112,3 | 38448 | 35 | B | 101,5 | 30960 | 29 | 690 | A | 286 | 59 | 18,6 | | | |
| | GA223-N812 | 124,3 | 32688 | 35 | B | 106,7 | 25056 | 29 | 750 | A | 358 | 72 | 22,8 | | | |
| | GB224-N812 | 152,3 | 32112 | 35 | B | 127,2 | 24732 | 29 | 750 | A | 572 | 110 | 34,8 | | | |
| | GB232-N812 | 169,1 | 57636 | 37 | B | 1840 | 152,7 | 46440 | 31 | 1040 | A | 429 | 84 | 26,5 | | |
| | GC224-N812 | 170,2 | 35568 | 36 | B | 144,2 | 27252 | 29 | 720 | A | 715 | 139 | 43,9 | | | |
| | GA233-N812 | 180,4 | 49032 | 37 | B | 156,7 | 37620 | 31 | 1130 | A | 537 | 8 | 34,1 | | | |
| | GB242-N812 | 228,8 | 76860 | 37 | B | 205,0 | 61920 | 32 | 1380 | A | 572 | 113 | 35,7 | | | |
| | GB234-N812 | 228,8 | 48168 | 37 | B | 191,0 | 37080 | 31 | 1130 | A | 858 | 164 | 51,8 | | | |
| | GA243-N812 | 249,3 | 65376 | 38 | B | 213,7 | 50148 | 32 | 1500 | A | 715 | 39 | 43,9 | | | |
| | GC234-N812 | 256,0 | 53352 | 38 | B | 217,0 | 40896 | 31 | 1080 | A | 1073 | 201 | 63,5 | | | |
| | GB252-N812 | 286,2 | 96084 | 38 | B | 257,1 | 77400 | 33 | 1730 | A | 715 | 138 | 43,6 | | | |
| | GB244-N812 | 305,2 | 64224 | 38 | B | 254,7 | 49464 | 32 | 1500 | A | 1145 | 217 | 68,6 | | | |
| | GA253-N812 | 308,5 | 81756 | 39 | B | 266,1 | 62676 | 33 | 1880 | A | 894 | 173 | 54,7 | | | |
| | GC252-N812 | 322,6 | 101952 | 39 | B | 290,3 | 82908 | 33 | 1700 | A | 894 | 171 | 54,2 | | | |
| | GC244-N812 | 339,6 | 71136 | 38 | B | 289,1 | 54540 | 32 | 1440 | A | 431 | 266 | 84,1 | | | |
| | GB262-N812 | 341,6 | 115308 | 39 | B | 306,9 | 92880 | 34 | 2070 | A | 858 | 165 | 52,0 | | | |
| | GA263-N812 | 374,2 | 98100 | 40 | B | 320,7 | 75204 | 34 | 2260 | A | 1073 | 204 | 64,5 | | | |
| | GB254-N812 | 377,7 | 80280 | 39 | B | 318,3 | 61812 | 33 | 1880 | A | 1431 | 266 | 84,1 | | | |
| | GC253-N812 | 389,5 | 93564 | 38 | B | 339,9 | 73908 | 33 | 1700 | A | 1342 | 253 | 80,0 | | | |
| | GA282-N812 | 407,5 | 144864 | 42 | B | 363,4 | 115920 | 36 | 2800 | A | 953 | 183 | 58,3 | | | |
| | GB263-N812 | 412,3 | 104184 | 41 | B | 356,9 | 81396 | 34 | 2160 | A | 1280 | 243 | 76,9 | | | |
| | GC254-N812 | 425,6 | 88920 | 40 | B | 361,0 | 68148 | 33 | 1800 | A | 880 | 165 | 52,4 | | | |
| | GA273-N812 | 432,0 | 114444 | 41 | B | 369,2 | 87768 | 35 | 2590 | A | 1252 | 238 | 75,3 | | | |
| | GB264-N812 | 455,4 | 96372 | 40 | B | 3840 | 74160 | 34 | 2220 | A | 1716 | 319 | 100,9 | | | |
| | GA283-N812 | 493,7 | 130788 | 42 | B | 421,9 | 100296 | 36 | 2960 | A | 1430 | 271 | 85,7 | | | |
| | GA284-N812 | 547,5 | 118368 | 43 | B | 451,9 | 90360 | 36 | 3040 | A | 1907 | 353 | 111,7 | | | |

KOAL-S G 910 mm 6p selection data

| Model KOAL-S G | D E L T A (High Speed) | | | | | S T A R (Low Speed) | | | | | Energy rating | Total Surface | Internal Volume | R404A Charge | | | | |
|-------------------|--------------------------------------|------------|---|----------------|---------------|--------------------------------------|------------|---|----------------|----|---------------|---------------|-----------------|--------------|--|--|--|--|
| | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | | | | | | | | | |
| | R404A & R507A | | | | | R404A & R507A | | | | | | | | | | | | |
| | kW | | | W | | kW | | | W | m² | | dm³ | kg | | | | | |

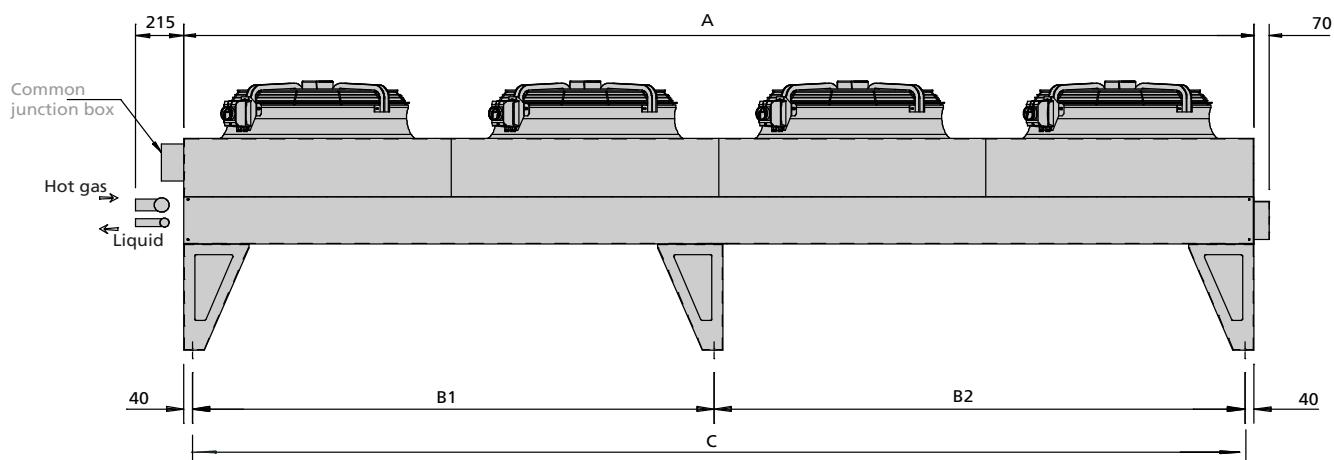


| | | | | | | | | | | | | | |
|------------|-------|--------|----|-------|---|-------|--------|----|-------|---|-----|-----|------|
| GA112-N906 | 45,4 | 22572 | 53 | 2270 | E | 39,4 | 17388 | 45 | 1530 | E | 60 | 13 | 4,1 |
| GB112-N906 | 52,2 | 24588 | 52 | 2170 | E | 43,7 | 19116 | 45 | 1490 | E | 72 | 17 | 5,4 |
| GA113-N906 | 55,5 | 20304 | 54 | 2370 | E | 45,0 | 14940 | 46 | 1570 | E | 89 | 20 | 6,3 |
| GC112-N906 | 60,0 | 26424 | 52 | 2060 | E | 50,6 | 20808 | 45 | 1450 | D | 89 | 20 | 6,3 |
| GA114-N906 | 62,2 | 18792 | 56 | 2420 | E | 48,5 | 13464 | 47 | 1590 | D | 119 | 26 | 8,2 |
| GB113-N906 | 64,1 | 22536 | 53 | 2270 | E | 51,6 | 16812 | 45 | 1540 | D | 107 | 23 | 7,3 |
| GB114-N906 | 69,8 | 21528 | 52 | 2340 | E | 56,2 | 15300 | 46 | 1560 | D | 143 | 30 | 9,5 |
| GC113-N906 | 74,2 | 24696 | 52 | 2160 | D | 60,8 | 18900 | 45 | 1500 | D | 134 | 28 | 8,8 |
| GC114-N906 | 80,8 | 23580 | 52 | 2220 | D | 65,7 | 17460 | 45 | 1530 | D | 179 | 36 | 11,4 |
| GB122-N906 | 104,8 | 49176 | 55 | 4340 | E | 87,7 | 38268 | 48 | 2990 | E | 143 | 30 | 9,5 |
| GA123-N906 | 111,2 | 40572 | 57 | 4740 | E | 88,5 | 29880 | 49 | 3140 | E | 179 | 36 | 11,4 |
| GB124-N906 | 145,5 | 43056 | 55 | 4690 | D | 116,0 | 30600 | 49 | 3130 | D | 286 | 55 | 17,4 |
| GB132-N906 | 157,5 | 73764 | 57 | 6510 | E | 131,5 | 57384 | 49 | 4490 | E | 215 | 42 | 13,3 |
| GC124-N906 | 166,9 | 47160 | 55 | 4450 | D | 135,4 | 34920 | 48 | 3060 | D | 358 | 70 | 22,1 |
| GA133-N906 | 168,9 | 60876 | 59 | 7110 | E | 135,9 | 44856 | 51 | 4710 | E | 268 | 54 | 17,1 |
| GB142-N906 | 204,0 | 98352 | 58 | 8680 | E | 168,9 | 76500 | 50 | 5990 | E | 286 | 57 | 18,0 |
| GB134-N906 | 211,3 | 64548 | 57 | 7040 | D | 169,5 | 45864 | 51 | 4700 | D | 429 | 82 | 25,9 |
| GA143-N906 | 225,6 | 81144 | 60 | 9490 | E | 180,7 | 59796 | 52 | 6290 | E | 358 | 69 | 21,8 |
| GC134-N906 | 243,2 | 70704 | 57 | 6680 | D | 197,6 | 52344 | 50 | 4590 | D | 537 | 101 | 31,9 |
| GB152-N906 | 260,5 | 122940 | 59 | 10850 | E | 216,6 | 95652 | 51 | 7490 | E | 358 | 69 | 21,8 |
| GA153-N906 | 281,3 | 101448 | 61 | 11860 | E | 226,7 | 74736 | 53 | 7860 | E | 447 | 86 | 27,2 |
| GB144-N906 | 282,8 | 86076 | 58 | 9390 | D | 225,9 | 61164 | 51 | 6260 | D | 572 | 108 | 34,1 |
| GC152-N906 | 299,9 | 132084 | 59 | 10320 | E | 253,2 | 103968 | 52 | 7260 | E | 448 | 86 | 27,2 |
| GB162-N906 | 313,1 | 147528 | 60 | 13020 | E | 261,9 | 114768 | 52 | 8990 | E | 429 | 82 | 26,0 |
| GC144-N906 | 323,1 | 94284 | 58 | 8910 | D | 264,6 | 69804 | 50 | 6120 | D | 715 | 133 | 42,0 |
| GA163-N906 | 334,1 | 121716 | 62 | 14230 | E | 265,8 | 89676 | 53 | 9430 | E | 537 | 102 | 32,2 |
| GB154-N906 | 351,0 | 107604 | 59 | 11730 | E | 282,5 | 76464 | 52 | 7830 | D | 715 | 133 | 42,0 |
| GA182-N906 | 363,4 | 180612 | 62 | 18220 | E | 314,8 | 139176 | 54 | 12260 | E | 480 | 91 | 29,0 |
| GC153-N906 | 371,1 | 123480 | 59 | 10820 | D | 304,2 | 94500 | 51 | 7520 | E | 671 | 117 | 40,0 |
| GB163-N906 | 384,7 | 135252 | 60 | 13670 | E | 309,6 | 100836 | 53 | 9250 | E | 644 | 122 | 38,4 |
| GA173-N906 | 388,3 | 142020 | 63 | 16610 | E | 315,2 | 104616 | 54 | 11000 | E | 627 | 119 | 37,4 |
| GC154-N906 | 404,1 | 117864 | 59 | 11140 | D | 328,6 | 87264 | 51 | 7660 | E | 894 | 166 | 52,2 |
| GB164-N906 | 419,0 | 129132 | 60 | 14080 | E | 337,4 | 91764 | 53 | 9400 | E | 858 | 159 | 50,2 |
| GA183-N906 | 443,8 | 162288 | 64 | 18980 | E | 360,3 | 119556 | 55 | 12580 | E | 716 | 135 | 42,6 |
| GA184-N906 | 497,6 | 150444 | 65 | 19410 | E | 388,3 | 107784 | 57 | 12730 | E | 954 | 176 | 55,6 |

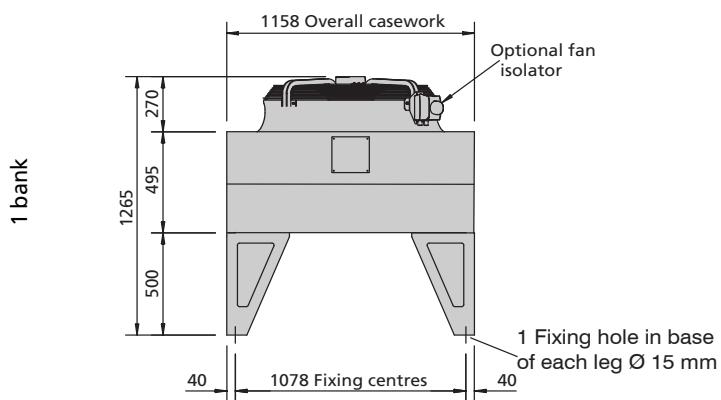


| | | | | | | | | | | | | | |
|------------|-------|--------|----|-------|---|-------|--------|----|-------|---|------|-------|------|
| GA212-N906 | 90,9 | 45144 | 56 | 4550 | E | 78,7 | 34812 | 48 | 3060 | E | 119 | 26 | 8,2 |
| GB212-N906 | 104,4 | 49176 | 55 | 6510 | E | 87,3 | 38268 | 48 | 4490 | E | 143 | 33 | 10,4 |
| GA213-N906 | 110,9 | 40572 | 57 | 4740 | E | 88,4 | 29880 | 49 | 3140 | E | 179 | 40 | 12,6 |
| GC212-N906 | 120,0 | 54000 | 55 | 4130 | E | 101,3 | 338400 | 48 | 2910 | D | 179 | 40 | 12,6 |
| GA214-N906 | 124,4 | 36000 | 58 | 4850 | E | 99,9 | 26892 | 50 | 3180 | D | 239 | 51 | 16,1 |
| GB213-N906 | 128,2 | 45072 | 56 | 6830 | E | 103,2 | 33624 | 48 | 4620 | E | 215 | 46 | 14,5 |
| GB214-N906 | 144,3 | 43056 | 55 | 7040 | E | 114,4 | 30600 | 49 | 4700 | E | 286 | 60 | 19,0 |
| GC213-N906 | 148,4 | 50400 | 55 | 4320 | D | 121,7 | 37764 | 48 | 3000 | D | 268 | 56 | 17,7 |
| GC214-N906 | 166,5 | 47160 | 55 | 4450 | D | 135,1 | 34920 | 48 | 3060 | D | 358 | 72 | 22,8 |
| GB222-N906 | 209,6 | 98352 | 58 | 8680 | E | 175,4 | 76500 | 51 | 5990 | E | 286 | 59 | 18,6 |
| GA223-N906 | 222,4 | 81144 | 60 | 9490 | E | 177,0 | 59796 | 52 | 6290 | E | 358 | 72 | 22,8 |
| GB224-N906 | 291,0 | 86076 | 58 | 9390 | D | 232,1 | 61164 | 52 | 6260 | D | 572 | 110 | 34,8 |
| GB232-N906 | 314,9 | 147528 | 60 | 13020 | E | 263,0 | 114768 | 52 | 8990 | E | 429 | 84 | 26,5 |
| GC224-N906 | 333,9 | 94284 | 58 | 8910 | D | 270,7 | 69804 | 51 | 6120 | D | 715 | 139 | 43,9 |
| GA233-N906 | 337,8 | 121716 | 62 | 14230 | E | 271,9 | 89676 | 54 | 9430 | E | 537 | 108 | 34,1 |
| GB242-N906 | 408,1 | 196704 | 61 | 17360 | E | 337,9 | 153036 | 53 | 11990 | E | 572 | 113 | 35,7 |
| GB234-N906 | 430,3 | 126792 | 61 | 14050 | D | 348,5 | 91764 | 53 | 9400 | D | 858 | 164 | 51,8 |
| GA243-N906 | 451,2 | 162288 | 63 | 18980 | E | 361,4 | 119556 | 55 | 12580 | E | 715 | 139 | 43,9 |
| GC234-N906 | 501,2 | 141444 | 60 | 13370 | D | 406,3 | 104724 | 52 | 9190 | D | 1073 | 201 | 63,5 |
| GB252-N906 | 521,0 | 245880 | 61 | 21700 | E | 433,2 | 191304 | 54 | 14980 | E | 715 | 138 | 43,6 |
| GA253-N906 | 562,5 | 202896 | 64 | 23720 | E | 453,3 | 149472 | 55 | 15720 | E | 894 | 173,0 | 54,7 |
| GB244-N906 | 576,4 | 169056 | 62 | 18730 | D | 464,7 | 122328 | 54 | 12530 | D | 1145 | 217 | 68,6 |
| GC252-N906 | 599,9 | 264168 | 61 | 20650 | E | 506,3 | 207972 | 54 | 14530 | E | 894 | 172 | 54,2 |
| GB262-N906 | 626,1 | 295056 | 63 | 26040 | E | 523,8 | 229536 | 55 | 26940 | E | 858 | 165 | 52,0 |
| GC244-N906 | 665,2 | 188604 | 60 | 17830 | D | 543,7 | 139608 | 53 | 12250 | D | 1431 | 266 | 84,1 |
| GA263-N906 | 668,2 | 243468 | 64 | 28470 | E | 531,5 | 179352 | 56 | 18870 | E | 1073 | 204 | 64,5 |
| GB254-N906 | 714,9 | 211320 | 63 | 23420 | D | 580,2 | 152928 | 55 | 15670 | D | 1431 | 266 | 84,1 |
| GA282-N906 | 726,8 | 361260 | 65 | 36440 | E | 629,6 | 278388 | 57 | 24530 | E | 953 | 183 | 58,2 |
| GC253-N906 | 742,2 | 246996 | 61 | 21640 | D | 608,4 | 189000 | 54 | 9020 | E | 1342 | 253 | 80,0 |
| GB263-N906 | 769,4 | 270540 | 63 | 27340 | E | 619,3 | 201672 | 55 | 18510 | E | 1280 | 243 | 76,8 |

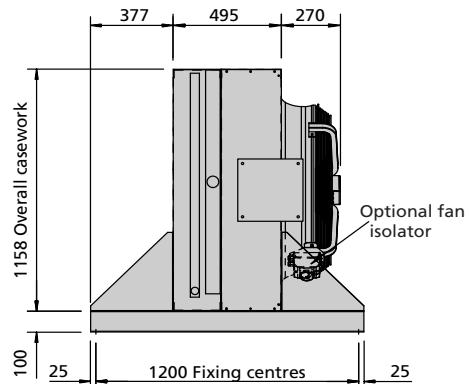
KOAL-S G Drawing



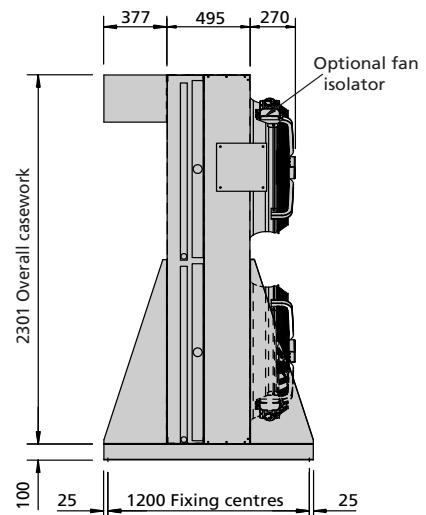
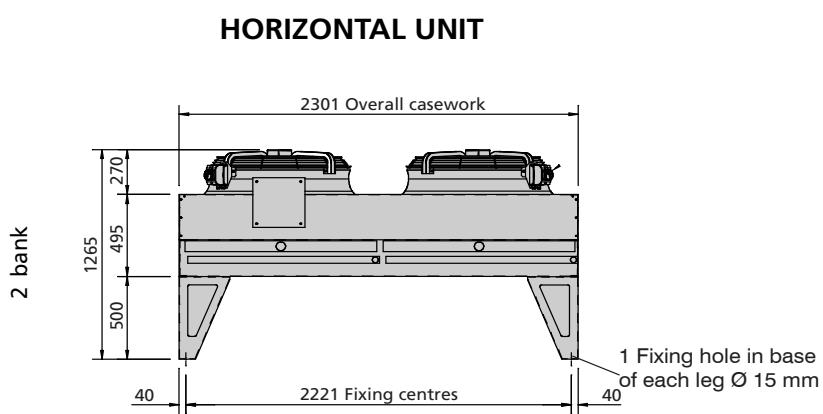
HORIZONTAL UNIT



VERTICAL UNIT



VERTICAL UNIT



Notes:

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

KOAL-S G Dimensions

| Model KOAL-S G | | Fans per bank | Coil rows | A | B1 | B2 | C | Total Unit empty weight | | | |
|-------------------|-----|---------------|-----------|------|------|------|------|-------------------------|------|------|------|
| | | | | mm | mm | mm | mm | kg | kg | kg | kg |
| GA | *12 | 1 | 2 | 1203 | - | - | 1123 | 160 | 184 | 280 | 330 |
| GA | *13 | 1 | 3 | 1203 | - | - | 1123 | 174 | 211 | 309 | 383 |
| GA | *14 | 1 | 4 | 1203 | - | - | 1123 | 188 | 238 | 337 | 436 |
| GA | *22 | 2 | 2 | 2403 | - | - | 2323 | 270 | 320 | 484 | 583 |
| GA | *23 | 2 | 3 | 2403 | - | - | 2323 | 299 | 373 | 541 | 689 |
| GA | *24 | 2 | 4 | 2403 | - | - | 2323 | 326 | 425 | 598 | 598 |
| GA | *32 | 3 | 2 | 3603 | - | - | 3523 | 380 | 454 | 687 | 835 |
| GA | *33 | 3 | 3 | 3603 | - | - | 3523 | 423 | 534 | 772 | 994 |
| GA | *34 | 3 | 4 | 3603 | - | - | 3523 | 466 | 614 | 856 | 1153 |
| GA | *42 | 4 | 2 | 4803 | 2342 | 2382 | 4723 | 500 | 599 | 899 | 1097 |
| GA | *43 | 4 | 3 | 4803 | 2342 | 2382 | 4723 | 558 | 706 | 1012 | 1309 |
| GA | *44 | 4 | 4 | 4803 | 2342 | 2382 | 4723 | 607 | 812 | 1126 | 1521 |
| GA | *52 | 5 | 2 | 6003 | 2942 | 2982 | 5923 | 614 | 738 | 1109 | 1356 |
| GA | *53 | 5 | 3 | 6003 | 2942 | 2982 | 5923 | 685 | 870 | 1251 | 1622 |
| GA | *54 | 5 | 4 | 6003 | 2942 | 2982 | 5923 | 755 | 1002 | 1392 | 1886 |
| GA | *62 | 6 | 2 | 7203 | 3542 | 3582 | 7123 | 720 | 868 | 1304 | 1601 |
| GA | *63 | 6 | 3 | 7203 | 3542 | 3582 | 7123 | 805 | 1027 | 1475 | 1920 |
| GA | *64 | 6 | 4 | 7203 | 3542 | 3582 | 7123 | 889 | 1186 | 1645 | 2238 |
| GA | *72 | 7 | 2 | 8403 | 2341 | 2381 | 8323 | - | - | 1515 | 1862 |
| GA | *73 | 7 | 3 | 8403 | 2341 | 2381 | 8323 | - | - | 1713 | 2234 |
| GA | *74 | 7 | 4 | 8403 | 2341 | 2381 | 8323 | - | - | 1912 | 2604 |
| GA | *82 | 8 | 2 | 9603 | 3541 | 3581 | 9523 | - | - | 1721 | 2117 |
| GA | *83 | 8 | 3 | 9603 | 3541 | 3581 | 9523 | - | - | 1948 | 2643 |
| GA | *84 | 8 | 4 | 9603 | 3541 | 3581 | 9523 | - | - | 2174 | 2966 |
| GB | *12 | 1 | 2 | 1443 | - | - | 1363 | 176 | 205 | 309 | 368 |
| GB | *13 | 1 | 3 | 1443 | - | - | 1363 | 192 | 237 | 342 | 432 |
| GB | *14 | 1 | 4 | 1443 | - | - | 1363 | 210 | 269 | 377 | 496 |
| GB | *22 | 2 | 2 | 2843 | - | - | 2763 | 299 | 358 | 536 | 655 |
| GB | *23 | 2 | 3 | 2843 | - | - | 2763 | 334 | 423 | 603 | 781 |
| GB | *24 | 2 | 4 | 2843 | - | - | 2763 | 367 | 486 | 671 | 909 |
| GB | *32 | 3 | 2 | 4323 | - | - | 4243 | 423 | 512 | 761 | 939 |
| GB | *33 | 3 | 3 | 4323 | - | - | 4243 | 474 | 607 | 864 | 1131 |
| GB | *34 | 3 | 4 | 4323 | - | - | 4243 | 525 | 703 | 965 | 1321 |
| GB | *42 | 4 | 2 | 5763 | 2822 | 2862 | 5683 | 557 | 676 | 999 | 1244 |
| GB | *43 | 4 | 3 | 5763 | 2822 | 2862 | 5683 | 625 | 803 | 1134 | 1490 |
| GB | *44 | 4 | 4 | 5763 | 2822 | 2862 | 5683 | 693 | 931 | 1271 | 1745 |
| GB | *52 | 5 | 2 | 7203 | 3542 | 3582 | 7123 | 686 | 834 | 1233 | 1529 |
| GB | *53 | 5 | 3 | 7203 | 3542 | 3582 | 7123 | 770 | 993 | 1402 | 1847 |
| GB | *54 | 5 | 4 | 7203 | 3542 | 3582 | 7123 | 856 | 1152 | 1572 | 2165 |
| GB | *62 | 6 | 2 | 8643 | 2821 | 2861 | 8563 | - | - | 1521 | 1881 |
| GB | *63 | 6 | 3 | 8643 | 2821 | 2861 | 8563 | - | - | 1725 | 2258 |
| GB | *64 | 6 | 4 | 8643 | 2821 | 2861 | 8563 | - | - | 2132 | 2640 |
| GC | *12 | 1 | 2 | 1803 | - | - | 1723 | 196 | 233 | 345 | 419 |
| GC | *13 | 1 | 3 | 1803 | - | - | 1723 | 218 | 274 | 387 | 498 |
| GC | *14 | 1 | 4 | 1803 | - | - | 1723 | 239 | 313 | 430 | 578 |
| GC | *22 | 2 | 2 | 3603 | - | - | 3523 | 341 | 415 | 607 | 755 |
| GC | *23 | 2 | 3 | 3603 | - | - | 3523 | 383 | 494 | 692 | 914 |
| GC | *24 | 2 | 4 | 3603 | - | - | 3523 | 426 | 574 | 777 | 1073 |
| GC | *32 | 3 | 2 | 5403 | 2642 | 2682 | 5323 | 500 | 611 | 887 | 1109 |
| GC | *33 | 3 | 3 | 5403 | 2642 | 2682 | 5323 | 564 | 730 | 1013 | 1347 |
| GC | *34 | 3 | 4 | 5403 | 2642 | 2682 | 5323 | 628 | 850 | 1140 | 1586 |
| GC | *42 | 4 | 2 | 7203 | 3542 | 3582 | 7123 | 641 | 789 | 1142 | 1438 |
| GC | *43 | 4 | 3 | 7203 | 3542 | 3582 | 7123 | 725 | 947 | 1311 | 1756 |
| GC | *44 | 4 | 4 | 7203 | 3542 | 3582 | 7123 | - | - | 1837 | 2578 |
| GC | *52 | 5 | 2 | 9003 | 3541 | 3581 | 8923 | - | - | 1413 | 1788 |
| GC | *53 | 5 | 3 | 9003 | 3541 | 3581 | 8923 | - | - | 1624 | 2181 |
| GC | *54 | 5 | 4 | 9003 | 3541 | 3581 | 8923 | - | - | 1837 | 2578 |

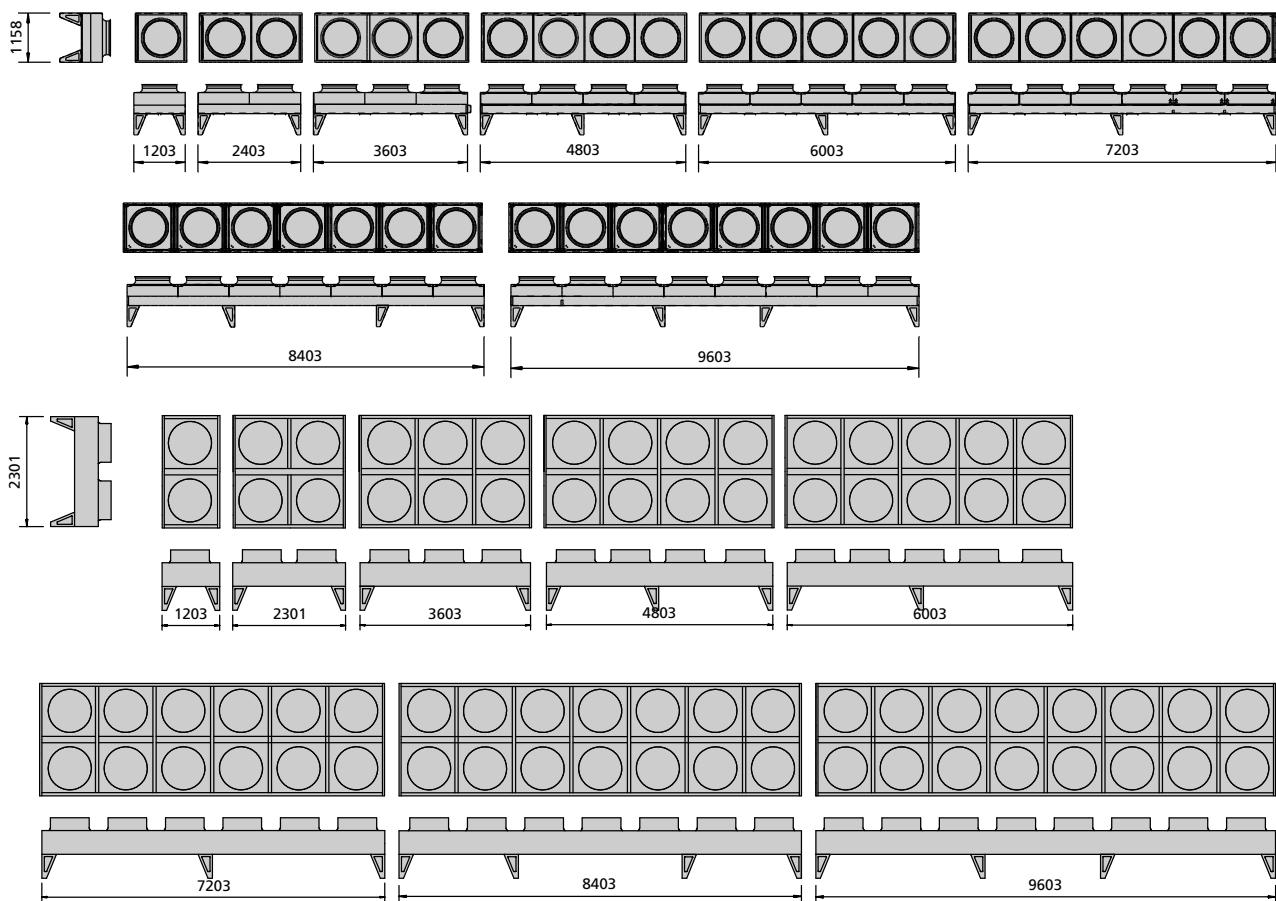
Notes:

Total unit empty weight is dependent upon the coil material used (AL = Copper tubes with Aluminium or Vinyl coated aluminium or Sea water resistant aluminium fins, CU = Copper tubes with Copper fins).

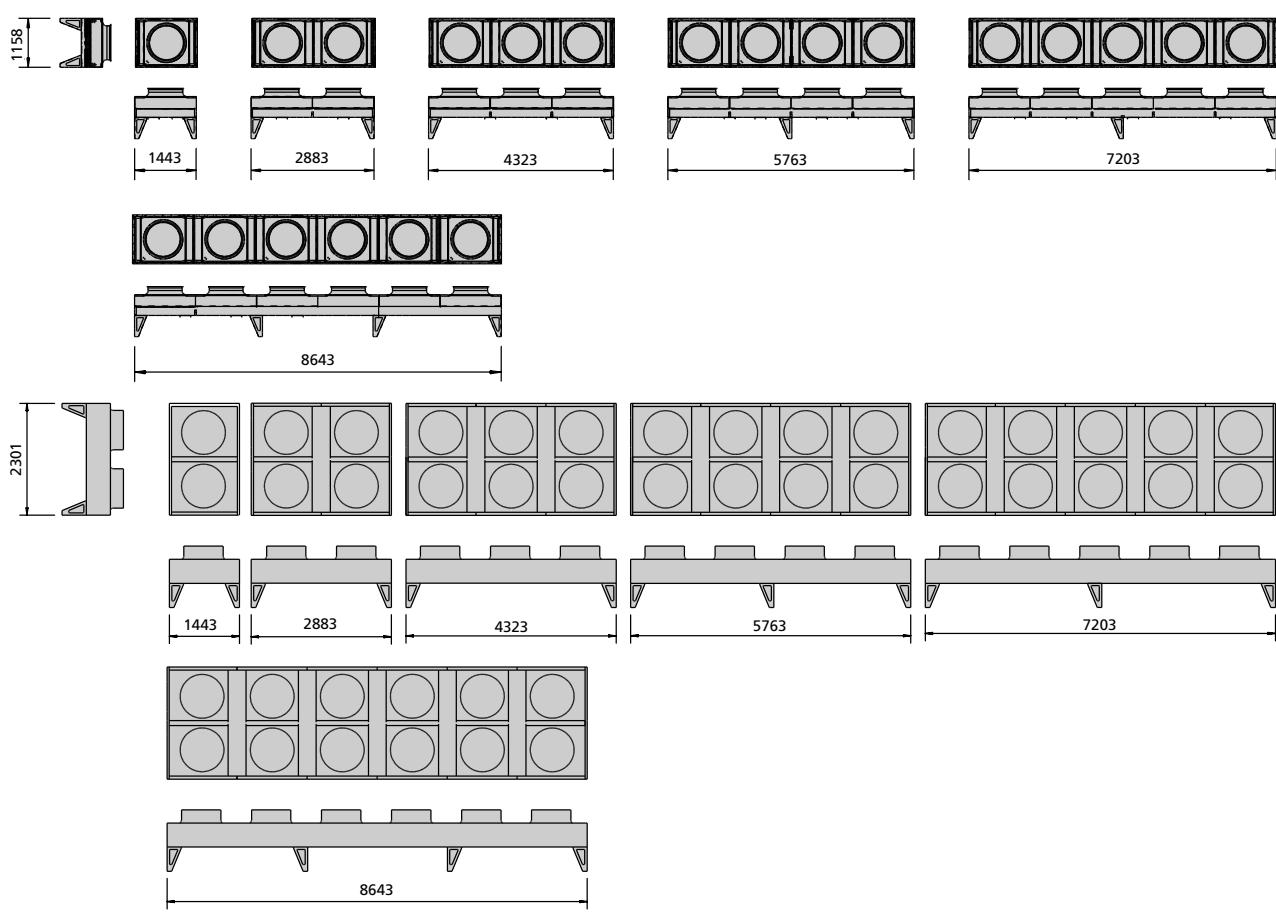
*=bank of fans (1 or 2)

KOAL-S G Model layout

GA

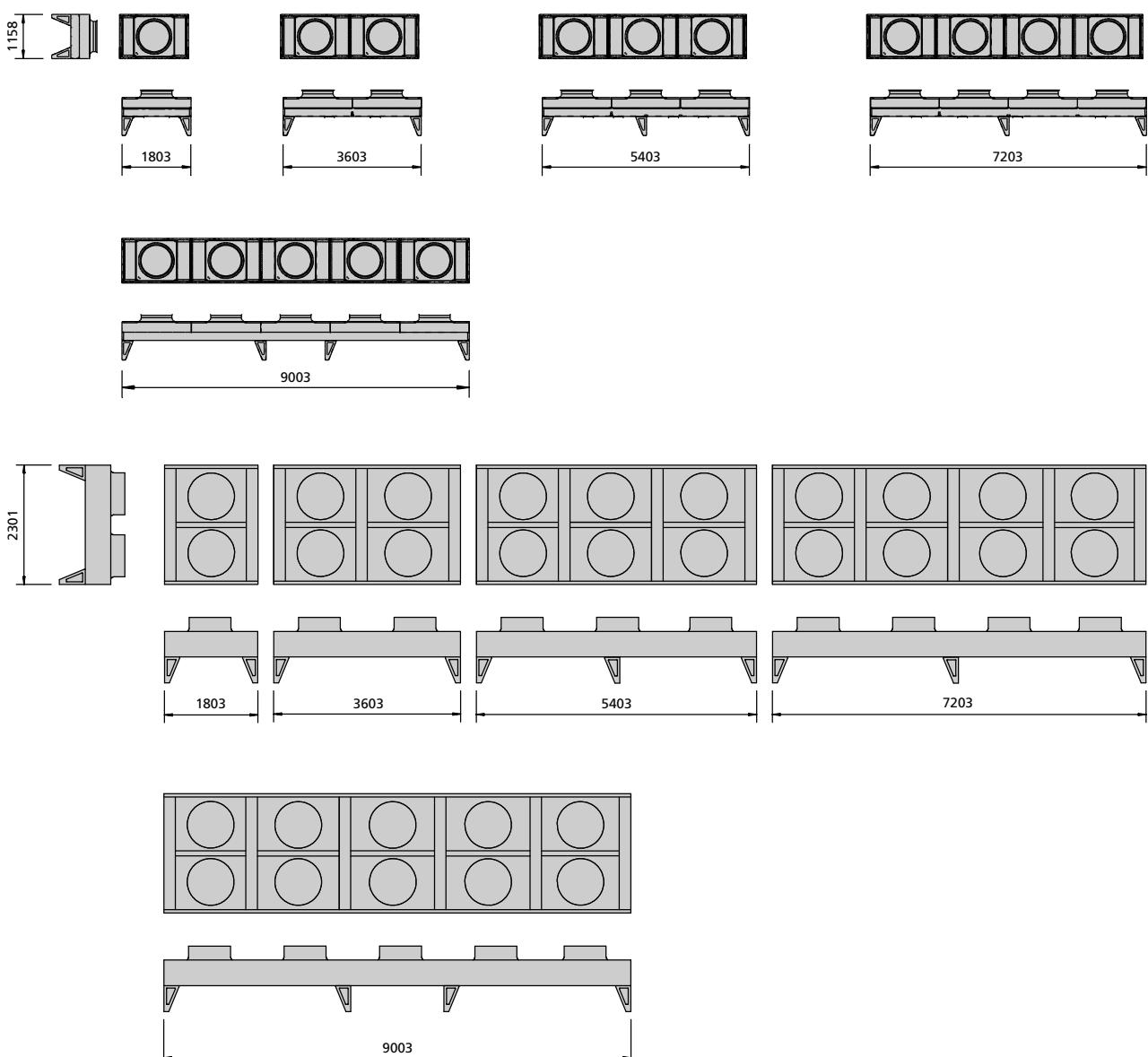


GB



KOAL-S G Model layout

GC





Goedhart KOAL-S M / X

The KOAL-S M and X 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 KOAL-S M series has a duty range of 27 kW to 595 kW and the KOAL-S X series has a duty range of 33 kW to 754 kW. 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 KOAL-S M range is available in a single width of 1539 mm and the KOAL-S X range is available in a single width of 2301 mm, both with module lengths of 1200 mm, 1440 mm and 1800 mm, up to 8 fans and 2 to 4 coil rows.

KOAL-S M/X Features

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 represented in this catalogue. For full selection data either refer to the Selection data tables or by contacting your Goedhart representative to select for you the required air cooled condenser.

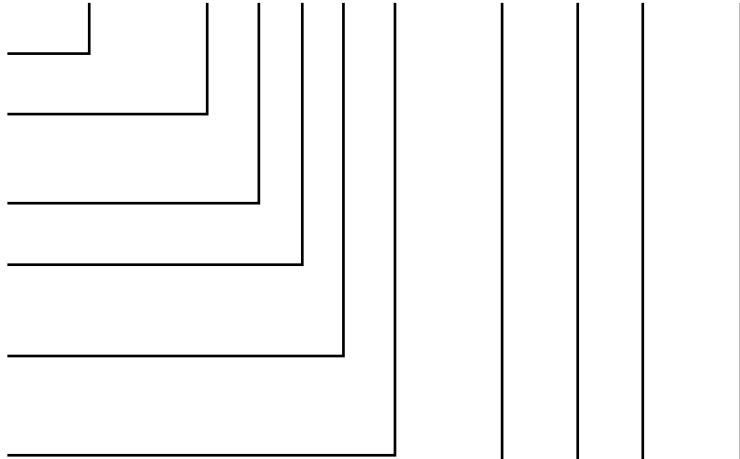
- 3 Module length sizes (A,B,C)
- 800mm or 910mm fan sets
- 6,8, 12 pole or EC
- Optional coil fin materials and coating
- Standard powder coated, RAL7036 (Platinum Gray) robust casework. RAL 9010 Bright on request.
- Factory fitted or separate control options

Type description

KOAL-S M A 1 6 2 H - N8 12 D - AL

KOAL-S M or X

= range



A (1200mm), B (1440mm),
C (1800mm)

1

= bank of fans

1-8(MA&XA), 1-6(MB&XB),
1-5(MC&XC)

= Fans per bank

2, 3, 4

= coils row

H = Horizontal

= orientation

= Vertical air direction

V = Vertical

= Horizontal air direction

N8=800mm, Q8=800mm,
N9=910mm, 09=910mm

= Fan type

AC pole 06, 08, 12
EC

= Motor speed

D=Delta, S=Star, 2=2 speed,
variable speed

= Fan connection

AL = Copper tubes/Aluminium fins

AV = Copper tubes/Vinyl coated aluminium fin

CU = Copper tubes/Copper fins

BG = Blygold tubes and fins

ALMG = Copper tubes/Sea water resistant (Almg) fins



KOAL-S M/X Selection data

| Model KOAL-S M/X | D E L T A (High Speed) | | | | | S T A R (Low Speed) | | | | | Total Surface | Internal Volume | R404A Charge |
|-----------------------------|--------------------------------------|-----------------------------|--------------------------------------|----------------|------------------|--------------------------------------|------------|--------------------------------------|----------------|---------------|---------------|-----------------|--------------|
| | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m | Power Input | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m | Power Input | Energy rating | | | |
| | R404A & R507A | Air Volume (+/- 2 dB(A)) | | | R404A & R507A | Air Volume (+/- 2 dB(A)) | | | | | | | |
| | kW | m³/h | dB(A) | W | | kW | m³/h | dB(A) | W | | m² | dm³ | kg |
| 800 mm 6 pole 3x400V | | | | | | | | | | | | | |
| MA112-N806 | 47,9 | 21060 | 48 | 1560 | D | 42,5 | 17208 | 44 | 1070 | D | 80 | 20 | 6,3 |
| MB113-N806 | 67,4 | 20340 | 48 | 1580 | D | 58,8 | 16452 | 44 | 1070 | C | 143 | 31 | 9,8 |
| MC114-N806 | 86,5 | 20412 | 48 | 1570 | C | 73,8 | 16380 | 44 | 1070 | C | 239 | 48 | 15,2 |
| MA122-N806 | 96,2 | 42120 | 51 | 3130 | D | 85,3 | 34380 | 47 | 2140 | D | 159 | 34 | 10,7 |
| MB123-N806 | 136,5 | 40680 | 51 | 3160 | D | 118,1 | 32940 | 46 | 2150 | C | 286 | 56 | 17,7 |
| MC124-N806 | 173,9 | 40824 | 51 | 3140 | C | 148,0 | 32760 | 47 | 2150 | C | 477 | 93 | 29,4 |
| MB133-N806 | 204,4 | 61020 | 53 | 4750 | D | 177,4 | 49392 | 48 | 3230 | C | 429 | 84 | 26,5 |
| MC134-N806 | 260,2 | 61236 | 53 | 4710 | C | 220,3 | 49104 | 48 | 3220 | C | 715 | 136 | 43,0 |
| MC143-N806 | 305,5 | 85788 | 54 | 6160 | C | 262,4 | 68832 | 50 | 4250 | C | 715 | 136 | 43,0 |
| MC144-N806 | 348,4 | 81684 | 54 | 6280 | C | 296,3 | 65484 | 49 | 4300 | C | 954 | 177 | 55,9 |
| MB154-N806 | 391,4 | 96660 | 55 | 8090 | C | 333,6 | 77328 | 49 | 5470 | C | 954 | 184 | 58,1 |
| MC154-N806 | 432,7 | 102096 | 55 | 7850 | C | 369,1 | 81864 | 50 | 5350 | C | 1192 | 221 | 69,8 |
| MB164-N806 | 468,4 | 115992 | 56 | 9660 | C | 397,9 | 92808 | 50 | 6540 | C | 1145 | 217 | 68,7 |
| MA174-N806 | 493,2 | 127980 | 57 | 11620 | D | 420,1 | 101880 | 51 | 7700 | C | 1113 | 212 | 66,9 |
| MA184-N806 | 563,7 | 146268 | 58 | 13280 | D | 480,1 | 116640 | 52 | 8800 | C | 1272 | 241 | 76,3 |
| XA112-N806 | 60,3 | 22968 | 48 | 1580 | D | 52,0 | 18360 | 44 | 1040 | C | 119 | 26 | 8,2 |
| XB113-N806 | 82,7 | 22176 | 48 | 1510 | C | 70,8 | 17676 | 44 | 1050 | C | 215 | 44 | 13,9 |
| XC114-N806 | 102,9 | 22032 | 48 | 1500 | C | 86,5 | 17460 | 44 | 1050 | B | 358 | 72 | 22,8 |
| XA122-N806 | 120,8 | 45936 | 51 | 3160 | D | 103,9 | 36756 | 47 | 2090 | C | 239 | 50 | 15,8 |
| XB123-N806 | 163,2 | 44352 | 51 | 3020 | C | 139,0 | 35352 | 47 | 2100 | C | 429 | 84 | 26,5 |
| XC124-N806 | 204,3 | 44100 | 51 | 3010 | C | 171,5 | 34920 | 47 | 2100 | B | 715 | 134 | 42,3 |
| XB133-N806 | 244,8 | 66528 | 53 | 4540 | C | 208,6 | 53028 | 48 | 3150 | C | 644 | 121 | 38,2 |
| XC134-N806 | 306,5 | 66132 | 53 | 4520 | C | 257,3 | 52380 | 48 | 3150 | B | 1073 | 201 | 63,5 |
| XC143-N806 | 353,0 | 91332 | 54 | 5940 | C | 300,4 | 72468 | 49 | 4170 | B | 1073 | 200 | 63,2 |
| XC144-N806 | 412,7 | 88164 | 54 | 6020 | C | 346,4 | 69840 | 49 | 4200 | B | 1431 | 263 | 83,1 |
| XB154-N806 | 471,8 | 106272 | 55 | 7690 | C | 399,3 | 84672 | 50 | 5310 | B | 1431 | 263 | 83,1 |
| XC154-N806 | 514,3 | 110196 | 55 | 7500 | C | 432,5 | 87120 | 50 | 5250 | B | 1789 | 328 | 103,5 |
| XB164-N806 | 563,6 | 127548 | 56 | 9180 | C | 476,6 | 101520 | 52 | 6360 | B | 1717 | 314 | 99,3 |
| XA174-N806 | 604,9 | 142920 | 57 | 10990 | C | 512,6 | 114480 | 52 | 7490 | C | 1669 | 308 | 97,5 |
| XA184-N806 | 691,3 | 163332 | 58 | 12560 | C | 585,8 | 131040 | 53 | 8560 | C | 1907 | 352 | 111,2 |
| 800 mm 8 pole 3x400V | | | | | | | | | | | | | |
| MA112-N808 | 41,3 | 16056 | 41 | 790 | C | 35,0 | 12240 | 34 | 490 | B | 80 | 20 | 6,3 |
| MB113-N808 | 56,7 | 15552 | 41 | 790 | B | 47,3 | 11844 | 34 | 500 | B | 143 | 31 | 9,8 |
| MC114-N808 | 71,0 | 15768 | 41 | 790 | B | 58,1 | 11988 | 34 | 490 | A | 239 | 48 | 15,2 |
| MA122-N808 | 83,0 | 32076 | 44 | 1580 | C | 70,2 | 24516 | 37 | 990 | B | 159 | 34 | 10,7 |
| MB123-N808 | 113,6 | 31140 | 44 | 1590 | B | 94,6 | 23688 | 37 | 1000 | B | 286 | 56 | 17,7 |
| MC124-N808 | 142,4 | 31536 | 44 | 1580 | B | 116,5 | 23940 | 37 | 990 | A | 477 | 93 | 29,4 |
| MB133-N808 | 170,8 | 46692 | 46 | 2380 | B | 142,6 | 35568 | 39 | 1500 | B | 429 | 84 | 26,5 |
| MC134-N808 | 211,8 | 47340 | 45 | 2370 | B | 173,0 | 35928 | 39 | 1490 | A | 715 | 136 | 43,0 |
| MC143-N808 | 254,5 | 65664 | 46 | 3130 | B | 212,8 | 50076 | 40 | 1960 | B | 715 | 136 | 43,0 |
| MC144-N808 | 285,1 | 63108 | 46 | 3170 | B | 233,1 | 47916 | 40 | 1990 | A | 954 | 177 | 55,9 |
| MB154-N808 | 318,3 | 73584 | 48 | 4020 | B | 262,3 | 56196 | 41 | 2550 | B | 954 | 184 | 58,1 |
| MC154-N808 | 355,2 | 78876 | 47 | 3950 | B | 290,7 | 59868 | 41 | 2450 | A | 1192 | 221 | 69,8 |
| MB164-N808 | 379,2 | 88308 | 50 | 4800 | B | 312,6 | 67428 | 42 | 3060 | B | 1145 | 217 | 68,7 |
| MA174-N808 | 398,5 | 95796 | 50 | 5740 | C | 329,1 | 73080 | 44 | 3640 | B | 1113 | 212 | 66,9 |
| MA184-N808 | 455,4 | 109512 | 51 | 6560 | C | 376,1 | 83520 | 45 | 4160 | B | 1272 | 241 | 76,3 |
| XA112-N808 | 50,8 | 17280 | 41 | 750 | C | 43,4 | 13284 | 34 | 470 | B | 119 | 26 | 8,2 |
| XB113-N808 | 68,8 | 16956 | 41 | 760 | B | 57,1 | 12960 | 34 | 480 | A | 215 | 44 | 13,9 |
| XC114-N808 | 83,8 | 16992 | 41 | 750 | A | 68,4 | 13032 | 34 | 480 | A | 358 | 72 | 22,8 |
| XA122-N808 | 101,3 | 34560 | 43 | 1500 | C | 86,5 | 26604 | 37 | 950 | B | 239 | 50 | 15,8 |
| XB123-N808 | 135,1 | 33876 | 44 | 1520 | B | 112,8 | 25920 | 37 | 960 | A | 429 | 84 | 26,5 |
| XC124-N808 | 167,0 | 33984 | 43 | 1510 | A | 135,7 | 26028 | 37 | 960 | A | 715 | 134 | 42,3 |
| XB133-N808 | 202,7 | 50832 | 45 | 2290 | B | 169,3 | 38916 | 39 | 1450 | A | 644 | 121 | 38,2 |
| XC134-N808 | 251,0 | 51012 | 45 | 2270 | A | 203,6 | 39060 | 39 | 1440 | A | 1073 | 201 | 63,5 |
| XC143-N808 | 292,6 | 69660 | 47 | 3180 | B | 245,5 | 53676 | 39 | 1890 | A | 1073 | 200 | 63,2 |
| XC144-N808 | 335,5 | 68004 | 46 | 3030 | A | 274,0 | 52092 | 40 | 1930 | A | 1431 | 263 | 83,1 |
| XB154-N808 | 386,0 | 82116 | 47 | 3900 | B | 315,1 | 62532 | 41 | 2450 | A | 1431 | 263 | 83,1 |
| XC154-N808 | 419,1 | 84996 | 47 | 3750 | A | 342,2 | 65124 | 41 | 2400 | A | 1789 | 328 | 103,5 |
| XB164-N808 | 460,5 | 98532 | 49 | 4680 | B | 377,8 | 75024 | 42 | 2940 | A | 1717 | 314 | 99,3 |
| XA174-N808 | 496,2 | 110448 | 50 | 5530 | B | 406,4 | 83844 | 43 | 3430 | A | 1669 | 308 | 97,5 |
| XA184-N808 | 567,0 | 126216 | 51 | 6320 | B | 464,4 | 95796 | 44 | 3920 | A | 1907 | 352 | 111,2 |

KOAL-S M/X Selection data

| Model KOAL-S M/X | D E L T A (High Speed) | | | | | S T A R (Low Speed) | | | | | Total Surface | Internal Volume | R404A Charge | | | |
|---------------------|--------------------------------------|------------|---|---------------------|---------------|--------------------------------------|------------|---|---------------------|---------------|---------------|-----------------|--------------|--|--|--|
| | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input W | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input W | Energy rating | | | | | | |
| | R404A & R507A | | | | | R404A & R507A | | | | | | | | | | |
| | kW | m³/h | dB(A) | W | | kW | m³/h | dB(A) | W | | m² | dm³ | kg | | | |

800 mm 12 pole 3x400V

| | | | | | | | | | | | | | |
|------------|-------|-------|----|------|---|-------|-------|----|------|---|------|-----|------|
| MA112-N812 | 30,2 | 10116 | 29 | 300 | B | 27 | 8172 | 23 | 170 | A | 80 | 20 | 6,3 |
| MB113-N812 | 40,2 | 9720 | 29 | 300 | A | 35,1 | 7740 | 23 | 170 | A | 143 | 31 | 9,8 |
| MC114-N812 | 48,5 | 9792 | 29 | 300 | A | 41,1 | 7560 | 23 | 170 | A | 239 | 48 | 15,2 |
| MA122-N812 | 60,7 | 20232 | 32 | 610 | B | 54,3 | 16344 | 26 | 340 | A | 159 | 34 | 10,7 |
| MB123-N812 | 80,7 | 19476 | 32 | 600 | A | 70,4 | 15444 | 26 | 340 | A | 286 | 56 | 17,7 |
| MC124-N812 | 97,2 | 19548 | 32 | 610 | A | 82,3 | 15120 | 26 | 340 | A | 477 | 93 | 29,4 |
| MB133-N812 | 121,2 | 29196 | 34 | 900 | A | 105,7 | 23184 | 28 | 520 | A | 429 | 84 | 26,5 |
| MC134-N812 | 146,1 | 29340 | 34 | 910 | A | 123,3 | 22680 | 28 | 520 | A | 715 | 136 | 43,0 |
| MC143-N812 | 181,0 | 41364 | 35 | 1210 | A | 155,8 | 32544 | 29 | 680 | A | 715 | 136 | 43,0 |
| MC144-N812 | 194,7 | 39096 | 34 | 1220 | A | 164,8 | 30276 | 29 | 690 | A | 954 | 177 | 55,9 |
| MB154-N812 | 217,7 | 45504 | 36 | 1550 | A | 186,5 | 35568 | 30 | 880 | A | 954 | 184 | 58,1 |
| MC154-N812 | 242,6 | 48888 | 36 | 1500 | A | 205,4 | 37836 | 30 | 850 | A | 1192 | 221 | 69,8 |
| MB164-N812 | 261,3 | 54612 | 37 | 1860 | A | 223,4 | 42660 | 31 | 1020 | A | 1145 | 217 | 68,7 |
| MA174-N812 | 276,6 | 59724 | 38 | 2170 | A | 236,7 | 46368 | 32 | 1260 | A | 1113 | 212 | 66,9 |
| MA184-N812 | 276,6 | 59724 | 39 | 2480 | A | 270,5 | 52992 | 33 | 1440 | A | 1272 | 241 | 76,3 |

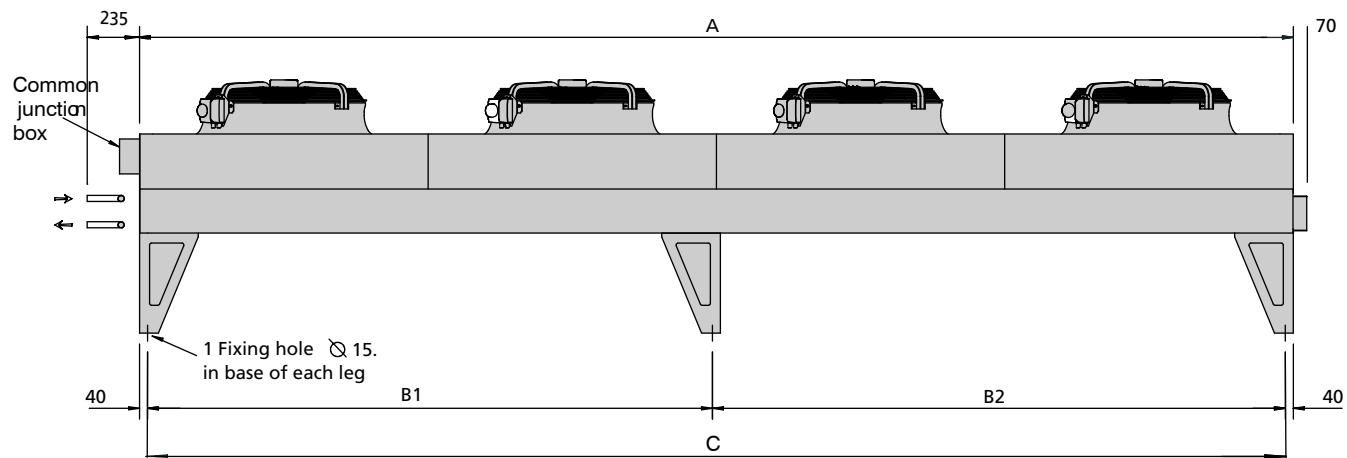
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|------------|-------|-------|----|------|---|-------|-------|----|------|---|------|-----|-------|
| XA112-N812 | 37,5 | 10944 | 29 | 300 | A | 33,4 | 8820 | 23 | 160 | A | 119 | 26 | 8,2 |
| XB113-N812 | 48,7 | 10656 | 29 | 300 | A | 42 | 8388 | 23 | 160 | A | 215 | 44 | 13,9 |
| XC114-N812 | 56,3 | 10512 | 29 | 300 | A | 47,4 | 8208 | 23 | 160 | A | 358 | 72 | 22,8 |
| XA122-N812 | 75,3 | 21852 | 32 | 600 | A | 67,1 | 17604 | 26 | 330 | A | 239 | 50 | 15,8 |
| XB123-N812 | 97,9 | 21312 | 32 | 600 | A | 84,3 | 16812 | 26 | 330 | A | 429 | 84 | 26,5 |
| XC124-N812 | 114,0 | 21060 | 32 | 600 | A | 94,5 | 16416 | 26 | 330 | A | 715 | 134 | 42,3 |
| XB133-N812 | 145,9 | 31968 | 34 | 900 | A | 125,5 | 25200 | 28 | 500 | A | 644 | 121 | 38,2 |
| XC134-N812 | 170,3 | 31572 | 34 | 900 | A | 142 | 24624 | 28 | 500 | A | 1073 | 201 | 63,5 |
| XC143-N812 | 212,2 | 43776 | 34 | 1200 | A | 181,1 | 34488 | 29 | 660 | A | 1073 | 200 | 63,2 |
| XC144-N812 | 225,7 | 42084 | 35 | 1210 | A | 189,9 | 32832 | 29 | 670 | A | 1431 | 263 | 83,1 |
| XB154-N812 | 261,8 | 50796 | 35 | 1520 | A | 221 | 39420 | 30 | 850 | A | 1431 | 263 | 83,1 |
| XC154-N812 | 281,3 | 52632 | 36 | 1500 | A | 237,1 | 41076 | 30 | 800 | A | 1789 | 328 | 103,5 |
| XB164-N812 | 313,2 | 60948 | 36 | 1800 | A | 263,1 | 47304 | 31 | 1020 | A | 1717 | 314 | 99,3 |
| XA174-N812 | 339,3 | 68436 | 37 | 2100 | A | 287 | 52956 | 32 | 1190 | A | 1669 | 308 | 97,5 |
| XA184-N812 | 387,7 | 78228 | 38 | 2400 | A | 328 | 60516 | 33 | 1360 | A | 1907 | 352 | 111,2 |

910 mm 6 pole 3x400V

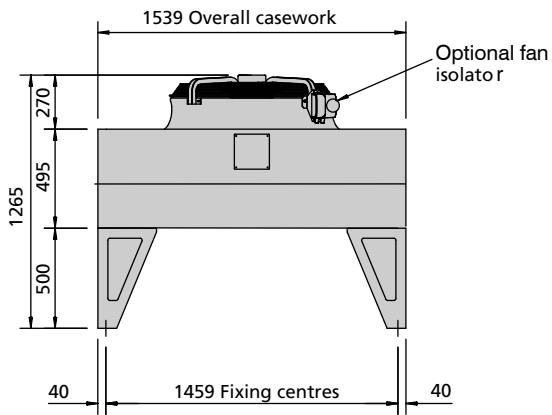
| | | | | | | | | | | | | | |
|------------|-------|--------|----|-------|---|-------|--------|----|-------|---|------|-----|------|
| MA112-N906 | 53,5 | 25488 | 52 | 2110 | E | 46,9 | 19980 | 45 | 1470 | D | 80 | 20 | 6,3 |
| MB113-N906 | 74,1 | 25200 | 52 | 2130 | D | 63,1 | 19368 | 45 | 1490 | D | 143 | 31 | 9,8 |
| MC114-N906 | 94,4 | 25740 | 52 | 2100 | D | 78,4 | 19836 | 45 | 1480 | C | 239 | 48 | 15,2 |
| MA122-N906 | 107,7 | 50976 | 55 | 4230 | E | 94,3 | 39960 | 48 | 2950 | D | 159 | 34 | 10,7 |
| MB123-N906 | 149,5 | 50436 | 55 | 4260 | D | 126,7 | 38736 | 48 | 2980 | D | 286 | 56 | 17,7 |
| MC124-N906 | 189,3 | 51516 | 55 | 4200 | C | 157,2 | 39636 | 48 | 2960 | C | 477 | 93 | 29,4 |
| MB133-N906 | 223,8 | 75636 | 57 | 6400 | D | 190,2 | 58140 | 49 | 4470 | D | 429 | 84 | 26,5 |
| MC134-N906 | 283,8 | 77256 | 57 | 6300 | C | 234,1 | 59472 | 49 | 4440 | C | 715 | 136 | 43,0 |
| MC143-N906 | 336,2 | 106776 | 58 | 8190 | D | 286,7 | 83664 | 51 | 5800 | C | 715 | 136 | 43,0 |
| MC144-N906 | 379,4 | 103032 | 58 | 8410 | C | 314,7 | 79308 | 50 | 5920 | C | 954 | 177 | 55,9 |
| MB154-N906 | 419,6 | 120564 | 59 | 10990 | D | 345,2 | 90288 | 51 | 7610 | C | 954 | 184 | 58,1 |
| MC154-N906 | 471,9 | 128772 | 59 | 10500 | D | 391,9 | 99108 | 51 | 7400 | C | 1192 | 221 | 69,8 |
| MB164-N906 | 502,9 | 144684 | 60 | 13140 | D | 411,8 | 108324 | 52 | 9120 | C | 1145 | 217 | 68,7 |
| MA174-N906 | 521,1 | 156204 | 61 | 16030 | D | 421,8 | 114372 | 54 | 10850 | D | 1113 | 212 | 66,9 |
| MA184-N906 | 595,5 | 178524 | 62 | 18320 | D | 482,1 | 130680 | 55 | 12400 | D | 1272 | 241 | 76,3 |

| | | | | | | | | | | | | | |
|------------|-------|--------|----|-------|---|-------|--------|----|-------|---|------|-----|-------|
| XA112-N906 | 67,6 | 28008 | 52 | 1960 | D | 59,2 | 22356 | 46 | 1400 | D | 119 | 26 | 8,2 |
| XB113-N906 | 91,4 | 27648 | 52 | 1990 | C | 78,3 | 21888 | 46 | 1420 | C | 215 | 44 | 13,9 |
| XC114-N906 | 112,3 | 27900 | 52 | 1970 | C | 95,3 | 22140 | 46 | 1410 | C | 358 | 72 | 22,8 |
| XA122-N906 | 136,1 | 56052 | 55 | 3930 | D | 118,5 | 44748 | 49 | 2810 | D | 239 | 50 | 15,8 |
| XB123-N906 | 181,2 | 55260 | 55 | 3980 | C | 154,1 | 43740 | 48 | 2840 | C | 429 | 84 | 26,5 |
| XC124-N906 | 223,4 | 55764 | 55 | 3950 | C | 188,9 | 44280 | 48 | 2820 | C | 715 | 134 | 42,3 |
| XB133-N906 | 272,0 | 82908 | 57 | 5980 | C | 231,3 | 65628 | 50 | 4260 | C | 644 | 121 | 38,2 |
| XC134-N906 | 335,2 | 83664 | 57 | 5930 | C | 283,4 | 66420 | 50 | 4240 | C | 1073 | 201 | 63,5 |
| XC143-N906 | 400,3 | 114156 | 58 | 7740 | C | 337,4 | 91620 | 51 | 5560 | C | 1073 | 200 | 63,2 |
| XC144-N906 | 451,0 | 111564 | 58 | 7910 | C | 382,1 | 88560 | 51 | 5650 | C | 1431 | 263 | 83,1 |
| XB154-N906 | 514,2 | 134136 | 58 | 10200 | C | 431,7 | 104868 | 51 | 7240 | C | 1431 | 263 | 83,1 |
| XC154-N906 | 561,7 | 139464 | 59 | 9850 | C | 476,4 | 110700 | 52 | 7050 | C | 1789 | 328 | 103,5 |
| XB164-N906 | 614,2 | 160956 | 60 | 12240 | C | 515,1 | 125856 | 53 | 8640 | C | 1717 | 314 | 99,3 |
| XA174-N906 | 659,5 | 180288 | 61 | 14700 | D | 544,6 | 138780 | 53 | 10360 | C | 1669 | 308 | 97,5 |
| XA184-N906 | 753,7 | 206064 | 62 | 16800 | D | 622,4 | 158580 | 54 | 11840 | C | 1907 | 352 | 111,2 |

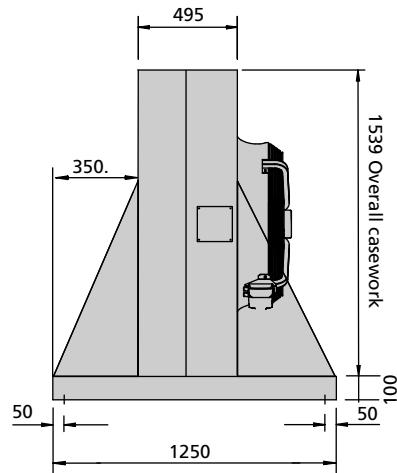
KOAL-S M/X Drawing



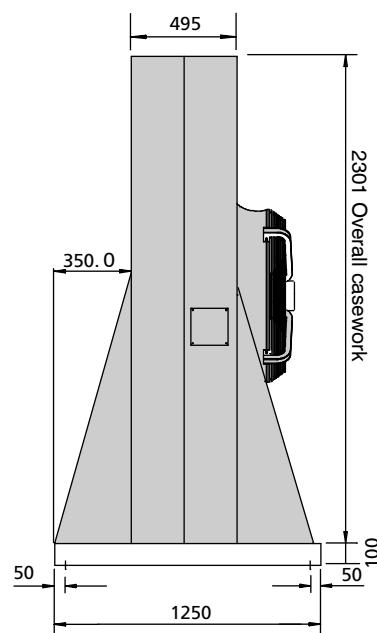
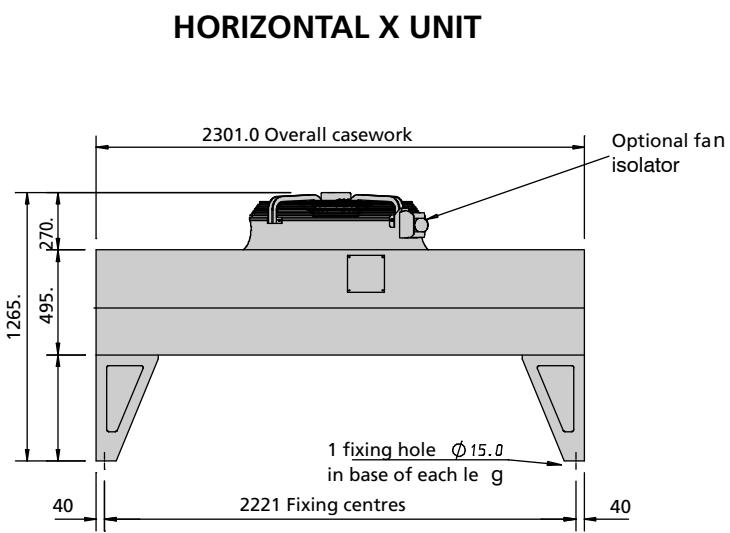
HORIZONTAL M UNIT



VERTICAL M UNIT



VERTICAL X UNIT



Notes:

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

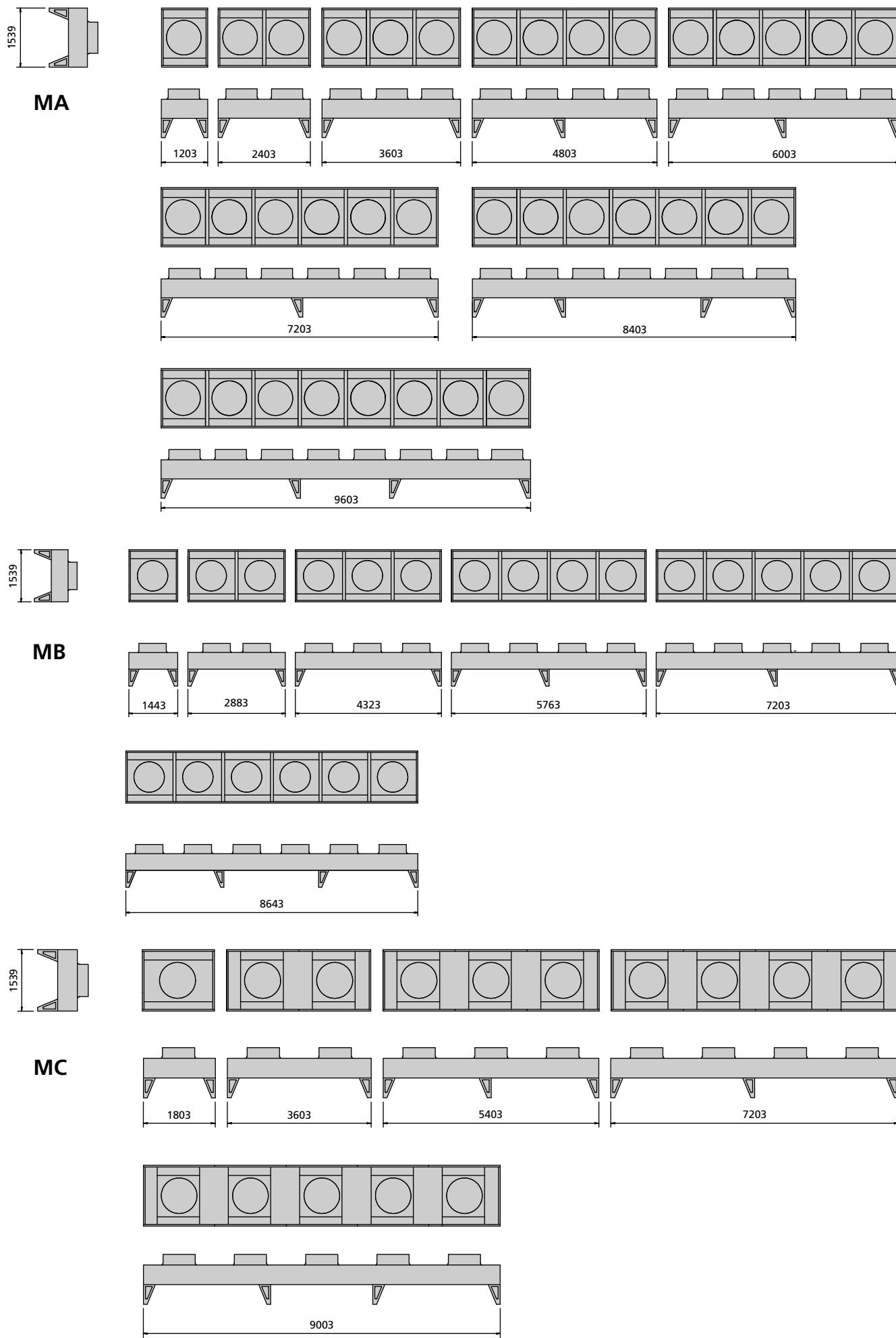
KOAL-S M/X Dimensions

| Model KOAL-S M/X | | Fans per bank | Coil rows | A | B1 | B2 | C | M total unit | | X total unit | |
|---------------------|-----|------------------|-----------|------|------|------|------|--------------|------|--------------|------|
| | | | | mm | mm | mm | mm | kg | kg | kg | kg |
| A | 112 | 1 | 2 | 1203 | - | - | 1123 | 198 | 230 | 235 | 285 |
| A | 113 | 1 | 3 | 1203 | - | - | 1123 | 216 | 266 | 264 | 338 |
| A | 114 | 1 | 4 | 1203 | - | - | 1123 | 235 | 301 | 292 | 391 |
| A | 122 | 2 | 2 | 2403 | - | - | 2323 | 329 | 395 | 394 | 492 |
| A | 123 | 2 | 3 | 2403 | - | - | 2323 | 364 | 465 | 451 | 599 |
| A | 124 | 2 | 4 | 2403 | - | - | 2323 | 405 | 537 | 508 | 706 |
| A | 132 | 3 | 2 | 3603 | - | - | 3523 | 458 | 559 | 552 | 700 |
| A | 133 | 3 | 3 | 3603 | - | - | 3523 | 518 | 666 | 637 | 859 |
| A | 134 | 3 | 4 | 3603 | - | - | 3523 | 574 | 772 | 721 | 1018 |
| A | 142 | 4 | 2 | 4803 | 2342 | 2382 | 4723 | 607 | 739 | 719 | 917 |
| A | 143 | 4 | 3 | 4803 | 2342 | 2382 | 4723 | 682 | 880 | 832 | 1129 |
| A | 144 | 4 | 4 | 4803 | 2342 | 2382 | 4723 | 757 | 1020 | 946 | 1341 |
| A | 152 | 5 | 2 | 6003 | 2942 | 2982 | 5923 | 744 | 908 | 884 | 1131 |
| A | 153 | 5 | 3 | 6003 | 2942 | 2982 | 5923 | 837 | 1084 | 1026 | 1397 |
| A | 154 | 5 | 4 | 6003 | 2942 | 2982 | 5923 | 932 | 1261 | 1167 | 1661 |
| A | 162 | 6 | 2 | 7203 | 3542 | 3582 | 7123 | 870 | 1068 | 1034 | 1331 |
| A | 163 | 6 | 3 | 7203 | 3542 | 3582 | 7123 | 983 | 1280 | 1331 | 1650 |
| A | 164 | 6 | 4 | 7203 | 3542 | 3582 | 7123 | 1096 | 1491 | 1375 | 1968 |
| A | 172 | 7 | 2 | 8403 | 2341 | 2381 | 8323 | 1044 | 1275 | 1234 | 1580 |
| A | 173 | 7 | 3 | 8403 | 2341 | 2381 | 8323 | 1177 | 1522 | 1433 | 1952 |
| A | 174 | 7 | 4 | 8403 | 2341 | 2381 | 8323 | 1308 | 1769 | 1631 | 2356 |
| A | 182 | 8 | 2 | 9603 | 3541 | 3581 | 9523 | 1185 | 1449 | 1400 | 1796 |
| A | 183 | 8 | 3 | 9603 | 3541 | 3581 | 9523 | 1336 | 1731 | 1627 | 2221 |
| A | 184 | 8 | 4 | 9603 | 3541 | 3581 | 9523 | 1486 | 2013 | 1853 | 2644 |
| B | 112 | 1 | 2 | 1443 | - | - | 1363 | 267 | 307 | 264 | 323 |
| B | 113 | 1 | 3 | 1443 | - | - | 1363 | 290 | 349 | 297 | 387 |
| B | 123 | 2 | 3 | 2843 | - | - | 2763 | 478 | 597 | 513 | 691 |
| B | 124 | 2 | 4 | 2843 | - | - | 2763 | 524 | 682 | 581 | 819 |
| B | 134 | 3 | 4 | 4323 | - | - | 4243 | 734 | 971 | 830 | 1186 |
| B | 142 | 4 | 2 | 5763 | 2822 | 2862 | 5683 | 777 | 935 | 819 | 1064 |
| B | 143 | 4 | 3 | 5763 | 2822 | 2862 | 5683 | 867 | 1105 | 954 | 1310 |
| B | 144 | 4 | 4 | 5763 | 2822 | 2862 | 5683 | 958 | 1274 | 1091 | 1565 |
| B | 152 | 5 | 2 | 7203 | 3542 | 3582 | 7123 | 952 | 1150 | 1008 | 1304 |
| B | 153 | 5 | 3 | 7203 | 3542 | 3582 | 7123 | 1065 | 1362 | 1177 | 1622 |
| B | 154 | 5 | 4 | 7203 | 3542 | 3582 | 7123 | 1178 | 1573 | 1347 | 1940 |
| B | 162 | 6 | 2 | 8643 | 2821 | 2880 | 8563 | 1124 | 1357 | 1221 | 1329 |
| B | 163 | 6 | 3 | 8643 | 2821 | 2880 | 8563 | 1260 | 1357 | 1425 | 1958 |
| B | 164 | 6 | 4 | 8643 | 2821 | 2880 | 8563 | 1260 | 1616 | 1629 | 2340 |
| C | 112 | 1 | 2 | 1803 | - | - | 1723 | 667 | 717 | 300 | 374 |
| C | 113 | 1 | 3 | 1803 | - | - | 1723 | 696 | 770 | 342 | 453 |
| C | 114 | 1 | 4 | 1803 | - | - | 1723 | 724 | 823 | 385 | 533 |
| C | 122 | 2 | 2 | 3603 | - | - | 3523 | 330 | 429 | 517 | 665 |
| C | 123 | 2 | 3 | 3603 | - | - | 3523 | 388 | 536 | 602 | 824 |
| C | 124 | 2 | 4 | 3603 | - | - | 3523 | 444 | 642 | 687 | 983 |
| C | 132 | 3 | 2 | 5403 | 2642 | 2682 | 5323 | 493 | 641 | 752 | 974 |
| C | 133 | 3 | 3 | 5403 | 2642 | 2682 | 5323 | 577 | 799 | 878 | 1212 |
| C | 134 | 3 | 4 | 5403 | 2642 | 2682 | 5323 | 662 | 959 | 1006 | 1451 |
| C | 142 | 4 | 2 | 7203 | 3542 | 3582 | 7123 | 654 | 852 | 962 | 1258 |
| C | 143 | 4 | 3 | 7203 | 3542 | 3582 | 7123 | 767 | 1064 | 1131 | 1576 |
| C | 144 | 4 | 4 | 7203 | 3542 | 3582 | 7123 | 880 | 1275 | 1301 | 1894 |
| C | 152 | 5 | 2 | 9003 | 3541 | 1840 | 8923 | 1413 | 1784 | 1213 | 1583 |
| C | 153 | 5 | 3 | 9003 | 3541 | 1840 | 8923 | 1624 | 2181 | 1424 | 1980 |
| C | 154 | 5 | 4 | 9003 | 3541 | 1840 | 8923 | 1837 | 2578 | 1636 | 2378 |

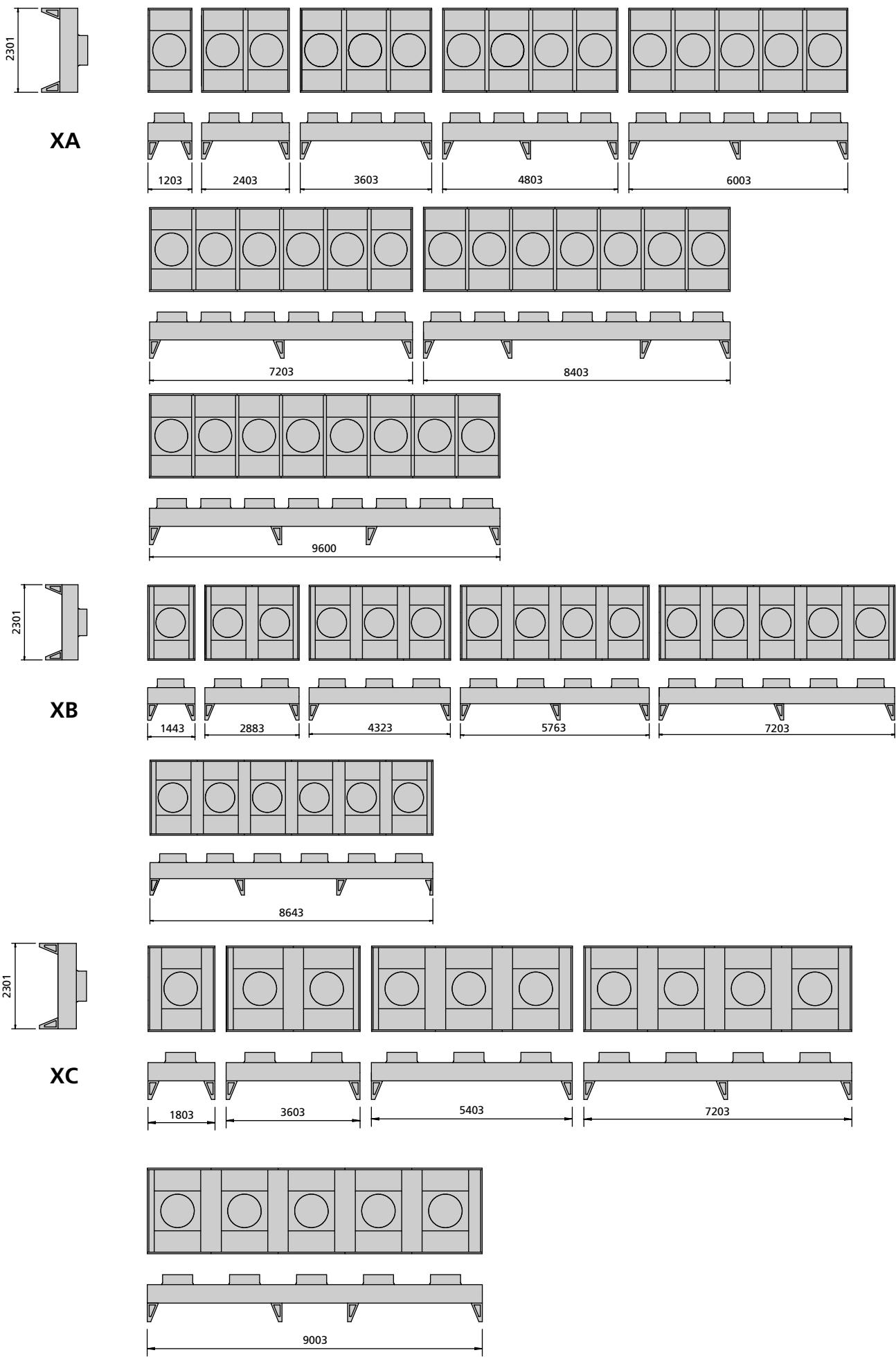
Notes:

Total unit dry weight is dependent upon the coil material used (AL = Copper tubes with Aluminium or Vinyl coated aluminium or Sea water resistant aluminium fins, CU = Copper tubes with Copper fins).

KOAL-S M/X Model layout



KOAL-S M/X Model layout





Goedhart KOAL-S V

The KOAL-S V range extends the versatility of Goedhart'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 54 kW to 1088 kW.

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

Goedhart offers an EC fan, a highly efficient and very low noise complete control package. Full details of the EC fan and the best-suited application areas are included 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 by contacting your Goedhart representative to select for you the required air cooled condenser.



KOAL-S V Features

- 3 Module length sizes (A,B,C)
- 800mm or 910mm fan sets
- 6,8, 12 pole or EC
- Optional coil fin materials and coating
- Standard powder coated, RAL7036 (Platinum Gray) robust casework. RAL 9010 Bright on request.
- factory fitted or separate control options

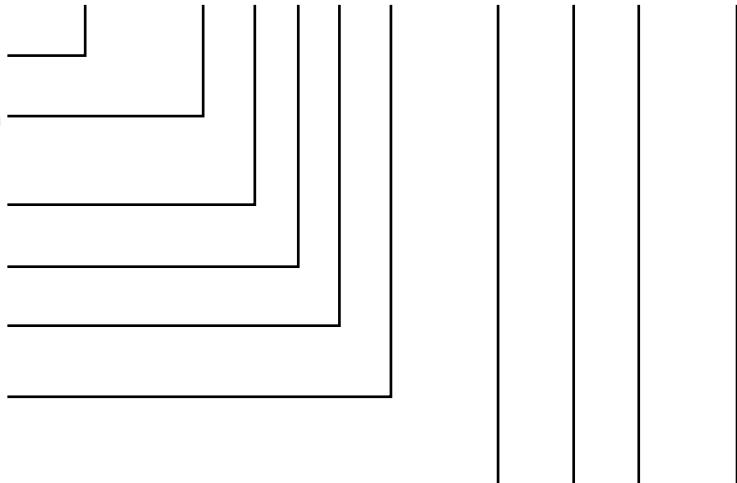
Type description

KOAL-S V A 2 6 2 M - N8 12 D - AL

KOAL-S V

= range

A (1200mm), B (1440mm),
C (1800mm)



1 - 6

= bank of fans

1 - 6

= fans per bank

2, 3, 4

= coils row

M=medium (mm),
L=large (mm)

= air direction

N8=800mm, Q8=800mm,
N9=910mm, 09=910mm

= Fan type

AC pole 06, 08, 12, Q12
EC

= Motor speed

D=Delta, S=Star, 2=2 speed,
EC=variable speed

= Fan connection

AL = Copper tubes/Aluminium fins

AV = Copper tubes/Vinyl coated aluminium fin

CU = Copper tubes/Copper fins

BG = Blygold tubes and fins

ALMG = Copper tubes/Sea water resistant (Almg) fins



KOAL-S V Selection data

| Model | D E L T A (High Speed) | | | | | | S T A R (Low Speed) | | | | | | Total Surface | Internal Volume | R404A Charge | |
|---------------------------------|--------------------------------------|------------|---|----------------|---------------|--------------------------------------|---------------------|---|----------------|---------------|------|-----|---------------|-----------------|--------------|--|
| | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input | Energy rating | | | | | | |
| | R404A & R507A | | | | | R404A & R507A | | | | | | | | | | |
| | kW | | | | | kW | | | | | | | | | | |
| 800 mm 6 pole 3x400V | | | | | | | | | | | | | | | | |
| VA212M-N806 | 95,7 | 43236 | 54 | 3130 | D | 84,9 | 34740 | 50 | 2140 | D | 159 | 39 | 12,3 | | | |
| VC212M-N806 | 120,9 | 47160 | 54 | 3160 | D | 104,3 | 37152 | 49 | 2090 | C | 239 | 53 | 16,7 | | | |
| VB214M-N806 | 159,3 | 40752 | 54 | 3230 | C | 135,3 | 32436 | 48 | 2180 | C | 382 | 79 | 25,0 | | | |
| VA222M-N806 | 192,4 | 86472 | 57 | 6270 | D | 170,6 | 69480 | 53 | 4280 | D | 318 | 68 | 21,5 | | | |
| VC222M-N806 | 242,7 | 94320 | 57 | 6320 | D | 209,1 | 74268 | 52 | 4180 | C | 477 | 95 | 30,0 | | | |
| VA224M-N806 | 288,3 | 77112 | 57 | 6650 | D | 245,4 | 61092 | 51 | 4410 | C | 636 | 128 | 40,4 | | | |
| VB232M-N806 | 321,2 | 135900 | 59 | 7670 | D | 282,1 | 107964 | 55 | 5290 | C | 572 | 118 | 37,3 | | | |
| VA233M-N806 | 373,7 | 121104 | 59 | 9750 | D | 284,2 | 79380 | 53 | 6570 | D | 715 | 144 | 45,5 | | | |
| VB233M-N806 | 412,9 | 127260 | 59 | 9500 | D | 358,4 | 101952 | 54 | 6470 | C | 858 | 168 | 53,1 | | | |
| VB234M-N806 | 480,1 | 122292 | 59 | 9710 | C | 408,3 | 97308 | 53 | 6560 | C | 1145 | 219 | 69,2 | | | |
| VC234M-N806 | 530,9 | 129168 | 59 | 9420 | C | 449,5 | 103032 | 54 | 6450 | C | 1431 | 261 | 82,5 | | | |
| VC243M-N806 | 617,1 | 178992 | 59 | 12330 | C | 530,1 | 142056 | 55 | 8500 | C | 1431 | 272 | 86,0 | | | |
| VB244M-N806 | 640,1 | 163044 | 60 | 12950 | C | 543,1 | 129744 | 54 | 8750 | C | 1526 | 285 | 90,1 | | | |
| VB254M-N806 | 798,8 | 203832 | 61 | 16180 | C | 680,9 | 162180 | 55 | 10940 | C | 1908 | 350 | 110,6 | | | |
| VA264M-N806 | 866,5 | 231300 | 62 | 19970 | D | 743,6 | 183312 | 55 | 13250 | C | 1908 | 350 | 110,6 | | | |
| 800 mm 6 pole 3x400V | | | | | | | | | | | | | | | | |
| VA212L-N806 | 107,4 | 45648 | 54 | 3050 | D | 95,3 | 36216 | 50 | 2110 | C | 199 | 49 | 15,5 | | | |
| VB213L-N806 | 152,2 | 44748 | 54 | 3080 | C | 131,9 | 35496 | 50 | 2120 | C | 358 | 77 | 24,3 | | | |
| VC214L-N806 | 195,1 | 45144 | 54 | 3060 | C | 165,2 | 35748 | 50 | 2120 | B | 596 | 121 | 38,2 | | | |
| VB222L-N806 | 242,4 | 94320 | 57 | 6000 | D | 209,2 | 74268 | 52 | 4180 | C | 477 | 98 | 31,0 | | | |
| VA223L-N806 | 281,5 | 85716 | 56 | 6300 | D | 243,1 | 68580 | 51 | 4300 | C | 596 | 125 | 39,5 | | | |
| VB224L-N806 | 354,6 | 86112 | 57 | 6280 | C | 301,8 | 68688 | 52 | 4300 | B | 954 | 191 | 60,4 | | | |
| VA233L-N806 | 422,5 | 128592 | 59 | 9450 | D | 364,3 | 102888 | 54 | 6450 | C | 894 | 180 | 56,9 | | | |
| VA234L-N806 | 489,0 | 123696 | 59 | 9650 | C | 414,1 | 98532 | 53 | 6540 | C | 1192 | 224 | 70,8 | | | |
| VC233L-N806 | 511,0 | 139644 | 59 | 9050 | C | 435,4 | 110088 | 54 | 6300 | C | 1341 | 249 | 78,7 | | | |
| VA243L-N806 | 562,2 | 171432 | 60 | 12600 | D | 483,7 | 137196 | 55 | 8610 | C | 1192 | 227 | 71,7 | | | |
| VB243L-N806 | 618,8 | 178992 | 59 | 12330 | C | 529,4 | 142056 | 55 | 8500 | C | 1431 | 272 | 86,0 | | | |
| VC243L-N806 | 683,0 | 186192 | 59 | 12070 | C | 585,1 | 146772 | 55 | 8400 | C | 1788 | 334 | 105,5 | | | |
| VC244L-N806 | 783,5 | 180612 | 59 | 12260 | C | 662,6 | 143028 | 55 | 8480 | B | 2385 | 438 | 138,4 | | | |
| VB254L-N806 | 888,7 | 215280 | 60 | 15710 | C | 755,9 | 171720 | 56 | 10750 | B | 2385 | 438 | 138,4 | | | |
| VA264L-N806 | 979,2 | 247392 | 61 | 19310 | C | 833,8 | 197028 | 56 | 13090 | C | 2385 | 438 | 138,4 | | | |
| 800 mm 8 pole 3x400V | | | | | | | | | | | | | | | | |
| VA212M-N808 | 82,7 | 33120 | 47 | 1580 | C | 70,0 | 25308 | 40 | 990 | B | 159 | 39 | 12,3 | | | |
| VC212M-N808 | 101,8 | 35640 | 46 | 1500 | C | 87,3 | 27432 | 40 | 950 | B | 239 | 53 | 16,7 | | | |
| VB214M-N808 | 129,0 | 30384 | 48 | 1600 | B | 106,3 | 23184 | 41 | 1020 | B | 382 | 79 | 25,0 | | | |
| VA222M-N808 | 166,0 | 66240 | 50 | 3160 | C | 140,3 | 50580 | 43 | 1980 | B | 318 | 68 | 21,5 | | | |
| VC222M-N808 | 204,0 | 71316 | 49 | 3010 | C | 174,3 | 54864 | 43 | 1910 | B | 477 | 95 | 30,0 | | | |
| VA224M-N808 | 231,5 | 56484 | 51 | 3310 | C | 189,8 | 43092 | 44 | 2080 | B | 636 | 128 | 40,4 | | | |
| VB232M-N808 | 274,5 | 103248 | 51 | 3870 | B | 234,2 | 79056 | 45 | 2440 | B | 572 | 118 | 37,3 | | | |
| VA233M-N808 | 311,3 | 90576 | 53 | 4830 | C | 259,4 | 69336 | 45 | 3070 | B | 715 | 144 | 45,5 | | | |
| VB233M-N808 | 345,1 | 96408 | 52 | 4770 | B | 288,0 | 73368 | 45 | 3000 | B | 858 | 168 | 53,1 | | | |
| VB234M-N808 | 389,2 | 91116 | 53 | 4820 | B | 320,0 | 69588 | 45 | 3060 | B | 1145 | 219 | 69,2 | | | |
| VC234M-N808 | 432,3 | 97668 | 52 | 4750 | B | 353,0 | 74160 | 45 | 2990 | A | 1431 | 261 | 82,5 | | | |
| VC243M-N808 | 514,1 | 135504 | 52 | 6260 | B | 430,0 | 103356 | 45 | 3930 | B | 1431 | 272 | 86,0 | | | |
| VB244M-N808 | 517,4 | 121500 | 54 | 6430 | B | 424,9 | 92772 | 46 | 4080 | B | 1526 | 285 | 90,1 | | | |
| VB254M-N808 | 649,5 | 151884 | 54 | 8040 | B | 535,2 | 115956 | 47 | 5110 | B | 1908 | 350 | 110,6 | | | |
| VA264M-N808 | 702,9 | 169488 | 55 | 9950 | B | 578,8 | 129276 | 48 | 6240 | B | 1908 | 350 | 110,6 | | | |
| 800 mm 8 pole 3x400V | | | | | | | | | | | | | | | | |
| VA212L-N808 | 92,9 | 34668 | 47 | 1540 | C | 79,3 | 26568 | 40 | 970 | B | 199 | 49 | 15,5 | | | |
| VB213L-N808 | 127,9 | 33876 | 47 | 1560 | B | 107,0 | 25848 | 40 | 980 | B | 358 | 77 | 24,3 | | | |
| VC214L-N808 | 159,6 | 34128 | 47 | 1550 | B | 131,4 | 26028 | 40 | 970 | A | 596 | 121 | 38,2 | | | |
| VB222L-N808 | 204,2 | 71316 | 49 | 3010 | C | 174,8 | 54864 | 43 | 1910 | B | 477 | 98 | 31,0 | | | |
| VA223L-N808 | 234,7 | 65088 | 49 | 3170 | B | 195,5 | 49500 | 42 | 1990 | B | 596 | 125 | 39,5 | | | |
| VA224L-N808 | 264,3 | 61596 | 50 | 3200 | B | 216,9 | 46980 | 42 | 2030 | B | 795 | 164 | 51,8 | | | |
| VA233L-N808 | 351,4 | 97632 | 52 | 4760 | B | 292,0 | 74232 | 45 | 2990 | B | 894 | 180 | 56,9 | | | |
| VA234L-N808 | 395,0 | 92376 | 53 | 4810 | B | 324,1 | 70488 | 45 | 3050 | B | 1192 | 224 | 70,8 | | | |
| VC233L-N808 | 423,1 | 105516 | 51 | 4560 | B | 352,9 | 80856 | 44 | 2890 | A | 1341 | 249 | 78,7 | | | |
| VA243L-N808 | 466,4 | 130176 | 53 | 6340 | B | 387,3 | 98964 | 46 | 3980 | B | 1192 | 227 | 71,7 | | | |
| VB243L-N808 | 513,0 | 135504 | 52 | 6260 | B | 427,2 | 103356 | 45 | 3930 | B | 1431 | 272 | 86,0 | | | |
| VC243L-N808 | 568,9 | 140688 | 52 | 6080 | B | 475,9 | 107820 | 45 | 3860 | A | 1788 | 334 | 105,5 | | | |
| VC244L-N808 | 640,1 | 136512 | 52 | 6220 | B | 523,9 | 104148 | 45 | 3910 | A | 2385 | 438 | 138,4 | | | |
| VB254L-N808 | 727,3 | 162792 | 54 | 7930 | B | 594,6 | 123588 | 46 | 4980 | A | 2385 | 438 | 138,4 | | | |

KOAL-S V Selection data

| Model | D E L T A (High Speed) | | | | | S T A R (Low Speed) | | | | | Total Surface | Internal Volume | R404A Charge | | | |
|-------|--------------------------------------|------------|---|---------------------|---------------|--------------------------------------|------------|---|---------------------|---------------|---------------|-----------------|--------------|--|--|--|
| | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input W | Energy rating | Duty (15 K DT1 - Dew Point) | Air Volume | Sound Pressure Level at 10m (+/- 2 dB(A)) | Power Input W | Energy rating | | | | | | |
| | R404A & R507A | | | | | R404A & R507A | | | | | | | | | | |
| | kW | | | m³/h | | dB(A) | | | | | | | | | | |

800 mm 12 pole 3x400V

| | | | | | | | | | | | | | |
|-------------|-------|--------|----|------|---|-------|-------|----|------|---|------|-----|-------|
| VA212M-N812 | 60,0 | 20016 | 35 | 610 | B | 54,0 | 16344 | 29 | 340 | A | 159 | 39 | 12,3 |
| VC212M-N812 | 75,2 | 21636 | 35 | 600 | A | 67,0 | 17604 | 29 | 330 | A | 239 | 53 | 16,7 |
| VB214M-N812 | 88,0 | 18216 | 35 | 620 | A | 76,0 | 14832 | 29 | 350 | A | 382 | 79 | 25,0 |
| VA222M-N812 | 121,4 | 40032 | 38 | 1220 | B | 108,5 | 32652 | 32 | 680 | A | 318 | 68 | 21,5 |
| VC222M-N812 | 150,8 | 43272 | 38 | 1200 | A | 134,3 | 35244 | 32 | 660 | A | 477 | 95 | 30,0 |
| VA224M-N812 | 160,0 | 34128 | 38 | 1270 | A | 138,2 | 27612 | 32 | 740 | A | 636 | 128 | 40,4 |
| VB232M-N812 | 201,8 | 62568 | 40 | 1510 | A | 180,4 | 51228 | 34 | 840 | A | 572 | 118 | 37,3 |
| VA233M-N812 | 219,8 | 54612 | 40 | 1860 | A | 192,7 | 44460 | 34 | 1060 | A | 715 | 144 | 45,5 |
| VB233M-N812 | 242,4 | 57816 | 39 | 1840 | A | 213,5 | 47340 | 34 | 1040 | A | 858 | 168 | 53,1 |
| VB234M-N812 | 264,9 | 54612 | 40 | 1860 | A | 228,5 | 44496 | 34 | 1060 | A | 1145 | 219 | 69,2 |
| VC234M-N812 | 295,1 | 58644 | 39 | 1830 | A | 251,6 | 47340 | 34 | 1040 | A | 1431 | 261 | 82,5 |
| VB244M-N812 | 353,3 | 72792 | 41 | 2480 | A | 304,7 | 59292 | 35 | 1420 | A | 1526 | 285 | 90,1 |
| VC243M-N812 | 361,9 | 81864 | 40 | 2430 | A | 314,8 | 66456 | 34 | 1360 | A | 1431 | 272 | 86,0 |
| VB254M-N812 | 439,7 | 91008 | 42 | 3100 | A | 380,6 | 74124 | 35 | 1770 | A | 1908 | 350 | 110,6 |
| VA264M-N812 | 477,8 | 102384 | 43 | 3810 | A | 413,7 | 82872 | 36 | 2230 | A | 1908 | 350 | 110,6 |

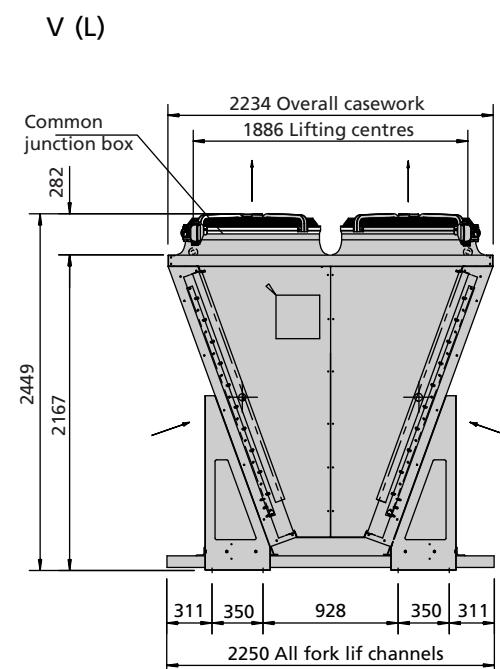
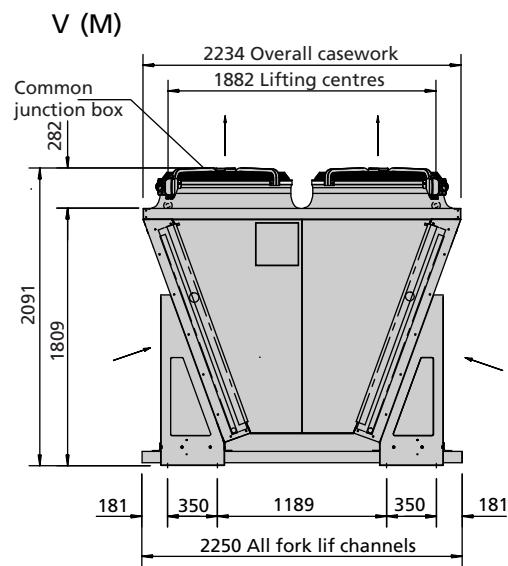
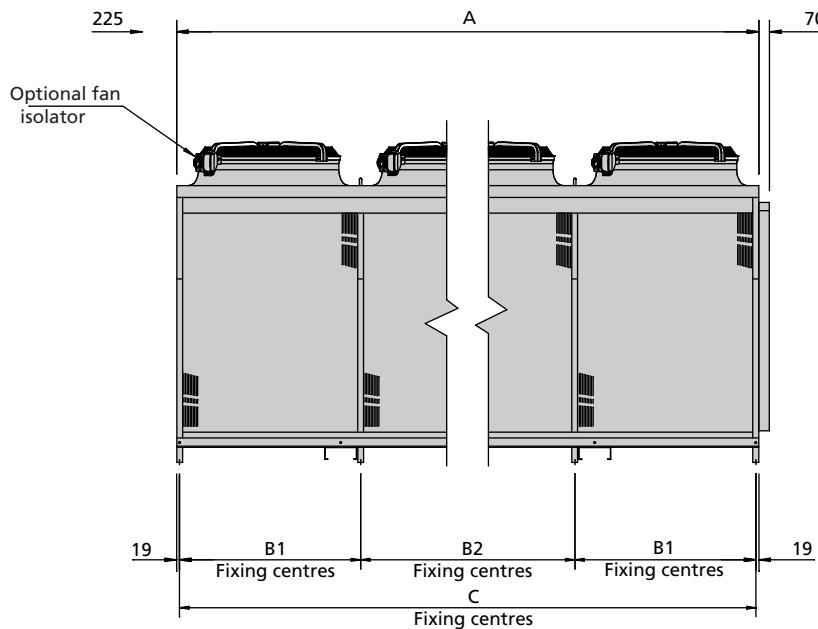
| | | | | | | | | | | | | | |
|-------------|-------|--------|----|------|---|-------|-------|----|------|---|------|-----|-------|
| VA212L-N812 | 68,3 | 20988 | 35 | 600 | A | 61,2 | 17208 | 29 | 330 | A | 199 | 49 | 15,5 |
| VB213L-N812 | 90,2 | 20484 | 35 | 600 | A | 78,5 | 16596 | 29 | 340 | A | 358 | 77 | 24,3 |
| VC214L-N812 | 107,1 | 20484 | 35 | 600 | A | 92,8 | 16596 | 29 | 340 | A | 596 | 121 | 38,2 |
| VB222L-N812 | 150,7 | 43272 | 38 | 1200 | A | 134,2 | 35244 | 32 | 660 | A | 477 | 98 | 31,0 |
| VA223L-N812 | 165,0 | 39024 | 37 | 1220 | A | 144,8 | 31932 | 31 | 690 | A | 596 | 125 | 39,5 |
| VB224L-N812 | 196,7 | 39096 | 37 | 1220 | A | 167,8 | 31536 | 32 | 690 | A | 954 | 191 | 60,4 |
| VA233L-N812 | 247,3 | 58536 | 39 | 1830 | A | 217,8 | 47880 | 34 | 1030 | A | 894 | 180 | 56,9 |
| VA234L-N812 | 270,3 | 55368 | 40 | 1850 | A | 232,9 | 45036 | 34 | 1050 | A | 1192 | 224 | 70,8 |
| VC233L-N812 | 298,2 | 63648 | 40 | 1810 | A | 258,6 | 51696 | 34 | 1010 | A | 1341 | 249 | 78,7 |
| VA243L-N812 | 330,5 | 78012 | 40 | 2450 | A | 290,0 | 63828 | 35 | 1380 | A | 1192 | 227 | 71,7 |
| VB243L-N812 | 362,5 | 81864 | 40 | 2430 | A | 315,9 | 66456 | 34 | 1360 | A | 1431 | 272 | 86,0 |
| VC243L-N812 | 396,9 | 84852 | 40 | 2420 | A | 344,1 | 68940 | 34 | 1340 | A | 1788 | 334 | 105,5 |
| VC244L-N812 | 429,4 | 81900 | 40 | 2430 | A | 371,4 | 66312 | 34 | 1360 | A | 2385 | 438 | 138,4 |
| VB254L-N812 | 491,6 | 97776 | 41 | 3060 | A | 420,4 | 78876 | 35 | 1730 | A | 2385 | 438 | 138,4 |
| VA264L-N812 | 541,1 | 110736 | 42 | 3700 | A | 465,8 | 90108 | 36 | 2110 | A | 2385 | 438 | 138,4 |

910 mm 6 pole 3x400V

| | | | | | | | | | | | | | |
|-------------|-------|--------|----|-------|---|-------|--------|----|-------|---|------|-----|-------|
| VA212M-N906 | 104,3 | 50472 | 58 | 4230 | E | 91,5 | 39240 | 51 | 2950 | D | 159 | 39 | 12,3 |
| VC212M-N906 | 132,5 | 55512 | 58 | 3930 | D | 115,9 | 44280 | 52 | 2810 | D | 239 | 53 | 16,7 |
| VB214M-N906 | 177,6 | 47772 | 58 | 4390 | D | 144,8 | 35748 | 51 | 3040 | C | 382 | 79 | 25,0 |
| VA222M-N906 | 209,8 | 100980 | 61 | 8470 | E | 183,9 | 79128 | 55 | 5900 | D | 318 | 68 | 21,5 |
| VC222M-N906 | 266,1 | 110988 | 61 | 7870 | D | 232,6 | 88632 | 54 | 5630 | D | 477 | 95 | 30,0 |
| VA224M-N906 | 317,5 | 88380 | 61 | 9160 | D | 255,6 | 64692 | 54 | 6200 | D | 636 | 128 | 40,4 |
| VB232M-N906 | 351,4 | 159408 | 63 | 12240 | E | 308,6 | 125964 | 56 | 7210 | D | 572 | 118 | 37,3 |
| VA233M-N906 | 412,2 | 141012 | 63 | 13320 | D | 346,0 | 105948 | 55 | 9150 | D | 715 | 144 | 45,5 |
| VB233M-N906 | 458,0 | 149832 | 63 | 12800 | D | 388,8 | 115128 | 55 | 8950 | D | 858 | 168 | 53,1 |
| VB234M-N906 | 534,2 | 143280 | 63 | 13180 | D | 436,2 | 107280 | 55 | 9130 | C | 1145 | 219 | 69,2 |
| VC234M-N906 | 600,4 | 153072 | 62 | 12610 | C | 493,3 | 117792 | 55 | 8880 | C | 1431 | 261 | 82,5 |
| VC243M-N906 | 687,5 | 211500 | 63 | 16390 | D | 585,5 | 165672 | 56 | 11600 | C | 1431 | 272 | 86,0 |
| VB244M-N906 | 714,3 | 191052 | 63 | 17580 | D | 581,3 | 143028 | 56 | 12170 | C | 1526 | 285 | 90,1 |
| VB254M-N906 | 886,9 | 238824 | 64 | 21980 | D | 726,9 | 178776 | 57 | 15220 | C | 1908 | 350 | 110,6 |
| VA264M-N906 | 949,5 | 265176 | 66 | 27480 | D | 771,8 | 194148 | 58 | 18600 | D | 1908 | 350 | 110,6 |

| | | | | | | | | | | | | | |
|-------------|--------|--------|----|-------|---|-------|--------|----|-------|---|------|-----|-------|
| VA212L-N906 | 117,9 | 53640 | 58 | 4050 | E | 104,7 | 42480 | 51 | 2860 | D | 199 | 49 | 15,5 |
| VB213L-N906 | 170,9 | 52884 | 58 | 4090 | D | 145,8 | 41400 | 51 | 2900 | C | 358 | 77 | 24,3 |
| VC214L-N906 | 219,2 | 53568 | 58 | 4050 | C | 183,8 | 41976 | 51 | 2880 | C | 596 | 121 | 38,2 |
| VB222L-N906 | 265,6 | 110988 | 61 | 7870 | D | 232,6 | 88632 | 54 | 5630 | D | 477 | 98 | 31,0 |
| VA223L-N906 | 312,6 | 101124 | 60 | 8460 | D | 265,1 | 77904 | 52 | 5930 | D | 596 | 125 | 39,5 |
| VB224L-N906 | 398,6 | 102024 | 61 | 8410 | C | 329,8 | 78516 | 53 | 5920 | C | 954 | 191 | 60,4 |
| VA233L-N906 | 471,1 | 151704 | 63 | 12690 | D | 397,7 | 116892 | 55 | 8900 | D | 894 | 180 | 56,9 |
| VA234L-N906 | 546,5 | 145152 | 63 | 13080 | D | 446,3 | 109548 | 55 | 9090 | C | 1192 | 224 | 70,8 |
| VC233L-N906 | 573,3 | 165312 | 63 | 11890 | C | 489,1 | 131148 | 56 | 8490 | C | 1341 | 249 | 78,7 |
| VA243L-N906 | 627,3 | 202248 | 63 | 16930 | D | 528,8 | 155844 | 56 | 11870 | D | 1192 | 227 | 71,7 |
| VB243L-N906 | 692,3 | 211500 | 63 | 16390 | D | 586,5 | 165672 | 56 | 11600 | C | 1431 | 272 | 86,0 |
| VC243L-N906 | 762,0 | 220428 | 63 | 15850 | C | 654,5 | 174852 | 57 | 11330 | C | 1788 | 334 | 105,5 |
| VC244L-N906 | 881,1 | 214308 | 63 | 16230 | C | 737,6 | 167976 | 56 | 11530 | C | 2385 | 438 | 138,4 |
| VB254L-N906 | 999,7 | 255096 | 64 | 21030 | C | 826,3 | 196308 | 57 | 14800 | C | 2385 | 438 | 138,4 |
| VA264L-N906 | 1088,5 | 290268 | 65 | 26160 | D | 895,6 | 219096 | 58 | 18190 | C | 2385 | 438 | 138,4 |

KOAL-S V Drawing



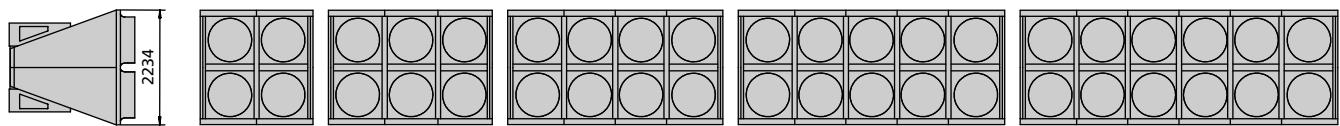
KOAL-S V Dimensions

| Model | | Size | Fans per bank | Coil rows | A | B1 | B2 | C | Total Unit empty weight | | |
|-------|-----|------|---------------|-----------|------|-------|------|------|-------------------------|------|------|
| | | | | | mm | mm | mm | mm | kg | kg | kg |
| VA | 222 | M | 4 | 2 | 2403 | - | - | 2365 | 720 | 866 | 850 |
| VA | 223 | M | 4 | 3 | 2403 | - | - | 2365 | 789 | 1008 | 936 |
| VA | 224 | M | 4 | 4 | 2403 | - | - | 2365 | 857 | 1150 | 1022 |
| VA | 232 | M | 6 | 2 | 3603 | 1183 | 1200 | 3565 | 1087 | 1307 | 1282 |
| VA | 233 | M | 6 | 3 | 3603 | 1183 | 1200 | 3565 | 1190 | 1519 | 1411 |
| VA | 234 | M | 6 | 4 | 3603 | 1183 | 1200 | 3565 | 1292 | 1731 | 1539 |
| VA | 242 | M | 8 | 2 | 4803 | 1183 | 2400 | 4765 | 1449 | 1742 | 1709 |
| VA | 243 | M | 8 | 3 | 4803 | 1183 | 2400 | 4765 | 1586 | 2025 | 2428 |
| VA | 244 | M | 8 | 4 | 4803 | 1183 | 2400 | 4765 | 1722 | 2308 | 2051 |
| VA | 252 | M | 10 | 2 | 6003 | 2383 | 1200 | 5965 | 1811 | 2177 | 2136 |
| VA | 253 | M | 10 | 3 | 6003 | 2383 | 1200 | 5965 | 1982 | 2530 | 3036 |
| VA | 254 | M | 10 | 4 | 6003 | 2383 | 1200 | 5965 | 2152 | 2884 | 2478 |
| VA | 262 | M | 12 | 2 | 7203 | 2383 | 2400 | 7165 | 2173 | 2612 | 2563 |
| VA | 263 | M | 12 | 3 | 7203 | 2383 | 2400 | 7165 | 2378 | 3037 | 3643 |
| VA | 264 | M | 12 | 4 | 7203 | 2383 | 2400 | 7165 | 2536 | 3461 | 4173 |
| VA | 272 | M | 14 | 2 | 8403 | 2382 | 2400 | 8365 | 2536 | 3048 | 2991 |
| VA | 273 | M | 14 | 3 | 8403 | 2382 | 2400 | 8365 | 2774 | 3543 | 2390 |
| VA | 274 | M | 14 | 4 | 8403 | 2382 | 2400 | 8365 | 3013 | 4038 | 3588 |
| VA | 282 | M | 16 | 2 | 9603 | 2382 | 3400 | 9565 | 2898 | 2484 | 3419 |
| VA | 283 | M | 16 | 3 | 9603 | 2382 | 3400 | 9565 | 3171 | 4049 | 3760 |
| VA | 284 | M | 16 | 4 | 9603 | 2382 | 3400 | 9565 | 3444 | 4615 | 4100 |
| VB | 222 | M | 4 | 2 | 2843 | - | - | 2845 | 830 | 1006 | 987 |
| VB | 223 | M | 4 | 3 | 2843 | - | - | 2845 | 912 | 1176 | 1090 |
| VB | 224 | M | 4 | 4 | 2843 | - | - | 2845 | 995 | 1346 | 1193 |
| VB | 232 | M | 6 | 2 | 4323 | 1422 | 1440 | 4285 | 1245 | 1508 | 1480 |
| VB | 233 | M | 6 | 3 | 4323 | 1422 | 1440 | 4285 | 1368 | 1763 | 1634 |
| VB | 234 | M | 6 | 4 | 4323 | 1422 | 1440 | 4285 | 1491 | 2017 | 1788 |
| VB | 242 | M | 8 | 2 | 5763 | 1422 | 2880 | 5725 | 1660 | 2011 | 1973 |
| VB | 243 | M | 8 | 3 | 5763 | 1422 | 2880 | 5725 | 1823 | 2350 | 2178 |
| VB | 244 | M | 8 | 4 | 5763 | 1422 | 2880 | 5725 | 1987 | 2690 | 2383 |
| VB | 252 | M | 10 | 2 | 7203 | 2862 | 1400 | 7165 | 2073 | 2512 | 2463 |
| VB | 253 | M | 10 | 3 | 7203 | 2862 | 1400 | 7165 | 2278 | 2937 | 2719 |
| VB | 254 | M | 10 | 4 | 7203 | 2862 | 1400 | 7165 | 2482 | 3361 | 2975 |
| VB | 262 | M | 12 | 2 | 8643 | 2862 | 2720 | 8602 | 2488 | 3015 | 2947 |
| VB | 263 | M | 12 | 3 | 8643 | 2862 | 2720 | 8602 | 2733 | 3524 | 3254 |
| VB | 264 | M | 12 | 4 | 8643 | 2862 | 2720 | 8602 | 2979 | 4033 | 3561 |
| VC | 222 | M | 4 | 2 | 3603 | 1782 | - | 3565 | 987 | 1207 | 1182 |
| VC | 223 | M | 4 | 3 | 3603 | 17822 | - | 3565 | 1090 | 1419 | 1311 |
| VC | 224 | M | 4 | 4 | 3603 | 1782 | - | 3565 | 1192 | 1631 | 1439 |
| VC | 232 | M | 6 | 2 | 5403 | 1782 | 1800 | 5365 | 1480 | 1809 | 1773 |
| VC | 233 | M | 6 | 3 | 5403 | 1782 | 1800 | 5365 | 1634 | 2128 | 1965 |
| VC | 234 | M | 6 | 4 | 5403 | 1782 | 1800 | 5365 | 1787 | 2446 | 2157 |
| VC | 242 | M | 8 | 2 | 7203 | 1782 | 3600 | 7165 | 1973 | 2412 | 2327 |
| VC | 243 | M | 8 | 3 | 7203 | 1782 | 3600 | 7165 | 2178 | 2837 | 2619 |
| VC | 244 | M | 8 | 4 | 7203 | 1782 | 3600 | 7165 | 2383 | 3261 | 2875 |
| VC | 252 | M | 10 | 2 | 9003 | 3565 | 1840 | 8965 | 2466 | 3015 | 2918 |
| VC | 253 | M | 10 | 3 | 9003 | 3565 | 1840 | 8965 | 2545 | 2722 | 3274 |
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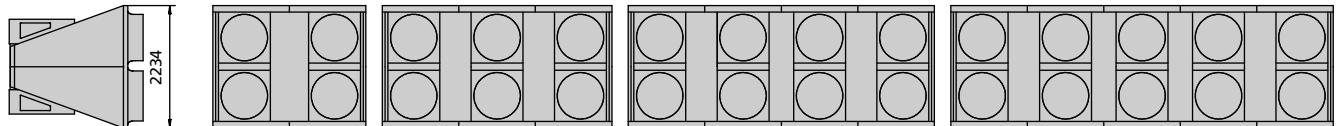
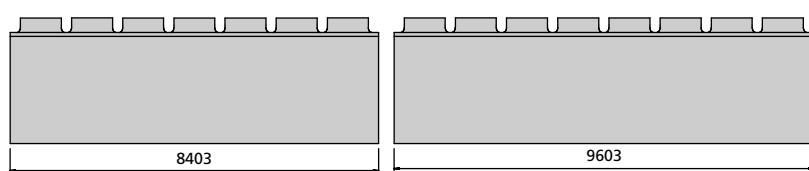
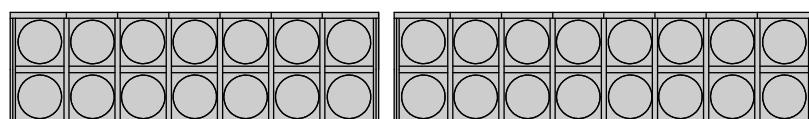
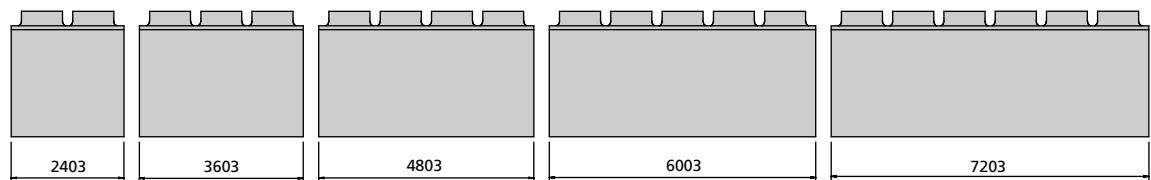
Notes:

Total unit dry weight is dependent upon the coil material used (AL = Copper tubes with Aluminium or Vinyl coated aluminium or Sea water resistant aluminium fins, CU = Copper tubes with Copper fins).

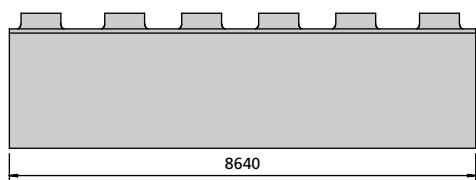
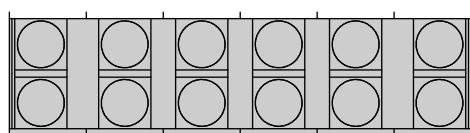
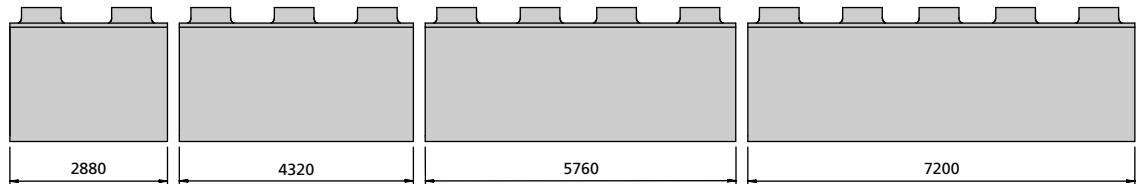
KOAL-S V Model layout



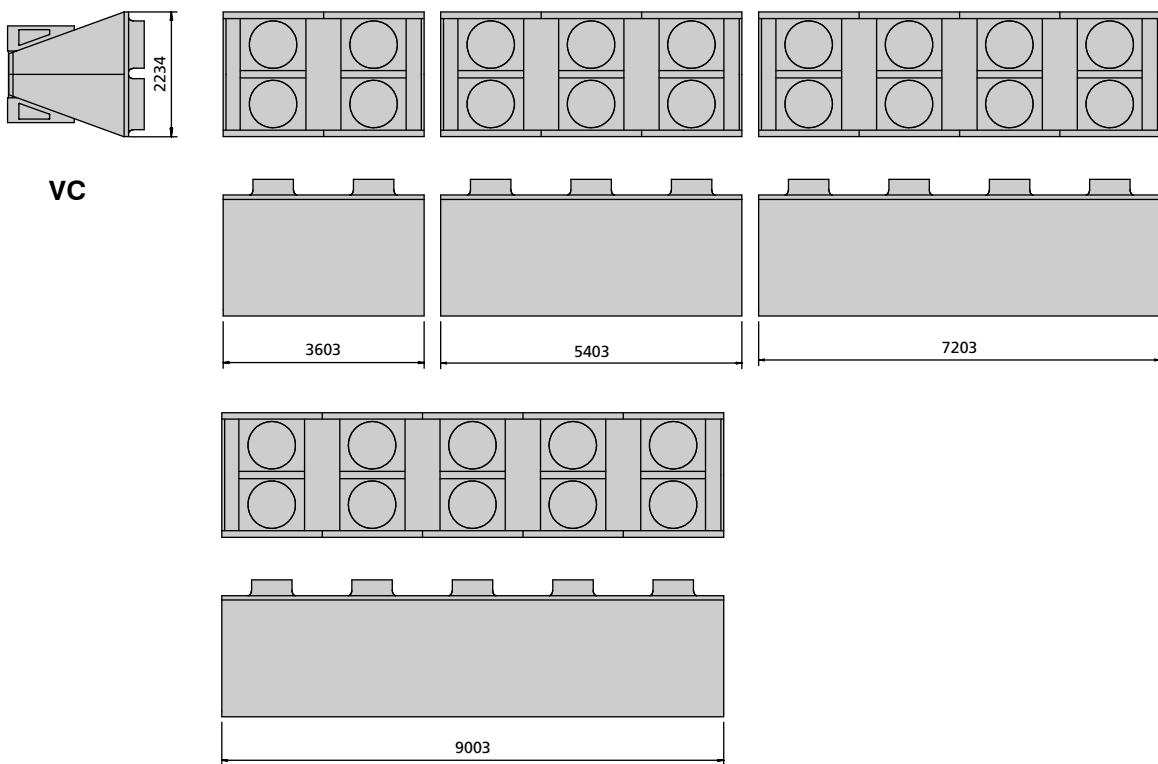
VA



VB



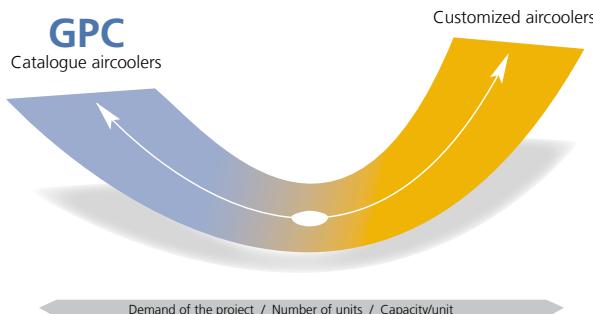
KOAL-S V Model layout





Best of both worlds

Return of investment / Customer satisfaction / Fit for purpose



One question which always is in the mind of an industrial refrigeration engineer is the following:
Do I ask for standard or shall I go for tailor made?

There are good reasons for both choices. In some cases, the solution needed is beyond the boundaries of the standard program. In other occasions, tailor made can even offer a more economical solution. In again other situations standard would be the logical choice to go for.

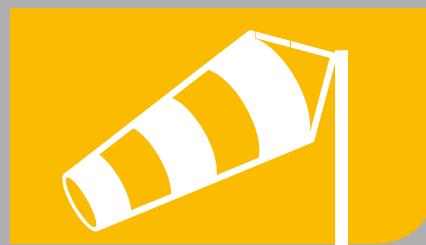
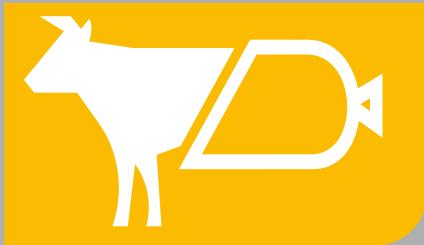
In any of the cases GEA Goedhart can offer you the right solution. With the standard selection software GPC finding the right heat exchanger is just a few mouse clicks away. On other cases the GEA Goedhart engineers are happy to help you out!

**Goedhart GPC Program,
your selection software
for air coolers and air
cooled condensers!**

Goedhart KOAL-S aircooled condenser selections are available in the Goedhart Product Catalogue or GPC.
On the tool section of www.goedhart.nl you will find the download button for the latest version of the GPC.

The GPC program is an easy to use tool for contractors, consultants and every other thinkable user and gives you access to many advantages such as:

- Multilingual
- The whole range of GEA Goedhart standard air coolers and air cooled condensers
- Pre-select buttons to application
- Selections including drawings and an extensive list of accessories
- Spare parts
- Accurate capacities: Under the GPC shell hides a sophisticated capacity calculation program which optimizes circuits to the design conditions as you work!



For Contractors and Original Equipment Manufacturers (OEM) related to the industrial refrigeration industry, GEA Goedhart B.V. offers an unlimited range of air coolers and air cooled condensers in several configurations.

Depending on the application, the optimum configuration will be selected in close cooperation with our customers.

Configurations

The following material combinations are available in various tube pitches and various fin spacing:

| Tube material | Fin material |
|------------------------------------|------------------------------------|
| Copper (Cu) | Aluminium (Al) |
| Stainless steel (Stst) | Aluminium (Al) |
| Stainless steel (Stst) | Stainless steel (Stst) |
| Aluminium (Al) | Aluminium (Al) |
| Hot dipped galvanized steel (FeZn) | Hot dipped galvanized steel (FeZn) |

GEA Goedhart air coolers for every application



Options on aluminium fins

- Goldblack coated fins
- Seawater resistant aluminium fins (AlMg)

Applications

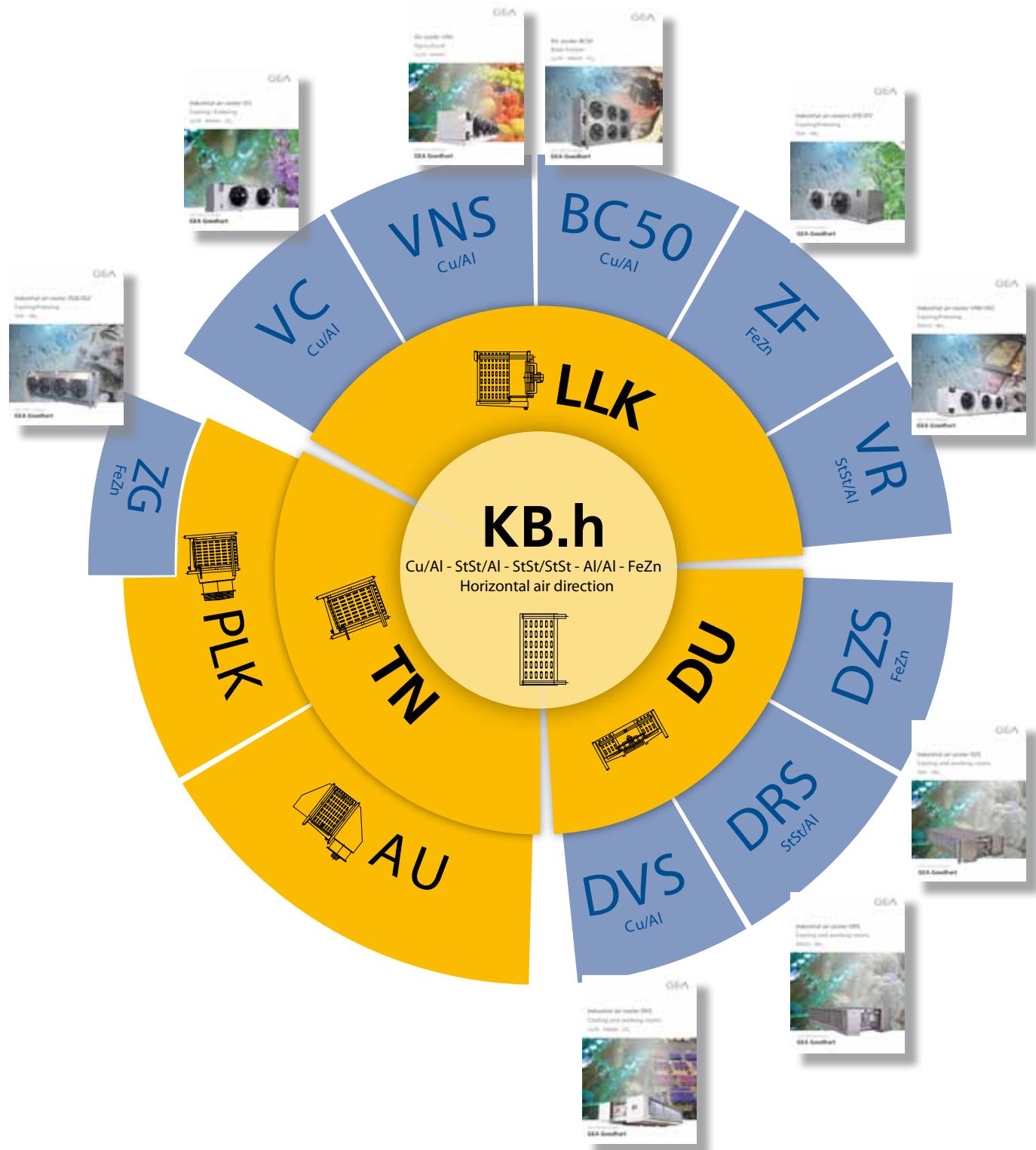
| Cooling | Freezing |
|------------------------------------|------------------------------------|
| Cold stores / Distribution centres | Cold stores / Distribution centres |
| Food processing rooms | Tunnel / spiral freezers |
| Fruit storage | Slaughter houses |
| Banana ripening storage | Automotive testing rooms |
| Greenhouse conditioning | Ski domes |

Pressure Equipment Directive (P.E.D.)

All aircoolers produced by Goedhart comply with the Pressure Equipment Directive 97/23/EC. PED certificates can be downloaded from www.goedhart.nl.

Goedhart industrial air coolers

Catalogue ranges



Notes



Excellence

Passion

Integrity

Responsibility

GEA-versity

GEA Group is a global mechanical engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881 the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX Europe 600 Index.



GEA Heat Exchangers

GEA Goedhart B.V.

Nijverheidsweg 6, 4695 RC Sint Maartensdijk
The Netherlands
Phone +31 (0)166 665 665, Fax+31 (0)166 663 698
www.goedhart.nl,
info.goedhart.nl@geagroup.com

GEA Heat Exchangers

GEA Goedhart s.r.o.

Kostomládecká 180, 288 26 Nymburk
Czech Republic
Phone +420 325 519 951, Fax+420 325 519 952
www.goedhart.cz,
goedhart.cz@geagroup.com