

Air Handling Unit

Comfort Air Handling Units

Air Handling Units with Plate Type Heat Recovery Unit

Air Handling Units with Rotary Type Heat Recovery Unit

Hygienic Air Handling Units

Package Hygienic Air Handling Units (PHS)

Air Handling Units Fuelled With Natural Gas (DGS)

Pool Dehumidification Air Handling Units

Duct Type Air Handling Units (Vertical or Horizontal Type)

Shelter-Ventilating Units (SKS)

The logo for VENTAS, featuring the word "VENTAS" in a bold, teal, sans-serif font. A stylized white fan or turbine icon is integrated into the letter "A".

VENTAS Isıtma, Soğutma, Enerji Sistemleri, İnşaat Sanayi ve Ticaret Anonim Şirketi; has been established in 2011 for production, consulting, project preparation and equipment supply in heating, cooling, air-conditioning and energy efficiency areas. VENTAS, which is established on top of twenty years of know-how and experience of its founders in the aforementioned sectors, is serving at its İstanbul Hadimkoy and Catalca production centres.

The product portfolio of HVAC market's new brand VENTAS includes, hygienic air handling units, comfort air handling units, high-efficiency heat-recovery ventilation units, fan coil units, exhaust fans with cabinet, supply fans with cabinet, duct type fans, roof type fans, fire smoke removal fans, trench heaters, roof top package air conditioning systems (water cooled, air cooled, gas-fired, heat recovery etc.) units.

Having ISO 9001, CE, TSEK, GOST-R and EN 1886 certificates and benefiting all advantages of modern high technology, in VENTAS production centres, high quality and durable products are manufactured by a dynamic and experienced expert team with a meticulous and neat workmanship, and a solution oriented approach.

VENTAS brand's main principles are to serve its customers as a high quality solution partner and to provide excellent service with a dynamic structure both in pre-sales and after-sales.

Having reached a fast and continuous growth track since it has been established, VENTAS has managed to become a well-known company in heating, cooling, air-conditioning and energy efficiency sectors throughout the country. Moreover, the Turkish brand VENTAS has penetrated its excellent and high quality products into international markets in a very short time frame, and offered a complete product supply chain to these markets through its wide dealer and service structure.

Paying the utmost attention in its products to energy efficiency, endurance, reliability, sustainable technology and competitive price policy, VENTAS offers to be the corporate solution partner of all investors and mechanical construction companies in Turkey and all over the world, and shares its dynamic vision, renewed and developed continuously, with all its customers.



General Specifications

With an air flow range of 1000 m³/h to 125,000 m³/h, unit sizes in 85 different models are provided. VKS series air handling units are manufactured in three different panel thickness of 25mm, 45mm and 60mm.

Besides, solutions are offered for application areas such as hospitals (operation and clean room), pharmaceuticals factories, food production factories, chemical production facilities and for similar applications with hygienic air handling units produced in two different panel thickness of 45mm and 60mm.

Within air handling units, production can be made with different filling materials such as rock wool, glass wool or polyurethane.

Sheet metal thickness between 0.80mm and 1.2mm is available for alternative air handling units.

For panel production material, VENTAS provides galvanized, rustproof, aluminium and PVC coated sheet options. Moreover, RAL 9018 painted metal sheets are used at the outer part of units.

Special aluminium profiles are used at the outer frame of air handling units. Profiles have a custom and closed design in order to reduce the internal pressure losses as much as possible and prevent from pollution that can be produced within the devices.

Corner and omega parts connecting outer frame system are designed in accordance with the structure of profiles and strengtheners and manufactured out of heat-resistant glass-strengthened composite material.

Panels are manufactured in sandwich structure with double sides. Within panels, rock wool insulation material with 70kg/m³ density is used as sound and thermal isolation filling material. Moreover, glass wool and polyurethane insulation materials are also available optionally. At connection points of panels and outer frame, impermeable tight seals from RPDM material with custom surface design are used.

Within VENTAS air handling units, air adjustment dampers with aerodynamic wings are used which work with hidden geared impulsion system. Damper wings and frame are manufactured from aluminium profile. Gear and bearing systems are produced with a rigid composite material resistant to heat, impact and dust. There are special seals between damper wings in order to guarantee air impermeability.



Air Handling Unit

General Specifications

Air handling unit's ventilator or aspirator units are produced in standard cellular structure. While ventilator and aspirators can be chosen as forward curved blades or backward curved blades, radial single/double suction fans balanced statically and/or dynamically, they can also be designed with plug-fan. Electrical motor of fans are mounted on to the same chassis. In order to prevent the vibration that can be occurred especially within this chamber to the other part of the air handling unit, rubber-based or elastic (with spring) vibration isolator is used at an amount and size dependent on the capacity, size, fan and motor cycles of the unit.

Pulleys used in fans and motors are V belt pulleys with clamping rings in accordance with DIN 2211 and TS 148 norms. Pulleys are formed in two parts. That second part can be mounted without a need for a hardware after the first part is mounted in fabric to the fan and motor spindle makes specifying the pulley size very easy when desired. In order to transfer power between motor and fan pulleys, narrow V-belts (complying with TS 198/40 DIN 7753/1) or classical V-belts (complying with TS 198/1 DIN 2215) are used. Moreover, there is a belt stretching mechanism for adjusting the belt tightness between the fan and motor to the suitable level.

Mounting frames are designed for different filter classes used together with air handling units for several different purposes. Thanks to this design, filters can be placed very easily into their sockets with spring systems. With this design, any possible by-pass that can be occurred at filters are reduced to minimal levels. G3-G4 class filters used as front-side filters, have galvanized frames, and with galvanized string connections, they are mounted with increased resistance to air flow.

Bag filters with different classes are used as second-level filters in air handling units. Moreover, bag filters are used as pre-filters for hygienic air handling units. Bag filters can be chosen out of F5 to F9 classes and applied. In air handling units, rigid filters can be used as the last filter at between classes F5 to F9 upon need. In order to filter specifically the undesired smell at air handling units, carbon imbued panel or active carbon filters with cartridge are used.

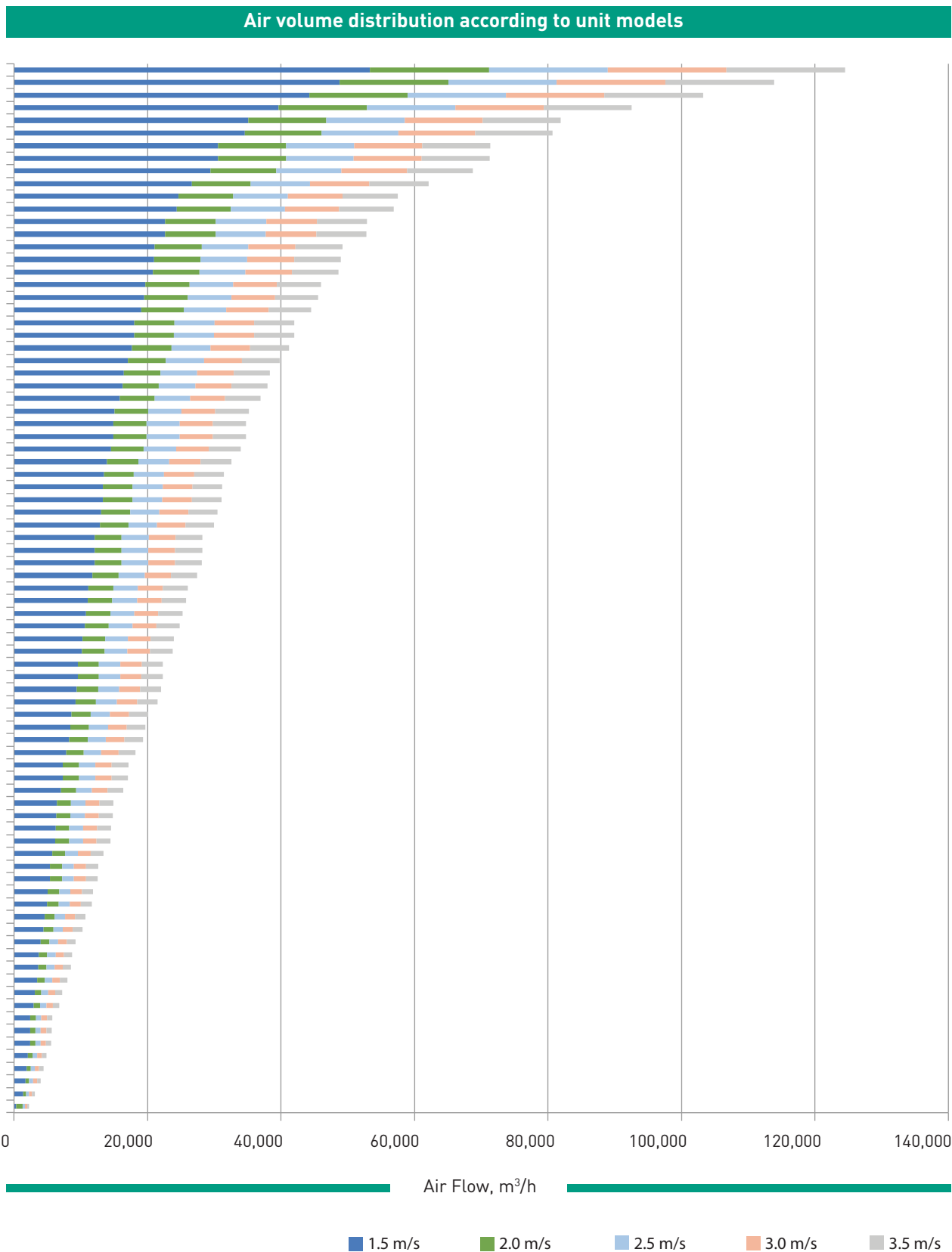
Heating and cooling coils used in air handling units are manufactured as aluminium fin/steel collector or steel fin/steel collector depending on fluid features. All coils are subject to hydrostatic tests before mounting. In order for easy maintenance and mounting, coils are designed with special sliding mechanism. In air handling units with cooling coils, rustproof condensation pan and polypropylene drop eliminate (complying with DIN 7728 standards and resistant up to 130 °C) is designed and produced as standard.

Optionally, steamy and watery evaporating humidifier units can be produced in standard cell structure. In order to prevent water drops, that formed during humidification within the cell, to get over to the surrounding or to the other parts of the unit, polypropylene drap eliminates are used and mounted to the inner part of the cell.

Silencer modules are manufactured in standard cell structure. Rock wool or glass wool is used in silencer coulisses. Two sides of the silencer's coulisse in contact with air are coated with fiber glass material. Different numbers of coulisses are used within the cell depending on capacity and size.



Air Handling Unit Models Capacity Graph



Air Handling Unit

Air Handling Unit Models Size Table

| SIZE NAME | H | B | 1.5 m/s | 2 m/s | 2.5 m/s | 3 m/s | 3.5 m/s |
|------------|------|------|---------|--------|---------|---------|---------|
| VKS 0.505 | 535 | 535 | 325 | 1,300 | 1,625 | 1,950 | 2,275 |
| VKS 0.50 | 535 | 700 | 1,345 | 1,793 | 2,241 | 2,689 | 3,137 |
| VKS 0.51 | 535 | 865 | 1,714 | 2,286 | 2,857 | 3,429 | 4,000 |
| VKS 1.9821 | 865 | 865 | 3,078 | 4,103 | 5,129 | 6,155 | 7,181 |
| VKS 0.52 | 535 | 1030 | 2,084 | 2,779 | 3,474 | 4,168 | 4,863 |
| VKS 0.53 | 535 | 1195 | 2,454 | 3,272 | 4,090 | 4,908 | 5,726 |
| VKS 1.00 | 700 | 700 | 1,879 | 2,506 | 3,132 | 3,758 | 4,385 |
| VKS 1.10 | 700 | 865 | 2,396 | 3,195 | 3,993 | 4,792 | 5,591 |
| VKS 1.20 | 700 | 1030 | 2,913 | 3,884 | 4,855 | 5,826 | 6,796 |
| VKS 1.30 | 700 | 1195 | 3,430 | 4,573 | 5,716 | 6,859 | 8,002 |
| VKS 1.40 | 700 | 1360 | 3,946 | 5,262 | 6,577 | 7,893 | 9,208 |
| VKS 1.50 | 865 | 700 | 2,414 | 3,218 | 4,023 | 4,828 | 5,632 |
| VKS 1.60 | 865 | 865 | 3,078 | 4,103 | 5,129 | 6,155 | 7,181 |
| VKS 1.70 | 865 | 1030 | 3,741 | 4,989 | 6,236 | 7,483 | 8,730 |
| VKS 1.80 | 865 | 1195 | 4,405 | 5,874 | 7,342 | 8,810 | 10,279 |
| VKS 1.90 | 865 | 1360 | 5,069 | 6,759 | 8,448 | 10,138 | 11,828 |
| VKS 1.100 | 865 | 1525 | 5,733 | 7,644 | 9,555 | 11,466 | 13,376 |
| VKS 1.110 | 865 | 1690 | 6,397 | 8,529 | 10,661 | 12,793 | 14,925 |
| VKS 1.1200 | 1030 | 700 | 2,948 | 3,931 | 4,914 | 5,897 | 6,880 |
| VKS 1.120 | 1030 | 865 | 3,661 | 4,881 | 6,102 | 7,322 | 8,542 |
| VKS 1.130 | 1030 | 1030 | 4,570 | 6,093 | 7,617 | 9,140 | 10,663 |
| VKS 1.140 | 1030 | 1195 | 5,381 | 7,174 | 8,968 | 10,762 | 12,555 |
| VKS 1.150 | 1030 | 1360 | 6,192 | 8,256 | 10,319 | 12,383 | 14,447 |
| VKS 1.160 | 1030 | 1525 | 7,002 | 9,337 | 11,671 | 14,005 | 16,339 |
| VKS 1.170 | 1030 | 1690 | 7,813 | 10,418 | 13,022 | 15,627 | 18,231 |
| VKS 1.180 | 1030 | 1855 | 8,624 | 11,499 | 14,373 | 17,248 | 20,123 |
| VKS 1.190 | 1030 | 2020 | 9,435 | 12,580 | 15,725 | 18,870 | 22,015 |
| VKS 1.191 | 1030 | 2185 | 10,246 | 13,661 | 17,076 | 20,491 | 23,907 |
| VKS 1.192 | 1030 | 2350 | 11,057 | 14,742 | 18,428 | 22,113 | 25,799 |
| VKS 1.200 | 1195 | 1030 | 5,399 | 7,198 | 8,998 | 10,797 | 12,597 |
| VKS 1.210 | 1195 | 1195 | 6,356 | 8,475 | 10,594 | 12,713 | 14,832 |
| VKS 1.220 | 1195 | 1360 | 7,314 | 9,752 | 12,191 | 14,629 | 17,067 |
| VKS 1.230 | 1195 | 1525 | 8,272 | 11,030 | 13,787 | 16,544 | 19,302 |
| VKS 1.240 | 1195 | 1690 | 9,230 | 12,307 | 15,383 | 18,460 | 21,537 |
| VKS 1.250 | 1195 | 1855 | 10,188 | 13,584 | 16,980 | 20,376 | 23,771 |
| VKS 1.260 | 1195 | 2020 | 11,146 | 14,861 | 18,576 | 22,291 | 26,006 |
| VKS 1.270 | 1195 | 2185 | 12,103 | 16,138 | 20,172 | 24,207 | 28,241 |
| VKS 1.280 | 1195 | 2350 | 13,061 | 17,415 | 21,769 | 26,123 | 30,476 |
| VKS 1.290 | 1360 | 865 | 4,989 | 6,651 | 8,314 | 9,977 | 11,640 |
| VKS 1.291 | 1360 | 1030 | 6,227 | 8,303 | 10,379 | 12,455 | 14,530 |
| VKS 1.292 | 1360 | 1195 | 7,332 | 9,776 | 12,220 | 14,664 | 17,108 |
| VKS 1.300 | 1360 | 1360 | 8,437 | 11,249 | 14,062 | 16,874 | 19,686 |
| VKS 1.31 | 1360 | 1525 | 9,542 | 12,722 | 15,903 | 19,084 | 22,264 |
| VKS 1.32 | 1360 | 1690 | 10,647 | 14,196 | 17,744 | 21,293 | 24,842 |
| VKS 1.33 | 1360 | 1855 | 11,751 | 15,669 | 19,586 | 23,503 | 27,420 |
| VKS 1.34 | 1360 | 2020 | 12,856 | 17,142 | 21,427 | 25,713 | 29,998 |
| VKS 1.35 | 1360 | 2185 | 13,961 | 18,615 | 23,269 | 27,922 | 32,576 |
| VKS 1.36 | 1360 | 2350 | 15,066 | 20,088 | 25,110 | 30,132 | 35,154 |
| VKS 1.369 | 1525 | 2845 | 20,826 | 27,768 | 34,711 | 41,653 | 48,595 |
| VKS 1.37 | 1525 | 1360 | 9,560 | 12,746 | 15,933 | 19,119 | 22,306 |
| VKS 1.38 | 1525 | 1525 | 10,811 | 14,415 | 18,019 | 21,623 | 25,227 |
| VKS 1.39 | 1525 | 1690 | 12,063 | 16,084 | 20,106 | 24,127 | 28,148 |
| VKS 1.40 | 1525 | 1855 | 13,315 | 17,754 | 22,192 | 26,630 | 31,069 |
| VKS 1.41 | 1525 | 2020 | 14,567 | 19,423 | 24,278 | 29,134 | 33,990 |
| VKS 1.42 | 1525 | 2185 | 15,819 | 21,092 | 26,365 | 31,638 | 36,911 |
| VKS 1.43 | 1525 | 2350 | 17,071 | 22,761 | 28,451 | 34,142 | 39,832 |
| VKS 1.44 | 1690 | 1525 | 12,081 | 16,108 | 20,135 | 24,162 | 28,189 |
| VKS 1.45 | 1690 | 1690 | 13,480 | 17,973 | 22,467 | 26,960 | 31,453 |
| VKS 1.46 | 1690 | 1855 | 14,879 | 19,839 | 24,798 | 29,758 | 34,717 |
| VKS 1.47 | 1690 | 2020 | 16,278 | 21,704 | 27,130 | 32,556 | 37,981 |
| VKS 1.48 | 1690 | 2185 | 17,677 | 23,569 | 29,461 | 35,353 | 41,245 |
| VKS 1.49 | 1690 | 2350 | 19,076 | 25,434 | 31,793 | 38,151 | 44,510 |
| VKS 1.50 | 1855 | 1525 | 13,351 | 17,801 | 22,251 | 26,702 | 31,152 |
| VKS 1.51 | 1855 | 1690 | 14,897 | 19,862 | 24,828 | 29,793 | 34,759 |
| VKS 1.52 | 1855 | 1855 | 16,443 | 21,923 | 27,404 | 32,885 | 38,366 |
| VKS 1.53 | 1855 | 2020 | 17,988 | 23,985 | 29,981 | 35,977 | 41,973 |
| VKS 1.54 | 1855 | 2185 | 19,534 | 26,046 | 32,557 | 39,069 | 45,580 |
| VKS 1.55 | 1855 | 2350 | 21,080 | 28,107 | 35,134 | 42,161 | 49,187 |
| VKS 1.60 | 2020 | 1855 | 18,006 | 24,008 | 30,011 | 36,013 | 42,015 |
| VKS 1.61 | 2020 | 2020 | 19,699 | 26,266 | 32,832 | 39,398 | 45,965 |
| VKS 1.62 | 2040 | 2205 | 20,982 | 27,976 | 34,970 | 41,963 | 48,957 |
| VKS 1.63 | 2040 | 2370 | 22,675 | 30,233 | 37,791 | 45,349 | 52,907 |
| VKS 1.64 | 2040 | 2535 | 24,368 | 32,490 | 40,613 | 48,735 | 56,858 |
| VKS 1.67 | 2040 | 3030 | 29,446 | 39,262 | 49,077 | 58,892 | 68,708 |
| VKS 1.80 | 2370 | 2040 | 22,639 | 30,185 | 37,732 | 45,278 | 52,824 |
| VKS 1.81 | 2370 | 2205 | 24,626 | 32,835 | 41,043 | 49,252 | 57,460 |
| VKS 1.82 | 2370 | 2370 | 26,613 | 35,484 | 44,355 | 53,226 | 62,097 |
| VKS 1.84 | 2370 | 2700 | 30,587 | 40,782 | 50,978 | 61,173 | 71,369 |
| VKS 1.86 | 2370 | 3030 | 34,561 | 46,081 | 57,601 | 69,121 | 80,641 |
| VKS 1.90 | 2700 | 2370 | 30,551 | 40,735 | 50,918 | 61,102 | 71,286 |
| VKS 1.91 | 2700 | 2700 | 35,113 | 46,817 | 58,522 | 70,226 | 81,930 |
| VKS 1.92 | 2700 | 3030 | 39,675 | 52,900 | 66,125 | 79,350 | 92,575 |
| VKS 1.93 | 2700 | 3360 | 44,237 | 58,982 | 73,728 | 88,474 | 103,219 |
| VKS 1.94 | 2700 | 3690 | 48,799 | 65,065 | 81,331 | 97,597 | 113,864 |
| VKS 1.95 | 2700 | 4020 | 53,361 | 71,148 | 88,934 | 106,721 | 124,508 |

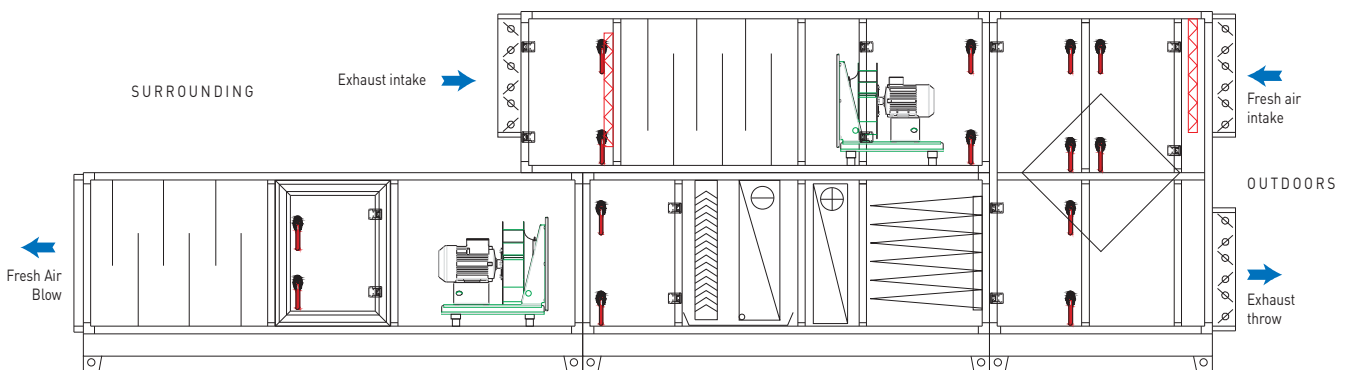
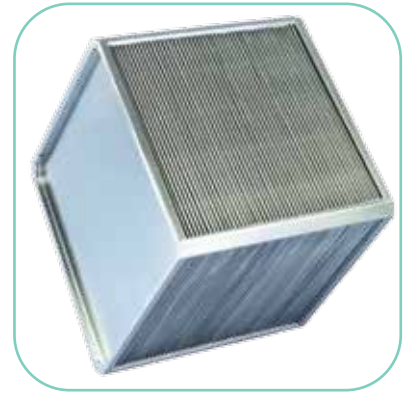
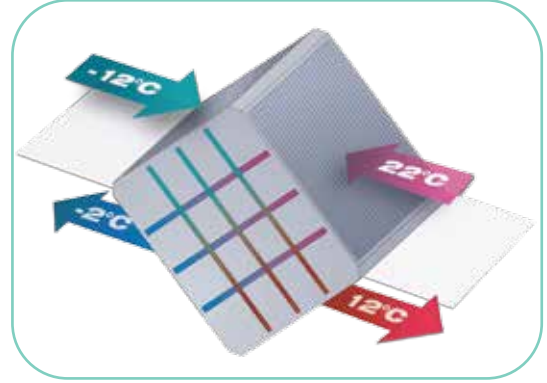
Air Handling Units with Plate Type Heat Recovery Unit

In principle, in plate type air-to-air heat recovery systems, heat transfer is directly made from exhaust air to fresh air such that saving is achieved for indoor load value at heating and cooling conditions.

In heat recovery systems known as plate type, aluminium plates designed to form different flow paths for exhaust air and fresh air are used. Exhaust air and fresh air meet to the heat recovery unit without mixing with each other, and heat transfer is conducted through the aluminium plates. Air handling unit, in which mixed air is not required, is commonly used energy saving systems providing high-efficiency and optimum cost in their designs. Standard plate models are manufactured from aluminium material and there are alternative solutions for inox and epoxy applications for different environments and for fluids with different contents. Efficiency of these units goes up to 70%.

Condensation water produced by warm air during the operation is thrown out. Since this condensation water carries the risk to freeze in winter time applications, and hence to harm the heat recovery unit, while choosing the heat recovery unit, frost risk is controlled and if any risk of frost is detected, by-pass or closing damper unit designs are preferred. In such products, the control of damper motor is done by frost thermostat, so that in case of any frost risk, fresh air is by-passed in order not to pass through plates.

In 100% fresh air units or (in case of need) in mixed air units, plate type heat recovery units can be used. Depending on the mixture ratio of fresh air, plate type heat recovery air handling units with different configurations can be designed. Design of the unit can be at different alternatives depending on internal and external weather conditions and application details of air handling unit.



Air Handling Unit

Air Handling Units with Rotary Type Heat Recovery Unit

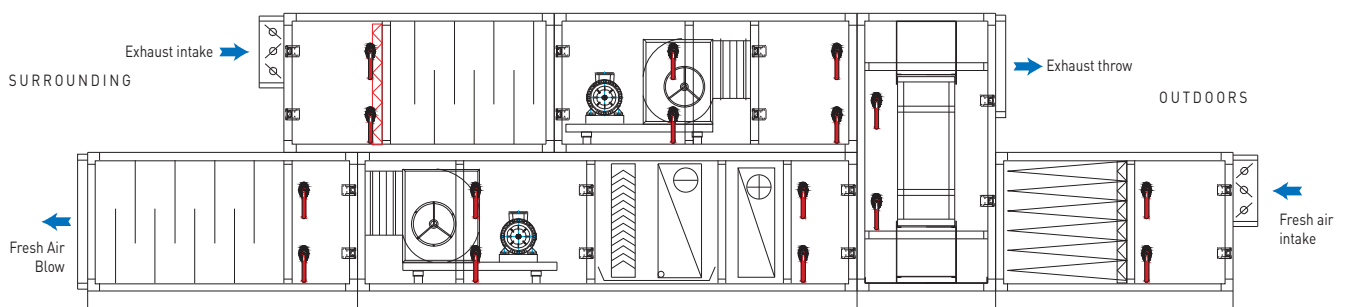
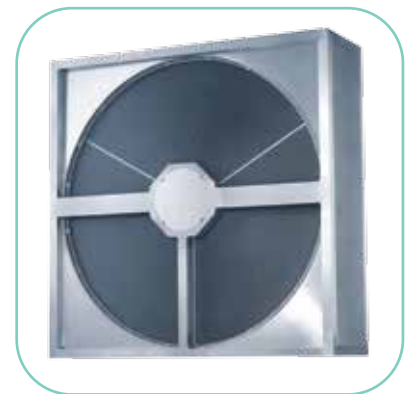
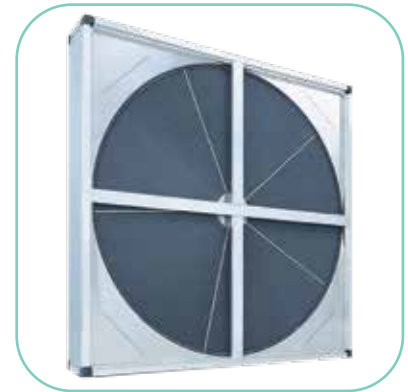
In principle, in rotary type air-to-air heat recovery systems, heat transfer is directly made from exhaust air to fresh air such that saving is achieved for indoor load value at heating and cooling conditions.

Heat recovery units known as rotary type, are formed by aluminium plates placed on top of each other, such that air stream in between is allowed when plates are overlapping. In such heat recovery units, efficiency values ranging from 50% to 85% can be achieved depending on operation conditions. Considering today's energy costs, usage of these rotary heat recovery units with higher energy saving capabilities are getting more common day by day. Moreover, since the frost risk in rotary type unit is much lower than plate type unit, in case of frequent operation in winter conditions, rotary heat recovery units are commonly used in air handling unit preferences.

Although it is possible to have up to 2-4% unintended mixture leakage because of mounting and application preferences, rotary type units are preferred in projects due to their high-efficiency. Furthermore, mixture leakage can be arranged such that its direction is towards exhaust air from fresh air, by custom construction design and measures to be taken.

While air handling units with rotary type heat recovery provide alternative to epoxy applications, they can also be produced in configurations with condensation or enthalpy rotor.

In 100% fresh air units or (in case of need) in mixed air units, rotary type heat recovery units can be used. Depending on the mixture ratio of fresh air, rotary type heat recovery air handling units with different configurations can be designed. Design of the unit can be at different alternatives depending on internal and external weather conditions and application details of air handling unit.



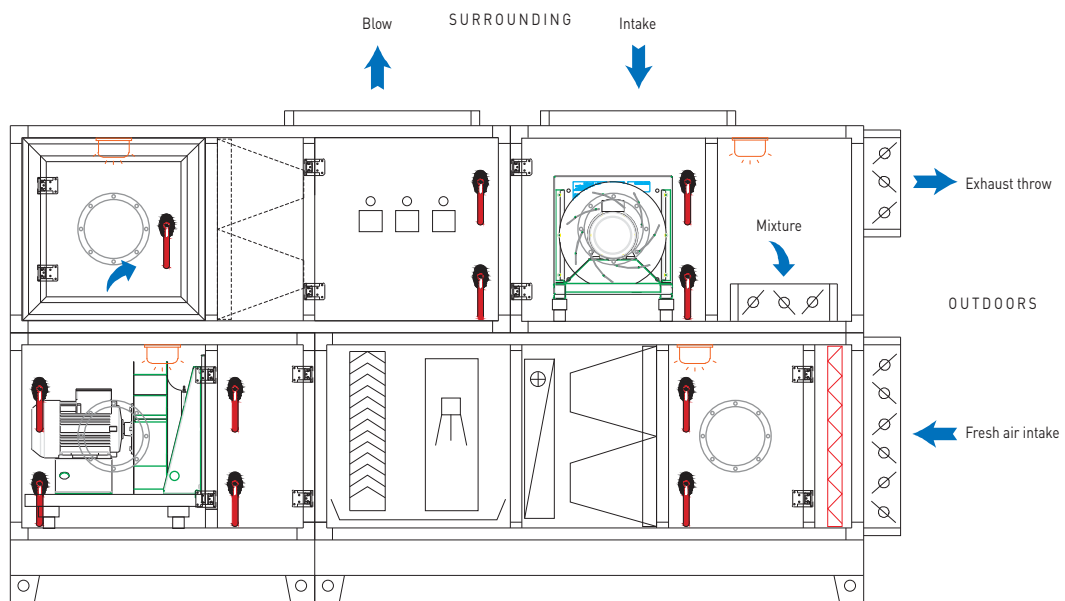
Hygienic Air Handling Units

Internal surfaces of hygienic air handling units are coated with stainless steel sheet. Before coating the internal surfaces, the unit is washed for purification; and during this process, an anti-bacterial silicone is applied to the bottom surface for water impermeability. Moreover, the base placed under the units is produced as high as needed for siphon applications.

In hygienic air handling units, coils are manufactured as epoxy coated and with copper collector. Coil case and sled systems are made from stainless steel sheet.

In order to prevent water accumulation at cell's connection areas, the units are connected with special connectors and then coated with stainless steel sheet such that a flat surface is obtained. In order to enable any kind of washing within the units and prevent any water accumulation and air leakage, special discharging system with siphon is employed in production by default. For visual inspection of the inside of air handling unit during operation, several monitoring windows and waterproof lightings are placed within the cells.

In order to meet the requirements from fans during process correctly, fans are chosen to be backward inclined with seldom wings and such that they can be easily disinfected. Plug fan applications are preferred more often since it enables air flow measurements and accurate setting.



Air Handling Unit

Package Hygienic Air Handling Units (PHS)

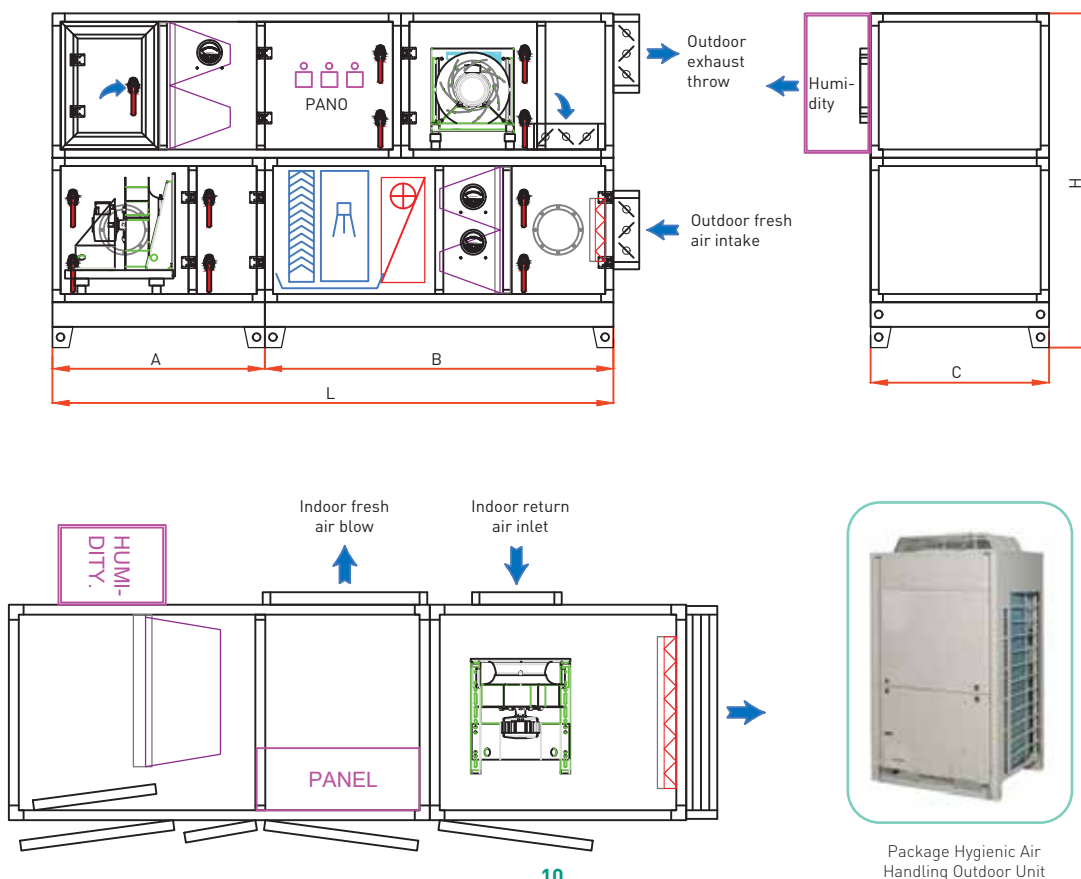
Internal surfaces of panels of hygienic package type air handling units are manufactured to be covered with stainless sheet. Antibacterial silicon is applied for ensuring impermeability of hygienic air handling units. Units bases are designed with minimum height of 220 mm to be adapted for siphon operation as base + leg for ensuring ease of application.

For hygienic air handling units, coils are manufactured as epoxy coated and with copper collector. Coil frame and guides are manufactured from stainless sheet.

In order to prevent water accumulation at cell junction points of the hygienic air handling units, the units are covered by stainless sheet after being connected via special junctions pieces, and a flat surface is obtained. Hygienic air handling units are manufactured with a flush drain to ensure that water accumulated inside when it's washed for cleaning all parts required to be cleaned is discharged and air leak from outside to inside is prevented. Sight glasses and air-tight lighting fixtures are installed to the cells for performance of visual inspection of air handling unit during operation.

In hygienic air handling units, fans are used with easily disinfected, backward curved blades for correctly meeting the need within the process. Plug fan applications are distinguished by performance of flow rate measurements and precise control.

| Models | Air Flow m ³ /h | Aspirator Motor Power kW | Ventilator Motor Power kW | Selected Heating Capacity kW | Selected Cooling Capacity kW | Dimensions | | | | |
|-------------|-------------------------------|--------------------------------|---------------------------------|------------------------------------|------------------------------------|------------|---------|---------|---------|---------|
| | | | | | | A mm | B mm | L mm | C mm | H mm |
| HYP-PHS-25 | 2500 | 1.1 | 3 | 37 | 21 | 1855 | 2020 | 3875 | 865 | 1950 |
| HYP-PHS-50 | 5000 | 2.2 | 5.5 | 59 | 42 | 1855 | 2020 | 3875 | 1030 | 2280 |
| HYP-PHS-75 | 7500 | 4 | 7.5 | 111 | 60 | 2020 | 2350 | 4370 | 1195 | 2610 |
| HYP-PHS-100 | 10000 | 5.5 | 11 | 131 | 80 | 3010 | 1855 | 4865 | 1360 | 2940 |

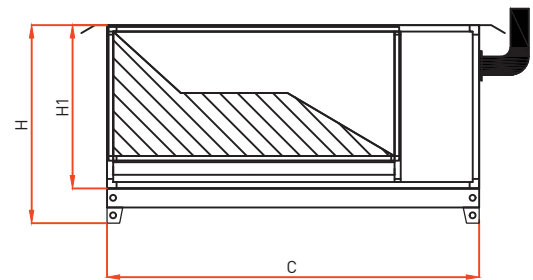
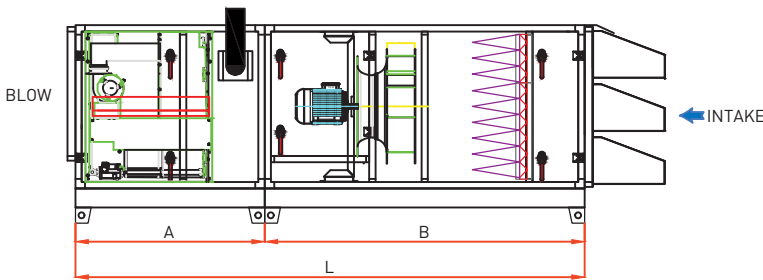


Air Handling Units Fuelled With Natural Gas (DGS)

In today's technology, heating function in air handling units started to be provided also with natural gas burner systems. Especially in applications where there aren't any hot water, vapour or DX sources or available source capacities aren't sufficient and the required capacity needs are met by natural gas burners built in air handling units.

Air handling units fuelled with natural gas are delivered as a package with automation substructure. Air handling units with natural gas burner are standard air handling units, and meet the heating need with natural gas burner systems, while being able to provide cooling or humidification functions depending on the needs in the application. Air handling units with natural gas burner are manufactured with components with certificates of conformity for required gas directives, and have the required certifications for acquiring project approval from gas distribution companies.

| Models | Gas Burner Rated Heating Capacity kW | Air Flow m ³ /h | Minimum Volume m ³ /h | Gas Burner Capacity Control | Gas | Gas Input Pressure mbar | A | B | L | C | H1 | LEG +BASE | H |
|---------------|--------------------------------------|----------------------------|----------------------------------|-----------------------------|-----|-------------------------|------|------|------|------|------|-----------|------|
| VKS-DGS - 18 | 18 | 2500 | 2270 | Proportional | G20 | 20 | 1690 | 1030 | 2720 | 1030 | 700 | 220 | 920 |
| VKS-DGS - 30 | 30 | 3500 | 3290 | Proportional | G20 | 20 | 1690 | 1030 | 2720 | 1195 | 700 | 220 | 920 |
| VKS-DGS - 50 | 51 | 4500 | 3900 | Proportional | G20 | 20 | 1690 | 1030 | 2720 | 1690 | 700 | 220 | 920 |
| VKS-DGS - 60 | 61 | 5500 | 4700 | Proportional | G20 | 20 | 1690 | 1030 | 2720 | 1525 | 865 | 220 | 1085 |
| VKS-DGS - 61 | 61 | 7500 | 7500 | Proportional | G20 | 20 | 1690 | 1030 | 2720 | 1855 | 1030 | 220 | 1250 |
| VKS-DGS - 75 | 75 | 7000 | 5700 | Proportional | G20 | 20 | 1195 | 1690 | 2885 | 1690 | 1030 | 220 | 1250 |
| VKS-DGS - 76 | 76 | 9300 | 9300 | Proportional | G20 | 20 | 865 | 2020 | 2885 | 2350 | 1030 | 220 | 1250 |
| VKS-DGS - 100 | 100 | 9000 | 7500 | Proportional | G20 | 20 | 1195 | 2020 | 3215 | 2350 | 1030 | 220 | 1250 |
| VKS-DGS - 101 | 100 | 14000 | 12400 | Proportional | G20 | 20 | 865 | 2020 | 2885 | 2350 | 1030 | 220 | 1250 |
| VKS-DGS - 120 | 122 | 11000 | 7500 | Proportional | G20 | 20 | 1690 | 1195 | 2885 | 1855 | 1030 | 220 | 1250 |
| VKS-DGS - 125 | 126 | 12000 | 9600 | Proportional | G20 | 20 | 1360 | 2020 | 3380 | 1690 | 1360 | 220 | 1580 |
| VKS-DGS - 150 | 151 | 15000 | 12300 | Proportional | G20 | 20 | 1360 | 2020 | 3380 | 1690 | 1690 | 220 | 1910 |
| VKS-DGS - 152 | 152 | 14000 | 9300 | Proportional | G20 | 20 | 1195 | 2020 | 3215 | 2350 | 1030 | 220 | 1250 |
| VKS-DGS - 175 | 175 | 18000 | 14100 | Proportional | G20 | 20 | 1360 | 2020 | 3380 | 1690 | 1855 | 220 | 2075 |
| VKS-DGS - 199 | 199 | 20000 | 16300 | Proportional | G20 | 20 | 1360 | 2020 | 3380 | 1690 | 2020 | 220 | 2240 |
| VKS-DGS - 200 | 200 | 20000 | 12400 | Proportional | G20 | 20 | 1195 | 2185 | 3380 | 2350 | 1195 | 220 | 1415 |
| VKS-DGS - 250 | 252 | 25000 | 15600 | Proportional | G20 | 20 | 1195 | 2020 | 3215 | 2350 | 1360 | 220 | 1580 |
| VKS-DGS - 300 | 300 | 30000 | 18200 | Proportional | G20 | 20 | 1195 | 2020 | 3215 | 2350 | 1690 | 220 | 1910 |



Air Handling Unit

Pool Dehumidification Air Handling Units

Pool dehumidification units provide optimal solution for air-conditioning control in indoor swimming pools, SPA and similar health and wellness areas.

Pool dehumidification units can be produced in different capacities such that they can serve a wide range of application areas from a small villa to an olympic swimming pool.

Pool dehumidification units are designed in order to solve the humidity problem in the targeted air-conditioning area with an energy-efficient way.

Pool dehumidification units are served with an automation system and direct expansion cooling circuit.

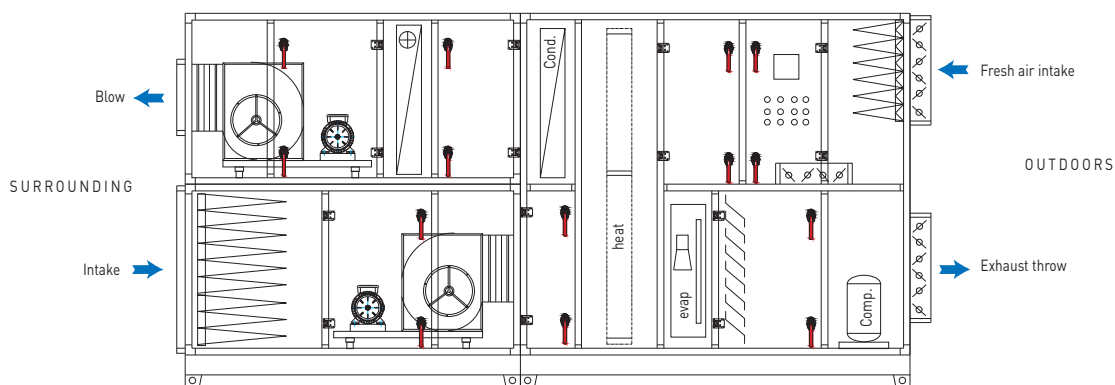
All cooling circuit and automation device parts are integrated to the air handling device such that humidifying and air-conditioning process work with in the unit.



| Models | Air Flow m³/h | External Static Pressure Pa | Dehumidification Capacity* kg/h | Mixed Dehumidification Capacity** kg/h | Heating Hydrous Coil Capacity kW | Refrigerant | Unit Dimensions | Heat Pipe |
|---------|---------------|-----------------------------|---------------------------------|----------------------------------------|----------------------------------|-------------|--------------------|-----------|
| VAP 15 | 1500 | 300 | 10 | 21 | 35 | R407C | 3380 x 865 x 1620 | R134A |
| VAP 25 | 2500 | 300 | 15 | 32 | 41 | R407C | 4000 x 1030 x 1400 | R134A |
| VAP 40 | 4000 | 300 | 23 | 45 | 63 | R407C | 4400 x 1200 x 1750 | R134A |
| VAP 45 | 4500 | 300 | 28 | 53 | 82 | R407C | 4400 x 1200 x 1750 | R134A |
| VAP 55 | 5500 | 300 | 33 | 59 | 102 | R407C | 4550 x 1400 x 2100 | R134A |
| VAP 85 | 8500 | 300 | 51 | 85 | 119 | R407C | 5000 x 1360 x 2500 | R134A |
| VAP 100 | 10000 | 300 | 60 | 102 | 158 | R407C | 5000 x 1525 x 2500 | R134A |
| VAP 125 | 12500 | 300 | 73 | 123 | 280 | R407C | 4865 x 2390 x 1690 | R134A |
| VAP 150 | 15500 | 300 | 90 | 152 | 280 | R407C | 5030 x 1855 x 2720 | R134A |
| VAP 200 | 20000 | 300 | 102 | 184 | 380 | R407C | 5690 x 2020 x 3050 | R134A |
| VAP 250 | 25000 | 300 | 118 | 214 | 380 | R407C | 5400 x 2350 x 3050 | R134A |
| VAP 300 | 30000 | 300 | 148 | 266 | 480 | R407C | 4905 x 2370 x 3540 | R134A |

* Heat-Pipe efficiency is not included in humidity content detected in indoor air circulation on 30°C 50-55% Rh conditions. Outdoor air is not included (Winder and Night mode)

** 30% fresh air mixture in +5°C outdoor temperature and Heat-Pipe included dehumidification capacity.



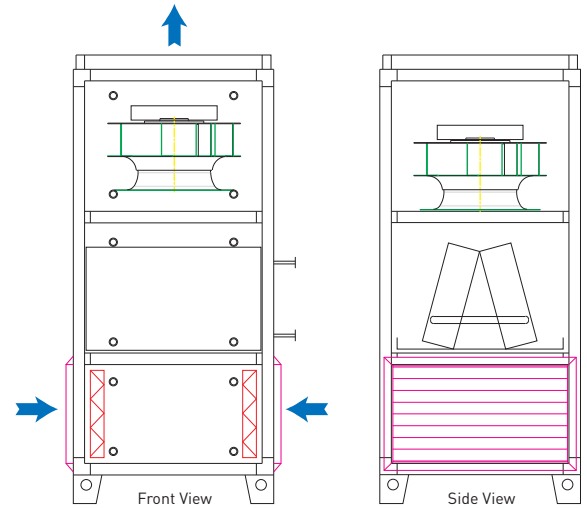
Duct Type Air Handling Units (Vertical or Horizontal Type)

Duct type air handling units are designed in order to correspond the requirement of heating, cooling, air conditioning in small-to-mid size building sections with ergo dynamic sized units in special architectural applications.

Depending on the architectural design of building, it can be employed within suspended ceiling as horizontal type or within cabinets as vertical type.

Duct type air handling units are served in 5 main unit sizes providing an air flow within the range of 1500 m³/h to 7000 m³/h.

Duct type air handling units are manufactured with plug fans with backward curved blades. Optional package automation system for duct type air handling units can be provided upon request. Since duct type air handling units are commonly mounted very close to daily living environments, the sound levels are intentionally designed to be very low.



Air Handling Unit

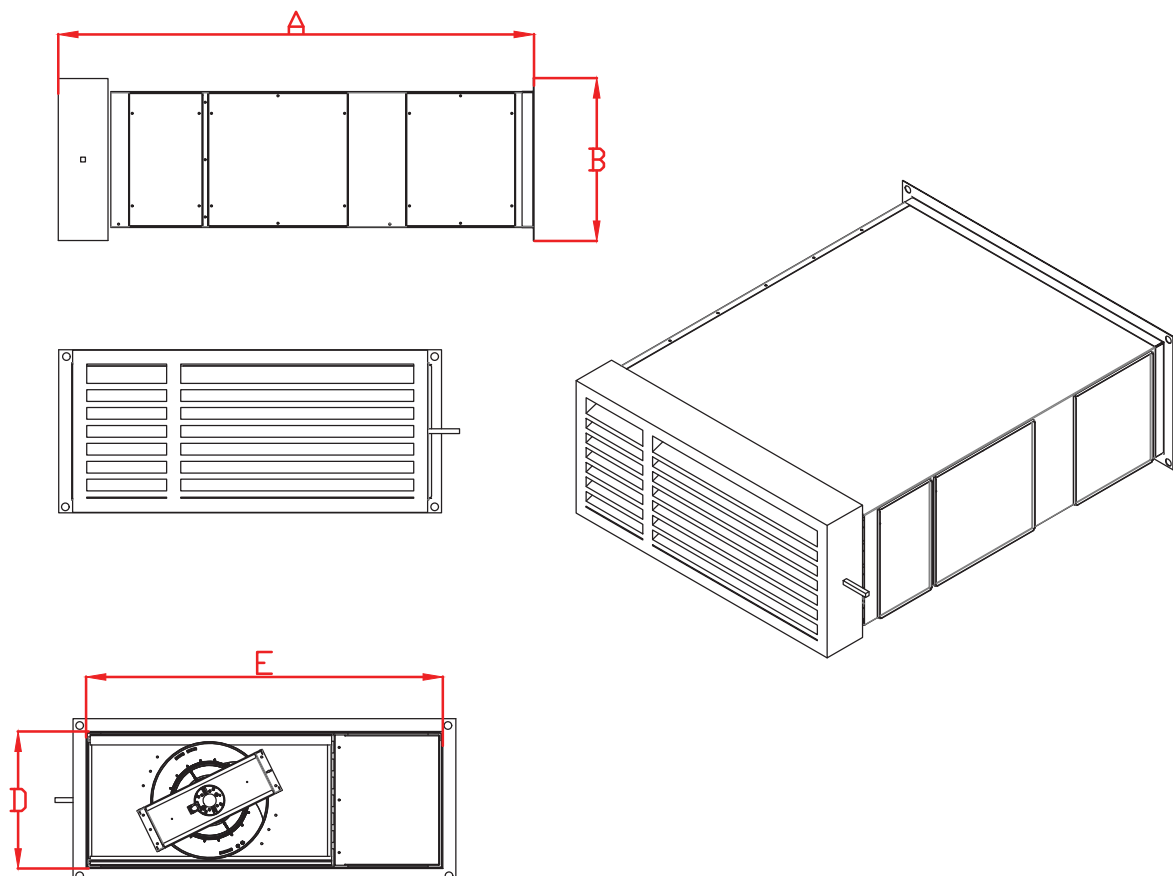
VKS Shelter-Ventilating Units (SKS)

Ventas Shelter ventilating compact handling units are produced in eight models between 300 and 4000 m³/h capacities. Since they have a more compact structure compared to standard handling units cell structures, connection to air channel on the ceiling is possible. It has all qualities that a cellular type shelter ventilation unit has.

Shelter ventilating unit principally works in two different ways. Normally, fresh air is sent to the shelter through a G-4 panel filter. During war time, fresh air passes through an active carbon filter and a hepa filter that can absorb nuclear, biological and chemical gasses.

For capacities over 4000 m³/h, shelter ventilation units are produced with standard air handling unit modelling.

| Models | Air Flow m ³ /h | External Pressure Pa | Total Installed Power W | Supply | A mm | B mm | C mm | D mm | E mm |
|---------|----------------------------|----------------------|-------------------------|--------|------|------|------|------|------|
| SKS300 | 300 | 215 | 155 | 220 V | 1135 | 398 | 516 | 338 | 456 |
| SKS500 | 500 | 195 | 210 | 220 V | 1135 | 398 | 516 | 338 | 456 |
| SKS800 | 800 | 235 | 225 | 220 V | 1135 | 398 | 945 | 338 | 885 |
| SKS1200 | 1200 | 273 | 515 | 220 V | 1135 | 398 | 945 | 338 | 885 |
| SKS1500 | 1500 | 148 | 515 | 220 V | 1135 | 398 | 945 | 338 | 885 |
| SKS2000 | 2000 | 215 | 1030 | 220 V | 1335 | 398 | 1133 | 338 | 1073 |
| SKS3000 | 3000 | 85 | 1030 | 220 V | 1335 | 550 | 1133 | 490 | 1073 |
| SKS4000 | 4000 | 45 | 1100 | 220 V | 1635 | 704 | 1510 | 644 | 1450 |





Ventas Isıtma, Soğutma, Enerji Sistemleri, İnşaat San. ve Tic. A.Ş.

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Fan Coil Units- District Cooling

Concealed Ceiling Type - 4 Row Cooling Coil

Concealed Floor Standing Type - 4 Row Cooling Coil

Floor Standing with Cabinet Type - 4 Row Cooling Coil

High Static Pressure Concealed Ceiling Type - 4 Row Cooling Coil



VENTAS Isıtma, Soğutma, Enerji Sistemleri, İnşaat Sanayi ve Ticaret Anonim Şirketi; has been established in 2011 for production, consulting, project preparation and equipment supply in heating, cooling, air-conditioning and energy efficiency areas. VENTAS, which is established on top of twenty years of know-how and experience of its founders in the aforementioned sectors, is serving at its İstanbul Catalca production centres.

The product portfolio of HVAC market's new brand VENTAS includes, hygienic air handling units, comfort air handling units, high-efficiency heat-recovery ventilation units, fan coil units, cellular aspirators, cellular ventilators, channel type fans, roof type fans, fire smoke removal fans, ground type convectors, roof top package air conditioning systems (water cooled, air cooled, gas-fired, heat recovery etc.) units.

ISO 9001, CE, TSEK, EAC and EN 1886 certificates and benefiting all advantages of modern high technology, in VENTAS production centres, high quality and durable products are manufactured by a dynamic and experienced expert team with a meticulous and neat workmanship, and a solution oriented approach.

VENTAS brand's main principles are to serve its customers as a high quality solution partner and to provide excellent service with a dynamic structure both in pre-sales and after-sales.

Having reached a fast and continuous growth track since it has been established, VENTAS has managed to become a well-known company in heating, cooling, air-conditioning and energy efficiency sectors throughout the country. Moreover, the Turkish brand VENTAS has penetrated its excellent and high quality products into international markets in a very short time frame, and offered a complete product supply chain to these markets through its wide dealer and service structure.

Paying the utmost attention in its products to energy efficiency, endurance, reliability, sustainable technology and competitive price policy, VENTAS offers to be the corporate solution partner of all investors and mechanical construction companies in Turkey and all over the world, and shares its dynamic vision, renewed and developed continuously, with all its customers.



Technical Specifications

The most important reasons to prefer VENTAS Medium Static Pressure Concealed Ceiling / Concealed Floor Standing / Concealed Floor Standing with Cabinet and High Static Pressure Concealed Ceiling type fan coils, are that they provide; energy economy with high efficiency, silence with their special design, easy implementation with ergonomic size and structural features, long life time with much less requirement for maintenance. Today the scope of applications of fan coil units include public places such as hotels, offices, hospitals, business centres, governmental buildings, residential suits and shopping centres. VENTAS takes place in Turkey at most of the prestigious projects with its products and services in quality.

High Efficiency Exchanger

- Provides highly efficient and low operating cost resulting solutions with its special exchanger structure.

Silent and Efficient Fan Motor

- Fan with balance adjustment and motor with high efficiency
- Low vibration
- Low sound level thanks to its special insulation at the internal surface
- Low operating costs

Filter

- Provided in standard at all types.
- Ability to remove from the bottom and sides.

Piping Connection

- Coil collector is placed in a custom sheet shelter. Hence, counter connection can be done easily.

Drain Pipe

- A custom pipe is placed intentionally for interconnection between the drain pipe and fan coil.

Purger

- A purger key, which can be accessed and opened easily, is used to throw the air produced in coil out.

Electrical Connection

- In order to prevent any possible electric leakage, electrical connections are placed within a special designed box. All cables are carried through a flexible steel pipe.

Insulated Drain Tray

- One-piece production from galvanized sheet without any weld
- Wide tray enabling not only drain from the coil, but also from valves and pipes
- Special designed slope to provide water flow easily and to prevent microbial growth
- Installation and removal can be done easily
- Covered with kiln dyed powder coat against microbial growth and corrosion
- Closed and dense insulation against condensation outside the tray
- Thanks to specially insulated "L" tray structure, concealed floor standing type units can be used as concealed ceiling type unit.

Fan Coil

VFC-GT Medium Static Pressure Concealed Ceiling Type Fan Coil 4 Row Cooling Coil for District Cooling



2-Pipes

4-Pipes



- Silent and efficient 3-speed fan motor
- External panel made of galvanized steel with internal thermal and sound insulation
- Self-insulated, enamelled covered condensation tray
- Electrical connections protected through a flexible steel pipe
- High efficiency special exchanger
- Easily removable filter (standard)
- Ability to operate up to 80 Pa external pressure

| VFC GT / GD / KD | | | Water Inlet/Outlet Temperature : 42 / 52 °F (dT = 10 °F) | | | | | | | | | |
|--------------------------------|--------|---------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 302 | 352 | 402 | 602 | 802 | 1002 | 1202 | 1402 |
| Total Cooling Capacity | Low | TR | 0,32 | 0,44 | 0,57 | 0,73 | 0,57 | 1,48 | 1,24 | 2,07 | 1,67 | 2,80 |
| | Medium | | 0,44 | 0,68 | 0,89 | 1,07 | 1,33 | 1,76 | 1,94 | 2,47 | 2,61 | 3,34 |
| | High | | 0,68 | 0,80 | 0,97 | 1,25 | 1,60 | 1,90 | 2,31 | 2,66 | 3,14 | 3,61 |
| Sensible Cooling Capacity | Low | TR | 0,21 | 0,29 | 0,51 | 0,49 | 0,57 | 1,00 | 0,84 | 1,43 | 1,13 | 1,93 |
| | Medium | | 0,29 | 0,46 | 0,61 | 0,73 | 0,92 | 1,21 | 1,35 | 1,73 | 1,81 | 2,34 |
| | High | | 0,46 | 0,55 | 0,67 | 0,86 | 1,12 | 1,31 | 1,63 | 1,87 | 2,21 | 2,54 |
| Air Flow | Low | CFM | 82 | 118 | 218 | 200 | 241 | 436 | 359 | 653 | 481 | 871 |
| | Medium | | 118 | 202 | 274 | 318 | 420 | 547 | 623 | 821 | 840 | 1095 |
| | High | | 202 | 247 | 303 | 388 | 537 | 606 | 783 | 909 | 1074 | 1212 |
| External Static Pressure | | Pa | 30 | | | | | | | | | |
| Air Inlet Temperature (DB/WB) | | °F | 74 / 63 | | | | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 45,2 / 45,2 | 46,3 / 46,2 | 48,1 / 47,9 | 46,7 / 46,6 | 47,3 / 47,2 | 48,3 / 48 | 47,7 / 47,6 | 49,4 / 49,1 | 47,7 / 47,6 | 49,1 / 48,9 |
| | Medium | | 46,3 / 46,2 | 48,3 / 48 | 48,9 / 48,7 | 48,4 / 48,1 | 49,6 / 49,1 | 49,3 / 48,9 | 49,8 / 49,4 | 50,5 / 49,9 | 49,8 / 49,5 | 50,1 / 49,7 |
| | High | | 48,3 / 48 | 49,2 / 48,2 | 49,3 / 49 | 49,2 / 48,9 | 50,7 / 50,1 | 49,8 / 49,3 | 50,8 / 50,2 | 50,9 / 50,3 | 51 / 50,4 | 50,6 / 50,1 |
| Water Inlet/Outlet Temperature | | °F | 42 / 52 (dT = 10 °F) | | | | | | | | | |
| Water Flow Rate | Low | GPM | 0,77 | 1,05 | 1,77 | 1,75 | 2,04 | 3,53 | 2,97 | 4,95 | 3,99 | 6,7 |
| | Medium | | 1,05 | 1,64 | 2,13 | 2,56 | 3,18 | 4,21 | 4,64 | 5,9 | 6,23 | 7,99 |
| | High | | 1,64 | 1,91 | 2,31 | 2,99 | 3,82 | 4,55 | 5,22 | 6,37 | 7,5 | 8,63 |
| Coil Connection | | Inch | 3/4" | | | | | | | | | |
| Number of Row | | | 4 | | | | | | | | | |
| Sound Pressure Level | | dB(A) | 36/33/30 | 39/36/33 | 42/40/36 | 40/36/33 | 41/38/34 | 43/40/38 | 42/38/35 | 44/41/38 | 46/43/40 | 52/48/44 |
| Power Supply | | V/ph/Hz | 220-240-1/50 | | | | | | | | | |
| Consumed Power | | W | 60 | 66 | 70 | 75 | 122 | 140 | 188 | 210 | 224 | 280 |
| Consumed Current | | A | 0,27 | 0,30 | 0,31 | 0,33 | 0,55 | 0,62 | 0,85 | 0,93 | 1,1 | 1,24 |

• Cooling capacity rating is based on 42/52 °F water regime at medium speed with 74°F DB / 63 °F WB indoor temperature

VFC-GT Medium Static Pressure Concealed Ceiling Type Fan Coil 4 Row Cooling Coil for District Cooling

| VFC GT / GD / KD | | | Water Inlet/Outlet Temperature : 42 / 54 °F (dT = 12 °F) | | | | | | | | | |
|--------------------------------|---------|----------------------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 302 | 352 | 402 | 602 | 802 | 1002 | 1202 | 1402 |
| Total Cooling Capacity | Low | TR | 0,31 | 0,42 | 0,69 | 0,69 | 0,80 | 1,39 | 1,15 | 1,92 | 1,55 | 2,60 |
| | Medium | | 0,42 | 0,64 | 0,83 | 1,00 | 1,24 | 1,65 | 1,79 | 2,28 | 2,41 | 3,06 |
| | High | | 0,64 | 0,75 | 0,89 | 1,17 | 1,49 | 1,78 | 2,13 | 2,46 | 2,90 | 3,34 |
| Sensible Cooling Capacity | Low | TR | 0,20 | 0,28 | 0,48 | 0,47 | 0,55 | 0,96 | 0,80 | 1,37 | 1,08 | 1,84 |
| | Medium | | 0,28 | 0,45 | 0,58 | 0,70 | 0,88 | 1,16 | 1,28 | 1,65 | 1,73 | 2,22 |
| | High | | 0,45 | 0,53 | 0,64 | 0,83 | 1,07 | 1,26 | 1,55 | 1,79 | 2,10 | 2,41 |
| Air Flow | Low | CFM | 82 | 118 | 218 | 200 | 241 | 436 | 359 | 653 | 481 | 871 |
| | Medium | | 118 | 202 | 274 | 318 | 420 | 547 | 623 | 821 | 840 | 1095 |
| | High | | 202 | 247 | 303 | 388 | 537 | 606 | 783 | 909 | 1074 | 1212 |
| External Static Pressure | Pa | 30 | | | | | | | | | | |
| Air Inlet Temperature (DB/WB) | °F | 74 / 63 | | | | | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 46,3 / 46,3 | 47,3 / 47,2 | 49,3 / 49,2 | 47,8 / 47,8 | 48,5 / 48,3 | 49,3 / 49 | 49 / 48,9 | 50,6 / 50,2 | 49 / 48,9 | 50,4 / 50,4 |
| | Medium | | 47,3 / 47,2 | 49,2 / 49 | 50,1 / 49,9 | 49,5 / 49,2 | 50,7 / 50,2 | 50,3 / 49,9 | 51 / 50,6 | 51,6 / 51 | 51 / 50,6 | 51,3 / 50,8 |
| | High | | 49,3 / 49 | 50,2 / 49,8 | 50,5 / 50,2 | 50,3 / 49,9 | 51,8 / 51,1 | 50,8 / 50,2 | 51,9 / 51,3 | 52 / 51,4 | 52,1 / 51,4 | 51,7 / 51,2 |
| Water Inlet/Outlet Temperature | °F | 42 / 54 (dT = 12 °F) | | | | | | | | | | |
| Water Flow Rate | Low | GPM | 0,61 | 0,83 | 1,37 | 1,37 | 1,6 | 2,77 | 2,29 | 3,83 | 3,08 | 5,17 |
| | Medium | | 0,83 | 1,28 | 1,65 | 1,99 | 2,47 | 3,29 | 3,57 | 4,55 | 4,8 | 6,16 |
| | High | | 1,28 | 1,5 | 1,78 | 2,32 | 2,96 | 3,55 | 4,24 | 4,91 | 5,77 | 6,65 |
| Coil Connection | Inch | 3/4" | | | | | | | | | | |
| Number of Row | | 4 | | | | | | | | | | |
| Sound Pressure Level | dB[A] | 36/33/30 | 39/36/33 | 42/40/36 | 40/36/33 | 41/38/34 | 43/40/38 | 42/38/35 | 44/41/38 | 46/43/40 | 52/48/44 | |
| Power Supply | V/ph/Hz | 220-240-1/50 | | | | | | | | | | |
| Coil Connection | Inch | 60 | 66 | 70 | 75 | 122 | 140 | 188 | 210 | 224 | 280 | |
| Coil Connection | Inch | 0,27 | 0,30 | 0,31 | 0,33 | 0,55 | 0,62 | 0,85 | 0,93 | 1,1 | 1,24 | |

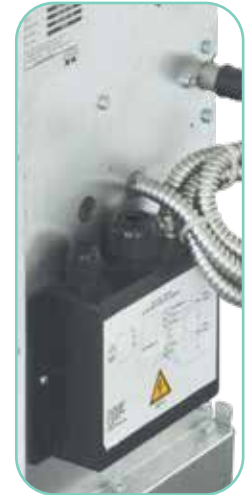
• Cooling capacity rating is based on 42/54°F water regime at medium speed with 74°F DB / 63 °F WB indoor temperature

| VFC GT / GD / KD | | | Water Inlet/Outlet Temperature : 42 / 58 °F (dT = 16 °F) | | | | | | | | | |
|--------------------------------|---------|----------------------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 302 | 352 | 402 | 602 | 802 | 1002 | 1202 | 1402 |
| Total Cooling Capacity | Low | TR | 0,26 | 0,36 | 0,56 | 0,57 | 0,68 | 1,20 | 0,89 | 1,59 | 1,23 | 2,13 |
| | Medium | | 0,36 | 0,56 | 0,68 | 0,85 | 1,05 | 1,42 | 1,47 | 1,90 | 1,99 | 2,56 |
| | High | | 0,56 | 0,65 | 0,74 | 0,99 | 1,26 | 1,54 | 1,75 | 2,05 | 2,39 | 2,76 |
| Sensible Cooling Capacity | Low | TR | 0,18 | 0,26 | 0,42 | 0,42 | 0,49 | 0,88 | 0,69 | 1,22 | 0,93 | 1,63 |
| | Medium | | 0,26 | 0,41 | 0,52 | 0,63 | 0,79 | 1,05 | 1,14 | 1,47 | 1,54 | 1,98 |
| | High | | 0,41 | 0,48 | 0,57 | 0,74 | 0,96 | 1,14 | 1,38 | 1,60 | 1,88 | 2,16 |
| Air Flow | Low | CFM | 82 | 118 | 218 | 200 | 241 | 436 | 359 | 653 | 481 | 871 |
| | Medium | | 118 | 202 | 274 | 318 | 420 | 547 | 623 | 821 | 840 | 1095 |
| | High | | 202 | 247 | 303 | 388 | 537 | 606 | 783 | 909 | 1074 | 1212 |
| External Static Pressure | Pa | 30 | | | | | | | | | | |
| Air Inlet Temperature (DB/WB) | °F | 74 / 63 | | | | | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 49 / 49 | 49,8 / 49,7 | 52,3 / 52,1 | 50,7 / 50,6 | 51,1 / 50,9 | 51,5 / 51,2 | 52,6 / 52,5 | 53,1 / 52,6 | 52,3 / 52,1 | 53 / 52,6 |
| | Medium | | 49,8 / 49,7 | 51,6 / 51,2 | 52,8 / 52,5 | 51,9 / 51,6 | 52,9 / 52,4 | 52,5 / 51,9 | 53,6 / 53,1 | 53,9 / 53,2 | 53,5 / 53 | 53,8 / 53,1 |
| | High | | 51,6 / 51,2 | 52,4 / 51,8 | 53,1 / 52,7 | 52,6 / 52,1 | 53,9 / 53,1 | 52,9 / 52,2 | 54,3 / 53,6 | 54,3 / 53,5 | 54,4 / 53,6 | 54,1 / 53,4 |
| Water Inlet/Outlet Temperature | °F | 42 / 58 (dT = 16 °F) | | | | | | | | | | |
| Water Flow Rate | Low | GPM | 0,39 | 0,54 | 0,83 | 0,86 | 1,01 | 1,8 | 1,33 | 2,38 | 1,84 | 3,19 |
| | Medium | | 0,54 | 0,83 | 1,02 | 1,27 | 1,57 | 2,13 | 2,19 | 2,84 | 2,97 | 3,85 |
| | High | | 0,83 | 0,97 | 1,1 | 1,48 | 1,88 | 2,3 | 2,61 | 3,06 | 3,58 | 4,13 |
| Coil Connection | Inch | 3/4" | | | | | | | | | | |
| Number of Row | | 4 | | | | | | | | | | |
| Sound Pressure Level | dB | 36/33/30 | 39/36/33 | 42/40/36 | 40/36/33 | 41/38/34 | 43/40/38 | 42/38/35 | 44/41/38 | 46/43/40 | 52/48/44 | |
| Power Supply | V/ph/Hz | 220-240-1/50 | | | | | | | | | | |
| Consumed Power | W | 60 | 66 | 70 | 75 | 122 | 140 | 188 | 210 | 224 | 280 | |
| Consumed Current | A | 0,27 | 0,30 | 0,31 | 0,33 | 0,55 | 0,62 | 0,85 | 0,93 | 1,1 | 1,24 | |

• Cooling capacity rating is based on 42/58 °F water regime at medium speed with 74°F DB / 63 °F WB indoor temperature

Fan Coil

VFC-GD Medium Static Pressure Concealed Floor Standing Type Fan Coil 4 Row Cooling Coil for District Cooling



- Silent and efficient 3-speed fan motor
- External panel made of galvanized steel with internal thermal and sound insulation
- Availability for both horizontal and vertical installation thanks to self-insulated L-type condensation tray
- Electrical connections protected through a flexible steel pipe
- High efficiency special exchanger
- Easily removable filter (standard)
- Ability to operate up to 80 Pa external pressure

| VFC GD Concealed Floor Standing Type Fan Coil | | | Water Inlet/Outlet Temperature : 42 / 52 °F (dT = 10 °F) | | | | | | | | | |
|--------------------------------------------------|--------|---------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 302 | 352 | 402 | 602 | 802 | 1002 | 1202 | 1402 |
| Total Cooling Capacity | Low | TR | 0,32 | 0,44 | 0,57 | 0,73 | 0,57 | 1,48 | 1,24 | 2,07 | 1,67 | 2,80 |
| | Medium | | 0,44 | 0,68 | 0,89 | 1,07 | 1,33 | 1,76 | 1,94 | 2,47 | 2,61 | 3,34 |
| | High | | 0,68 | 0,80 | 0,97 | 1,25 | 1,60 | 1,90 | 2,31 | 2,66 | 3,14 | 3,61 |
| Sensible Cooling Capacity | Low | TR | 0,21 | 0,29 | 0,51 | 0,49 | 0,57 | 1,00 | 0,84 | 1,43 | 1,13 | 1,93 |
| | Medium | | 0,29 | 0,46 | 0,61 | 0,73 | 0,92 | 1,21 | 1,35 | 1,73 | 1,81 | 2,34 |
| | High | | 0,46 | 0,55 | 0,67 | 0,86 | 1,12 | 1,31 | 1,63 | 1,87 | 2,21 | 2,54 |
| Air Flow | Low | CFM | 82 | 118 | 218 | 200 | 241 | 436 | 359 | 653 | 481 | 871 |
| | Medium | | 118 | 202 | 274 | 318 | 420 | 547 | 623 | 821 | 840 | 1095 |
| | High | | 202 | 247 | 303 | 388 | 537 | 606 | 783 | 909 | 1074 | 1212 |
| External Static Pressure | | Pa | 30 | | | | | | | | | |
| Air Inlet Temperature (DB/WB) | | °F | 74 / 63 | | | | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 45,2 / 45,2 | 46,3 / 46,2 | 48,1 / 47,9 | 46,7 / 46,6 | 47,3 / 47,2 | 48,3 / 48 | 47,7 / 47,6 | 49,4 / 49,1 | 47,7 / 47,6 | 49,1 / 48,9 |
| | Medium | | 46,3 / 46,2 | 48,3 / 48 | 48,9 / 48,7 | 48,4 / 48,1 | 49,6 / 49,1 | 49,3 / 48,9 | 49,8 / 49,4 | 50,5 / 49,9 | 49,8 / 49,5 | 50,1 / 49,7 |
| | High | | 48,3 / 48 | 49,2 / 48,2 | 49,3 / 49 | 49,2 / 48,9 | 50,7 / 50,1 | 49,8 / 49,3 | 50,8 / 50,2 | 50,9 / 50,3 | 51 / 50,4 | 50,6 / 50,1 |
| Water Inlet/Outlet Temperature | | °F | 42 / 52 (dT = 10 °F) | | | | | | | | | |
| Water Flow Rate | Low | GPM | 0,77 | 1,05 | 1,77 | 1,75 | 2,04 | 3,53 | 2,97 | 4,95 | 3,99 | 6,7 |
| | Medium | | 1,05 | 1,64 | 2,13 | 2,56 | 3,18 | 4,21 | 4,64 | 5,9 | 6,23 | 7,99 |
| | High | | 1,64 | 1,91 | 2,31 | 2,99 | 3,82 | 4,55 | 5,22 | 6,37 | 7,5 | 8,63 |
| Coil Connection | | Inch | 3/4" | | | | | | | | | |
| Number of Row | | | 4 | | | | | | | | | |
| Sound Pressure Level | | dB | 35/33/31 | 38/35/33 | 41/39/36 | 40/36/33 | 40/37/34 | 42/39/35 | 41/38/34 | 42/40/37 | 44/41/38 | 51/47/41 |
| Power Supply | | V/ph/Hz | 220-240-1/50 | | | | | | | | | |
| Consumed Power | | W | 60 | 66 | 70 | 75 | 122 | 140 | 188 | 210 | 224 | 280 |
| Consumed Current | | A | 0,27 | 0,30 | 0,31 | 0,33 | 0,55 | 0,62 | 0,85 | 0,93 | 1,1 | 1,24 |

• Cooling capacity rating is based on 42/52 °F water regime at medium speed with 74°F DB / 63 °F WB indoor temperature

VFC-GD Medium Static Pressure Concealed Floor Standing Type Fan Coil 4 Row Cooling Coil for District Cooling

| VFC GD Concealed Floor Standing Type Fan Coil | | | Water Inlet/Outlet Temperature : 42 / 54 °F (dT = 12 °F) | | | | | | | | | |
|--------------------------------------------------|---------|----------------------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 302 | 352 | 402 | 602 | 802 | 1002 | 1202 | 1402 |
| Total Cooling Capacity | Low | TR | 0,31 | 0,42 | 0,69 | 0,69 | 0,80 | 1,39 | 1,15 | 1,92 | 1,55 | 2,60 |
| | Medium | | 0,42 | 0,64 | 0,83 | 1,00 | 1,24 | 1,65 | 1,79 | 2,28 | 2,41 | 3,06 |
| | High | | 0,64 | 0,75 | 0,89 | 1,17 | 1,49 | 1,78 | 2,13 | 2,46 | 2,90 | 3,34 |
| Sensible Cooling Capacity | Low | TR | 0,20 | 0,28 | 0,48 | 0,47 | 0,55 | 0,96 | 0,80 | 1,37 | 1,08 | 1,84 |
| | Medium | | 0,28 | 0,45 | 0,58 | 0,70 | 0,88 | 1,16 | 1,28 | 1,65 | 1,73 | 2,22 |
| | High | | 0,45 | 0,53 | 0,64 | 0,83 | 1,07 | 1,26 | 1,55 | 1,79 | 2,10 | 2,41 |
| Air Flow | Low | CFM | 82 | 118 | 218 | 200 | 241 | 436 | 359 | 653 | 481 | 871 |
| | Medium | | 118 | 202 | 274 | 318 | 420 | 547 | 623 | 821 | 840 | 1095 |
| | High | | 202 | 247 | 303 | 388 | 537 | 606 | 783 | 909 | 1074 | 1212 |
| External Static Pressure | Pa | 30 | | | | | | | | | | |
| Air Inlet Temperature (DB/WB) | °F | 74 / 63 | | | | | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 46,3 / 46,3 | 47,3 / 47,2 | 49,3 / 49,2 | 47,8 / 47,8 | 48,5 / 48,3 | 49,3 / 49 | 49 / 48,9 | 50,6 / 50,2 | 49 / 48,9 | 50,4 / 50,4 |
| | Medium | | 47,3 / 47,2 | 49,2 / 49 | 50,1 / 49,9 | 49,5 / 49,2 | 50,7 / 50,2 | 50,3 / 49,9 | 51 / 50,6 | 51,6 / 51 | 51 / 50,6 | 51,3 / 50,8 |
| | High | | 49,3 / 49 | 50,2 / 49,8 | 50,5 / 50,2 | 50,3 / 49,9 | 51,8 / 51,1 | 50,8 / 50,2 | 51,9 / 51,3 | 52 / 51,4 | 52,1 / 51,4 | 51,7 / 51,2 |
| Water Inlet/Outlet Temperature | °F | 42 / 54 (dT = 12 °F) | | | | | | | | | | |
| Water Flow Rate | Low | GPM | 0,61 | 0,83 | 1,37 | 1,37 | 1,6 | 2,77 | 2,29 | 3,83 | 3,08 | 5,17 |
| | Medium | | 0,83 | 1,28 | 1,65 | 1,99 | 2,47 | 3,29 | 3,57 | 4,55 | 4,8 | 6,16 |
| | High | | 1,28 | 1,5 | 1,78 | 2,32 | 2,96 | 3,55 | 4,24 | 4,91 | 5,77 | 6,65 |
| Coil Connection | Inch | 3/4" | | | | | | | | | | |
| Number of Row | | 4 | | | | | | | | | | |
| Sound Pressure Level | dB | 35/33/31 | 38/35/33 | 41/39/36 | 40/36/33 | 40/37/34 | 42/39/35 | 41/38/34 | 42/40/37 | 44/41/38 | 51/47/41 | |
| Power Supply | V/ph/Hz | 220-240~1/50 | | | | | | | | | | |
| Consumed Power | W | 60 | 66 | 70 | 75 | 122 | 140 | 188 | 210 | 224 | 280 | |
| Consumed Current | A | 0,27 | 0,30 | 0,31 | 0,33 | 0,55 | 0,62 | 0,85 | 0,93 | 1,1 | 1,24 | |

- Cooling capacity rating is based on 42/54 °F water regime at medium speed with 74°F DB / 63 °F WB indoor temperature

| VFC GD Concealed Floor Standing Type Fan Coil | | | Water Inlet/Outlet Temperature : 42 / 58 °F (dT = 16 °F) | | | | | | | | | |
|--------------------------------------------------|---------|----------------------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 302 | 352 | 402 | 602 | 802 | 1002 | 1202 | 1402 |
| Total Cooling Capacity | Low | TR | 0,26 | 0,36 | 0,56 | 0,57 | 0,68 | 1,20 | 0,89 | 1,59 | 1,23 | 2,13 |
| | Medium | | 0,36 | 0,56 | 0,68 | 0,85 | 1,05 | 1,42 | 1,47 | 1,90 | 1,99 | 2,56 |
| | High | | 0,56 | 0,65 | 0,74 | 0,99 | 1,26 | 1,54 | 1,75 | 2,05 | 2,39 | 2,76 |
| Sensible Cooling Capacity | Low | TR | 0,18 | 0,26 | 0,42 | 0,42 | 0,49 | 0,88 | 0,69 | 1,22 | 0,93 | 1,63 |
| | Medium | | 0,26 | 0,41 | 0,52 | 0,63 | 0,79 | 1,05 | 1,14 | 1,47 | 1,54 | 1,98 |
| | High | | 0,41 | 0,48 | 0,57 | 0,74 | 0,96 | 1,14 | 1,38 | 1,60 | 1,88 | 2,16 |
| Air Flow | Low | CFM | 82 | 118 | 218 | 200 | 241 | 436 | 359 | 653 | 481 | 871 |
| | Medium | | 118 | 202 | 274 | 318 | 420 | 547 | 623 | 821 | 840 | 1095 |
| | High | | 202 | 247 | 303 | 388 | 537 | 606 | 783 | 909 | 1074 | 1212 |
| External Static Pressure | Pa | 30 | | | | | | | | | | |
| Air Inlet Temperature (DB/WB) | °F | 74 / 63 | | | | | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 49 / 49 | 49,8 / 49,7 | 52,3 / 52,1 | 50,7 / 50,6 | 51,1 / 50,9 | 51,5 / 51,2 | 52,6 / 52,5 | 53,1 / 52,6 | 52,3 / 52,1 | 53 / 52,6 |
| | Medium | | 49,8 / 49,7 | 51,6 / 51,2 | 52,8 / 52,5 | 51,9 / 51,6 | 52,9 / 52,4 | 52,5 / 51,9 | 53,6 / 53,1 | 53,9 / 53,2 | 53,5 / 53 | 53,8 / 53,1 |
| | High | | 51,6 / 51,2 | 52,4 / 51,8 | 53,1 / 52,7 | 52,6 / 52,1 | 53,9 / 53,1 | 52,9 / 52,2 | 54,3 / 53,6 | 54,3 / 53,5 | 54,4 / 53,6 | 54,1 / 53,4 |
| Water Inlet/Outlet Temperature | °F | 42 / 58 (dT = 16 °F) | | | | | | | | | | |
| Water Flow Rate | Low | GPM | 0,39 | 0,54 | 0,83 | 0,86 | 1,01 | 1,8 | 1,33 | 2,38 | 1,84 | 3,19 |
| | Medium | | 0,54 | 0,83 | 1,02 | 1,27 | 1,57 | 2,13 | 2,19 | 2,84 | 2,97 | 3,85 |
| | High | | 0,83 | 0,97 | 1,1 | 1,48 | 1,88 | 2,3 | 2,61 | 3,06 | 3,58 | 4,13 |
| Coil Connection | Inch | 3/4" | | | | | | | | | | |
| Number of Row | | 4 | | | | | | | | | | |
| Sound Pressure Level | dB | 35/33/31 | 38/35/33 | 41/39/36 | 40/36/33 | 40/37/34 | 42/39/35 | 41/38/34 | 42/40/37 | 44/41/38 | 51/47/41 | |
| Power Supply | V/ph/Hz | 220-240~1/50 | | | | | | | | | | |
| Consumed Power | W | 60 | 66 | 70 | 75 | 122 | 140 | 188 | 210 | 224 | 280 | |
| Consumed Current | A | 0,27 | 0,30 | 0,31 | 0,33 | 0,55 | 0,62 | 0,85 | 0,93 | 1,1 | 1,24 | |

- Cooling capacity rating is based on 42/58 °F water regime at medium speed with 74°F DB / 63 °F WB indoor temperature

Fan Coil

VFC-KD Floor Standing with Cabinet Type Fan Coil 4 Row Cooling Coil for District Cooling



- Silent and efficient 3-speed fan motor
- External panel made of galvanized steel with internal thermal and sound insulation
- Cassette unit is made from painted steel
- Availability for both horizontal and vertical installation thanks to self-insulated L-type condensation tray
- Electrical connections protected through a flexible steel pipe
- High efficiency special exchanger
- Easily removable filter (standard)
- Ability to operate up to 80 Pa external pressure
- Availability for using as concealed floor standing type

| VFC KD Floor Standing with Cabinet Type Fan Coil | | | Water Inlet/Outlet Temperature : 42 / 52 °F (dT = 10 °F) | | | | | | | | | |
|-----------------------------------------------------|--------|---------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 302 | 352 | 402 | 602 | 802 | 1002 | 1202 | 1402 |
| Total Cooling Capacity | Low | TR | 0,32 | 0,44 | 0,57 | 0,73 | 0,57 | 1,48 | 1,24 | 2,07 | 1,67 | 2,80 |
| | Medium | | 0,44 | 0,68 | 0,89 | 1,07 | 1,33 | 1,76 | 1,94 | 2,47 | 2,61 | 3,34 |
| | High | | 0,68 | 0,80 | 0,97 | 1,25 | 1,60 | 1,90 | 2,31 | 2,66 | 3,14 | 3,61 |
| Sensible Cooling Capacity | Low | TR | 0,21 | 0,29 | 0,51 | 0,49 | 0,57 | 1,00 | 0,84 | 1,43 | 1,13 | 1,93 |
| | Medium | | 0,29 | 0,46 | 0,61 | 0,73 | 0,92 | 1,21 | 1,35 | 1,73 | 1,81 | 2,34 |
| | High | | 0,46 | 0,55 | 0,67 | 0,86 | 1,12 | 1,31 | 1,63 | 1,87 | 2,21 | 2,54 |
| Air Flow | Low | CFM | 82 | 118 | 218 | 200 | 241 | 436 | 359 | 653 | 481 | 871 |
| | Medium | | 118 | 202 | 274 | 318 | 420 | 547 | 623 | 821 | 840 | 1095 |
| | High | | 202 | 247 | 303 | 388 | 537 | 606 | 783 | 909 | 1074 | 1212 |
| External Static Pressure | | Pa | 30 | | | | | | | | | |
| Air Inlet Temperature (DB/WB) | | °F | 74 / 63 | | | | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 45,2 / 45,2 | 46,3 / 46,2 | 48,1 / 47,9 | 46,7 / 46,6 | 47,3 / 47,2 | 48,3 / 48 | 47,7 / 47,6 | 49,4 / 49,1 | 47,7 / 47,6 | 49,1 / 48,9 |
| | Medium | | 46,3 / 46,2 | 48,3 / 48 | 48,9 / 48,7 | 48,4 / 48,1 | 49,6 / 49,1 | 49,3 / 48,9 | 49,8 / 49,4 | 50,5 / 49,9 | 49,8 / 49,5 | 50,1 / 49,7 |
| | High | | 48,3 / 48 | 49,2 / 48,2 | 49,3 / 49 | 49,2 / 48,9 | 50,7 / 50,1 | 49,8 / 49,3 | 50,8 / 50,2 | 50,9 / 50,3 | 51 / 50,4 | 50,6 / 50,1 |
| Water Inlet/Outlet Temperature | | °F | 42 / 52 (dT = 10 °F) | | | | | | | | | |
| Water Flow Rate | Low | GPM | 0,77 | 1,05 | 1,77 | 1,75 | 2,04 | 3,53 | 2,97 | 4,95 | 3,99 | 6,7 |
| | Medium | | 1,05 | 1,64 | 2,13 | 2,56 | 3,18 | 4,21 | 4,64 | 5,9 | 6,23 | 7,99 |
| | High | | 1,64 | 1,91 | 2,31 | 2,99 | 3,82 | 4,55 | 5,22 | 6,37 | 7,5 | 8,63 |
| Coil Connection | | Inch | 3/4" | | | | | | | | | |
| Number of Row | | | 4 | | | | | | | | | |
| Sound Pressure Level | | dB | 35/32/30 | 37/34/31 | 40/38/33 | 40/36/33 | 40/36/33 | 41/38/35 | 41/37/33 | 42/39/37 | 43/41/38 | 50/47/41 |
| Power Supply | | V/ph/Hz | 220-240-1/50 | | | | | | | | | |
| Consumed Power | | W | 60 | 66 | 70 | 75 | 122 | 140 | 188 | 210 | 224 | 280 |
| Consumed Current | | A | 0,27 | 0,30 | 0,31 | 0,33 | 0,55 | 0,62 | 0,85 | 0,93 | 1,1 | 1,24 |

• Cooling capacity rating is based on 42/52 °F water regime at medium speed with 74°F DB / 63 °F WB indoor temperature

VFC-KD Floor Standing with Cabinet Type Fan Coil 4 Row Cooling Coil for District Cooling

| VFC KD Floor Standing with Cabinet Type Fan Coil | | | Water Inlet/Outlet Temperature : 42 / 54 °F (dT = 12 °F) | | | | | | | | | |
|-----------------------------------------------------|---------|----------------------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 302 | 352 | 402 | 602 | 802 | 1002 | 1202 | 1402 |
| Total Cooling Capacity | Low | TR | 0,31 | 0,42 | 0,69 | 0,69 | 0,80 | 1,39 | 1,15 | 1,92 | 1,55 | 2,60 |
| | Medium | | 0,42 | 0,64 | 0,83 | 1,00 | 1,24 | 1,65 | 1,79 | 2,28 | 2,41 | 3,06 |
| | High | | 0,64 | 0,75 | 0,89 | 1,17 | 1,49 | 1,78 | 2,13 | 2,46 | 2,90 | 3,34 |
| Sensible Cooling Capacity | Low | TR | 0,20 | 0,28 | 0,48 | 0,47 | 0,55 | 0,96 | 0,80 | 1,37 | 1,08 | 1,84 |
| | Medium | | 0,28 | 0,45 | 0,58 | 0,70 | 0,88 | 1,16 | 1,28 | 1,65 | 1,73 | 2,22 |
| | High | | 0,45 | 0,53 | 0,64 | 0,83 | 1,07 | 1,26 | 1,55 | 1,79 | 2,10 | 2,41 |
| Air Flow | Low | CFM | 82 | 118 | 218 | 200 | 241 | 436 | 359 | 653 | 481 | 871 |
| | Medium | | 118 | 202 | 274 | 318 | 420 | 547 | 623 | 821 | 840 | 1095 |
| | High | | 202 | 247 | 303 | 388 | 537 | 606 | 783 | 909 | 1074 | 1212 |
| External Static Pressure | Pa | 30 | | | | | | | | | | |
| Air Inlet Temperature (DB/WB) | °F | 74 / 63 | | | | | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 46,3 / 46,3 | 47,3 / 47,2 | 49,3 / 49,2 | 47,8 / 47,8 | 48,5 / 48,3 | 49,3 / 49 | 49 / 48,9 | 50,6 / 50,2 | 49 / 48,9 | 50,4 / 50,4 |
| | Medium | | 47,3 / 47,2 | 49,2 / 49 | 50,1 / 49,9 | 49,5 / 49,2 | 50,7 / 50,2 | 50,3 / 49,9 | 51 / 50,6 | 51,6 / 51 | 51 / 50,6 | 51,3 / 50,8 |
| | High | | 49,3 / 49 | 50,2 / 49,8 | 50,5 / 50,2 | 50,3 / 49,9 | 51,8 / 51,1 | 50,8 / 50,2 | 51,9 / 51,3 | 52 / 51,4 | 52,1 / 51,4 | 51,7 / 51,2 |
| Water Inlet/Outlet Temperature | °F | 42 / 54 (dT = 12 °F) | | | | | | | | | | |
| Water Flow Rate | Low | GPM | 0,61 | 0,83 | 1,37 | 1,37 | 1,6 | 2,77 | 2,29 | 3,83 | 3,08 | 5,17 |
| | Medium | | 0,83 | 1,28 | 1,65 | 1,99 | 2,47 | 3,29 | 3,57 | 4,55 | 4,8 | 6,16 |
| | High | | 1,28 | 1,5 | 1,78 | 2,32 | 2,96 | 3,55 | 4,24 | 4,91 | 5,77 | 6,65 |
| Coil Connection | Inch | 3/4" | | | | | | | | | | |
| Number of Row | | 4 | | | | | | | | | | |
| Sound Pressure Level | dB | 35/32/30 | 37/34/31 | 40/38/33 | 40/36/33 | 40/36/33 | 41/38/35 | 41/37/33 | 42/39/37 | 43/41/38 | 50/47/41 | |
| Power Supply | V/ph/Hz | 220-240-1/50 | | | | | | | | | | |
| Consumed Power | W | 60 | 66 | 70 | 75 | 122 | 140 | 188 | 210 | 224 | 280 | |
| Consumed Current | A | 0,27 | 0,30 | 0,31 | 0,33 | 0,55 | 0,62 | 0,85 | 0,93 | 1,1 | 1,24 | |

• Cooling capacity rating is based on 42/54 °F water regime at medium speed with 74°F DB / 63 °F WB indoor temperature

| VFC KD Floor Standing with Cabinet Type Fan Coil | | | Water Inlet/Outlet Temperature : 42 / 58 °F (dT = 16 °F) | | | | | | | | | |
|-----------------------------------------------------|---------|----------------------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 302 | 352 | 402 | 602 | 802 | 1002 | 1202 | 1402 |
| Total Cooling Capacity | Low | TR | 0,26 | 0,36 | 0,56 | 0,57 | 0,68 | 1,20 | 0,89 | 1,59 | 1,23 | 2,13 |
| | Medium | | 0,36 | 0,56 | 0,68 | 0,85 | 1,05 | 1,42 | 1,47 | 1,90 | 1,99 | 2,56 |
| | High | | 0,56 | 0,65 | 0,74 | 0,99 | 1,26 | 1,54 | 1,75 | 2,05 | 2,39 | 2,76 |
| Sensible Cooling Capacity | Low | TR | 0,18 | 0,26 | 0,42 | 0,42 | 0,49 | 0,88 | 0,69 | 1,22 | 0,93 | 1,63 |
| | Medium | | 0,26 | 0,41 | 0,52 | 0,63 | 0,79 | 1,05 | 1,14 | 1,47 | 1,54 | 1,98 |
| | High | | 0,41 | 0,48 | 0,57 | 0,74 | 0,96 | 1,14 | 1,38 | 1,60 | 1,88 | 2,16 |
| Air Flow | Low | CFM | 82 | 118 | 218 | 200 | 241 | 436 | 359 | 653 | 481 | 871 |
| | Medium | | 118 | 202 | 274 | 318 | 420 | 547 | 623 | 821 | 840 | 1095 |
| | High | | 202 | 247 | 303 | 388 | 537 | 606 | 783 | 909 | 1074 | 1212 |
| External Static Pressure | Pa | 30 | | | | | | | | | | |
| Air Inlet Temperature (DB/WB) | °F | 74 / 63 | | | | | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 49 / 49 | 49,8 / 49,7 | 52,3 / 52,1 | 50,7 / 50,6 | 51,1 / 50,9 | 51,5 / 51,2 | 52,6 / 52,5 | 53,1 / 52,6 | 52,3 / 52,1 | 53 / 52,6 |
| | Medium | | 49,8 / 49,7 | 51,6 / 51,2 | 52,8 / 52,5 | 51,9 / 51,6 | 52,9 / 52,4 | 52,5 / 51,9 | 53,6 / 53,1 | 53,9 / 53,2 | 53,5 / 53 | 53,8 / 53,1 |
| | High | | 51,6 / 51,2 | 52,4 / 51,8 | 53,1 / 52,7 | 52,6 / 52,1 | 53,9 / 53,1 | 52,9 / 52,2 | 54,3 / 53,6 | 54,3 / 53,5 | 54,4 / 53,6 | 54,1 / 53,4 |
| Water Inlet/Outlet Temperature | °F | 42 / 58 (dT = 16 °F) | | | | | | | | | | |
| Water Flow Rate | Low | GPM | 0,39 | 0,54 | 0,83 | 0,86 | 1,01 | 1,8 | 1,33 | 2,38 | 1,84 | 3,19 |
| | Medium | | 0,54 | 0,83 | 1,02 | 1,27 | 1,57 | 2,13 | 2,19 | 2,84 | 2,97 | 3,85 |
| | High | | 0,83 | 0,97 | 1,1 | 1,48 | 1,88 | 2,3 | 2,61 | 3,06 | 3,58 | 4,13 |
| Coil Connection | Inch | 3/4" | | | | | | | | | | |
| Number of Row | | 4 | | | | | | | | | | |
| Sound Pressure Level | dB | 35/32/30 | 37/34/31 | 40/38/33 | 40/36/33 | 40/36/33 | 41/38/35 | 41/37/33 | 42/39/37 | 43/41/38 | 50/47/41 | |
| Power Supply | V/ph/Hz | 220-240-1/50 | | | | | | | | | | |
| Consumed Power | W | 60 | 66 | 70 | 75 | 122 | 140 | 188 | 210 | 224 | 280 | |
| Consumed Current | A | 0,27 | 0,30 | 0,31 | 0,33 | 0,55 | 0,62 | 0,85 | 0,93 | 1,1 | 1,24 | |

• Cooling capacity rating is based on 42/58 °F water regime at medium speed with 74°F DB / 63 °F WB indoor temperature

Fan Coil

VFC-YB High Static Pressure Concealed Ceiling Type Fan Coil 4 Row Cooling Coil for District Cooling



- Highly efficient radial fans
- Silent and efficient 2-speed fan motor
- External panel made of galvanized steel with internal thermal and sound insulation
- Electrical connections protected through a flexible steel pipe
- High efficiency special exchanger
- Easily removable filter (standard)
- Insulated condensation tray in between double galvanized plates
- At 280 Pa external pressure, up to 5000 m3/h air flow
- Plenum box and silencer as optional accessories
- Availability for two direction drain from condensation tray

| VFC YB High Static Pressure Fancoil Unit | | | Water Inlet/Outlet Temperature : 42 / 52 °F (dT = 10 °F) | | | | | | |
|---------------------------------------------|--------|---------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 252 | 302 | 402 | 452 | 502 |
| Total Cooling Capacity | Low | TR | 1,37 | 2,53 | 3,45 | 4,37 | 5,40 | 5,48 | 6,34 |
| | Medium | | 1,53 | 2,79 | 3,72 | 4,85 | 5,82 | 7,16 | 8,31 |
| Sensible Cooling Capacity | Low | TR | 1,03 | 1,86 | 2,50 | 3,13 | 3,86 | 3,77 | 4,28 |
| | Medium | | 1,16 | 2,07 | 2,70 | 3,50 | 4,18 | 5,00 | 5,70 |
| Air Flow | Low | CFM | 559 | 1118 | 1324 | 1677 | 1986 | 1736 | 1825 |
| | Medium | | 647 | 1295 | 1471 | 1942 | 2207 | 2472 | 2560 |
| External Static Pressure | | Pa | 75 | | | | | | |
| Air Inlet Temperature (DB/WB) | | °F | 74 / 63 | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 53,4 / 52,6 | 55,4 / 53,5 | 52,8 / 51,9 | 53,1 / 53,9 | 52,3 / 51,3 | 49,7 / 49,2 | 47,7 / 47,6 |
| | Medium | | 54 | 56,1 / 54 | 53,4 / 52,2 | 53,8 / 52,4 | 52,8 / 51,7 | 51,4 / 50,5 | 49,1 / 48,7 |
| Water Inlet/Outlet Temperature | | °F | 42 / 52 (dT = 10 °F) | | | | | | |
| Water Flow Rate | Low | GPM | 3,28 | 6,04 | 8,25 | 10,45 | 12,9 | 113,1 | 15,16 |
| | Medium | | 3,66 | 6,68 | 8,9 | 11,59 | 13,91 | 17,1 | 19,85 |
| Coil Connection | | Inch | 3/4" | | | 1 | | "1 1/4 | |
| Number of Row | | | 4 | | | | | | |
| Sound Power Level | | dB | 63 | 66 | 72 | 74 | 76 | 78 | 79 |
| Sound Pressure Level | | dB | 41 | 43 | 46 | 48 | 51 | 54 | 56 |
| Power Supply | | V/ph/Hz | 220-240~1/50 | | | | | | |
| Consumed Power | | W | 250 | 500 | 500 | 750 | 750 | 1000 | 1000 |
| Consumed Current | | A | 1,14 | 2,28 | 2,28 | 3,42 | 3,42 | 4,55 | 4,55 |

• Cooling capacity rating is based on 42/52 °F water regime at medium speed with 74 °F DB / 63 °F WB indoor temperature

VFC-YB High Static Pressure Concealed Ceiling Type Fan Coil 4 Row Cooling Coil for District Cooling

| VFC YB High Static Pressure Fancoil Unit | | | Water Inlet/Outlet Temperature : 42 / 54 °F (dT = 12 °F) | | | | | | |
|---------------------------------------------|--------|---------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 252 | 302 | 402 | 452 | 502 |
| Total Cooling Capacity | Low | TR | 1,20 | 2,27 | 3,13 | 3,98 | 4,93 | 5,10 | 5,40 |
| | Medium | | 1,34 | 2,51 | 3,57 | 4,42 | 5,32 | 6,63 | 7,74 |
| Sensible Cooling Capacity | Low | TR | 0,95 | 1,75 | 2,36 | 2,96 | 3,65 | 3,60 | 4,10 |
| | Medium | | 1,07 | 1,95 | 2,56 | 3,31 | 3,96 | 4,77 | 5,44 |
| Air Flow | Low | CFM | 559 | 1118 | 1324 | 1677 | 1986 | 1736 | 1825 |
| | Medium | | 647 | 1295 | 1471 | 1942 | 2207 | 2472 | 2560 |
| External Static Pressure | | Pa | 75 | | | | | | |
| Air Inlet Temperature (DB/WB) | | °F | 74 / 63 | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 55 / 54 | 56,5 / 54,6 | 54,1 / 53 | 54,2 / 53 | 53,4 / 52,5 | 50,8 / 50,3 | 48,9 / 48,7 |
| | Medium | | 55,5 / 54,4 | 57,2 / 55 | 54,5 / 53,3 | 54,9 / 53,4 | 53,9 / 52,8 | 52,4 / 51,5 | 50,2 / 49,8 |
| Water Inlet/Outlet Temperature | | °F | 42 / 54 (dT = 12 °F) | | | | | | |
| Water Flow Rate | Low | GPM | 2,39 | 4,52 | 6,23 | 7,93 | 9,83 | 10,16 | 11,84 |
| | Medium | | 2,67 | 4,99 | 6,72 | 8,8 | 10,59 | 13,2 | 15,43 |
| Coil Connection | | Inch | 3/4" | | 1 | | "1 1/4 | | |
| Number of Row | | | 4 | | | | | | |
| Sound Power Level | | dB | 63 | 66 | 72 | 74 | 76 | 78 | 79 |
| Sound Pressure Level | | dB | 41 | 43 | 46 | 48 | 51 | 54 | 56 |
| Power Supply | | V/ph/Hz | 220-240~1/50 | | | | | | |
| Consumed Power | | W | 250 | 500 | 500 | 750 | 750 | 1000 | 1000 |
| Consumed Current | | A | 1,14 | 2,28 | 2,28 | 3,42 | 3,42 | 4,55 | 4,55 |

• Cooling capacity rating is based on 42/54 °F water regime at medium speed with 74 °F DB / 63 °F WB indoor temperature

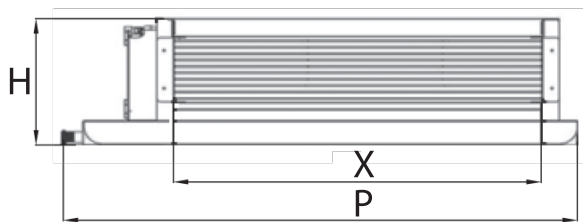
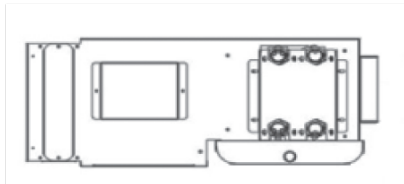
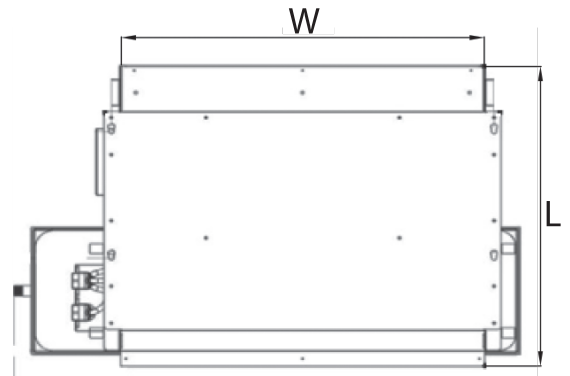
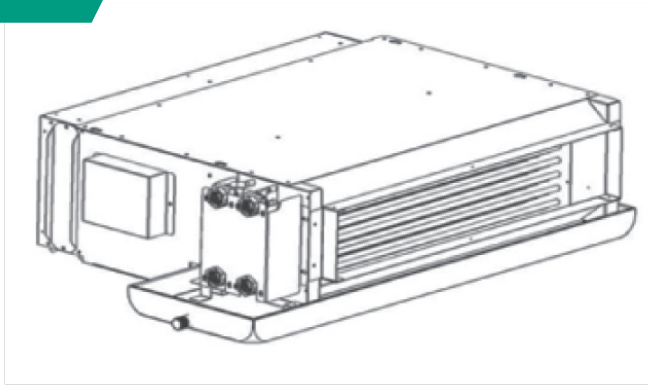
| VFC YB High Static Pressure Fancoil Unit | | | Water Inlet/Outlet Temperature : 42 / 58 °F (dT = 16 °F) | | | | | | |
|---------------------------------------------|--------|---------|----------------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 102 | 202 | 252 | 302 | 402 | 452 | 502 |
| Total Cooling Capacity | Low | TR | 0,77 | 1,72 | 2,47 | 3,20 | 4,00 | 4,29 | 5,03 |
| | Medium | | 0,88 | 1,94 | 2,67 | 3,56 | 4,32 | 5,56 | 6,55 |
| Sensible Cooling Capacity | Low | TR | 0,74 | 1,51 | 2,07 | 2,61 | 3,23 | 3,23 | 3,69 |
| | Medium | | 0,85 | 1,69 | 2,25 | 2,93 | 3,51 | 4,29 | 4,90 |
| Air Flow | Low | CFM | 559 | 1118 | 1324 | 1677 | 1986 | 1736 | 1825 |
| | Medium | | 647 | 1295 | 1471 | 1942 | 2207 | 2472 | 2560 |
| External Static Pressure | | Pa | 75 | | | | | | |
| Air Inlet Temperature (DB/WB) | | °F | 74 / 63 | | | | | | |
| Air Outlet Temperature (DB/WB) | Low | °F | 59,2 / 57,4 | 58,9 / 56,7 | 56,6 / 55,3 | 56,6 / 55,1 | 55,8 / 54,6 | 53,2 / 52,5 | 51,4 / 51,1 |
| | Medium | | 59,3 / 57,5 | 59,4 / 56,9 | 56,9 / 55,5 | 57,2 / 55,4 | 56,2 / 54,9 | 54,6 / 53,5 | 52,6 / 52,1 |
| Water Inlet/Outlet Temperature | | °F | 42 / 58 (dT = 16 °F) | | | | | | |
| Water Flow Rate | Low | GPM | 1,15 | 2,58 | 3,69 | 4,78 | 5,98 | 6,41 | 7,52 |
| | Medium | | 1,31 | 2,89 | 3,99 | 5,32 | 6,46 | 8,31 | 9,79 |
| Coil Connection | | Inch | 3/4" | | 1 | | "1 1/4 | | |
| Number of Row | | | 4 | | | | | | |
| Sound Power Level | | dB | 63 | 66 | 72 | 74 | 76 | 78 | 79 |
| Sound Pressure Level | | dB | 41 | 43 | 46 | 48 | 51 | 54 | 56 |
| Power Supply | | V/ph/Hz | 220-240~1/50 | | | | | | |
| Consumed Power | | W | 250 | 500 | 500 | 750 | 750 | 1000 | 1000 |
| Consumed Current | | A | 1,14 | 2,28 | 2,28 | 3,42 | 3,42 | 4,55 | 4,55 |

• Cooling capacity rating is based on 42/58 °F water regime at medium speed with 74 °F DB / 63 °F WB indoor temperature

Fan Coil

Table of Dimensions

VFC-GT

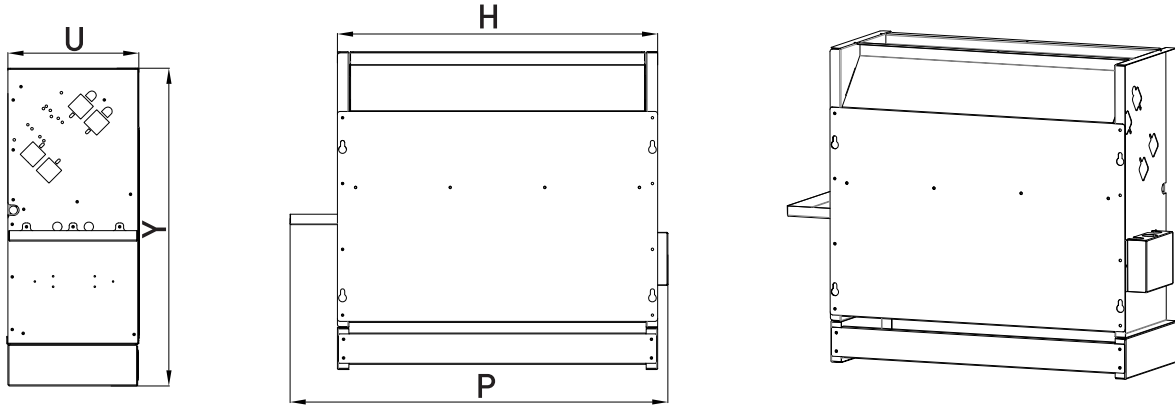


| MODEL | Dimensions (mm) | | | | | Weight (kg) |
|--------------|-----------------|------|------|-----|-----|-------------|
| | W | X | P | L | H | |
| VFC GT 202 | 513 | 457 | 700 | 600 | 255 | 24 |
| VFC GT 302 | 688 | 630 | 870 | 600 | 255 | 27 |
| VFC GT 352 | 818 | 763 | 1000 | 600 | 255 | 29 |
| VFC GT 402 | 818 | 763 | 1000 | 600 | 255 | 31 |
| VFC GT 602 | 1018 | 962 | 1200 | 600 | 255 | 37 |
| VFC GT 802 | 1268 | 1212 | 1450 | 600 | 255 | 46 |
| VFC GT 1002 | 1368 | 1312 | 1550 | 600 | 255 | 48 |
| VFC GT 1202 | 1628 | 1572 | 1810 | 600 | 255 | 55 |
| VFC GT 1402 | 1628 | 1572 | 1810 | 600 | 255 | 58 |
| Drain outlet | RC 3/8" | | | | | |

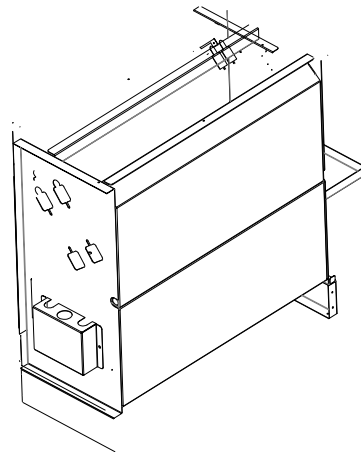
| MODEL | Dimensions (mm) | | | | | | | | | |
|-----------------------------------------|-----------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|--|
| | VFC GT 202 | VFC GT 302 | VFC GT 352 | VFC GT 402 | VFC GT 602 | VFC GT 802 | VFC GT 1002 | VFC GT 1202 | VFC GT 1402 | |
| Supply Vent Connection (height x width) | 205x438 | 205x612 | 205x612 | 205x742 | 205x940 | 205x1190 | 205x1292 | 205x1552 | 205x1552 | |
| Return Vent Connection (height x width) | 125x454 | 125x625 | 125x625 | 125x758 | 125x959 | 125x1209 | 125x1310 | 125x1570 | 125x1570 | |

Table of Dimensions

VFC-GD

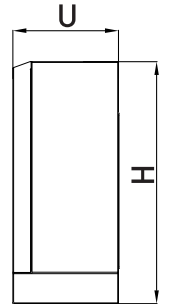
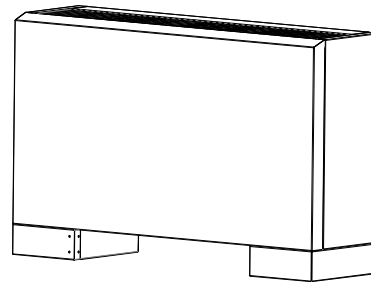
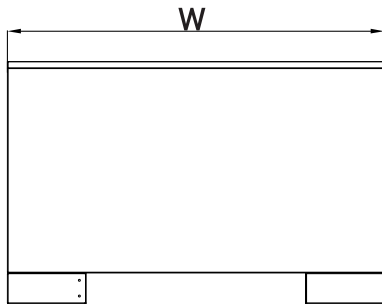


| MODEL | Dimensions (mm) | | | | Weight (kg) |
|--------------|-----------------|-----|------|-----|-------------|
| | W | X | P | U | |
| VFC GD 202 | 615 | 610 | 730 | 250 | 22 |
| VFC GD 302 | 790 | 610 | 905 | 250 | 25 |
| VFC GD 352 | 920 | 610 | 1035 | 250 | 26 |
| VFC GD 402 | 920 | 610 | 1035 | 250 | 29 |
| VFC GD 602 | 1120 | 610 | 1235 | 250 | 34 |
| VFC GD 802 | 1370 | 610 | 1485 | 250 | 44 |
| VFC GD 1002 | 1470 | 610 | 1585 | 250 | 46 |
| VFC GD 1202 | 1730 | 610 | 1845 | 250 | 53 |
| VFC GD 1402 | 1730 | 610 | 1845 | 250 | 56 |
| Drain outlet | RC 3/8" | | | | |



Fan Coil

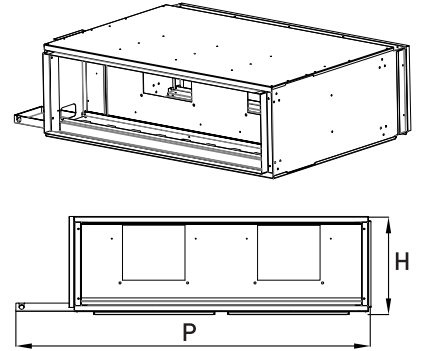
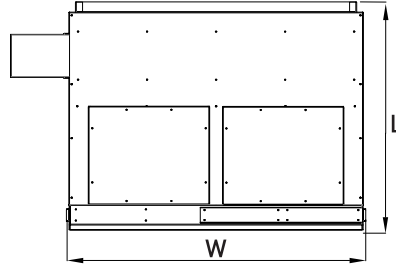
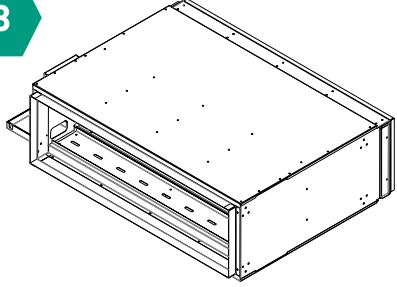
VFC-KD



| MODEL | Dimensions (mm) | | | Weight (kg) |
|--------------|-----------------|-----|-----|-------------|
| | W | H | U | |
| VFC KD 202 | 902 | 635 | 270 | 32 |
| VFC KD 302 | 1077 | 635 | 270 | 36 |
| VFC KD 352 | 1207 | 635 | 270 | 39 |
| VFC KD 402 | 1207 | 635 | 270 | 41 |
| VFC KD 602 | 1407 | 635 | 270 | 45 |
| VFC KD 802 | 1557 | 635 | 270 | 56 |
| VFC KD 1002 | 1757 | 635 | 270 | 58 |
| VFC KD 1202 | 2017 | 635 | 270 | 66 |
| VFC KD 1402 | 2017 | 635 | 270 | 70 |
| Drain outlet | RC 3/8" | | | |



VFC-YB



| MODEL | Dimensions (mm) | | | | Weight (kg) |
|--------------|-----------------|------|-----|-----|-------------|
| | W | P | L | H | |
| VFC YB 102 | 635 | 845 | 855 | 370 | 55 |
| VFC YB 202 | 1100 | 1309 | 855 | 370 | 76 |
| VFC YB 252 | 1100 | 1309 | 855 | 370 | 78 |
| VFC YB 302 | 1635 | 1885 | 855 | 370 | 104 |
| VFC YB 402 | 1635 | 1885 | 855 | 370 | 108 |
| VFC YB 452 | 1635 | 1885 | 915 | 475 | 115 |
| VFC YB 502 | 1635 | 1885 | 915 | 575 | 112 |
| Drain outlet | RC 3/8" | | | | |

| MODEL | Dimensions (mm) | | | | | | |
|--------------------------------------|-----------------|------------|------------|------------|------------|------------|------------|
| | VFC YB 102 | VFC YB 202 | VFC YB 252 | VFC YB 302 | VFC YB 402 | VFC YB 452 | VFC YB 502 |
| Suction Port Connection Width (mm) | 595 | 1059 | 1059 | 1595 | 1595 | 1595 | 1595 |
| Flange Dimensions Height (mm) | 320 | 320 | 320 | 320 | 320 | 430 | 530 |
| Discharge Port Connection Width (mm) | 545 | 1009 | 1009 | 1545 | 1545 | 1545 | 1545 |
| Flange Dimensions Height (mm) | 310 | 310 | 310 | 310 | 310 | 415 | 515 |

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