HTW
QUALITY COMFORT EVERYWHERE

HPWH RANGE

The Solar Keymark
CEN Keymark Scheme

R-32

3 YEAR WARRANTY TOTAL QUALITY COMMITMENT

A+++ EER



ECO-THERMAL BIBLOCK PLUS
HYDRONIC MODULE

WiFi INCLUDED — Modbus gateway
Wired control
DC inverter — DC Inverter compressor and fans
MODE — Various modes
High protection
Anti-legionella function
Smart network
Compact design
Cold and heat mode
Wide operating range
Higher efficiency at low temperature
Configurable temperature range

COMBINATIONS WITH *HTW-A100/190CD30GN8* 1/2

				OUT.	HTW-V4WD2IT100/190	HTW-V8WD2IT100/190
					HTW-AV4WD2N8PLUS	HTW-AV8WD2N8PLUS
				IN.	HTW-A100/190CD30GN8	
EAN CODE - SET					8435483837584	8435483837607
Domestic hot water heating energy efficiency class[1]	Thread profile according to EN16147				L	
	Average weather			Class	A+	A+
				COP	3.10	3.02
	Warm weather			Class	A+	A+
				COP	3.80	3.66
	Cold weather			Class	A	A
				COP	2.50	2.61
Heating[2]	Capacity			kW	4.25	8.30
	Rated input			kW	0.82	1.60
	COP			-	5.20	5.20
Heating[3]	Capacity			kW	4.35	8.20
	Rated input			kW	1.14	2.08
	COP			-	3.80	3.95
Cooling[4]	Capacity			kW	4.50	8.40
	Rated input			kW	0.81	1.66
	EER			-	5.55	5.05
Cooling[5]	Capacity			kW	4.70	7.40
	Rated input			kW	1.36	2.19
	EER			-	3.45	3.38
Seasonal heating energy efficiency class[6]	Water outlet at 35°C			Class	A+++	A+++
	Water outlet at 55°C			Class	A++	A++
SCOP	LWT at 35°C			-	4,85	5,21
	LWT at 55°C			-	3,31	3,36
SEER	LWT at 7°C			-	4,99	5,83
	LWT at 18°C			-	7,77	8,95
MOP (Maximum Overcurrent Protection)				A	18	19
MCA (Minimum Circuit Amps)				A	12	16
Indoor unit sound power level [7]				dB	38	40
Outdoor unit sound power level [7]				dB	56	59
Indoor unit	Power Supply			V, P, HZ	220–240V (1 Phase ~ 50Hz)	
	Rated input			kW	3,095	
	DHW tank	Type		-	Stainless steel	
		Material		-	SUS 316L	
		Water volume		L	190	
		Maximum water temp.		°C	70	
		Isolation	Material	-	Polyurethane (cyclopentane)	

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ECO-THERMAL BIBLOCK PLUS

HYDRONIC MODULE

COMBINATIONS WITH *HTW-A100/190CD30GN8* 2/2

					HTW-V4WD2IT100/190	HTW-V8WD2IT100/190
Indoor unit	Heat exchanger				Plate heat exchanger	
	Heater backup	Standard mount		kW	3	
		Capacity steps		-	1	
	Water pump	Type		-	DC Inverter	
		Max. head		m	9	
	Water pipe connections	Water circuit	Inlet / Outlet	-	R1"	
		DHW tank water circuit	Cold water inlet	-	R3/4"	
			Hot water outlet	-	R3/4"	
			Recirculation	-	R3/4"	
	Net Dimensions (WxDxH)			mm	600x600x1643	
	Gross Dimensions (WxDxH)			mm	730x730x1920	
	Net/Gross weight			kg	140 / 161	
	Ambient temperature range			°C	5~35	
	Water outlet temperature	Heating (heat pump)		°C	25~65	
		Refrigeration		°C	5~25	
		Domestic heat water		°C	30~60	
Outdoor unit	Electrical power supply			V, P, HZ	220–240V (1 Phase ~ 50Hz)	
	Net Dimensions (WxDxH)			mm	1008x712x426	1118x865x523
	Gross Dimensions (WxDxH)			mm	1065x810x485	1190x970x560
	Net/Gross weight			kg	60 / 65,5	79 / 92
	Compressor			-	Twin-rotary DC inverter	
	Outdoor fan	Motor type		-	Brushless DC motor	
		Number of fans		-	1	
	Refrigerant	Type (GWP)		-	R32 (675)	
		Charge		kg	1,5	1,65
		Additional charge		g/m	20	38
	Refrigerant piping connections	Liquid side		mm	Φ6.35	Φ9.52
		Gas side		mm	Φ15.9	Φ15.9
		Pipe length max.		m	30	
		Max. difference in height		m	20	
	Drain connection			-	DN32	
	Ambient temperature range	Heating		°C	-25~35	
		Cooling		°C	-5~43	
		Domestic heat water		°C	-25~43	

INDOOR UNIT	HTW-A100/190CD30GN8	HTW-A100/240CD30GN8	HTW-A160/240CD30GN8B
			

OUTDOOR UNIT	HTW-AV4WD2N8PLUS | HTW-AV8WD2N8PLUS	HTW-AV12WD2N8PLUS | HTW-AV16WD2N8PLUS | HTW-AV16WD2RN8PLUS
		

KEYMART SOLAR CERTIFICATION		
Indoor unit code	Outdoor unit code	Registration number
HTW-A100/190CD30GN8	HTW-AV4WD2N8PLUS	041-K007-04
	HTW-AV8WD2N8PLUS	041-K007-07

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ECO-THERMAL BIBLOCK PLUS
HYDRONIC MODULE

WiFi INCLUDED — Modbus gateway | Wired control | DC inverter compressor and fans | MODE Various modes | High protection | Anti-legionella function | Smart network | Compact design | Cold and heat mode | Wide operating range | Higher efficiency at low temperature | Configurable temperature range

COMBINATIONS WITH *HTW-A100/240CD30GN8* 1/2

			OUT.	HTW-V4WD2IT100/240	HTW-V8WD2IT100/240
				HTW-AV4WD2N8PLUS	HTW-AV8WD2N8PLUS
			IN.	HTW-A100/240CD30GN8	
EAN CODE - SET				8435483837591	8435483837614
Domestic hot water heating energy efficiency class[1]	Thread profile according to EN16147			XL	
	Average weather		Class	A+	A+
			COP	3.34	3.36
	Warm weather		Class	A+	A+
			COP	4.24	4.18
	Cold weather		Class	A	A
			COP	2.63	2.72
Heating[2]	Capacity		kW	4.25	8.30
	Rated input		kW	0.82	1.60
	COP		-	5.20	5.20
Heating[3]	Capacity		kW	4.35	8.20
	Rated input		kW	1.14	2.08
	COP		-	3.80	3.95
Cooling[4]	Capacity		kW	4.50	8.40
	Rated input		kW	0.81	1.66
	EER		-	5.55	5.05
Cooling[5]	Capacity		kW	4.70	7.40
	Rated input		kW	1.36	2.19
	EER		-	3.45	3.38
Seasonal heating energy efficiency class[6]	Water outlet at 35ºC		Class	A+++	A+++
	Water outlet at 55ºC		Class	A++	A++
SCOP	LWT at 35ºC		-	4,85	5,21
	LWT at 55ºC		-	3,31	3,36
SEER	LWT at 7ºC		-	4,99	5,83
	LWT at 18ºC		-	7,77	8,95
MOP (Maximum Overcurrent Protection)			A	18	19
MCA (Minimum Circuit Amps)			A	12	16
Indoor unit sound power level[7]			dB	38	40
Outdoor unit sound power level[7]			dB	56	59
Indoor unit	Electrical power supply		V, F, HZ	220–240V (1 Fase ~ 50Hz)	
	Rated input		kW	3,095	
	DHW tank	Type	-	Stainless steel	
		Material	-	SUS 316L	
		Water volume	L	240	
		Max. water temperature	ºC	70	
		Isolation Material	-	Polyurethane (cyclopentane)	

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ECO-THERMAL BIBLOCK PLUS

HYDRONIC MODULE

COMBINATIONS WITH *HTW-A100/240CD30GN8* 2/2

					HTW-V4WD2IT100/240	HTW-V8WD2IT100/240
Indoor unit	Heat exchanger				Plate heat exchanger	
	Backup heater	Standard mounting		kW	3	
		Capacity steps		-	1	
	Water pump	Type		-	DC Inverter	
		Max. head		m	9	
	Water pipe connections	Water circuit	Inlet /Outlet	-	R1"	
		DHW tank water circuit	Cold water inlet	-	R3/4"	
			Hot water outlet	-	R3/4"	
			Recirculation	-	R3/4"	
	Net Dimensions (WxDxH)			mm	600x600x1943	
	Gross Dimensions (WxDxH)			mm	730x730x2180	
	Net/Gross weight			kg	157/ 178	
	Ambient temperature range			°C	5~35	
	Water outlet temperature	Heating (heat pump)		°C	25~65	
		Refrigeration		°C	5~25	
		Sanitary hot water		°C	30~60	
Outdoor unit	Power Supply			V, P, HZ	220–240V (1 Phase ~ 50Hz)	
	Net Dimensions (WxDxH)			mm	1008x712x426	1118x865x523
	Gross Dimensions (WxDxH)			mm	1065x810x485	1190x970x560
	Net/Gross weight			kg	60 / 65,5	79 / 92
	Compressor			-	Twin-rotary DC inverter	
	Outdoor fan	Motor type		-	Brushless DC motor	
		Fan number		-	1	
	Refrigerant	Type (GWP)		-	R32 (675)	
		Charge		kg	1,5	1,65
		Additional charge		g/m	20	38
	Refrigerant piping connections	Liquid side		mm	Φ6.35	Φ9.52
		Gas side		mm	Φ15.9	Φ15.9
		Pipe length max.		m	30	
		Max. difference in height		m	20	
	Drain connection			-	DN32	
	Ambient temperature range	Heating		°C	-25~35	
		Cooling		°C	-5~43	
		Domestic hot water		°C	-25~43	

INDOOR UNIT	HTW-A100/190CD30GN8	HTW-A100/240CD30GN8	HTW-A160/240CD30GN8B
			

OUTDOOR UNIT	HTW-AV4WD2N8PLUS | HTW-AV8WD2N8PLUS	HTW-AV12WD2N8PLUS | HTW-AV16WD2N8PLUS | HTW-AV16WD2RN8PLUS
		

KEYMART SOLAR CERTIFICATION		
Indoor unit code	Outdoor unit code	Registration number
HTW-A100/240CD30GN8	HTW-AV4WD2N8PLUS	041-K007-05
	HTW-AV8WD2N8PLUS	041-K007-08

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HYDRONIC MODULE

WiFi INCLUDED · Modbus gateway · Wired control · DC inverter compressor and fans · MODE Various modes · High protection · Anti-legionella function · Smart network · Compact design · Cold and heat mode · Wide operating range · Higher efficiency at low temperature · Configurable temperature range

COMBINATIONS WITH
HTW-A160/240CD30GN8B 1/2

				OUT.	HTW-V12WD2IT160/240	HTW-V16WD2IT160/240	HTW-V16WD2RIT160/240
					HTW-AV12WD2N8PLUS	HTW-AV16WD2N8PLUS	HTW-AV16WD2RN8PLUS
				IN.	HTW-A160/240CD30GN8B		
EAN CODE - SET					8435483837621	8435483837638	8435483837645
	Thread profile according to EN16147					XL	
Efficiency class heating energy domestic hot water[1]	Average weather			Class	A+	A+	A+
				COP	3.00	3.00	3.00
	Warm weather			Class	A+	A+	A+
				COP	3.73	3.73	3.73
	Cold weather			Class	A	A	A
				COP	2.24	2.24	2.24
Heating[2]	Capacity			kW	12.10	16.00	16.00
	Rated inlet			kW	2.44	3.56	3.56
	COP			-	4.95	4.50	4.50
Heating[3]	Capacity			kW	12.30	16.00	16.00
	Rated inlet			kW	3.24	4.44	4.44
	COP			-	3.80	3.60	3.60
Cooling[4]	Capacity			kW	12.00	14.90	14.90
	Rated inlet			kW	3.00	4.38	4.38
	EER			-	4.00	3.40	3.40
Cooling[5]	Capacity			kW	11.60	14.00	14.00
	Rated inlet			kW	4.22	5.71	5.71
	EER			-	2.75	2.45	2.45
Seasonal heating energy efficiency class[6]	Water outlet at 35°C			Class	A+++	A+++	A+++
	Water outlet at 55°C			Class	A++	A++	A++
SCOP	LWT at 35°C			-	4,81	4,62	4,62
	LWT at 55°C			-	3,45	3,41	3,41
SEER	LWT at 7°C			-	4,89	4,69	4,67
	LWT at 18°C			-	7,1	6,75	6,71
MOP (Maximum Overcurrent Protection)				A	30	30	14
MCA (Minimum Circuit Amps)				A	25	27	12
Indoor unit sound power level[7]				dB	42	44	44
Outdoor unit sound power level[7]				dB	64	68	68
Indoor unit	Power Supply			V, P, HZ	220–240V (1 Phase ~ 50Hz)		
	Rated input			kW	3,095		
	DHW tank	Type		-	Stainless steel		
		Material		-	SUS 316L		
		Water volume		L	240		
		Max. water temperature		°C	70		
		Isolation	Material	-	Polyurethane (cyclopentane)		

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ECO-THERMAL BIBLOCK PLUS

HYDRONIC MODULE

COMBINATIONS WITH *HTW-A160/240CD30GN8B* 2/2					HTW-V12WD2IT160/240	HTW-V16WD2IT160/240	HTW-V16WD2RIT160/240
Indoor unit	Heat exchanger					Plate heat exchanger	
	Backup heater	Standard mounting		kW		3	
		Capacity steps		-		1	
	Water pump	Type		-		DC Inverter	
		Max. head		m		9	
	Water pipe connections	Water circuit	Indoor/Outdoor	-		R1"	
		DHW tank water circuit	Cold water inlet	-		R3/4"	
			Hot water outlet	-		R3/4"	
			Recirculation	-		R3/4"	
	Net Dimensions (WxDxH)			mm		600x600x1943	
	Gross Dimensions (WxDxH)			mm		730x730x2180	
	Net/Gross weight			kg		159/ 180	
	Ambient temperature range			°C		5~35	
	Water outlet temperature	Heating (heat pump)		°C		25~65	
		Refrigeration		°C		5~25	
		Domestic heat water		°C		30~60	
Outdoor unit	Power Supply			V, P, HZ	220~240V (1 Phase ~ 50Hz)	220~240V (1 Phase ~ 50Hz)	380~415V (3 Phase ~ 50Hz)
	Net Dimensions (WxDxH)			mm		1118×865×523	
	Gross Dimensions (WxDxH)			mm		1190×970×560	
	Net/Gross weight			kg	100 / 113,5	100 / 113,5	116/129,5
	Compressor			-		Twin-rotary DC inverter	
	Outdoor fan	Motor type		-		Brushless DC motor	
		Fan number		-		1	
	Refrigerant	Type (GWP)		-		R32 (675)	
		Charge		kg		1.84	
		Additional charge		g/m		38	
	Refrigerant piping connections	Liquid side		mm		Φ9.52	
		Gas side		mm		Φ15.9	
		Max. pipe length		m		30	
		Max. difference in height		m		20	
	Drain connection			-		DN32	
	Ambient temperature range	Heating		°C		-25~35	
		Cooling		°C		-5~43	
		Domestic heat water		°C		-25~43	

INDOOR UNIT	HTW-A100/190CD30GN8	HTW-A100/240CD30GN8	HTW-A160/240CD30GN8B
			
OUTDOOR UNIT	**HTW-AV4WD2N8PLUS | HTW-AV8WD2N8PLUS**		**HTW-AV12WD2N8PLUS | HTW-AV16WD2N8PLUS | HTW-AV16WD2RN8PLUS**
			

Notes:
1. According to EN16147/2017 standard; EU No:812/2013
2. DB/WB 7/6°C, LWT 35°C (ΔT=5°C)
3. DB/WB 7/6°C, LWT 45°C (ΔT=5°C)
4. DB 35°C, LWT 18°C (ΔT=5°C)
5. DB 35°C, LWT 7°C (ΔT=5°C)
6. According to EN14511/2018 standard; EN14825/2018; EU No:811/2013
7. Sound power in heating mode, measured according to EN 12102 under conditions of EN 14825.

KEYMART SOLAR CERTIFICATION		
Indoor unit code	**Outdoor unit code**	**Registration number**
HTW-A160/240CD30GN8B	HTW-AV12WD2N8PLUS	041-K007-10
	HTW-AV16WD2N8PLUS	041-K007-10
	HTW-AV16WD2RN8PLUS	041-K007-10

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