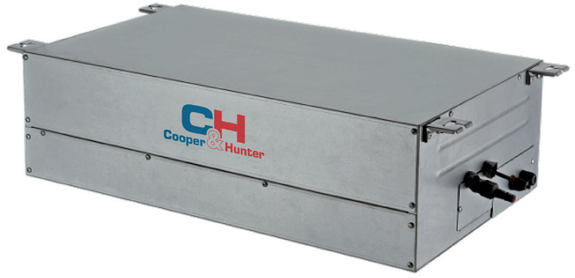
CHV6 INDOOR UNITS

HYDROBOX

Model			HB6-16NK	HB6-30NK
Water heating capacity		kW	4,5(3,6-16)	4,5(3,6-30)
Max. setting temperature of DHW		°C	55(35-55)	
Floor heating capacity		kW	16	30
Max. setting temperature of floor heating		°C	45(25-45)	
Power supply			220-240V 50Hz	
Heat exchanger	Type		Plate	
	Quantity		1	
	Rated water flow	l/min	46	86
	Pressure drop	kPa	27,5	38,5
Water connection	Inlet/outlet diameters	mm	Ø25	Ø25
	Thread type		G1	G1
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



HEAT STORAGE MODULE (HSM)

Model		CHV6-HSM180NK
Power consumption	W	5
Rated current	A	0,05
Circuit breaker	A	6
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.

CHV6

- Wide model range (cooling capacity of one module from 22,4 to 68 kW);
- Low temperature EVI 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 55°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);
- 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

Model		CHV6-224NM	CHV6-280NM	CHV6-335NM	CHV6-400NM	CHV6-450NM	CHV6-504NM	CHV6-560NM	CHV6-615NM	CHV6-680NM
Capacity	Cooling (kW)	22,40	28,00	33,50	40,00	45,00	50,40	56,00	61,50	68
	Heating (kW)	25,00	31,50	37,50	45,00	50,00	56,50	63,00	69,00	76,50
Energy efficiency	SEER	7,70	6,85	6,55	6,89	6,60	6,95	6,32	5,74	-
	SCOP	5,51	5,51	5,74	5,15	5,15	4,13	4,13	4,32	-
Power supply	(V/Ph/Hz)	380 ~ 415 / 3 / 50 ~ 60								
Power input	kW	12,87	13,15	13,50	21,00	22,00	26,30	26,85	27,41	27,41
Current	A	23,0	23,5	24,1	37,5	39,3	47,0	48,0	49,0	49,0
Circuit breaker	A	25,0	25,0	25,0	40,0	40,0	50,0	50,0	50,0	50,0
Sound pressure level	dB(A)	56	57	59	59	60	61	62	63	64
External static pressure	Pa	0-110								
Quantity of compressors		1	1	1	1	1	2	2	2	2
Connection diameters	Gas (mm)	Ø19,05	Ø22,2	Ø25,4	Ø25,4	Ø28,6	Ø28,6	Ø28,6	Ø28,6	Ø28,6
	Liquid (mm)	Ø9,52	Ø9,52	Ø12,7	Ø12,7	Ø12,7	Ø15,9	Ø15,9	Ø15,9	Ø15,9
Connection method		welding connection								
Dimensions (WxDxH)	mm	930×775×1690	930×775×1690	930×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690
Net/Gross weight	kg	220	220	240	300	300	350	350	355	355

Model		CHV6-H224NM	CHV6-H280NM	CHV6-H335NM	CHV6-H400NM	CHV6-H450NM	CHV6-H504NM	CHV6-H560NM	CHV6-H615NM
Capacity	Cooling (kW)	22,40	28,00	33,50	40,00	45,00	50,40	56,00	61,50
	Heating (kW)	25,00	31,50	37,50	45,00	50,00	56,50	63,00	69,00
Energy efficiency	SEER	7,76	7,16	6,64	6,90	6,36	6,87	6,45	5,88
	SCOP	4,80	4,80	4,92	4,71	4,71	4,31	4,31	4,38
Power supply	(V/Ph/Hz)	380 ~ 415 / 3 / 50 ~ 60							
Power input	kW	12,87	13,15	13,50	21,00	22,00	26,30	26,85	27,41
Current	A	23,00	23,50	24,10	37,50	39,30	47,00	48,00	49,00
Circuit breaker	A	25,00	25,00	25,00	40,00	40,00	50,00	50,00	50,00
Sound pressure level	dB(A)	60	61	63	63	63	63	63	64
External static pressure	Pa	0-110							
Quantity of compressors		1	1	1	1	1	2	2	2
Connection diameters	High pressure gas (mm)	Ø19,05	Ø22,2	Ø25,4	Ø25,4	Ø28,6	Ø28,6	Ø28,6	Ø28,6
	Low pressure gas (mm)	Ø9,52	Ø9,52	Ø12,7	Ø12,7	Ø12,7	Ø15,9	Ø15,9	Ø15,9
	Liquid (mm)	Ø9,52	Ø9,52	Ø12,7	Ø12,7	Ø12,7	Ø15,9	Ø15,9	Ø15,9
Connection method		welding connection							
Dimensions (WxDxH)	mm	930×775×1690	930×775×1690	930×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690	1340×775×1690
Net/Gross weight	kg	220	220	240	300	300	350	350	355

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

CHV5 COMPACT

Model		CHV-5S80NK1	CHV-5S100NK1	CHV-5S120NK1	CHV-5S140NK1
Maximum quantity of IDUs	pcs.	4	5	6	8
Capacity* cooling/heating	kW	8/9	10/11	12/13	14/16
Energy efficiency cooling/heating	SEER/SCOP	8,1/4,5	7,8/4,4	7,2/4,4	6,7/37
Power supply	V/Hz/Ph	230/50/1			
Temperature range in cooling mode	°C	-5..+52			
Temperature range in heating mode	°C	-20..+27			
Liquid pipe diameter	inch	3/8	3/8	3/8	3/8
Gas pipe diameter	inch	5/8	5/8	5/8	5/8
Total length of the refrigerant pipe	m	250	250	250	300
Maximum height difference	m	30	30	30	30
Compressor type		Rotary			
Dimensions (WxDxH)	mm	980x790x360	980x937x478	980x937x478	940x82x460
Net/Gross weight	kg	80/90	80/90	85/95	98/108

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

Comparison of CHV5 Compact with a ordinary 12 kW multi-split unit

VS

Model		CHML-U42RK5	CHV-5S120NK1
Cooling capacity	kW	2,6-12	6-12,1
Heating capacity	kW	2,6-14,5	6,5-16,9
EER/COP		3,7/4,1	3,5/4,8
Maximum quantity of IDUs		5	6
Total length of the refrigerant pipe	m	75	250
Dimensions (WxDxH)	mm	1087x1103x440	980x790x360