CHV5 Mini

CHV5 Mini is the 5th generation of low productivity non-modular VRF systems.
This line is produced in single-phase and three-phase versions and has the following model series: 12kW (4HP), 14kW (5HP) and 16kW (6HP).
Implemented technological solutions:

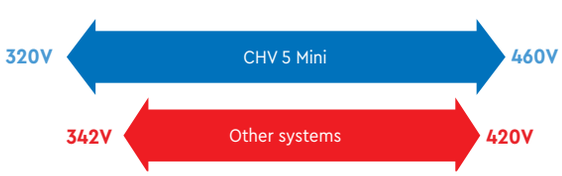
- ALL DC inverter compressors;
- Technology of maximum torque adjustment with minimum current voltage;
- Low-frequency torque control technology;
- Stepless inverter DC fan motor;
- Highly effective digital power factor correction;
- Low level of acoustic parameters of the outdoor unit;
- Improved intelligent defrosting mode;
- Non-commutative oil return technology during heating;
- Technology of starting a closed loop;
- Improved high-frequency transformer, with more stable voltage;
- Less weight and dimensions compared to a conventional VRF system of the same capacity.



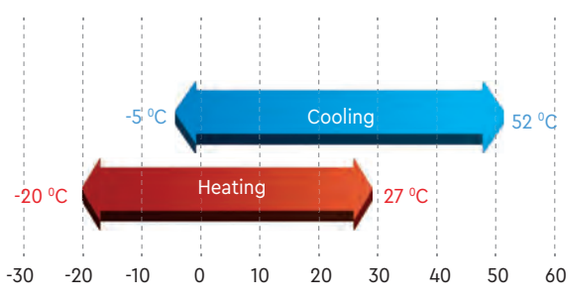
Maximum lengths of pipelines and height differences between units, m		
Outdoor unit index		120–160
Total pipe length		300
Pipe length from the ODU to the farthest IDU	**Physical**	120
	Equivalent	150
The equivalent length from the first branch to the farthest IDU		40
Height difference between ODU and IDU	**ODU is higher**	50
	ODU is lower	40
Height difference between IDUs		15

A wide range of voltage and operating modes

The operating voltage range of the CHV5 system has been extended to 320–460V, which exceeds the national standard of 342–420V. This system will continue to operate normally even in places with unstable voltage.



The operating temperature of the outside air is extended to - 5 °C ... 52 °C in the cooling mode and - 20 °C ... 24 °C in the heating mode.



TECHNICAL CHARACTERISTICS OF OUTDOOR UNITS CHV5 MINI

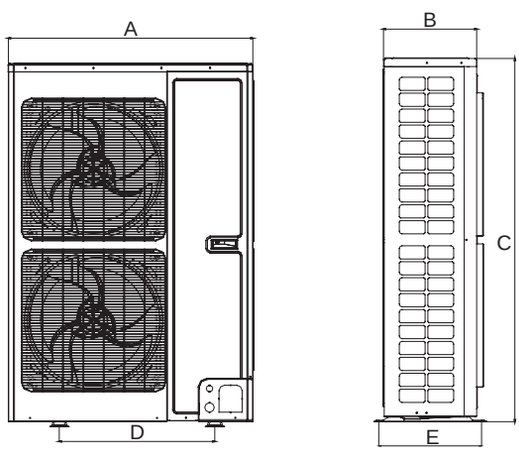
Model			CHV-5S120NK2	CHV-5S140NK2	CHV-5S160NK2	CHV-5S120NM2	CHV-5S140NM2	CHV-5S160NM2
Cooling capacity		kW	12.1	14	16	12.1	14	16
Heating capacity		kW	12.1	14	16	12.1	14	16
Air flow rate		m³/h	6000	6300	6600	6000	6300	6600
Sound power level		dB(A)	74	75	76	74	75	76
Power supply		V/Ph/Hz	220-240V / 1Ph / 50Hz			380-415V / 3Ph / 50Hz		
SEER	Cassette IDU		6.7	6.88	6.96	6.7	6.88	6.96
	Duct IDU		6.7	6.79	6.55	6.7	6.79	6.55
SCOP	Cassette IDU		3.97	4.24	4.04	3.97	4.24	4.04
	Duct IDU		3.93	4.24	4.06	3.93	4.24	4.06
Max. power consumption		kW	5.7	6.3	6.8	6.2	6.7	7.02
Max. current consumption		A	28.8	31.8	34.3	11.1	12	12.5
Automatic switch		A	32	40		16		
Minimum cross-sectional area of the power cable (cross-section mm² × number of cores)		-	3x4	3x6		5x1.5		
Compressor type		-	Inverter Rotary					
Quantity of compressors		pcs.	1					
Outdoor air temperature range	Cooling	°C	-5~52					
	Heating	°C	-20~27					
Refrigerant type		-	R410A					
Refrigerant charge volume		kg	3.3			3.3		
Maximum number of indoor units		pcs.	7	8	9	7	8	9
Pipe diameter	Liquid line	mm	Ø 9.52			Ø 9.52		
	Gas	mm	Ø 15.9		Ø 19.05	Ø 15.9		Ø 19.05
Dimensions (W×D×H)	Unit	mm	900x378x1345					
	Package	mm	998x458x1515					
Net/Gross weight		kg	112/123			122/133		

OVERALL DIMENSIONS

Overall dimensions and installation holes dimension

CHV-5S120NK2, CHV-5S140NK2, CHV-5S160NK2, CHV-5S120NM2, CHV-5S140NM2, CHV-5S160NM2

Units: mm



	A	B	C	D	E
CHV-5S120NK2 CHV-5S140NK2 CHV-5S160NK2 CHV-5S120NM2 CHV-5S140NM2 CHV-5S160NM2	900	340	1345	572	378