UNITHERM 3
ALL-IN-ONE

INVERTER R32

MAX temp wather | Energy Efficiency | Self-diagnostics | Auto-protection | Anticorrosive cover | TwoStage Compressor | Timer | Wired Controller | BMS System Connection | Intelligent Defrosting | Intelligent Control | Wifi

			CH-HP6.0WTSIRK3	CH-HP8.0WTSIRK3	CH-HP10WTSIRK3	CH-HP12WTSIRK3	CH-HP14WTSIRK3	CH-HP16WTSIRK3
Capacity*	Cooling	kW	5.80	7.00	8.50	11.00	12.60	13.00
	Heating	kW	6.00	8.00	9.50	12.00	14.00	15.50
Power input*	Cooling	kW	1.32	1.75	2.24	2.50	3.41	3.60
	Heating	kW	1.20	1.70	2.07	2.40	2.98	3.44
EER *			4.40	4.00	3.80	4.40	3.70	3.60
COP*			5.00	4.70	4.60	5.00	4.70	4.50
Capacity*	Cooling	kW	4.09	5.30	6.50	10.59	11.07	11.51
	Heating	kW	5.90	8.00	9.50	12.40	14.48	16.09
Power input*	Cooling	kW	1.28	1.73	2.27	3.79	4.18	4.49
	Heating	kW	1.51	2.14	2.64	3.29	3.93	4.44
EER **			3.20	3.00	2.90	2.79	2.65	2.57
COP **			3.90	3.70	3.60	3.77	3.68	3.62
Refrigerant charge volume		kg	1.00	1.60	1.60	1.84	1.84	1.84
Power supply			~220-240V/50 Hz/1 Ph					
Sound pressure level	Cooling	dB (A)	52	55		68		
	Heating	dB (A)	52	55		68		
Dimensions (W×D×H)	Indoor unit	mm	600×600×1756					
	Outdoor unit	mm	975×396×702	982×427×787		940×460×820		
Net weight	Indoor unit	kg	210					
	Outdoor unit	kg	55	82		110		
Water circulating pipe inlet/outlet, DHW			1" Male BSP					
Diameter of pipe	Liquid	Inch (mm)	1/4" (6.35)					
	Gas	Inch (mm)	1/2" (12.7)			5/8" (15.6)		

			CH-HP12WTSIRM3	CH-HP14WTSIRM3	CH-HPWT16SIRM3
Capacity*	Cooling	kW	11.00	12.60	13.00
	Heating	kW	12.00	14.00	15.50
Power input*	Cooling	kW	2.50	3.41	3.60
	Heating	kW	2.40	2.98	3.44
EER *			4.40	3.70	3.60
COP *			5.00	4.70	4.51
Capacity*	Cooling	kW	10.65	11.24	11.52
	Heating	kW	12.29	14.44	16.13
Power input**	Cooling	kW	3.74	4.13	4.38
	Heating	kW	3.09	3.63	4.16
EER **			2.85	2.72	2.63
COP **			3.98	3.98	3.88
Refrigerant charge volume		kg	1.84	1.84	1.84
Power supply			~380-415V/50 Hz/3 Ph		
Sound pressure level	Cooling	dB (A)	62		
	Heating	dB (A)	58		
Dimensions (W×D×H)	Indoor unit	mm	600×600×1756		
	Outdoor unit	mm	940×460×820		
Net weight	Indoor unit	kg	210		
	Outdoor unit	kg	110		
Water circulating pipe inlet/outlet, DHW			1" Male BSP		
Diameter of pipe	Liquid	Inch (mm)	1/4" (6.35)		
	Gas	Inch (mm)	5/8" (15.6)		

UNITHERM SERIES

HEAT PUMP FOR AIR CONDITIONING, HEATING, AND HOT WATER SUPPLY

- Efficient inverter HP class A fully compliant to EU directive ErP. HP controls working frequency depending on real workload for precise temperature control.
- Inverter ventilator can accurately regulate airflow for efficient and stable operation.
- Plate heat exchanger Alpha Laval and 2-stage compressor improve performance of HP.
- Can be used with various types of heating devices: radiators, warm floors, fancoils, solar collectors, etc.
- Wired controller with 5'' LCD touch screen display. Built-in WiFi for remote management. Modbus interface for remote monitoring and integration with BMS system.
- Intelligent management. Various modes of operation: weather-dependent mode, sleap mode, on-off timer, etc. Multilevel protection.
- Waether-dependent mode.
- New intelligent defrosting algorithm:
  - Defrosting on demand;
  - Defrosting when necessary;
  - Prolong defrosting when outdoor is heavily frost;
  - Short defrosting.

+10˚C … +48˚C

−25˚C … +35˚C

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UNITHERM MONOTYPE

INVERTER R32

MAX temp wather | Energy Efficiency | Self-diagnostics | Auto-protection | Anticorrosive cover | TwoStage Compressor | Timer | Wired Controller | BMS System Connection | Intelligent Defrosting | Intelligent Control | Wifi

			CH-HP4.0MIRK	CH-HP6.0MIRK	CH-HP8.0MIRK	CH-HP10MIRK	CH-HP12MIRK
Capacity*	Cooling	kW	3.8	5.8	6.8	8.8	11
	Heating	kW	4	6	7.5	10	12
Power input*	Cooling	kW	0.82	1.32	1.55	1.96	2,56
	Heating	kW	0.78	1.2	1.63	2.15	2,64
EER			4.65	4.4	4.4	4.5	4,2
COP			5.1	5	4.6	4.65	4,55
Power supply			~220-240V/50 Hz/1 Ph				
Capacity**	Cooling	kW	3	4	5	7.8	9,5
	Heating	kW	4	6	7.5	10	12
Power input**	Cooling	kW	0.94	1.27	1.56	2.48	3,11
	Heating	kW	0.98	1.56	2	2.67	3,48
EER*2			3.2	3.15	3.2	3.15	3,05
COP*2			4.1	3.85	3.75	3.75	3,6
Refrigerant charge volume		kg	0.87			2.2	
Sound pressure level	Cooling	dB (A)	56			59	
	Heating	dB (A)	58			61	
Dimensions (W×D×H)		mm	1150×345×758			1200×460×878	
Weight		kg	96			151	
Water circulating pipe inlet/outlet			1" Male BSP				

			CH-HP12MIRM	CH-HP14MIRK	CH-HP14MIRM	CH-HP16MIRK	CH-HP16MIRK
Capacity*	Cooling	kW	11	12.5	12.5	14.5	14.5
	Heating	kW	12	14	14	15.5	15.5
Power input*	Cooling	kW	2.56	3.05	3.05	3.82	3.82
	Heating	kW	2.64	3.22	3.22	3.6	3.6
EER			4.2	4	4.2	3.7	4
COP			4.5	4.35	4.55	4.3	4.35
Power supply			~380-415V/50 Hz/3 Ph	~220-240V/50 Hz/1 Ph	~380-415V/50 Hz/3 Ph	~220-240V/50 Hz/1 Ph	~380-415V/50 Hz/3 Ph
Capacity**	Cooling	kW	9.5	12	12	13	13
	Heating	kW	12	14	14	15.5	15.5
Power input**	Cooling	kW	3.11	4.14	4.14	4.73	4.73
	Heating	kW	3.48	4.18	4.18	4.7	4.7
EER*2			3	2.9	3.05	2.75	2.9
COP*2			3.5	3.55	3.6	3.4	3.55
Refrigerant charge volume		kg	2,2				
Sound pressure level	Cooling	dB (A)	59				
	Heating	dB (A)	61				
Dimensions (W×D×H)		mm	1200×460×878				
Weight		kg	151				
Water circulating pipe inlet/outlet			1" Male BSP				

*Efficiency and performance measured under the following conditions: cooling - water inlet/outlet 23°C/18°C, outdoor temperature 23°C DB/24°C WB heating - water inlet/outlet 30°C/35°C, outdoor temperature 7 °C DB/6 °C WB
**Efficiency and performance measured under the following conditions: cooling - inlet/outlet water 12°C/7°C, outdoor air temperature 35°C DB/24°C WB heating - inlet/outlet water 40°C/45°C , outdoor air temperature 7°C DB/6°C WB

UNITHERM 4 SPLIT

INVERTER R32

MAX temp wather | Energy Efficiency | Self-diagnostics | Auto-protection | Anticorrosive cover | TwoStage Compressor | Timer | Wired Controller | BMS System Connection | Intelligent Defrosting | Intelligent Control | Wi-Fi

Model			CH-HP4.0SIRK4	CH-HP6.0SIRK4	CH-HP8.0SIRK4	CH-HP10SIRK4	CH-HP12SIRK4
Capacity*	Cooling	kW	3.80	5.80	7.00	8.50	11.00
	Heating	kW	4.00	6.00	8.00	9.50	12.00
Power input*	Cooling	kW	0.80	1.32	1.75	2.24	2.50
	Heating	kW	0.78	1.20	1.70	2.07	2.40
EER*1			4.75	4.40	4.00	3.80	4.40
COP*1			5.10	5.00	4.70	4.60	5.00
Capacity**	Cooling	kW	3.15	4.09	5.30	6.50	10.59
	Heating	kW	4.00	5.90	8.00	9.50	12.40
Power input**	Cooling	kW	0.92	1.28	1.73	2.27	3.79
	Heating	kW	1.02	1.51	2.14	2.64	3.29
EER (Floor cooling)**			3.40	3.20	3.00	2.90	2.79
COP (Floor heating)**			3.90	3.90	3.70	3.60	3.77
Refrigerant charge volume		kg	1.00	1.00	1.60	1.60	1.84
Power supply			~220-240V/50Hz/1Ph				
Sound Pressure Level	Cooling	dB(A)	52	52	55	55	68
	Heating	dB(A)	52	52	55	55	68
Dimensions (WxDxH)	Indoor unit	mm	460×318×860				
	Outdoor unit	mm	975×396×702		982×427×787		940×460×820
Net weight	Indoor unit	kg	62				
	Outdoor unit	kg	55	55	82	82	110
Water circulating pipe inlet/outlet, DHW			1" Male BSP				
Diameter of pipe	Liquid	inch (mm)	1/4" (6.35)				
	Gas	inch (mm)	1/2" (12.7)				5/8" (15.6)

Model			CH-HP14SIRK4	CH-HP16SIRK4	CH-HP12SIRM4	CH-HP14SIRM4	CH-HP16SIRM4
Capacity*	Cooling	kW	12.60	13.00	11.00	12.60	13.00
	Heating	kW	14.00	15.50	12.00	14.00	15.50
Power input*	Cooling	kW	3.41	3.60	2.50	3.41	3.60
	Heating	kW	2.98	3.44	2.40	2.98	3.44
EER*1			3.70	3.60	4.40	3.70	3.60
COP*1			4.70	4.50	5.00	4.70	4.51
Capacity**	Cooling	kW	11.07	11.51	10.65	11.24	11.52
	Heating	kW	14.48	16.09	12.29	14.44	16.13
Power input**	Cooling	kW	4.18	4.49	3.74	4.13	4.38
	Heating	kW	3.93	4.44	3.09	3.63	4.16
EER (Floor cooling)**			2.65	2.57	2.85	2.72	2.63
COP (Floor heating)**			3.68	3.62	3.98	3.98	3.88
Refrigerant charge volume		kg	1.84	1.84	1.84	1.84	1.84
Power supply			~220-240V/50Hz/1Ph		~380-415V/50Hz/3Ph		
Sound Pressure Level	Cooling	dB(A)	62				
	Heating	dB(A)	58				
Dimensions (WxDxH)	Indoor unit	mm	460×318×860				
	Outdoor unit	mm	940×460×820				
Net weight	Indoor unit	kg	62				
	Outdoor unit	kg	110				
Water circulating pipe inlet/outlet. DHW			1" Male BSP				
Diameter of pipe	Liquid	inch (mm)	1/4" (6.35)				
	Gas	inch (mm)	5/8" (15.9)				

*Efficiency and performance measured under conditions: cooling - inlet/outlet water 23°C/18°C, outdoor tempreture 23°C DB/24°C WB heating - inlet/outlet water 30°C/35°C, outdoor tempreture 7°C DB/6°C WB
**Efficiency and performance measured under conditions: cooling - inlet/outlet water 12°C/7°C, outdoor tempreture 35°C DB/24°C WB heating - inlet/outlet water 40°C/45°C, outdoor tempreture 7°C DB/6°C WB