

# OUTDOOR UNIT LINEUP

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# (Super Xi)

8 / 10 / 12HP  
with single fan



14 / 16 / 18HP  
with single fan



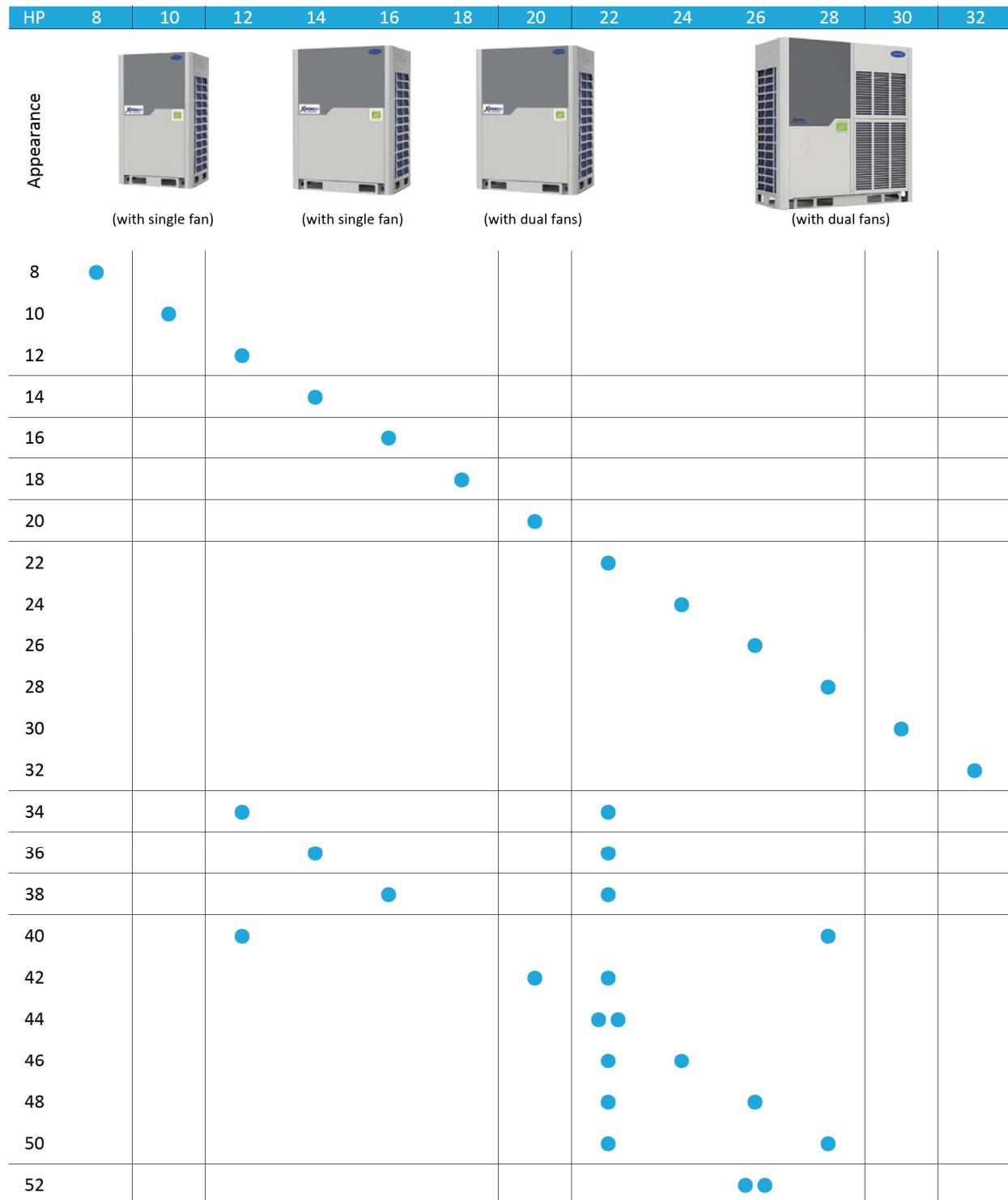
20 / 22HP  
with dual fans



24 / 26 / 28 / 30 / 32HP  
with dual fans



# OUTDOOR UNIT LINEUP



# (Super X)

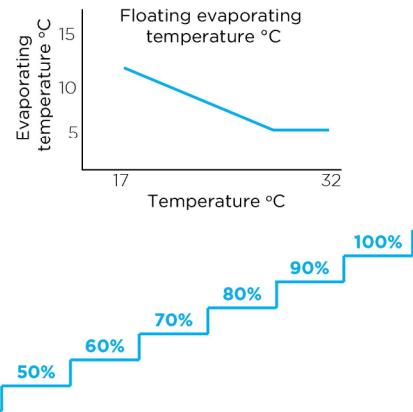
HP	8	10	12	14	16	18	20	22	24	26	28	30	32
Appearance													
	(with single fan)	(with single fan)				(with dual fans)					(with dual fans)		
54										54			
56										56			
58										58			
60										60			
62										62			
64											64		
66			66					66					
68				68				68					
70					70			70					
72		72						72					
74						74		74					
76							76	76					
78							78		78				
80							80		80				
82							82		82				
84									84	84			
86									86				
88									88	88			
90									90				
92									92			92	
94									94			94	
96										96	96	96	

# 3 Unique Innovations

## Energy Management System (EMS)

- Floating refrigerant temperature to balance comfort and efficiency

The evaporating temperature (in cooling) and condensing temperature (in heating) are automatically adjusted according to both indoor and outdoor temperature to maximize the comfort and energy efficiency.

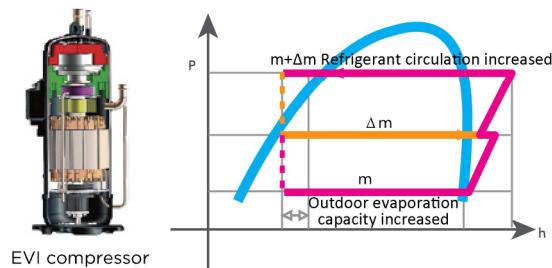


- Output limitation during electricity supply restrictions

With the integration of EMS, for projects with temporary electricity supply restrictions, Super X can be set to output 40-100% capacity.

## Enhanced Vapor Injection (EVI) Compressor

Thanks to the vapor injection DC inverter compressor, the Super X VRF can run heating mode stably down to -23°C, and the heating capacity can be improved greatly.



## Triple Configurations

Triple (local/remote/network) configurations greatly simplified installation, commissioning and servicing.

- Field local configuration achieves quick and easy on-site settings, simplifies installation and commissioning.

- System checking and settings also can be easily achieved via wired and centralized controller, making the configuration more flexible and convenient.

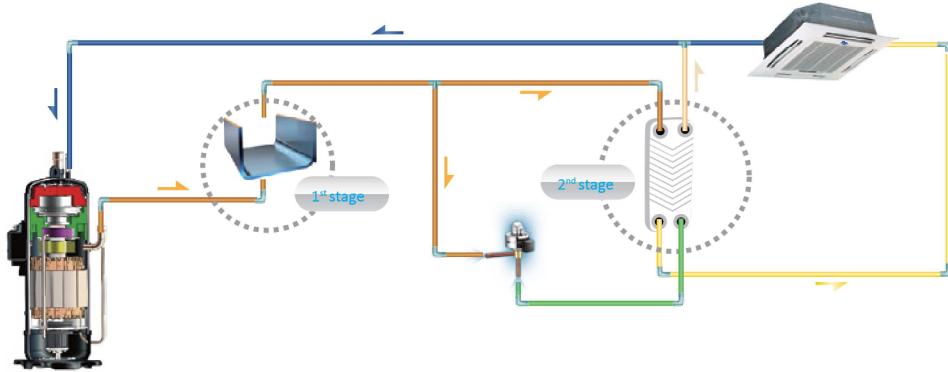
- A desktop or laptop PC can be used for browser-based access to achieve system configurations through IMM Pro gateway via a LAN connection.



# High Efficiency

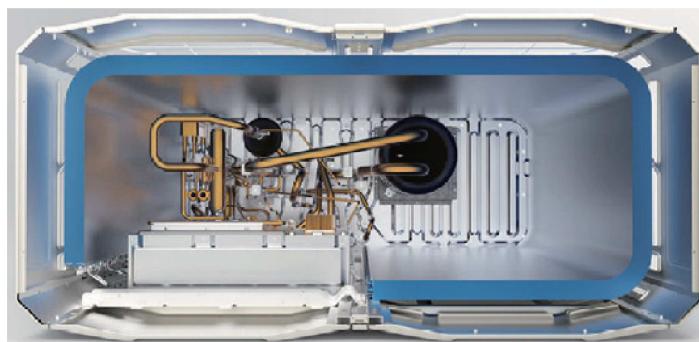
## Plate Heat Exchanger (PHE) Subcooling

Plate Heat Exchanger as a secondary intercooler boosts up refrigerant subcooling and improves 10% energy efficiency.



## High Efficiency G-Type Heat Exchanger

24-32HP units use a high efficiency 3-row G-type heat exchanger with a heat exchange area 1.5 times that of the 22HP unit. The 24-32HP units also use super big size fan which diameter is up to 750mm.



3-rows G-type heat exchanger

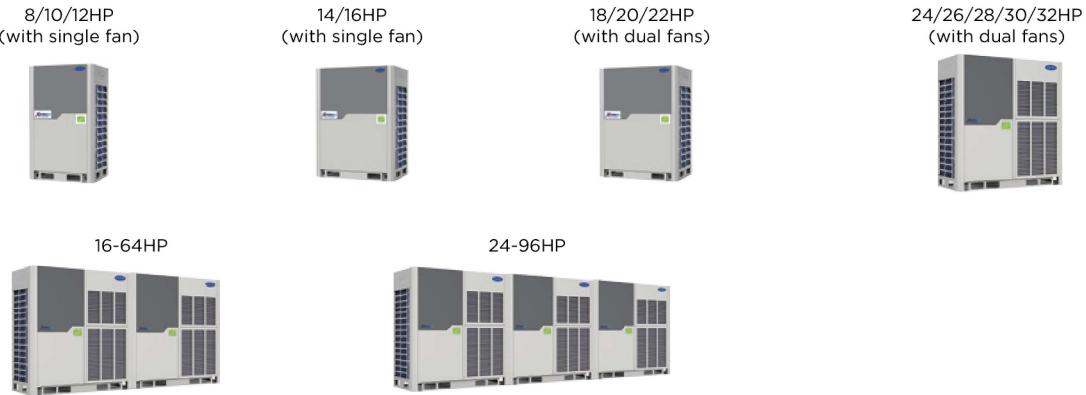


Super big size fan

# Wide Application Range

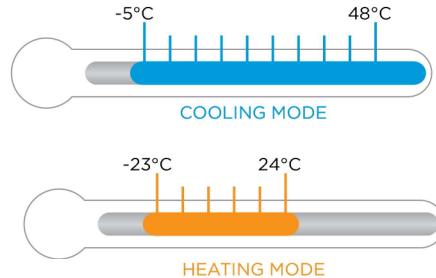
## Wide Capacity Range

Starting at 8HP, capacity increases in 2HP increments up to 96HP, which is the world's largest single-system VRF capacity.(Super X)



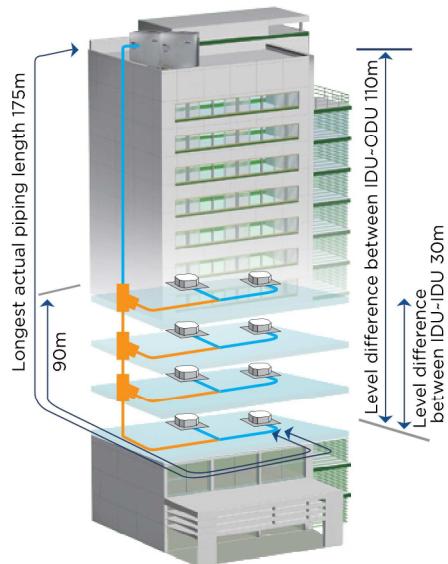
## Wide Operation Range

The Super X VRF can operate stably in a wide ambient temperature range: from -5°C to 48°C in cooling mode and from -23°C to 24°C in heating mode.



## Long Piping Capability

- Total piping length: 1000m
- Longest piping length – actual (equivalent): 175m (200m)
- Longest piping length after first branch: 90m
- Level difference between IDUs and ODU – ODU above (below): 90m (110m)
- Level difference between IDUs: 30m



# High Reliability

## Duty Cycling

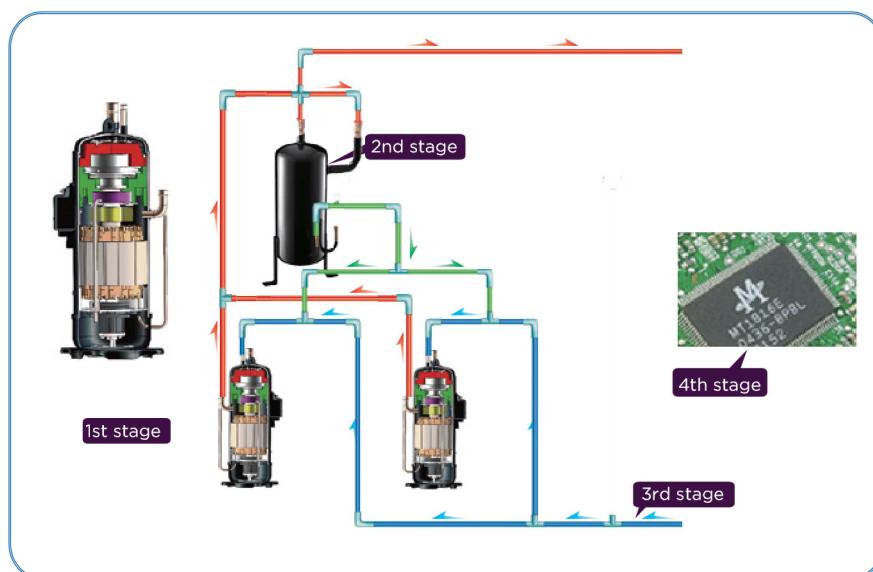
Duty cycling equalizes the running time of the outdoor units in a multiple-unit system and of the compressors in each unit, significantly extending compressor lifespan.(Super X)

1<sup>st</sup> cycle2<sup>nd</sup> cycle3<sup>rd</sup> cycle

## Precise Oil Control Technology

Four stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.

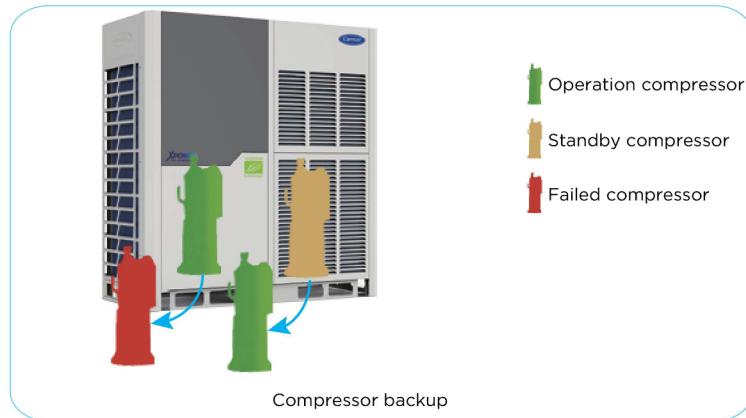
- Compressor internal oil separation.
- High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.
- Oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.
- Auto oil return program monitors the running time and system status to ensure reliable oil return.



# High Reliability

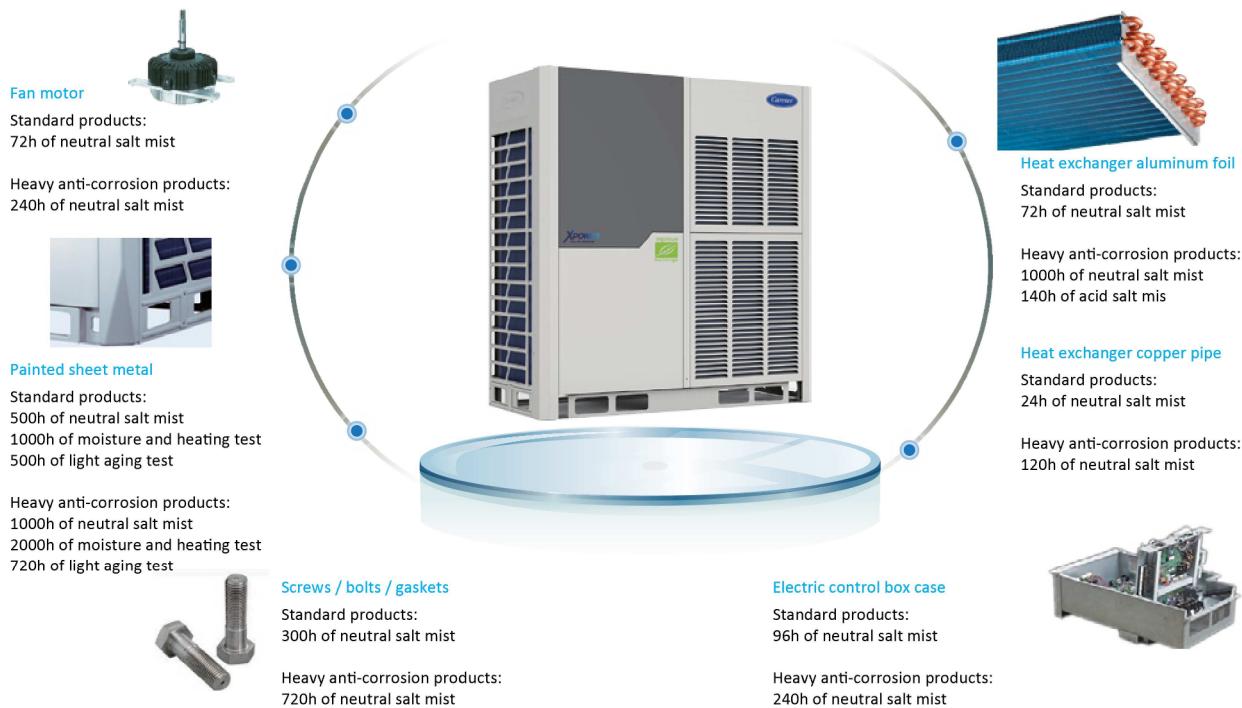
## Backup Operation

In units with two compressors, if one compressor fails, the other compressor can run on its own for up to 4 days, allowing time for maintenance or repair whilst maintaining comfort.



## Anti-corrosion Protection

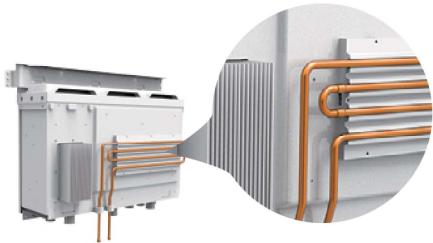
Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life. The integrity of the anti-corrosion treatment is ensured by subjecting major components and parts to salt mist testing, moisture and heating testing and light aging testing.



# High Reliability

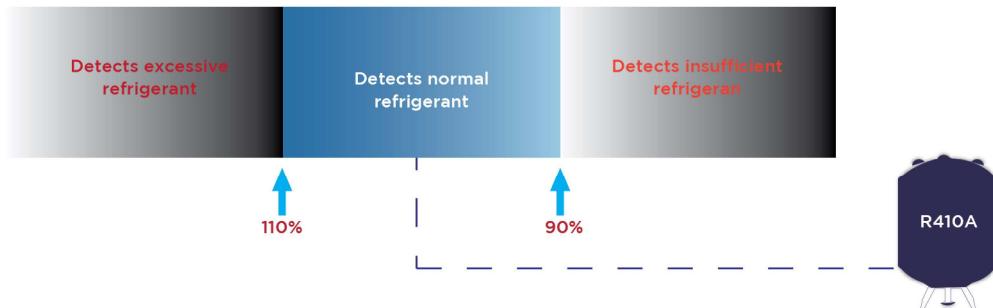
## Refrigerant Cooling PCB

The Super X VRF uses refrigerant cooling technology to cool the electric control box. It decreases the average temperature of electrical control components by about 8 degrees, guaranteeing the stable and safe running of the control system.



## Real-time Refrigerant Amount Monitoring

The temperature and pressure of refrigerant can be real-time monitored by the outdoor unit. When the level of refrigerant is too low or too high, this can cause damage to the unit and poor performance. Super X outdoor unit can detect excessive or insufficient amounts of refrigerant, to ensure consistent performance.



## Auto Snow-blowing Function\*

The innovatively designed auto snow-blowing function enables the outdoor unit to prevent the accumulation of snow by itself.

\*This function is available as a customization option.



## Dust-clean function\*

The innovatively designed dust-clean function enables the outdoor unit to prevent the dust by itself.

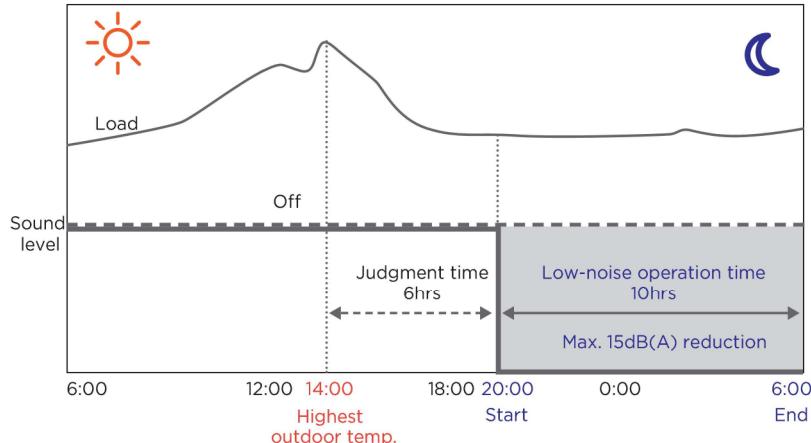
\*This function is available as a customization option.



# Enhanced Comfort

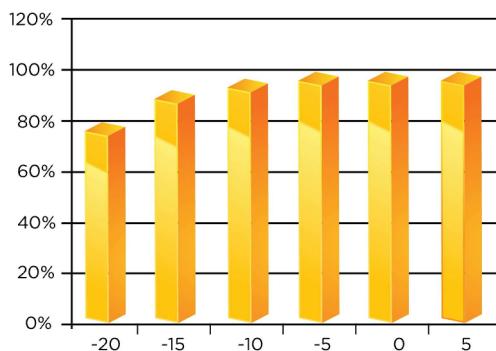
## Night Silent Mode

The night silent mode feature, which is easily configured on the outdoor unit's PCB, includes various scheduling options that can be used to reduce noise levels at times when low noise operation is required.



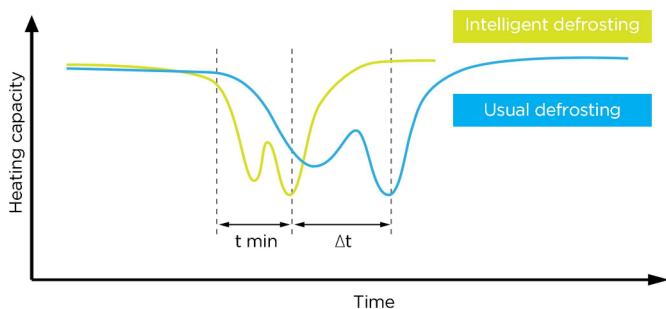
## Enhanced Heating Capacity

Heating capacity is 100% of rated capacity at ambient temperatures as low as -5°C and 90% of rated capacity at -15°C.



## Intelligent Defrosting Technology

The intelligent defrosting program calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting. A specialized defrosting valve reduces time required for defrosting to as little as four minutes.

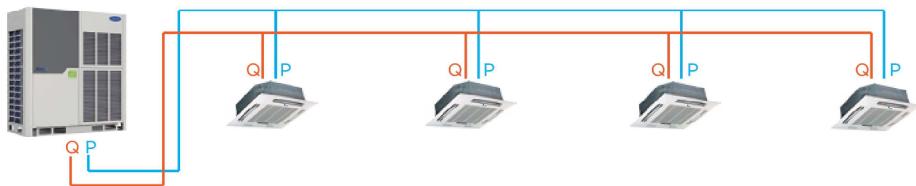


# Easy Installation and Service

## Non-polarized Communication Wiring\*

Only one chain of 2-core non-polarized shielded communication wiring required for indoor and outdoor unit communication.

\*In installations where relatively strong electromagnetic fields are present, 3-core shielded wiring should be used in order to prevent interference.



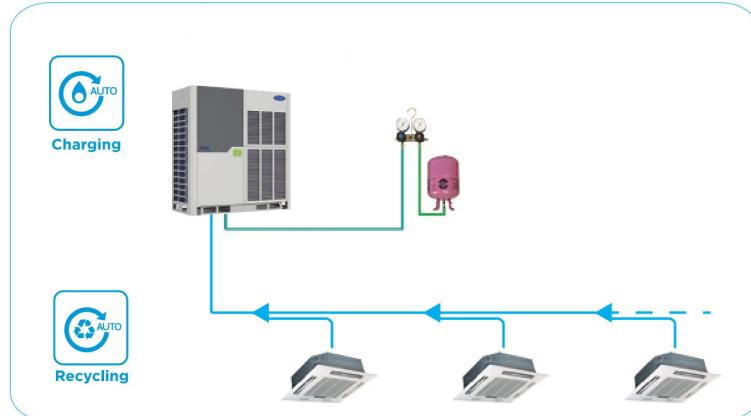
## Auto Addressing

Outdoor units can distribute addresses to indoor units automatically. Remote and wired controllers can be used to query or modify each indoor unit's address.

## Automatic Refrigerant Charging/Recycling Function\*

Automatic refrigerant charging and recycling make installation and service easier and more efficient.

\*This function is available as a customization option.



## Optional Multifunctional PCB

An optional multifunctional small PCB can be installed on the unit's side columns, enabling installation and service engineers to activate Auto-commissioning or check the operating status without removing the front panel. It can also perform automatic data backup of the last 30 minutes' operating record.



# Specifications(Super Xi)



Capacity		HP	8	10	12
Model			38VF008H119011-E	38VF010H119011-E	38VF012H119011-E
Power supply		V/Ph/Hz		380-415/3/50	
Cooling <sup>1</sup>	Capacity	kW	25.2	28	33.5
		kBtu/h	86	95.5	114.3
	Power input	kW	5.5	6.7	8.9
	EER		4.55	4.2	3.75
Heating <sup>2</sup>	Capacity	kW	25.2	1	33.5
		kBtu/h	86	95.5	114.3
	Power input	kW	4.8	5.5	7.6
	COP		5.2	5.1	4.4
Connected indoor unit		Total capacity	50-130% of outdoor unit capacity		
		Maximum quantity	13	16	20
Compressors		Type	DC inverter		
		Quantity	1		
Fan motors		Type	DC		
		Quantity	1		
Refrigerant		Max. ESP	Pa	20 Default; 60 Customization Option	
		Type		R410A	
		Factory charge	kg	11	
Pipe connections <sup>3</sup>	Liquid pipe	mm	Φ12.7		Φ15.9
	Gas pipe	mm	Φ25.4		Φ28.6
Airflow rate		m <sup>3</sup> /h	11000		
Sound pressure level <sup>4</sup>		dB(A)	58	58	60
Net dimensions (W×H×D)		mm	990×1635×790		
Packed dimensions (W×H×D)		mm	1090×1805×860		
Net weight		kg	227		
Gross weight		kg	242		
Ambient temp. operating range	Cooling	°C	-5 to 48		
	Heating	°C	-23 to 24		



Capacity		HP	14	16	18		
Model			38VF014H119011-E	38VF016H119011-E	38VF018H119011-E		
Power supply		V/Ph/Hz	380-415/3/50				
Cooling <sup>1</sup>	Capacity	kW	40	45	50		
		kBtu/h	136.5	153.5	170.6		
	Power input	kW	11	12.9	14.7		
	EER		3.65	3.5	3.4		
Heating <sup>2</sup>	Capacity	kW	40	45	50		
		kBtu/h	136.5	153.5	170.6		
	Power input	kW	9.3	10.7	12.2		
	COP		4.3	4.2	4.1		
Connected indoor unit		Total capacity	50-130% of outdoor unit capacity				
		Maximum quantity	23	26	29		
Compressors		Type	DC inverter				
		Quantity	1				
Fan motors		Type	DC				
		Quantity	1				
Refrigerant		Max. ESP	Pa	20 Default; 60 Customization Option			
		Type		R410A			
		Factory charge	kg	13			
Pipe connections <sup>3</sup>	Liquid pipe	mm	Φ15.9		Φ19.1		
	Gas pipe	mm	Φ31.8				
Airflow rate		m <sup>3</sup> /h	13000				
Sound pressure level <sup>4</sup>		dB(A)	60	61	62		
Net dimensions (W×H×D)		mm	1340×1635×825				
Packed dimensions (W×H×D)		mm	1405×1805×910				
Net weight		kg	282	300			
Gross weight		kg	311	329			
Ambient temp. operating range	Cooling	°C	-5 to 48				
	Heating	°C	-23 to 24				

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

# Specifications(Super Xi)



Capacity	HP	20	22
Model		38VF020H119011-E	38VF022H119011-E
Power supply	V/Ph/Hz	380-415/3/50	
Cooling <sup>1</sup>	Capacity	kW	56
		kBtu/h	191.1
	Power input	kW	16
Heating <sup>2</sup>	EER		3.5
	Capacity	kW	56
		kBtu/h	191.1
	Power input	kW	13.8
COP		4.05	3.5
Connected indoor unit	Total capacity	50-130% of outdoor unit capacity	
	Maximum quantity	33	36
Compressors	Type	DC inverter	
	Quantity	2	
Fan motors	Type	DC	
	Quantity	2	
	Max. ESP	Pa	20 Default; 60 Customization Option
Refrigerant	Type	R410A	
	Factory charge	kg	17
Pipe connections <sup>3</sup>	Liquid pipe	mm	Φ19.1
	Gas pipe	mm	Φ31.8
Airflow rate	m <sup>3</sup> /h	17000	
Sound pressure level <sup>4</sup>	dB(A)	63	
Net dimensions (W×H×D)	mm	1340×1635×790	
Packed dimensions (W×H×D)	mm	1405×1805×910	
Net weight	kg	348	
Gross weight	kg	371	
Ambient temp. operating range	Cooling	°C	-5 to 48
	Heating	°C	-23 to 24



Capacity	HP	24	26	28	30	32
Model		38VF024H119011-E	38VF026H119011-E	38VF028H119011-E	38VF030H119011-E	38VF032H119011-E
Power supply	V/Ph/Hz	380-415/3/50				
Cooling <sup>1</sup>	Capacity	kW	67	73	78.5	85
		kBtu/h	228.6	249.1	267.8	290
	Power input	kW	21.6	21.6	24.9	28.3
Heating <sup>2</sup>	EER		3.1	3.4	3.15	2.8
	Capacity	kW	67	73	78.5	85
		kBtu/h	228.6	249.1	267.8	290
	Power input	kW	16.8	18.1	21.8	24.3
Connected indoor unit	COP		4	4.05	3.6	3.5
	Total capacity	50-130% of outdoor unit capacity				
	Maximum quantity	39	43	46	50	53
	Compressors	Type	DC inverter			
Fan motors	Quantity		2			
	Type		DC			
	Quantity		2			
Refrigerant	Max. ESP	Pa	20 Default; 60 Customization Option			
	Type		R410A			
Pipe connections <sup>3</sup>	Factory charge	kg	22		25	
	Liquid pipe	mm	Φ19.1	Φ22.2		Φ38.1
Airflow rate	m <sup>3</sup> /h	25000		24000		
Sound pressure level <sup>4</sup>	dB(A)	64				
Net dimensions (W×H×D)	mm	1730×1830×825				
Packed dimensions (W×H×D)	mm	1800×2000×910				
Net weight	kg	412	434		480	
Gross weight	kg	435	457		512	
Ambient temp. operating range	Cooling	°C	-5 to 48			
	Heating	°C	-23 to 24			

## Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

# Specifications(Super X)



Capacity	HP	8	10	12	14
Model		38VF008H119016-E	38VF010H119016-E	38VF012H119016-E	38VF014H119016-E
Power supply	V/Ph/Hz		380-415/3/50		
Cooling <sup>1</sup>	Capacity	kW	25.2	28.0	33.5
		kBtu/h	86.0	95.5	114.3
	Power input	kW	5.3	6.3	8.7
Heating <sup>2</sup>	EER	kW/kW	4.75	4.45	3.85
	Capacity	kW	25.2	28.0	33.5
		kBtu/h	86.0	95.5	114.3
Connectable	Power input	kW	4.6	5.2	6.6
	COP	kW/kW	5.50	5.40	5.10
	Total capacity		50-130% of outdoor unit capacity		
Indoor Unit	Max. quantity	13	16	20	23
Compressors	Type		DC inverter		
	Quantity		1		
Fan motors	Type		DC		
	Quantity		1		
Refrigerant	Max. ESP	Pa	20 default; 60 customization option		
	Type		R410A		
	Factory charge	kg	11		13
Pipe connections <sup>3</sup>	Liquid pipe	mm	Φ12.7	Φ15.9	Φ15.9
	Gas pipe	mm	Φ25.4	Φ28.6	Φ31.8
Airflow rate	m <sup>3</sup> /h		11000		13000
Sound pressure level <sup>4</sup>	dB(A)	58		60	
Net dimensions (WxHxD)	mm	990×1635×790			1340×1635×825
Packed dimensions (WxHxD)	mm	1090×1805×860			1405×1805×910
Net weight	kg	227			282
Gross weight	kg	242			311
Ambient temp. operating range	Cooling	°C	-5 to 48		
	Heating	°C	-23 to 24		



Capacity	HP	16	18	20	22
Model		38VF016H119016-E	38VF018H119016-E	38VF020H119016-E	38VF022H119016-E
Power supply	V/Ph/Hz		380-415/3/50		
Cooling <sup>1</sup>	Capacity	kW	45.0	50.0	56.0
		kBtu/h	153.5	170.6	191.1
	Power input	kW	12.0	12.5	15.1
Heating <sup>2</sup>	EER	kW/kW	3.75	4.00	3.70
	Capacity	kW	45.0	50.0	56.0
		kBtu/h	153.5	170.6	191.1
Connectable	Power input	kW	9.8	10.6	12.7
	COP	kW/kW	4.60	4.70	4.40
	Total capacity		50-130% of outdoor unit capacity		
Indoor Unit	Max. quantity	26	29	33	36
Compressors	Type		DC inverter		
	Quantity	1		2	
Fan motors	Type		DC		
	Quantity	1		2	
Refrigerant	Max. ESP	Pa	20 default; 60 customization option		
	Type		R410A		
	Factory charge	kg	13		17
Pipe connections <sup>3</sup>	Liquid pipe	mm	Φ15.9		Φ19.1
	Gas pipe	mm	Φ31.8		Φ31.8
Airflow rate	m <sup>3</sup> /h	13000		17000	
Sound pressure level <sup>4</sup>	dB(A)	61	62		63
Net dimensions (WxHxD)	mm	1340×1635×825		1340×1635×790	
Packed dimensions (WxHxD)	mm		1405×1805×910		
Net weight	kg	282		352	
Gross weight	kg	311		375	
Ambient temp. operating range	Cooling	°C	-5 to 48		
	Heating	°C	-23 to 24		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

# Specifications(Super X)



Capacity	HP	24	26	28
Model		38VF024H119016-E	38VF026H119016-E	38VF028H119016-E
Power supply	V/Ph/Hz		380-415/3/50	
Cooling <sup>1</sup>	Capacity	kW	67.0	73.0
		kBtu/h	228.6	249.1
	Power input	kW	18.1	20.9
Heating <sup>2</sup>	EER	kW/kW	3.70	3.49
	Capacity	kW	67.0	73.0
		kBtu/h	228.6	249.1
Fan motors	Power input	kW	14.9	17.6
	COP	kW/kW	4.50	4.15
				3.80
Connectable	Total capacity		50-130% of outdoor unit capacity	
Indoor Unit	Max. quantity	39	43	46
Compressors	Type		DC inverter	
	Quantity		2	
Fan motors	Type		DC	
	Quantity		2	
	Max. ESP	Pa		20 default; 60 customization option
Refrigerant	Type		R410A	
	Factory charge	kg	22	
Pipe connections <sup>3</sup>	Liquid pipe	mm	Φ19.1	Φ22.2
	Gas pipe	mm	Φ31.8	Φ31.8
Airflow rate	m <sup>3</sup> /h		25000	
Sound pressure level <sup>4</sup>	dB(A)		64	
Net dimensions (WxHxD)	mm		1730 × 1830 × 825	
Packed dimensions (WxHxD)	mm		1800×2000×910	
Net weight	kg		435	
Gross weight	kg		458	
Ambient temp.	Cooling	°C	-5 to 48	
operating range	Heating	°C	-23 to 24	



Capacity	HP	30	32
Model		38VF030H119016-E	38VF032H119016-E
Power supply	V/Ph/Hz		380-415/3/50
Cooling <sup>1</sup>	Capacity	kW	85.0
		kBtu/h	290.0
	Power input	kW	27.4
Heating <sup>2</sup>	EER	kW/kW	3.10
	Capacity	kW	85.0
		kBtu/h	290.0
Fan motors	Power input	kW	23.0
	COP	kW/kW	3.70
			3.50
Connectable	Total capacity		50-130% of outdoor unit capacity
Indoor Unit	Max. quantity	50	53
Compressors	Type		DC inverter
	Quantity		2
Fan motors	Type		DC
	Quantity		2
	Max. ESP	Pa	20 default; 60 customization option
Refrigerant	Type		R410A
	Factory charge	kg	25
Pipe connections <sup>3</sup>	Liquid pipe	mm	Φ22.2
	Gas pipe	mm	Φ38.1
Airflow rate	m <sup>3</sup> /h		24000
Sound pressure level <sup>4</sup>	dB(A)		64
Net dimensions (WxHxD)	mm		1730 × 1830 × 825
Packed dimensions (WxHxD)	mm		1800×2000×910
Net weight	kg		480
Gross weight	kg		512
Ambient temp.	Cooling	°C	-5 to 48
operating range	Heating	°C	-23 to 24

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

# Specifications(Super X)



Capacity	HP	34	36	38	40
Model		38VF034H119016-E	38VF036H119016-E	38VF038H119016-E	38VF040H119016-E
Combination type		12HP+22HP	14HP+22HP	16HP+22HP	12HP+28HP
Power supply	V/Ph/Hz		380-415/3/50		
Cooling <sup>1</sup>	Capacity	kW	95.0	101.5	106.5
		kBtu/h	324.1	346.3	363.4
	Power input	kW	27.1	28.2	30.4
Heating <sup>2</sup>	EER	kW/kW	3.51	3.59	3.51
	Capacity	kW	95.0	101.5	106.5
		kBtu/h	324.1	346.3	363.4
Fan motors	Power input	kW	21.6	23.5	24.8
	COP	kW/kW	4.40	4.32	4.30
	Quantity				4.11
Connectable	Total capacity		50-130% of outdoor unit capacity		
Indoor Unit	Max. quantity	56	59	63	64
Compressors	Type		DC inverter		
Fan motors	Quantity		3		
	Type		DC		
	Quantity		3		
Refrigerant	Max. ESP	Pa		20 default; 60 customization option	
	Type			R410A	
	Factory charge	kg	11+17	13+17	11+22
Pipe connections <sup>3</sup>	Liquid pipe	mm	Φ19.1		Φ19.1
	Gas pipe	mm	Φ31.8		Φ38.1
	Airflow rate	m <sup>3</sup> /h	28000	30000	36000
Sound pressure level <sup>4</sup>	dB(A)		65		
Net dimensions (WxHxD)	mm	(990×1635×790)+(1340×1635×790)	(1340×1635×825)+(1340×1635×790)	(990×1635×790)+(1730×1830×825)	
Packed dimensions (WxHxD)	mm	(1090×1805×860)+(1405×1805×910)	(1405×1805×910)×2	(1090×1805×860)+(1800×2000×910)	
Net weight	kg	227+352	282+352	227+435	
Gross weight	kg	242+375	311+375	242+458	
Ambient temp. operating range	Cooling	°C	-5 to 48		
	Heating	°C	-23 to 24		



Capacity	HP	42	44	46	48
Model		38VF042H119016-E	38VF044H119016-E	38VF046H119016-E	38VF048H119016-E
Combination type		20HP+22HP	22HP+22HP	22HP+24HP	22HP+26HP
Power supply	V/Ph/Hz		380-415/3/50		
Cooling <sup>1</sup>	Capacity	kW	117.5	123.0	128.5
		kBtu/h	400.9	419.7	438.4
	Power input	kW	33.5	36.7	36.5
Heating <sup>2</sup>	EER	kW/kW	3.51	3.35	3.52
	Capacity	kW	117.5	123.0	128.5
		kBtu/h	400.9	419.7	438.4
Fan motors	Power input	kW	27.7	30.0	29.9
	COP	kW/kW	4.24	4.10	4.30
	Quantity				4.13
Connectable	Total capacity		50-130% of outdoor unit capacity		
Indoor Unit	Max. quantity		64		
Compressors	Type		DC inverter		
Fan motors	Quantity		4		
	Type		DC		
	Quantity		4		
Refrigerant	Max. ESP	Pa		20 default; 60 customization option	
	Type			R410A	
	Factory charge	kg	17×2		17+22
Pipe connections <sup>3</sup>	Liquid pipe	mm		Φ19.1	
	Gas pipe	mm		Φ38.1	
	Airflow rate	m <sup>3</sup> /h	34000		42000
Sound pressure level <sup>4</sup>	dB(A)		66		
Net dimensions (WxHxD)	mm	(1340×1635×790)×2	(1340×1635×790)+(1730×1830×825)		
Packed dimensions (WxHxD)	mm	(1405×1805×910)×2	(1405×1805×910)+(1800×2000×910)		
Net weight	kg	352×2		352+435	
Gross weight	kg	375×2		375+458	
Ambient temp. operating range	Cooling	°C	-5 to 48		
	Heating	°C	-23 to 24		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

# Specifications(Super X)



Capacity	HP	50	52	54	56
Model		38VF050H119016-E	38VF052H119016-E	38VF054H119016-E	38VF056H119016-E
Combination type		22HP+28HP	26HP+26HP	26HP+28HP	28HP+28HP
Power supply	V/Ph/Hz		380-415/3/50		
Cooling <sup>1</sup>	Capacity	kW	140.0	146.0	151.5
		kBtu/h	477.7	498.2	516.9
	Power input	kW	42.5	41.8	45.1
Heating <sup>2</sup>	Capacity	kW	140.0	146.0	151.5
		kBtu/h	477.7	498.2	516.9
	Power input	kW	35.7	35.2	38.3
COP	kW/kW		3.93	4.15	3.96
Connectable	Total capacity		50-130% of outdoor unit capacity		
Indoor Unit	Max. quantity		64		
Compressors	Type		DC inverter		
	Quantity		4		
Fan motors	Type		DC		
	Quantity		4		
	Max. ESP	Pa		20 default; 60 customization option	
Refrigerant	Type			R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	17+22	22×2	
	Liquid pipe	mm		Φ19.1	Φ19.1
Gas pipe	mm			Φ38.1	Φ41.3
	Airflow rate	m <sup>3</sup> /h	42000	50000	
Sound pressure level <sup>4</sup>	dB(A)		66		
Net dimensions (WxHxD)	mm	(1340×1635×790)+(1730×1830×825)		(1730×1830×825)×2	
Packed dimensions (WxHxD)	mm	(1405×1805×910)+(1800×2000×910)		(1800×2000×910)×2	
Net weight	kg	352+435		435×2	
Gross weight	kg	375+458		458×2	
Ambient temp. operating range	Cooling	°C		-5 to 48	
	Heating	°C		-23 to 24	



Capacity	HP	58	60	62	64
Model		38VF058H119016-E	38VF060H119016-E	38VF062H119016-E	38VF064H119016-E
Combination type		28HP+30HP	28HP+32HP	30HP+32HP	32HP+32HP
Power supply	V/Ph/Hz		380-415/3/50		
Cooling <sup>1</sup>	Capacity	kW	163.5	168.5	175.0
		kBtu/h	557.9	574.9	597.1
	Power input	kW	51.6	55.2	58.5
Heating <sup>2</sup>	Capacity	kW	163.5	168.5	175.0
		kBtu/h	557.9	574.9	597.1
	Power input	kW	43.6	46.4	48.7
COP	kW/kW		3.75	3.63	3.59
Connectable	Total capacity		50-130% of outdoor unit capacity		
Indoor Unit	Max. quantity		64		
Compressors	Type		DC inverter		
	Quantity		4		
Fan motors	Type		DC		
	Quantity		4		
	Max. ESP	Pa		20 default; 60 customization option	
Refrigerant	Type			R410A	
Pipe connections <sup>3</sup>	Factory charge	kg	22+25	25×2	
	Liquid pipe	mm		Φ19.1	
Gas pipe	mm			Φ41.3	
	Airflow rate	m <sup>3</sup> /h	49000	48000	
Sound pressure level <sup>4</sup>	dB(A)		66		
Net dimensions (WxHxD)	mm		(1730×1830×825)×2		
Packed dimensions (WxHxD)	mm		(1800×2000×910)×2		
Net weight	kg	435+480		480×2	
Gross weight	kg	458+512		512×2	
Ambient temp. operating range	Cooling	°C		-5 to 48	
	Heating	°C		-23 to 24	

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

# Specifications(Super X)



Capacity	HP	66	68	70	72
Model		38VF066H119016-E	38VF068H119016-E	38VF070H119016-E	38VF072H119016-E
Combination type		12HP+22HP+32HP	14HP+22HP+32HP	16HP+22HP+32HP	12HP+28HP+32HP
Power supply	V/Ph/Hz		380-415/3/50		
Cooling <sup>1</sup>	Capacity	kW	185.0	191.5	196.5
		kBtu/h	631.2	653.4	670.5
	Power input	kW	58.1	59.3	61.4
	EER	kW/kW	3.18	3.23	3.20
Heating <sup>2</sup>	Capacity	kW	185.0	191.5	196.5
		kBtu/h	631.2	653.4	670.5
	Power input	kW	47.3	49.2	50.5
	COP	kW/kW	3.91	3.89	3.82
Connectable	Total capacity		50-130% of outdoor unit capacity		
Indoor Unit	Max. quantity		64		
Compressors	Type		DC inverter		
Fan motors	Quantity		5		
	Type		DC		
	Quantity		5		
Max. ESP	Pa		20 default; 60 customization option		
Refrigerant	Type		R410A		
Pipe connections <sup>3</sup>	Factory charge	kg	11+17+25	13+17+25	11+22+25
	Liquid pipe	mm	Φ19.1	Φ22.2	
Airflow rate	Gas pipe	mm	Φ41.3	Φ44.5	
	m <sup>3</sup> /h		52000	54000	60000
Sound pressure level <sup>4</sup>	dB(A)		67		
Net dimensions (WxHxD)	mm	(990×1635×790)+(1340×1635×790)+(1730×1830×825)	(1340×1635×825)+(1340×1635×790)+(1730×1830×825)	(990×1635×790)+(1730×1830×825)×2	
Packed dimensions (WxHxD)	mm	(1090×1805×860)+(1405×1805×910)+(1800×2000×910)	(1405×1805×910)×2+(1800×2000×910)	(1090×1805×860)+(1800×2000×910)×2	
Net weight	kg	227+348+475	277+348+475	227+430+475	
Gross weight	kg	242+368+507	304+368+507	242+453+507	
Ambient temp. operating range	Cooling	°C	-5 to 48		
	Heating	°C	-23 to 24		



Capacity	HP	74	76	78	80
Model		38VF074H119016-E	38VF076H119016-E	38VF078H119016-E	38VF080H119016-E
Combination type		20HP+22HP+32HP	22HP+22HP+32HP	22HP+24HP+32HP	22HP+26HP+32HP
Power supply	V/Ph/Hz		380-415/3/50		
Cooling <sup>1</sup>	Capacity	kW	207.5	213.0	218.5
		kBtu/h	708.0	726.8	745.5
	Power input	kW	64.5	67.8	67.5
	EER	kW/kW	3.22	3.14	3.24
Heating <sup>2</sup>	Capacity	kW	207.5	213.0	218.5
		kBtu/h	708.0	726.8	745.5
	Power input	kW	53.4	55.7	55.6
	COP	kW/kW	3.88	3.82	3.93
Connectable	Total capacity		50-130% of outdoor unit capacity		
Indoor Unit	Max. quantity		64		
Compressors	Type		DC inverter		
Fan motors	Quantity		6		
	Type		DC		
	Quantity		6		
Max. ESP	Pa		20 default; 60 customization option		
Refrigerant	Type		R410A		
Pipe connections <sup>3</sup>	Factory charge	kg	17×2+25		17+22+25
	Liquid pipe	mm		Φ22.2	
Airflow rate	Gas pipe	mm		Φ44.5	
	m <sup>3</sup> /h		58000		66000
Sound pressure level <sup>4</sup>	dB(A)		68		
Net dimensions (WxHxD)	mm	(1340×1635×790)×2+(1730×1830×825)	(1340×1635×790)+(1730×1830×825)×2		
Packed dimensions (WxHxD)	mm	(1405×1805×910)×2+(1800×2000×910)	(1405×1805×910)+(1800×2000×910)×2		
Net weight	kg	348×2+475	348+430+475		
Gross weight	kg	368×2+507	368+453+507		
Ambient temp. operating range	Cooling	°C	-5 to 48		
	Heating	°C	-23 to 24		

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

# Specifications(Super X)



Capacity	HP	82	84	86	88
Model		38VF082H119016-E	38VF084H119016-E	38VF086H119016-E	38VF088H119016-E
Combination type		22HP+28HP+32HP	26HP+26HP+32HP	26HP+28HP+32HP	28HP+28HP+32HP
Power supply	V/Ph/Hz		380-415/3/50		
Cooling <sup>1</sup>	Capacity	kW	230.0	236.0	241.5
		kBtu/h	784.8	805.2	824.0
Heating <sup>2</sup>	Power input	kW	73.5	72.8	76.1
		kW/kW	3.13	3.24	3.17
Fan motors	Capacity	kW	230.0	236.0	241.5
		kBtu/h	784.8	805.2	824.0
Compressors	Power input	kW	61.4	60.9	64.0
		kW/kW	3.75	3.87	3.78
Connectable	Total capacity		50-130% of outdoor unit capacity		
	Indoor Unit	Max. quantity		64	
Refrigerant	Type		DC inverter		
	Factory charge	kg	17+22+25		22x2+25
Pipe connections <sup>3</sup>	Liquid pipe	mm	Φ22.2		Φ25.4
	Gas pipe	mm	Φ44.5		Φ50.8
Airflow rate	m <sup>3</sup> /h	66000		74000	
Sound pressure level <sup>4</sup>	dB(A)		68		
Net dimensions (WxHxD)	mm	(1340×1635×790)+(1730×1830×825)×2		(1730×1830×825)×3	
Packed dimensions (WxHxD)	mm	(1405×1805×910)+(1800×2000×910)×2		(1800×2000×910)×3	
Net weight	kg	348+430+475		430×2+475	
Gross weight	kg	368+453+507		453×2+507	
Ambient temp. operating range	Cooling	°C		-5 to 48	
	Heating	°C		-23 to 24	



Capacity	HP	90	92	94	96
Model		38VF090H119016-E	38VF092H119016-E	38VF094H119016-E	38VF096H119016-E
Combination type		28HP+30HP+32HP	28HP+32HP+32HP	30HP+32HP+32HP	32HP+32HP+32HP
Power supply	V/Ph/Hz		380-415/3/50		
Cooling <sup>1</sup>	Capacity	kW	253.5	258.5	265.0
		kBtu/h	864.9	882.0	904.2
Heating <sup>2</sup>	Power input	kW	82.6	86.2	89.5
		kW/kW	3.07	3.00	2.96
Fan motors	Capacity	kW	253.5	258.5	265.0
		kBtu/h	864.9	882.0	904.2
Compressors	Power input	kW	69.3	72.1	74.4
		kW/kW	3.66	3.59	3.56
Connectable	Total capacity		50-130% of outdoor unit capacity		
	Indoor Unit	Max. quantity		64	
Refrigerant	Type		DC inverter		
	Factory charge	kg	22+25×2		25+25×2
Pipe connections <sup>3</sup>	Liquid pipe	mm		Φ25.4	
	Gas pipe	mm		Φ50.8	
Airflow rate	m <sup>3</sup> /h	73000		72000	
Sound pressure level <sup>4</sup>	dB(A)		68		
Net dimensions (WxHxD)	mm		(1730×1830×825)×3		
Packed dimensions (WxHxD)	mm		(1800×2000×910)×3		
Net weight	kg	430+475×2		475×3	
Gross weight	kg	453+507×2		507×3	
Ambient temp. operating range	Cooling	°C		-5 to 48	
	Heating	°C		-23 to 24	

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.