CHV6

- Wide model range (cooling capacity of one module from 22,4 to 68 kW);
- Low temperature EVI scroll compressor (advanced steam injection system optimizes performance and increases the ability to heat at low outdoor temperatures);
- Modular unit combination (combination of 4 outdoor units up to 272 kW);
- Extended operating temperature range (The unit can operate in extreme climates from -30°C up to +24°C in heating mode and from -5°C to 52°C in cooling mode);
- CAN communication bus (multi-pole communication technology with high speed information processing allows to connect up to 100 indoor units);
- Function of fast warming up of the compressor in the winter period (reduction of time of warming up of the compressor to 2 hours due to function of heating of windings of the electric motor of the compressor) CHV5 – 8 hours;
- Compressor oil level control (dual oil return system allows up to 95% of oil to be stored in the compressor. There is not need oil leveling tube for modular connection of outdoor units)

CHV6 VRF SYSTEM

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

❄ –5˚C … +55˚C

☼ –30˚C … +24˚C

CHV6			CHV6-224NMX	CHV6-280NMX	CHV6-335NMX	CHV6-400NMX	CHV6-450NMX	CHV6-504NMX	CHV6-560NMX	CHV6-615NMX
Cooling capacity		HP	8	10	12	14	16	18	20	22
		kW	22.4	28	33.5	40	45	50.4	52	52
Heating capacity		kW	22.4	28	33.5	40	45	50.4	56	56
SEER	Duct IDU	kW/kW	7.1	6.66	6.31	6.75	6.24	6.12	5.97	6.02
	Cassette IDU	kW/kW	7.8	6.33	6.58	6.74	6.41	6.44	5.67	5.75
SCOP	Duct IDU	kW/kW	4.62	4.8	4.4	4.8	4.84	4.19	4.1	4.1
	Cassette IDU	kW/kW	4.5	4.75	4.66	4.44	4.44	3.71	3.71	3.71
Power supply		V/Ph/Hz	380-415/3/50					380-415/3/50		
Max. power input		kW	12.87	13.15	13.5	18.18	18.74	26.3	26.85	27.41
Max. current input		A	23	23.5	24.1	32.5	35.5	47	48	49
Max. fuse current		A	25	25	25	40	40	50	50	50
Max. drive IDU			13	16	19	23	26	29	33	36
Compressor type			EVI Inverter scroll					EVI Inverter scroll		
Compressor quantity			1					2		
Refrigerant charge volume		kg	5.5	5.5	7.5	7.5	7.5	8.3	8.3	8.3
Sound pressure level (1 m, cooling)		dB(A)	56	57	59	59	60	61	62	63
Sound power level (Cooling)	Duct IDU	dB(A)	80	84	86	90	93	93	93	93
	Cassette IDU	dB(A)	82	86	86	88	93	88	94	94
Connecting pipe	Liquid	mm	Ø 9.52	Ø 9.52	Ø 12.7	Ø 12.7	Ø 12.7	Ø 15.9	Ø 15.9	Ø 15.9
	Gas	mm	Ø 19.05	Ø 22.2	Ø 25.4	Ø 25.4	Ø 28.6	Ø 28.6	Ø 28.6	Ø 28.6
Dimension (W×D×H)	Outline		930×775×1690			1340×775×1690		1340×775×1690		
	Package		1000×830×1855			1400×830×1855		1400×830×1855		
Net weight/Gross weight		kg	220/230		240/250	300/315		350/365		355/370

❄ –5˚C … +55˚C

☼ –25˚C … +24˚C

CHV6 HR			CHV6-H224NMX	CHV6-H280NMX	CHV6-H335NMX	CHV6-H400NMX	CHV6-H450NMX	CHV6-H504NMX	CHV6-H560NMX	CHV6-H615NMX
Cooling capacity		HP	8	10	12	14	16	18	20	22
		kW	22,4	28	33,5	40	45	50,4	52	52
Heating capacity		kW	22,4	28	33,5	40	45	50,4	56	56
SEER	Duct IDU	kW/kW	7,0	6,76	6,61	6,97	6,53	6,54	6,38	6,32
	Cassette IDU	kW/kW	7,25	6,49	6,73	6,25	6,22	6,78	6,42	6,36
SCOP	Duct IDU	kW/kW	4,32	4,58	4,74	4,44	4,42	4,25	4,15	4,15
	Cassette IDU	kW/kW	4,3	4,44	4,37	4,44	4,51	4,34	4,34	4,34
Power supply		V/Ph/Hz	380-415V/3/50					380-415V/3/50		
Max. power input		kW	12,87	13,15	13,5	21	22	26,3	26,85	27,41
Max. current input		A	23	23,5	24,1	37,5	39,3	47	48	49
Max. fuse current		A	25	25	25	40	40	50	50	50
Max. drive IDU			13	16	19	23	26	29	33	36
Compressor type			EVI Inverter scroll					EVI Inverter scroll		
Compressor quantity			1				1	2		
Refrigerant charge volume		kg	8,2	8,5	9,6	11,1	11,6	12,8	12,8	13,3
Sound pressure level (1 m, cooling)		dB(A)	56	57	59	59	63	63	63	64
Sound power level (Cooling)	Duct IDU	dB(A)	80	82	84	91	91	88	88	88
	Cassette IDU	dB(A)	80	84	86	87	94	87	89	89
Connecting pipe	Liquid	mm	Ø9.52	Ø9.52	Ø12.7	Ø12.7	Ø12.7	Ø15.9	Ø15.9	Ø15.9
	Gas low pressure	mm	Ø19.05	Ø22.2	Ø25.4	Ø25.4	Ø28,6	Ø28,6	Ø28,6	Ø28,6
	Gas high pressure	mm	Ø15.9	Ø19.05	Ø19.05	Ø22.2	Ø22.2	Ø25.4	Ø25.4	Ø25.4
Dimension (W×D×H)	Outline		930×775×1690			1340×775×1690		1340×775×1690		
	Package		1000×830×1855			1400x830x1855		1400x830x1855		
Net weight/Gross weight		kg	243/253		256/266	325/340	325/340	385/400		

* SEER - seasonal coefficient of system capacity in cooling mode.
** SCOP - seasonal coefficient of system capacity in heating mode.

CHV6 AUXILIARY UNITS

HYDROBOX
for CHV6 HR

Model			HB6-16NK	HB6-30NK
Heating capacity		**kW**	3,6-16	3,6-30
Max. setting temperature of DHW		**°C**	55(35-55)	
Max. setting temperature of floor heating		**°C**	45(25-45)	
Power supply			220-240V 50Hz	
Heat exchanger	**Type**		Plate	
	Quantity		1	
	Rated water flow	**m3/h**	2,76	5,16
	Pressure drop	**kPa**	27,5	38,5
Water connection	**Inlet/outlet diameters**	**inch**	G1 Male	G1 Male
Refrigerant	**Gas**	**mm**	Ø15,9	Ø22,2
	Liquid	**mm**	Ø9,52	Ø9,52
Dimensions (WxDxH)		**mm**	515×330×606	515×330×606
Net weight		**kg**	36	40

Dual functions design: available to connect with water tank and floor coils, and meet the multiple demands of customer for air conditioning, DHW and floor heating.
Automatic Recovery in cooling mode: when the indoor unit is set in cooling mode, the additional heat can be used for water heating to improve the efficiency.

HEAT STORAGE MODULE (HSM)
for CHV6

Model		CHV6-HSM180NK
Power consumption	**W**	5
Rated current	**A**	0,05
Power supply		220-240V 50Hz
Diameter of liquid pipe	**mm**	Ø6,35
Diameter of gas pipe	**mm**	Ø12,7
Dimensions (WxDxH)	**mm**	730×450×220
Net weight	**kg**	31,5

HSM helps the ODU to defrost. It cannot be used separately, only parallel system should be used with VRF units, as well as an additional part. HSM uses heat storage technology of defrosting, which is suitable for cold regions, especially coastal cities with high level of relatively humidity in winter season.
According to the capacity of outdoor unit, the number of heat storage modules is calculated.
After a heat storage module is full of heat, it can meet the requirements of one 18kw unit for once heat storage and defrosting.
The total capacity of heat storage modules should be within 90%~150% of that of the outdoor unit.

CHV5 COMPACT & MINI

-5˚C … +52˚C

-20˚C … +27˚C

Model			MINI, 1ph			MINI, 3ph		
			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		m³/h	6000	6300	6600	6000	6300	6600
Sound pressure level		dB(A)	74	75	76	74	75	76
Power supply		V/Ph/Hz	220-240/1/50			380-415/3/50		
SEER	Cassette IDU	kW/kW	6.7	6.88	6.96	6.7	6.88	6.96
	Duct IDU	kW/kW	6.7	6.79	6.55	6.7	6.79	6.55
SCOP	Cassette IDU	kW/kW	3.97	4.24	4.04	3.97	4.24	4.04
	Duct IDU	kW/kW	3.93	4.24	4.06	3.93	4.24	4.06
Max. power input		kW	5.7	6.3	6.8	6.2	6.7	7.02
Max. current input		A	28.8	31.8	34.3	11.1	12	12.5
Max. fuse current		A	32	40		16		
Power supply wiring			3x4	3x6		5x1.5		
Compressor type			Inverter Rotary					
Compressor quantity			1					
Ambient temperature range	Cooling	℃	-5~52					
	Heating	℃	-20~27					
Refrigerant type			R410A					
Refrigerant charge volume		kg	3.3			3.3		
Max. drive IDU			7	8	9	7	8	9
Connecting pipe	Liquid	mm	Ø 9.52			Ø 9.52		
	Gas	mm	Ø 15.9		Ø 19.05	Ø 15.9		Ø 19.05
Dimension (W×D×H)	Outline	mm	900x378x1345					
	Package	mm	998x458x1515					
Net weight/Gross weight		kg	112/123			122/133		

Model			Compact	
			CHV-5S120NK1	CHV-5S140NK1
Cooling capacity		kW	12,1	14,1
Heating capacity		kW	12,1	14,1
Air flow		m³/h	4400	6300
Sound pressure level		dB(A)	75	77
Power supply		V/Ph/Hz	220-240/1/50	
SEER	Cassette IDU	kW/kW	6,11	5,85
	Duct IDU	kW/kW	5,89	5,73
SCOP	Cassette IDU	kW/kW	3,87	3,74
	Duct IDU	kW/kW	3,99	3,86
Max. power input		kW	4,5	6,3
Max. current input		A	24	31,8
Max. fuse current		A	25	40
Power supply wiring			3x2.5	3x6
Compressor type			Inverter Rotary	
Compressor quantity			1	
Ambient temperature range	Cooling	℃	-5~52	
	Heating	℃	-20~27	
Refrigerant type		-	R410A	
Refrigerant charge volume		kg	2	5
Max. drive IDU			6	8
Connecting pipe	Liquid	mm	Ø 9.52	
	Gas	mm	Ø 15.9	
Dimension (W×D×H)	Outline	mm	980x395x790	940x486x820
	Package	mm	1097x477x937	1023x563x973
Net weight/Gross weight		kg	85/95	110/120

* SEER – seasonal coefficient of system capacity in cooling mode.
** SCOP – seasonal coefficient of system capacity in heating mode.