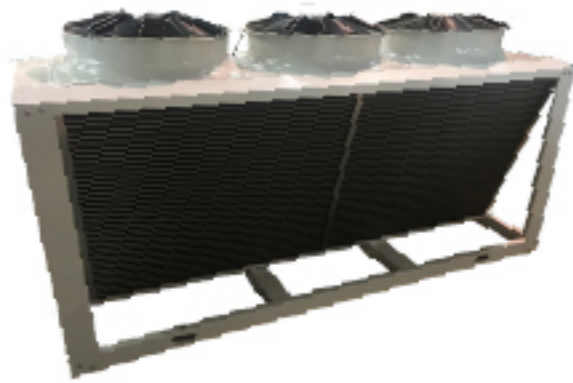


# V-type Condenser



630mm V-type Condenser  
Number of fans: 1 - 3  
Nominal Capacity: 28.2-110.9 kW

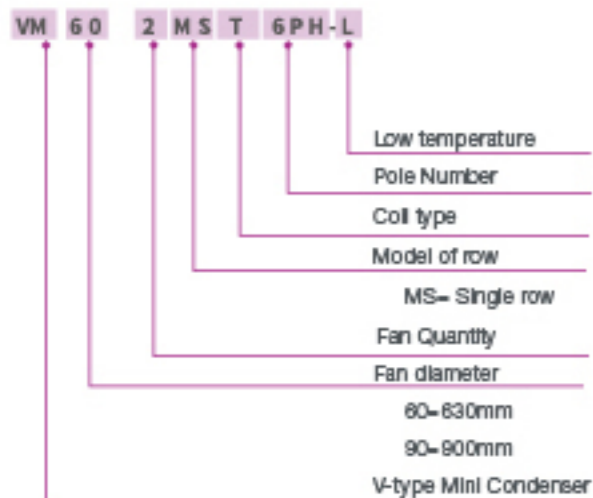


9000mm V-type Condenser  
Number of fans: 2 - 3  
Nominal Capacity: 97-259.7kW

## Customer Value

- Provide Carrier economical overall solution for customer
- Provide low noise models, reducing noise by ~ 10%
- High heat exchange efficiency, energy saving and high efficiency, and reducing operation cost
- Compact structure, small footprint, more flexible to use application scenarios
- Sheet metal parts have long service life after long-lasting corrosion resistance test and
- Smart appearance, convenient for installation and maintenance

## Naming Rule of V-type Condenser



## Product Features

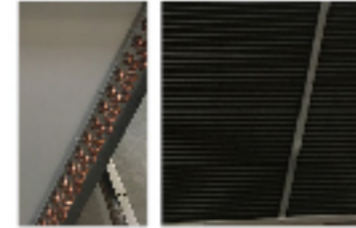
- Fans with thermal prevention devices, long service life and high reliability, easy installation and replacement, low noise
- Efficient copper pipe-fin system - corrugated fins, fine flanged fins covering the entire copper pipes, for a larger heat exchange area and higher heat exchange efficiency
- Surface processed with powder spray to ensure rust protection, after high pressure powder spray double coatings, the fins are easy to clean

## Technical Advantage



### The fan is equipped with an integral stamping streamline air guide

- Streamline air guide can reduce the flow resistance of the fan and increase the air volume at the same time;
- The fan is equipped with thermal protection device, waterproof grade IP54, long service life, high reliability, easy to install and replace, low noise, etc.



### Coil optimized design, and high heat exchange efficiency, meeting customer needs

- The coil design is optimized by the combination of numerical simulation and test;
- The end plate and each welding point are improved by design to reduce the risk of leakage and enhance the reliability of the product;
- High efficiency copper tube fin system - corrugated fin, fin flanging use full flanging to cover copper tube, expand surface area, improve heat exchange efficiency;
- The fins can be anti-corrosion treated according to the customer's application scenarios to improve the product life.



### Carrier's iconic outdoor white, external surface coating treatment

- Spray powder on the surface for more than 400h to prevent the surface from rusting;
- The surface powder spraying treatment before the overall assembly of the whole machine can ensure that every surface can achieve rust prevention. The anti-corrosion adopts high-pressure powder spraying double coating, which is easy to clean.

## Performance Advantages

- EC axial flow fans optional, high energy efficiency;
- The coils are treated for corrosion resistance according to the installation environment, for a longer service life.

Model		VM60 1MST 6PH	VM60 1MSF 4PH	VM60 1MST 8PH	VM60 2MST 6PH	VM60 2MSF 4PH	VM60 2MST 8PH	VM60 3MST 6PH	VM60 3MSF 4PH	VM60 3MST 8PH
Power Supply		380V/3PH/50Hz								
Fan		1 x Ø 630	1 x Ø 630	1 x Ø 630	2 x Ø 630	2 x Ø 630	2 x Ø 630	3 x Ø 630	3 x Ø 630	3 x Ø 630
Wiring		6PH	4PH	8PH	6PH	4PH	8PH	6PH	4PH	8PH
Running Current	A	1*1.25	1*2.5	1*0.67	2*1.25	2*2.5	2*0.67	3*1.25	3*2.5	3*0.67
Input Power	W	520	1325	291	2*520	2*1325	2*291	3*520	3*1325	3*291
Air Volume	m <sup>3</sup> /h	8200	11500	6000	17500	25000	15000	30000	364500	22950
Nominal Capacity *	kW	28.2	42.2	22.1	59.4	84.3	53.1	90.8	110.9	76.4
Sound Pressure Level	dB(A) 10m	38.7	48.5	29.5	41	51.4	32.6	41.8	52.4	33.5
Inlet Pipe	(mm)	28	28	28	28	28	28	28	28	28
Drain Pipe	(mm)	28	28	28	28	28	28	28	28	28
Surface Area	m <sup>2</sup>	90	120	90	180	240	180	260	345	260
Net Weight (without refrigerant)	kg	100	110	100	180	200	180	234	260	234
Dimension	Length [mm]	985	985	985	1788	1788	1788	2528	2528	2528
	Width [mm]	1017	1017	1017	1017	1017	1017	1017	1017	1017
	Height [mm]	1345	1345	1345	1345	1345	1345	1345	1345	1345

Notes:

1) The heat extraction rate work condition: Ambient Temperature 35°C , condensation temperature is 50°C ;

2) The noise was measured at 10m location.

\* Heat extraction rate is based on the condition of condensation temperature of 50°C and heat transfer temperature difference of 15K, and the refrigerant is R404A.

Model		VM80 1MST 6PH-L	VM80 1MSF 4PH-L	VM80 1MST 8PH-L	VM80 2MST 6PH-L	VM80 2MSF 4PH-L	VM80 2MST 8PH-L	VM80 3MST 6PH-L	VM80 3MSF 4PH-L	VM80 3MST 8PH-L
Power Supply		380V/3PH/50Hz								
Fan		1 x Ø 630	1 x Ø 630	1 x Ø 630	2 x Ø 630	2 x Ø 630	2 x Ø 630	3 x Ø 630	3 x Ø 630	3 x Ø 630
Wiring		6PH	4PH	8PH	6PH	4PH	8PH	6PH	4PH	8PH
Running Current	A	1*1.25	1*2.5	1*0.67	2*1.25	2*2.5	2*0.67	3*1.25	3*2.5	3*0.67
Input Power	W	520	1325	291	2*520	2*1325	2*291	3*520	3*1325	3*291
Air Volume	m <sup>3</sup> /h	8200	11500	6000	17500	25000	15000	30000	364500	22950
Nominal Capacity *	kW	28.2	42.2	22.1	59.4	84.3	53.1	90.8	110.9	76.4
Sound Pressure Level	dB(A) 10m	38.7	48.5	29.5	41	51.4	32.6	41.8	52.4	33.5
Inlet Pipe	(mm)	28	28	28	28	28	28	28	28	28
Drain Pipe	(mm)	28	28	28	28	28	28	28	28	28
Surface Area	m <sup>2</sup>	90	120	90	180	240	180	260	345	260
Net Weight (without refrigerant)	kg	100	110	100	180	200	180	234	260	234
Dimension	Length [mm]	985	985	985	1788	1788	1788	2528	2528	2528
	Width [mm]	1017	1017	1017	1017	1017	1017	1017	1017	1017
	Height [mm]	1345	1345	1345	1345	1345	1345	1345	1345	1345

Notes:

1) The heat extraction rate work condition: Ambient Temperature 35°C , condensation temperature is 50°C ;

2) For the area such as Inner Mongolia, Liaoning, Jilin, Heilongjiang, northern Tibet, northern Gansu, northern Qinghai, Sinkiang and etc., where ambient temperature below -20°C , it is better to commend the users to select Low-temperature V-condenser, while other users can determine by requirements.

3) The noise was measured at 10m.

\* Heat extraction rate is based on the condition of condensation temperature of 50°C and heat transfer temperature difference of 15K, and the refrigerant is R404A.

Model		VM90 2MSF 6PH	VM90 2MSF 8PH	VM90 2MSF 12PH	VM90 3MSF 6PH	VM90 3MSF 8PH	VM90 3MSF 12PH
Power Supply		380V/3PH/50Hz					
Fan		2 x Ø 910	2 x Ø 910	2 x Ø 910	3 x Ø 910	3 x Ø 910	3 x Ø 910
Wiring		6PH	8PH	12PH	6PH	8PH	12PH
Running Current	A	2*4.85	2*2.35	2*0.99	3*4.85	3*2.35	3*0.99
Input Power	W	2*2476	2*1065	2*351	3*2476	3*1065	3*351
Air Volume	m <sup>3</sup> /h	51000	39000	25000	78000	61500	36000
Nominal Capacity *	kW	168.5	137.6	97	259.7	217.8	142.9
Sound Pressure Level	dB(A) 10m	61.8	50.6	34.5	63.2	52.5	36.7
Inlet Pipe	(mm)	28	28	28	28	28	28
Drain Pipe	(mm)	28	28	28	28	28	28
Surface Area	m <sup>2</sup>	360	360	360	545	545	545
Net Weight (without refrigerant)	kg	390	390	390	597	597	597
Dimension	Length [mm]	2455	2455	2455	3555	3555	3555
	Width [mm]	1265	1265	1265	1265	1265	1265
	Height [mm]	1450	1450	1450	1450	1450	1450

**Notes:**

Heat extraction rate is based on the condition of ambient temperature of 35°C and condensation temperature of 50°C .