

CV SERIES AIR COOLED CONDENSER

1. Product Description:

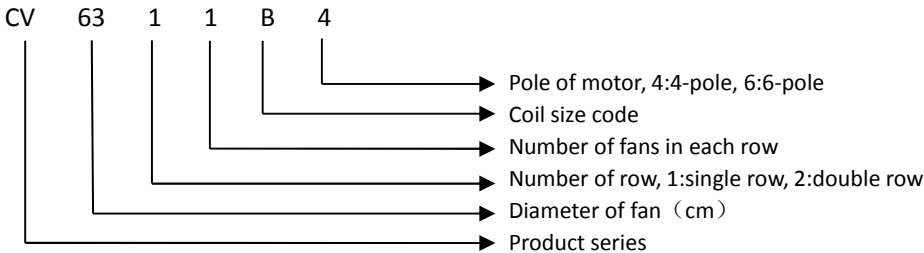
CV series condenser adopts V-shaped structure design, with air inlet on both sides and air outlet on the top, with a larger windward surface; It is mainly used for piston parallel units or screw units with large heat exchange demand and remote installation.

This series of products has the following characteristics:

- Casing: high quality galvanized steel plate with silver powder coating (RAL7001), with strong corrosion resistance.
- The long air duct design with integral stretch arc has good air flow effect and excellent product appearance.
- Heat exchanger end plate adopts aluminum plate, effectively protect copper tube.
- Coil: diameter $\phi 9.5$ inner thread copper pipe, pipe spacing 25×21.65 triangle arrangement, high heat exchange efficiency.
- Corrugated fins with film coated aluminum, fin spacing 2.1mm.
- Fans: Standard design 3P/380V/50Hz power supply, adopt $\phi 630$ external rotor fan, number 1-6, with 4-pole or 6-pole motor, $\phi 630$ external rotor fan, number 1-5, with 6-pole motor.
- Product test pressure 32bar.
- Suitable for R404A, R507A, R448A, R449A, R134a, R22 and other refrigerant.



2. Model Explanation:



3. Technical data sheet:

3.1 $\phi 630$ fan series

| Model | Capacity (KW) $\Delta T=15K$ | Surface m^2 | Tube Volume dm^3 | Fan motor | | | Noise dB(A) | Connect pipe | | Weight kg |
|--------------------------------|------------------------------------|------------------|--------------------------|--------------------|--------------|----------------|----------------|--------------|--------------|--------------|
| | | | | Airflow m^3/h | Input (W) | Current (A) | | Inlet | Outlet | |
| 4-pole motor: speed 1320 r/min | | | | | | | | | | |
| CV6311B4 | 40.5 | 62.3 | 7.8 | 11750 | 800 | 1.6 | 57 | 2- $\phi 22$ | 2- $\phi 16$ | 123 |
| CV6311C4 | 47.6 | 93.5 | 11.8 | 11500 | 800 | 1.6 | 57 | 2- $\phi 22$ | 2- $\phi 16$ | 132 |
| CV6311D4 | 50.9 | 124.7 | 15.7 | 10750 | 800 | 1.6 | 57 | 2- $\phi 22$ | 2- $\phi 16$ | 142 |
| CV6312B4 | 81.0 | 124.7 | 15.2 | 23500 | 1600 | 3.2 | 60 | 2- $\phi 28$ | 2- $\phi 22$ | 199 |
| CV6312C4 | 95.3 | 187.0 | 22.8 | 23000 | 1600 | 3.2 | 60 | 2- $\phi 28$ | 2- $\phi 22$ | 218 |
| CV6312D4 | 101.7 | 249.4 | 30.4 | 21500 | 1600 | 3.2 | 60 | 2- $\phi 35$ | 2- $\phi 28$ | 238 |
| CV6313B4 | 121.5 | 187.0 | 22.5 | 35250 | 2400 | 4.8 | 61 | 2- $\phi 35$ | 2- $\phi 28$ | 276 |
| CV6313C4 | 143.0 | 280.5 | 33.8 | 34500 | 2400 | 4.8 | 61 | 2- $\phi 35$ | 2- $\phi 28$ | 304 |
| CV6313D4 | 152.5 | 374.0 | 45.1 | 32250 | 2400 | 4.8 | 61 | 2- $\phi 35$ | 2- $\phi 28$ | 333 |
| CV6314B4 | 162.1 | 249.4 | 29.9 | 47000 | 3200 | 6.4 | 62 | 2- $\phi 42$ | 2- $\phi 28$ | 351 |
| CV6314C4 | 190.7 | 374.0 | 44.8 | 46000 | 3200 | 6.4 | 62 | 2- $\phi 42$ | 2- $\phi 28$ | 388 |
| CV6314D4 | 203.4 | 498.7 | 59.8 | 43000 | 3200 | 6.4 | 62 | 2- $\phi 42$ | 2- $\phi 28$ | 427 |
| CV6315B4 | 202.6 | 311.7 | 37.2 | 58750 | 4000 | 8.0 | 63 | 2- $\phi 42$ | 2- $\phi 28$ | 426 |
| CV6315C4 | 238.4 | 467.5 | 55.9 | 57500 | 4000 | 8.0 | 63 | 2- $\phi 42$ | 2- $\phi 35$ | 474 |
| CV6315D4 | 254.3 | 623.4 | 74.5 | 53750 | 4000 | 8.0 | 63 | 2- $\phi 42$ | 2- $\phi 35$ | 523 |
| CV6316B4 | 243.1 | 374.0 | 44.6 | 70500 | 4800 | 9.6 | 64 | 2- $\phi 42$ | 2- $\phi 35$ | 501 |
| CV6316C4 | 286.1 | 561.0 | 66.9 | 69000 | 4800 | 9.6 | 64 | 2- $\phi 42$ | 2- $\phi 35$ | 558 |
| CV6316D4 | 305.2 | 748.1 | 89.2 | 64500 | 4800 | 9.6 | 64 | 2- $\phi 42$ | 2- $\phi 35$ | 616 |

| 6-pole motor: speed 900 r/min | | | | | | | | | | |
|-------------------------------|-------|-------|------|-------|------|------|----|-------|-------|-----|
| CV6311B6 | 31.1 | 62.3 | 7.8 | 9375 | 550 | 1.45 | 52 | 2-φ22 | 2-φ16 | 123 |
| CV6311C6 | 38.3 | 93.5 | 11.8 | 8850 | 550 | 1.45 | 52 | 2-φ22 | 2-φ16 | 132 |
| CV6311D6 | 41.2 | 124.7 | 15.7 | 8150 | 550 | 1.45 | 52 | 2-φ22 | 2-φ16 | 142 |
| CV6312B6 | 62.3 | 124.7 | 15.2 | 18750 | 1100 | 2.90 | 55 | 2-φ28 | 2-φ22 | 199 |
| CV6312C6 | 76.6 | 187.0 | 22.8 | 17700 | 1100 | 2.90 | 55 | 2-φ28 | 2-φ22 | 218 |
| CV6312D6 | 82.3 | 249.4 | 30.4 | 16300 | 1100 | 2.90 | 55 | 2-φ35 | 2-φ28 | 238 |
| CV6313B6 | 93.5 | 187.0 | 22.5 | 28125 | 1650 | 4.35 | 56 | 2-φ35 | 2-φ28 | 276 |
| CV6313C6 | 115.0 | 280.5 | 33.8 | 26550 | 1650 | 4.35 | 56 | 2-φ35 | 2-φ28 | 304 |
| CV6313D6 | 123.4 | 374.0 | 45.1 | 24450 | 1650 | 4.35 | 56 | 2-φ35 | 2-φ28 | 333 |
| CV6314B6 | 102.3 | 249.4 | 29.9 | 37500 | 2200 | 5.80 | 57 | 2-φ42 | 2-φ28 | 351 |
| CV6314C6 | 153.3 | 374.0 | 44.8 | 35400 | 2200 | 5.80 | 57 | 2-φ42 | 2-φ28 | 388 |
| CV6314D6 | 164.5 | 498.7 | 59.8 | 32600 | 2200 | 5.80 | 57 | 2-φ42 | 2-φ28 | 427 |
| CV6315B6 | 155.8 | 311.7 | 37.2 | 46875 | 2750 | 7.25 | 58 | 2-φ42 | 2-φ28 | 426 |
| CV6315C6 | 191.6 | 467.5 | 55.9 | 44250 | 2750 | 7.25 | 58 | 2-φ42 | 2-φ35 | 474 |
| CV6315D6 | 205.7 | 623.4 | 74.5 | 40750 | 2750 | 7.25 | 58 | 2-φ42 | 2-φ35 | 523 |
| CV6316B6 | 187.0 | 374.0 | 44.6 | 56250 | 3300 | 8.70 | 59 | 2-φ42 | 2-φ35 | 501 |
| CV6316C6 | 230.0 | 561.0 | 66.9 | 53100 | 3300 | 8.70 | 59 | 2-φ42 | 2-φ35 | 558 |
| CV6316D6 | 246.8 | 748.1 | 89.2 | 48900 | 3300 | 8.70 | 59 | 2-φ42 | 2-φ35 | 616 |

1. Heat exchange calibration: air inlet temp. 25°C, condensation temp. 40°C, temp. difference 15K, refrigerant R404A. Please check the correction factor for the heat exchange under other working conditions.

2. The noise is calibrated as the sound pressure value at a distance of 10 meters.

3.2 φ 800 fan series

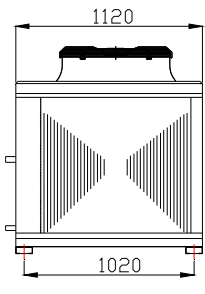
| Model | Capacity (KW) ΔT=15K | Surface m ² | Tube Volume dm ³ | Fan motor | | | Noise dB(A) | Connect pipe | | Weight kg |
|-------------------------------|----------------------------|---------------------------|-----------------------------------|------------------------------|--------------|----------------|----------------|--------------|--------|--------------|
| | | | | Airflow m ³ /h | Input (W) | Current (A) | | Inlet | Outlet | |
| 6-pole motor: speed 900 r/min | | | | | | | | | | |
| CV8011B6 | 58.9 | 115.4 | 14.3 | 17000 | 1200 | 2.4 | 56 | 2-φ28 | 2-φ22 | 187 |
| CV8011C6 | 72.7 | 173.2 | 21.4 | 16300 | 1200 | 2.4 | 56 | 2-φ28 | 2-φ22 | 204 |
| CV8011D6 | 76.2 | 230.9 | 28.5 | 15700 | 1200 | 2.4 | 56 | 2-φ28 | 2-φ22 | 223 |
| CV8012B6 | 117.8 | 230.9 | 27.9 | 34000 | 2400 | 4.8 | 59 | 2-φ35 | 2-φ28 | 314 |
| CV8012C6 | 145.4 | 346.3 | 41.8 | 32600 | 2400 | 4.8 | 59 | 2-φ35 | 2-φ28 | 350 |
| CV8012D6 | 152.3 | 461.8 | 55.7 | 31400 | 2400 | 4.8 | 59 | 2-φ35 | 2-φ28 | 385 |
| CV8013B6 | 176.6 | 346.3 | 41.5 | 51000 | 3600 | 7.2 | 60 | 2-φ35 | 2-φ28 | 447 |
| CV8013C6 | 218.2 | 519.5 | 62.2 | 48900 | 3600 | 7.2 | 60 | 2-φ42 | 2-φ28 | 501 |
| CV8013D6 | 228.5 | 692.6 | 83.0 | 47100 | 3600 | 7.2 | 60 | 2-φ42 | 2-φ28 | 554 |
| CV8014B6 | 235.5 | 461.8 | 55.1 | 68000 | 4800 | 9.6 | 61 | 2-φ42 | 2-φ35 | 575 |
| CV8014C6 | 290.8 | 692.6 | 82.6 | 65200 | 4800 | 9.6 | 61 | 2-φ42 | 2-φ35 | 646 |
| CV8014D6 | 304.7 | 923.5 | 110.2 | 62800 | 4800 | 9.6 | 61 | 2-φ42 | 2-φ35 | 717 |
| CV8015B6 | 294.3 | 577.2 | 68.7 | 85000 | 6000 | 12.0 | 62 | 2-φ42 | 2-φ35 | 708 |
| CV8015C6 | 363.6 | 865.8 | 103.1 | 81500 | 6000 | 12.0 | 62 | 2-φ54 | 2-φ42 | 786 |
| CV8015D6 | 380.9 | 1154.4 | 137.4 | 78500 | 6000 | 12.0 | 62 | 2-φ54 | 2-φ42 | 875 |

1. Heat exchange calibration: air inlet temp. 25°C, condensation temp. 40°C, temp. difference 15K, refrigerant R404A. Please check the correction factor for the heat exchange under other working conditions.

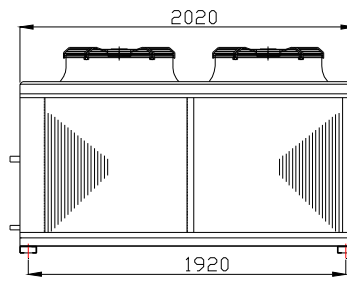
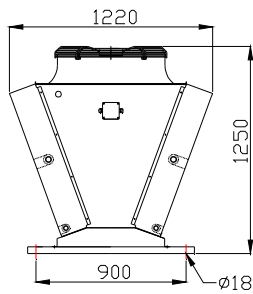
2. The noise is calibrated as the sound pressure value at a distance of 10 meters.

4. Outline and installation dimension:

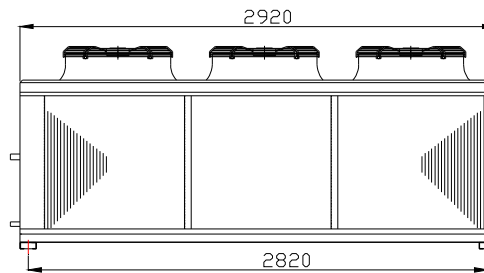
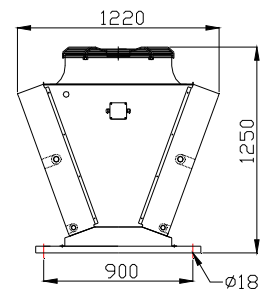
4.1 ϕ 630 fan series



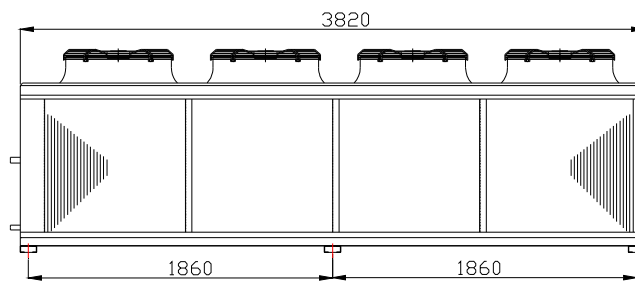
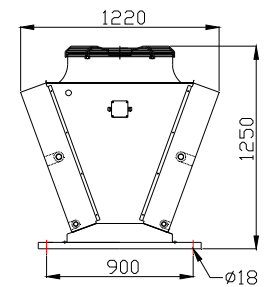
CV6311



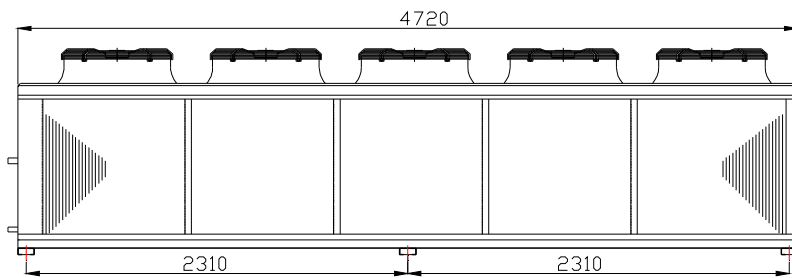
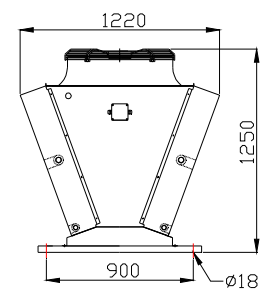
CV6312



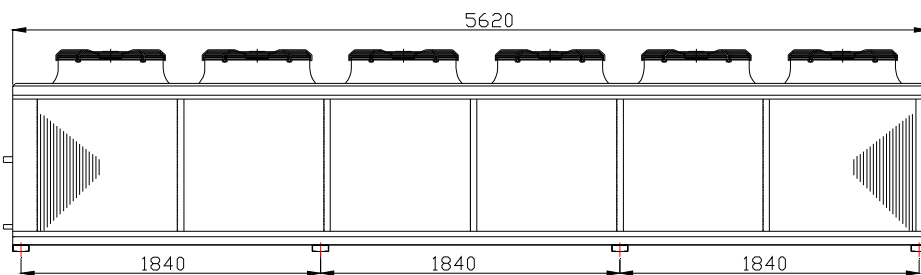
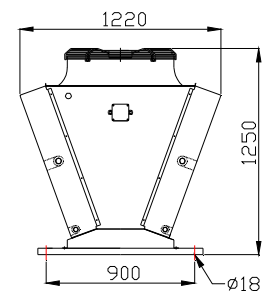
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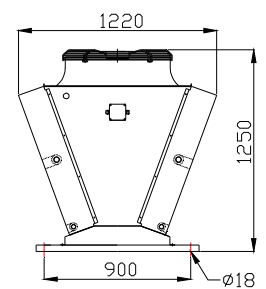
CV6314



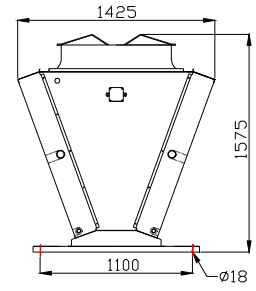
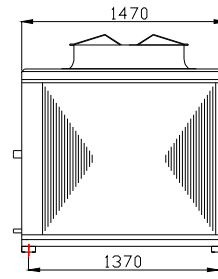
CV6315



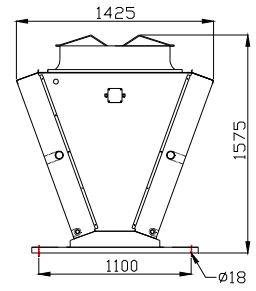
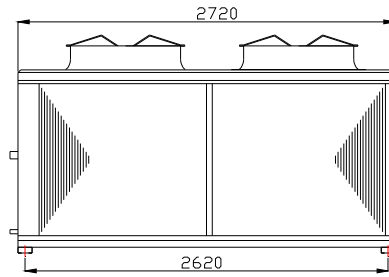
CV6316



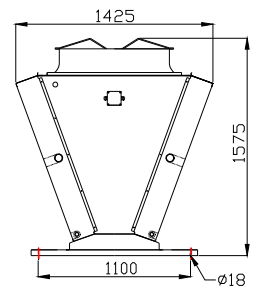
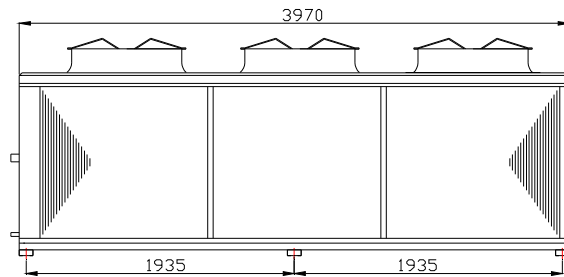
4.2 ϕ 800 fan series



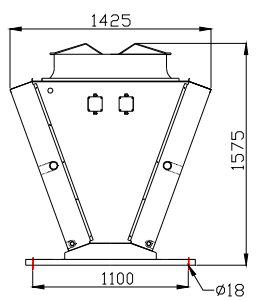
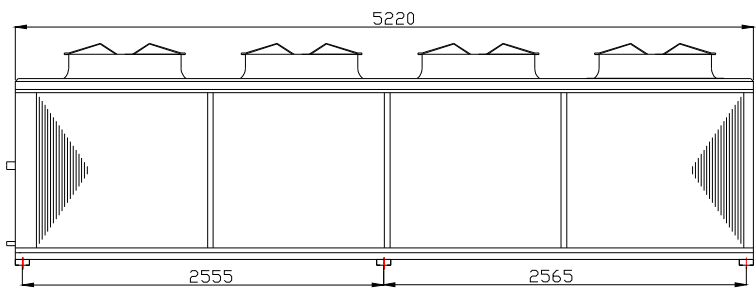
CV8011



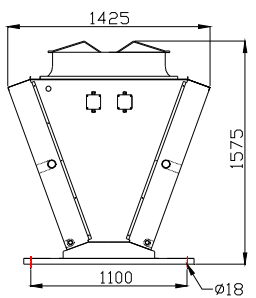
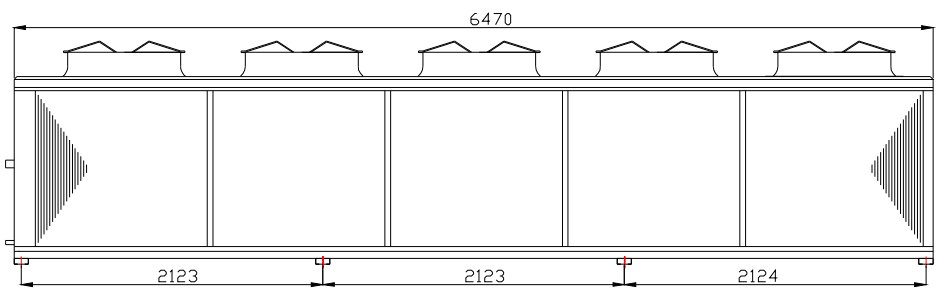
CV8012



CV8013



CV8014



CV8015