

VELOTERM.

PRODUCT CATALOG — 2026

FAST & RELIABLE SOLUTION

MODULAR AIR HANDLING UNITS

VKS SERIES AIR HANDLING UNIT

Flexible, modular air handling unit solutions tailored to every project, available in 105 different cross-sections with an airflow range of 1,000 – 145,000 m³/h.

105

CROSS-SECTIONS

0–145K

M³/H AIRFLOW RANGE

60mm

DOUBLE-SKIN PANEL

2-Year

WARRANTY

VKS SERIES

AIR HANDLING UNIT

FEATURES

- Flexible, unlimited configuration
- Modular design
- 105 different cross-sections, wide capacity range of 2,000 – 145,000 m³/h
- 60 mm double-skin panel
- Design compliant with Eco-design criteria
- Easy-to-clean, smooth interior surface
- Low energy consumption, high comfort
- Excellent compatibility with all VRF outdoor unit brands
- Superior reliability and high quality
- Easy maintenance and service access



**2-Year
Warranty**



**After-Sales
Service**



**Fast
Service**



**Easy
Installation**



VKS Series Air Handling Unit – General View

Frame Profile	Steel
Internal / External Sheet	Galvanized – Stainless Steel – Painted Galvanized
Panel Thickness	60 mm
Thermal & Acoustic Insulation	Rock Wool – Glass Wool
Fan	Plug Fan – EC Motor Plug Fan
Humidification	Steam – Water Spray – Atomizing
Heat Recovery	Cross-Flow – Rotary – Counter-Flow
Heating / Cooling	Chilled Water – Hot Water – DX – Electric
Configuration	Single-Deck – Double-Deck – Side-by-Side Layout
Coil	Copper Tube – Aluminum / Epoxy-Coated Aluminum Fin
Filters	Coarse (G Class), Fine (M-F Class), HEPA, Activated Carbon
Options	Roof – UV Lamp – Inspection Window – Manometer – Fan/Pressure Sensors – Trap – VFD – Lighting – Door Switch – Maintenance Switch – Frost Protection – Flange – MCC/DDC Panel

VKS SERIES

AIR HANDLING UNIT

Casing, Panel and Insulation Components



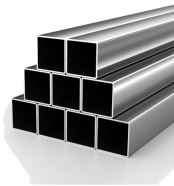
Casing Structure

A robust frame structure is formed using steel box profiles and intermediate profiles. Full airtightness between panel and frame is ensured with EPDM gaskets. As standard, galvanized steel base frames 2 mm thick and 160 mm high are used; base frame connections are bolted, without welding.



Profile Structure

Features a steel profile construction; 30×30 and 30×60 mm box profiles are used to achieve high mechanical strength and a rigid casing.



Panel Structure

Panels and doors are manufactured as 60 mm thick double-skin elements. The outer surface is protective polyfilm-coated painted sheet in RAL 7035; the inner surface is available in galvanized, stainless steel or painted sheet. Minimum sheet thickness is 0.8 mm.



Insulation

Rock wool insulation with a density of 70 kg/m³ and A1 fire classification is used, providing superior thermal and acoustic insulation.



Dampers

Dampers are sized to pass 100% of the airflow, featuring extruded aluminum frames and opposed, aerodynamic blades that provide minimum air resistance.



VKS SERIES

AIR HANDLING UNIT

Filtration, Coil and Heat Recovery Components



Coils

Standard construction consists of copper tubes, aluminum fins and galvanized steel headers. Stainless steel, epoxy or hydrophilic coating options are available; units can be supplied as chilled/hot water or DX type. Slide-out mounting rails allow easy withdrawal for maintenance and cleaning.



Filters

Cassette or slide-in type, easy to install and remove. The entire cross-section is used as filter face area. Coarse filter, bag filter, compact (rigid) filter, HEPA and activated carbon filter options are offered.



Heat Recovery

Plate type (cross-flow / counter-flow), rotary, run-around coil and heat-pipe type heat recovery units are available as options, delivering energy savings and lower operating costs.



Fans

Forward-curved / backward-curved centrifugal, plug and EC fan options are offered, selected according to airflow rate and total static pressure. Static/dynamic balancing complies with international standards; the fan section features a safety-interlocked access door.



VKS SERIES

AIR HANDLING UNIT

Motor, Humidification and Accessory Components

**Motors**

IE2/IE3 efficiency, IP55 protection class asynchronous motors are used on plug or centrifugal fans. EC fans are fitted with motors of at least IE4 efficiency class.

**Humidifiers**

Three humidification types are offered: steam, water spray (wetted media), and atomizing — the most suitable type is selected according to the application.

**Condensate Drain Pan**

A sloped stainless steel drain pan discharges condensate formed in the cooling coil, humidifier and heat recovery sections; it also covers the cooling coil headers and the droplet eliminator.

**UV Lamp**

Neutralizes microorganisms that grow on the cooling coil surface and in the moist environment of the drain pan, ensuring a hygienic indoor environment.

**Accessories**

Inspection window, lighting and an auxiliary-contact emergency stop button are provided as standard. Manometer, maintenance switch, differential pressure switch, bypass damper and thermistor can be added on request.

SELECTION SOFTWARE

AHUWARE VELOTERM

Fast and Reliable Product Selection

Our next-generation selection software helps you determine the most suitable unit for your project in just a few steps. Its user-friendly interface speeds up the selection process, saves engineering time and minimizes errors.

Select the Right Product in Just 4 Steps

1

Define the Product Series

Start the design process by selecting the product family suited to your project.

2

Enter the Operating Conditions

Define the airflow, temperature, pressure and other operating parameters.

3

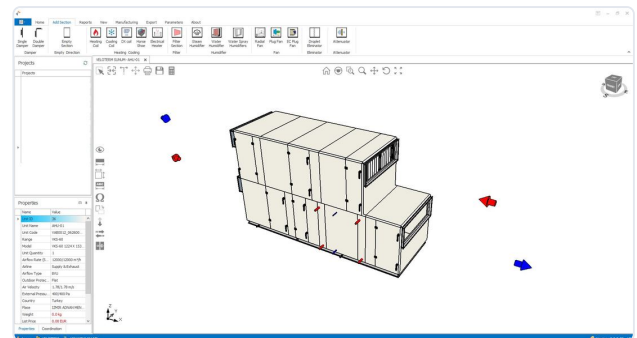
Define the Performance Values

Enter the required capacity and operating points into the system.

4

Review the Results

The software instantly lists suitable products along with their performance values.



AHUWARE Selection Software — 3D Configuration Screen

Instant Results and Flexible Configuration

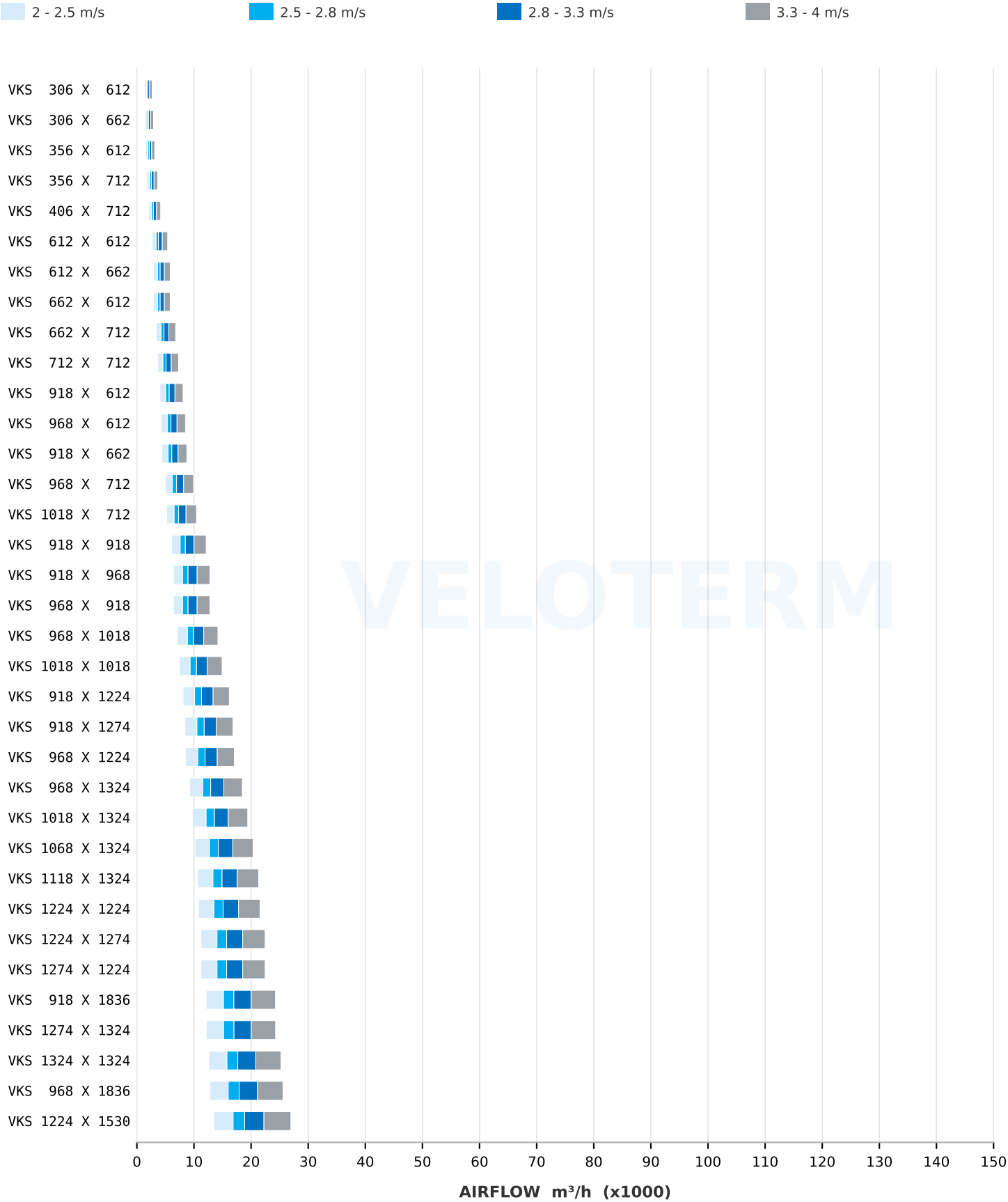
Once the selection is complete, you can customize your unit according to project requirements, add optional components, and compare different configurations. A technical report, price list and fan curve chart can be generated on completion. These final reports can be downloaded in various formats.

Veloterm Heating & Cooling Systems reserves the right to change catalog data without prior notice.

VKS SERIES

QUICK SELECTION CHART

Airflow (m³/h) by Coil Face Velocity



VKS SERIES

QUICK SELECTION CHART

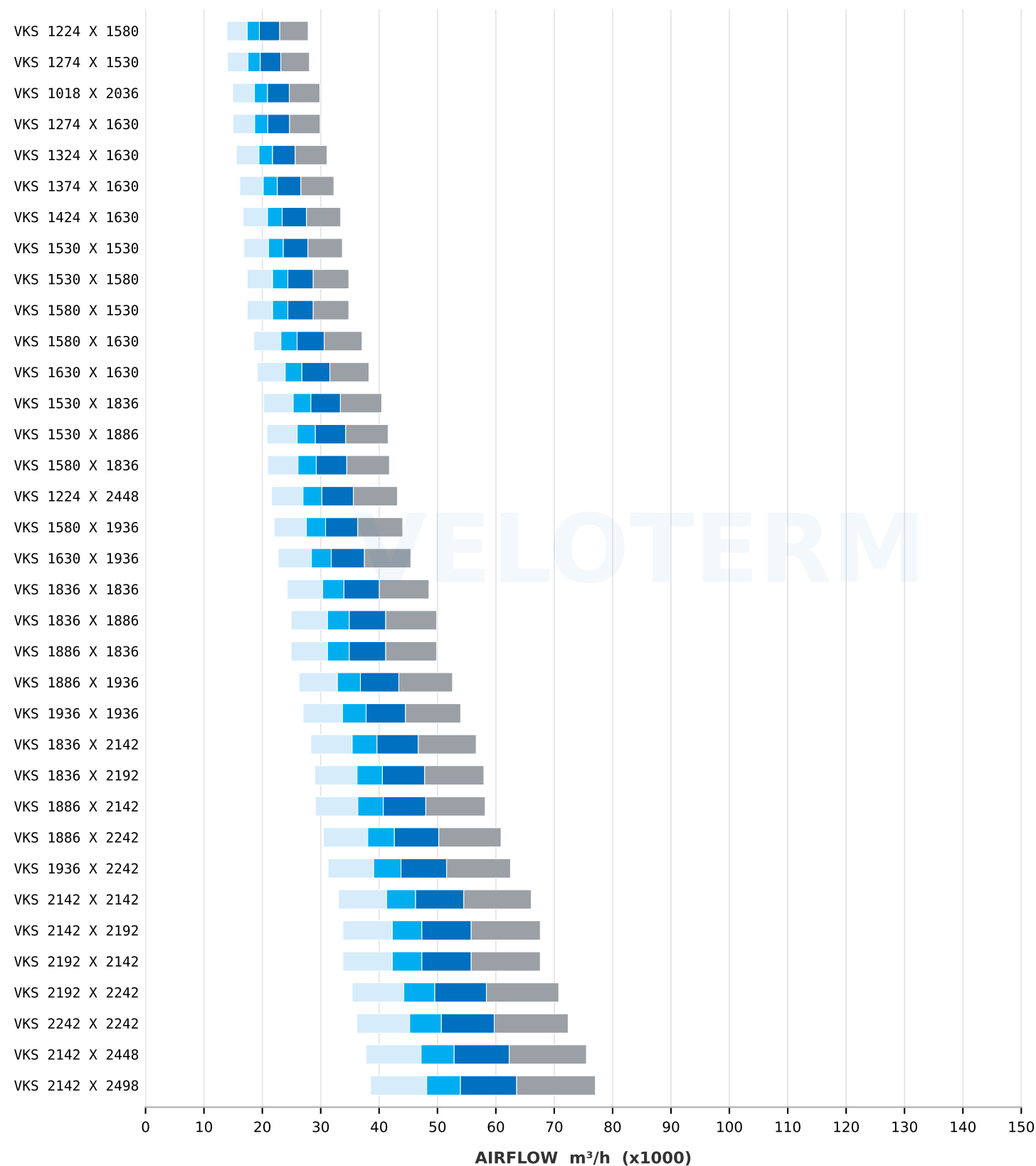
Airflow (m³/h) by Coil Face Velocity

2 - 2.5 m/s

2.5 - 2.8 m/s

2.8 - 3.3 m/s

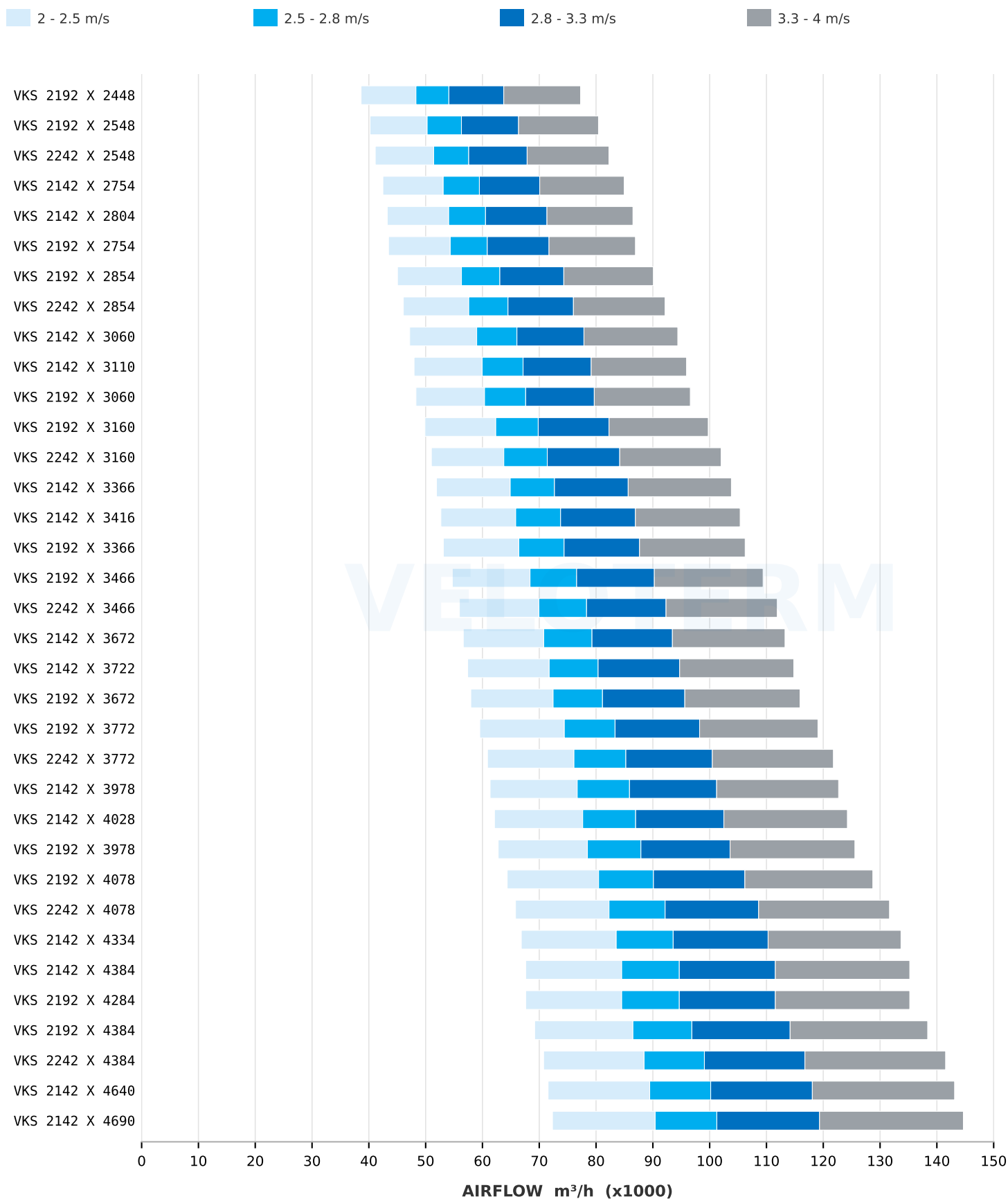
3.3 - 4 m/s



VKS SERIES

QUICK SELECTION CHART

Airflow (m³/h) by Coil Face Velocity



PRODUCT CATALOG

VELOTERM.

"Engineering solutions for comfortable, healthy and efficient indoor environments."

01
PENDİK / İSTANBUL

Head Office

Yenişehir Mah. Osmanlı
Bulvarı
No:5 Kat:3 D:32 Kurtköy
Pendik / İstanbul

02
ÇANKAYA / ANKARA

Central Anatolia Regional Office

Cevizlidere Mah. 1246/1 Sok.
No:3 Kat:3 D:31 Paradise
Residence
Çankaya / Ankara

03
AKYAZI / SAKARYA

Factory

Küçücek İstiklal Mah.
Fabrikalar Cad. No:19A
Akyazı / Sakarya