



**VOLTA** EGYPT  
AIR SOLUTIONS



For comfort, Safety and easy installation

2026 Edition

**BVF-DVF**  
Series

**Fan Coil Unit**  
150 - 460 L / s  
(300 - 1000 cfm)



## ● Design

Volta offers standard and custom design products for nominal and high capacities air volume, design has the ability to accommodate architect designs needs with different solutions.

## ● Save

Volta emphasizes on energy saving products by applying modern hookup and control systems.

## ● QUALITY

Volta uses best materials, components and high quality assurance system in manufacturing process.

## ● Functional

Volta fan coil units models are suitable for all applications ( Hotels , Residentials, Hospitals, Education Facilities,...etc.).

Volta fan coil units are suitable for 2 and 4 pipes system applications.

## ● Efficient

Volta fan coil units are designed for better efficiency, quiet and long life time operation.

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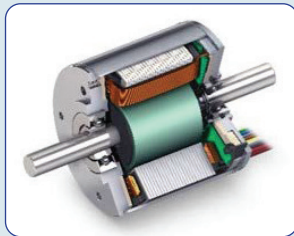
## FAN

Fans are centrifugal, forward curved double inlet direct connected type, statically and dynamically balanced.



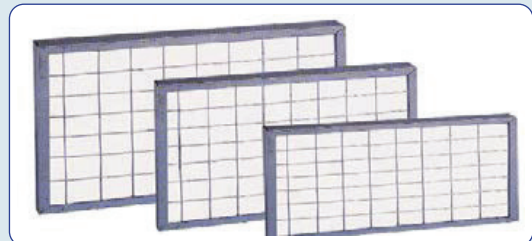
## CASING

1 mm galvanized steel housing fully lined with acoustic and thermal insulation.



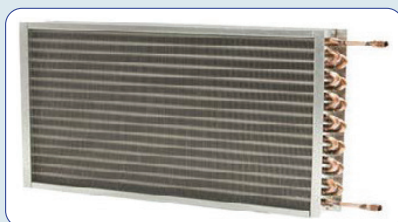
## MOTOR

Motors are 3 speeds tap wound; permanent split capacitor type with thermal overload protection.



## FILTER

Pre filters are made from high quality synthetic fiber. Aluminum filters are available as an option.



## HEAT EXCHANGER COIL

Coils are fabricated from copper tubes and aluminum fins mechanically bonded to the tubes, Includes manual air vent discharging. All coils are factory tested.



## DRAIN PAN

Drain pans are fabricated from 1mm galvanized steel, thermally insulated. Extended drain pan is available as an option.



### **BVF**

**150 TO 300 L/s**  
(300 - 635 cfm)



### **Unit description**

BVF series is blow through ceiling concealed ducted units, This slim series is ideal solution for quiet operation.



### **DVF**

**320 TO 460 L/s**  
(680 - 1000 cfm)



### **Unit description**

DVF series is draw through ceiling concealed ducted units, This series is ideal solution for high capacities and best cooling coil performance including district cooling applications.



|                                                                   |                  | BVF      |          |          | DVF      |          |
|-------------------------------------------------------------------|------------------|----------|----------|----------|----------|----------|
| Series                                                            | No. of Coil Rows | 3 ROWS   |          |          | 4 ROWS   |          |
|                                                                   | Model            | 23       | 33       | 43       | 53       | 64       |
| <b>Maximum air flow rate<sup>(1)</sup></b>                        |                  |          |          |          |          |          |
| At high speed                                                     | L/s              | 189      | 249      | 300      | 422      | 460      |
| <b>Maximum Total cooling capacity at High Speed<sup>(2)</sup></b> |                  |          |          |          |          |          |
| Capacity                                                          | KW               | 3.72     | 4.69     | 5.33     | 8.07     | 11.02    |
| Air Outlet Temperature DB/WB                                      | °C               | 14       | 15       | 15.7     | 15.7     | 13       |
| Chilled water flow                                                | L/s              | 72       | 90       | 108      | 148      | 216      |
| Chilled water Pressure Drop                                       | KPa              | 23.4     | 20       | 15.8     | 17.2     | 16.6     |
| Coil No. of Rows                                                  |                  | 3        | 3        | 3        | 3        | 4        |
| Headers Connection In/Out                                         | mm               | 12.7     | 12.7     | 12.7     | 25       | 25       |
| <b>Sound Power level (Inlet +Casing Radiated)</b>                 |                  |          |          |          |          |          |
| Low                                                               | dB(A)            | 58       | 59       | 62       | 65       | 67       |
| Medium                                                            | dB(A)            | 60       | 62       | 65       | 67       | 69       |
| High                                                              | dB(A)            | 62       | 65       | 68       | 70       | 72       |
| <b>Sound Power level (Outlet)</b>                                 |                  |          |          |          |          |          |
| Low                                                               | dB(A)            | 52       | 55       | 58       | 66       | 71       |
| Medium                                                            | dB(A)            | 54       | 57       | 59       | 67       | 72       |
| High                                                              | dB(A)            | 56       | 60       | 62       | 70       | 72       |
| No. of Fans                                                       | Qty.             | 2        | 2        | 2        | 2        | 2        |
| Max absorbed Power                                                | Watt             | 101      | 133      | 283      | 452      | 708      |
| Electric power Supply                                             | V-Ph-Hz          | 220-1-50 | 220-1-50 | 220-1-50 | 220-1-50 | 220-1-50 |
| Weight                                                            | Kg               | 21       | 27       | 29       | 61       | 65       |

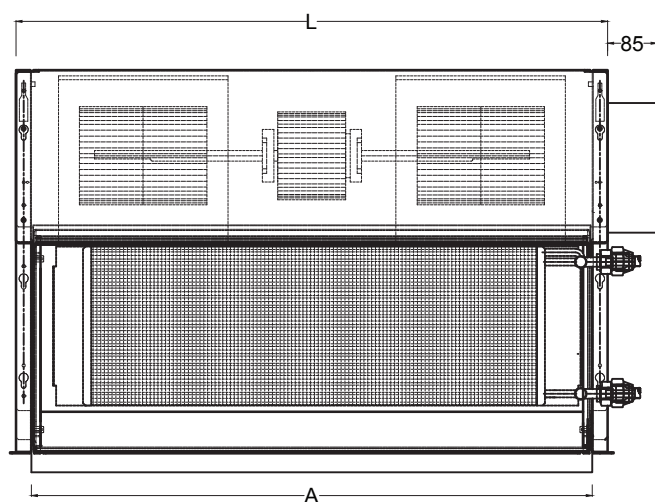
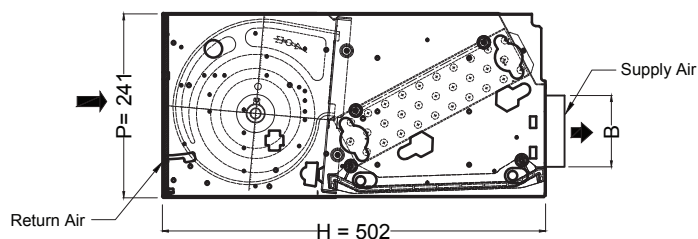
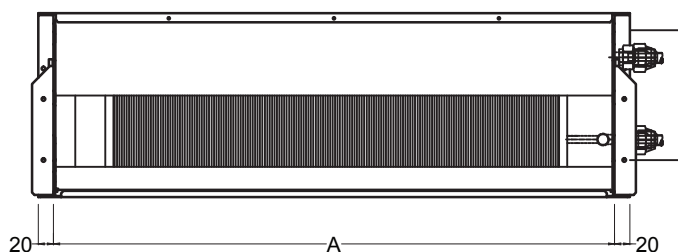
(1) Based on High speed @50 Pa ESP

(2) Based on inlet air temperature 26.6 °C DB / 19.4 °C WB and water temperature inlet 7 °C / ΔTw 5.5 °C

Selection software will be used for other data different from the tabulated ones.



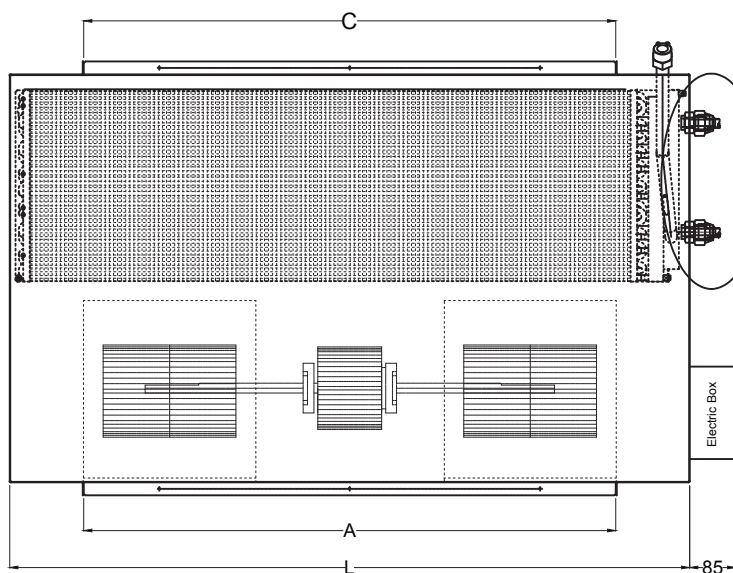
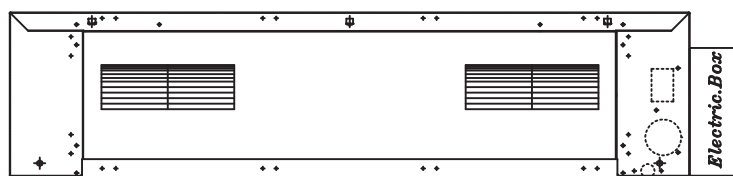
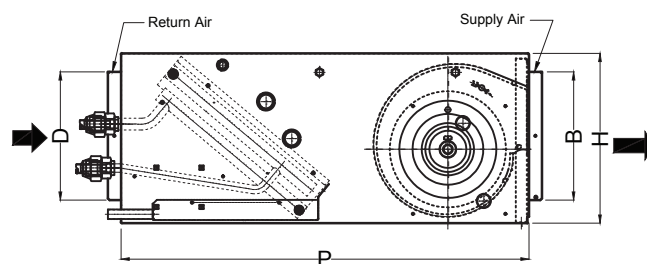
**BVF**



| Model  | L (mm) | H (mm) | P (mm) | A (mm) | B (mm) | No. of Fans |
|--------|--------|--------|--------|--------|--------|-------------|
| BVF 23 | 981    | 502    | 241    | 925    | 100    | 2           |
| BVF 33 | 1171   | 502    | 241    | 1115   | 100    | 2           |
| BVF 43 | 1361   | 502    | 241    | 1305   | 100    | 2           |



## DVF



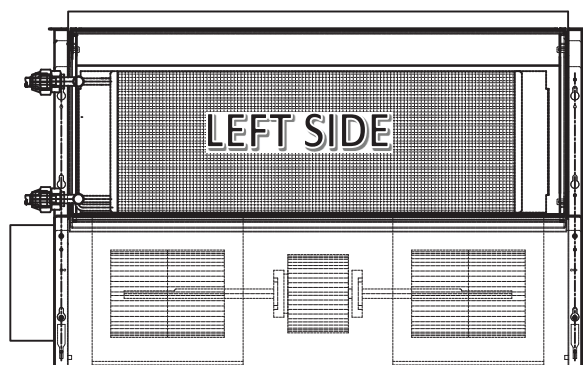
Side headers direction available as an option for this Series.



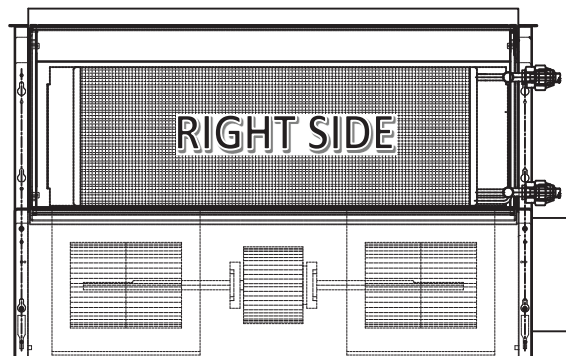
| Model  | L (mm) | H (mm) | P (mm) | A (mm) | B (mm) | C (mm) | D (mm) | No. of Fans |
|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| DVF 53 | 1250   | 315    | 750    | 978    | 236    | 978    | 236    | 2           |
| DVF 64 | 1250   | 315    | 750    | 978    | 236    | 978    | 236    | 2           |

## BVF

AIR DIRECTION

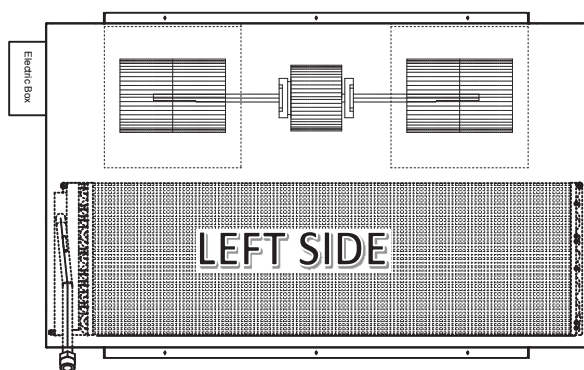


AIR DIRECTION

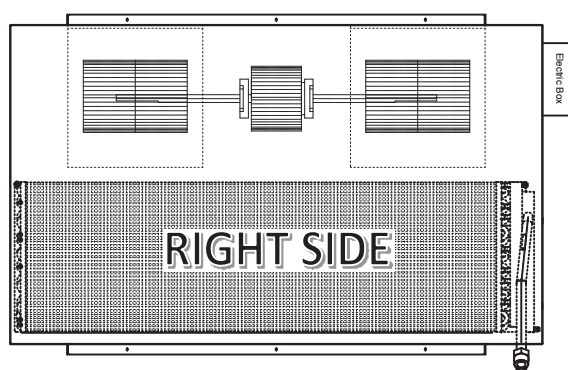


## DVF

AIR DIRECTION



AIR DIRECTION



### *Extended drain pan*

VOLTA fan coil units can be supplied with an extended drain pan as an option.



### *Complete hook-up option*

VOLTA offers a complete hookup and piping solutions as an option.



### *Washable metal mesh filters*

All VOLTA fan coil models can be supplied with metallic aluminum washable filter as an option.



### *Complete integration*

BVF and DVF offers a wide versatility and deep easy installation. User-friendly interface with LCD screen allows the full control of all operating conditions.



The Order code comprises a combination of letters and numbers to clarify the unit type and options.

| Digit No.                             |                                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---------------------------------------|----------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|
| Position 1:<br>Letter, Letter, Letter | Blow Through Series              | B | V | F |   |   |   |   |   |   |    |    |    |    |    |
|                                       | Draw Through Series              | D | V | F |   |   |   |   |   |   |    |    |    |    |    |
| Position 2:<br>Digit                  | Supply Air Flow at medium speed  |   |   |   | M |   |   |   |   |   |    |    |    |    |    |
|                                       | Supply Air Flow at high speed    |   |   |   | H |   |   |   |   |   |    |    |    |    |    |
| Position 3:<br>Digit, Digit, Digit    | Supply Air Flow Capacity (L/s)   |   |   |   |   | 2 | 0 | 0 |   |   |    |    |    |    |    |
| Position 4:<br>Digit, Digit           | External pressure drop (Pa)      |   |   |   |   |   |   |   | 5 | 0 |    |    |    |    |    |
| Position 5:<br>Digit                  | Supplied with 3 Rows Coil        |   |   |   |   |   |   |   |   |   | 3  |    |    |    |    |
|                                       | Supplied with 4 Rows Coil        |   |   |   |   |   |   |   |   |   | 4  |    |    |    |    |
| Position 6:<br>Letter                 | Supplied with Synthetic filter   |   |   |   |   |   |   |   |   |   |    | S  |    |    |    |
|                                       | Supplied with Washable filter    |   |   |   |   |   |   |   |   |   |    | A  |    |    |    |
| Position 7:<br>Letter                 | Supplied without Heating element |   |   |   |   |   |   |   |   |   |    |    | W  |    |    |
|                                       | Supplied with Electric Heaters   |   |   |   |   |   |   |   |   |   |    |    | E  |    |    |
|                                       | Supplied with Hot water Coil     |   |   |   |   |   |   |   |   |   |    |    | H  |    |    |
| Position 8:<br>Letter                 | Supplied with 3 Speeds Motor     |   |   |   |   |   |   |   |   |   |    |    |    | A  |    |
|                                       | Supplied with Brushless DC Motor |   |   |   |   |   |   |   |   |   |    |    |    | B  |    |
| Position 9:<br>Letter                 | Right hand side Access           |   |   |   |   |   |   |   |   |   |    |    |    |    | R  |
|                                       | Left hand side Access            |   |   |   |   |   |   |   |   |   |    |    |    |    | L  |

## Ordering Example

| Selection criteria                    | Requirement                 | Structure of the Order No. |
|---------------------------------------|-----------------------------|----------------------------|
| Unit Type                             | Blow Through Series         | BVF-                       |
| Supply Air Flow Speed                 | Medium Speed                | BVF-M-                     |
| Supply Air Flow Capacity (L/s)        | 200 L/s                     | BVF-M-200-                 |
| External pressure drop (Pa)           | 50 Pa                       | BVF-M-200-50-              |
| No. of Rows (According required Load) | 3 Rows Coil                 | BVF-M-200-50-3-            |
| Filter Media Type                     | Synthetic media filter      | BVF-M-200-50-3-S-          |
| Heating Element                       | Electric heaters            | BVF-M-200-50-3-S-H-        |
| Motor Type                            | 3 Speeds standard motor     | BVF-M-200-50-3-S-H-A-      |
| Required Access Direction             | Right Side access direction | BVF-M-200-50-3-S-H-A-R     |

### GENERAL NOTE:

Technical data could change without prior notifications.

Selection software will be used for other data different from the tabulated ones.

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