giatsu
Professional Comfort Solutions

HPWH RANGE

The Solar Keymark
CEN Keymark Scheme

ErP ready | R-32 | 65º DELIVERY TEMPERATURE | 3 YEAR GUARANTEE TOTAL QUALITY COMMITMENT

SEER 8,77 at 18º
SCOP 5,05 at 35º
*DEPENDING MODEL

A+++ EER

ECO-THERMAL
MONOBLOCK

MCS | RoHS | WiFi INCLUDED | T1/T2 2 Zone Control | 8 Performance curves | Compatible with solar thermal energy and photovoltaic | Electric resistance | Anti-legionella function | Optional Modbus Gateway | DC inverter compressor and fans | Chronothermostatic wired control | MODE 6 operating modes | Cold and Heat mode | Wide operating range -25º at 43º | Higher efficiency at low temperature | Configurable temperature range

MODEL			GIA-EC60WEN8BP-R32	GIA-EC80WEN8BP-R32	GIA-EC100WEN8BP-R32	GIA-EC120WEN8BP-R32	GIA-EC140WEN8BP-R32
EAN CODE			8435483845176	8435483845589	8435483845183	8435483845190	8435483845206
Power Supply		V,P,HZ	220-240V (1 Phase ~ 50Hz)				
PERFORMANCE							
Heating[1]	Capacity	kW	6.01	7.93	10.21	12.06	14.47
	Consumption	kW	1.17	1.76	2.04	2.57	2.99
	COP	-	5.13	4.5	5.01	4.7	4.84
Heating[2]	Capacity	kW	6.04	8.3	10.2	12.1	14.5
	Consumption	kW	1.63	2.61	2.79	3.36	3.89
	COP	-	3.7	3.18	3.65	3.6	3.72
Heating[3]	Capacity	kW	6.09	7.7	9.6	12.3	13.8
	Consumption	kW	2.13	2.98	3.22	4.44	4.42
	COP	-	2.86	2.58	2.98	2.77	3.12
Cooling[4]	Capacity	kW	6.18	8.16	10.01	11.85	14.14
	Consumption	kW	1.26	1.75	2.42	2.72	3.1
	EER	-	4.91	4.65	4.14	4.36	4.56
Cooling[5]	Capacity	kW	6.27	7.58	8.78	11.58	14.3
	Consumption	kW	1.99	2.55	2.97	4.14	5.11
	EER	-	3.14	2.97	2.96	2.8	2.8
Seasonal heating energy efficency class[6]	LWT at 35ºC	-	A+++	A+++	A+++	A+++	A+++
	LWT at 55ºC	-	A++	A++	A++	A++	A++
SCOP	LWT at 35ºC	-	5.05	4.62	4.86	4.65	4.56
	LWT at 55ºC	-	3.52	3.32	3.51	3.37	3.45
SEER	LWT at 7ºC	-	5.27	5.17	4.66	5.02	4.76
	LWT at 18ºC	-	8.77	8.31	8.23	8.15	6.72
MOP (Max. Over Current Protection)		A	18	21	25	25	30
MCA (Min. Circuit Amps)		A	14	16	19	23	26
Maximum flow temperature		ºC	65	65	65	65	65
Operating exterior temperature range	Cooling	ºC	-5 a 43	-5 a 43	-5 a 43	-5 a 43	-5 a 43
	Heating	ºC	-25 a 35	-25 a 35	-25 a 35	-25 a 35	-25 a 35
	SHW	ºC	-25 a 43	-25 a 43	-25 a 43	-25 a 43	-25 a 43
FEATURES							
Compressor	Type	-	Double rotary DC Inverter				
Compressor brand			Mitusubishi				
R32 Refrigerant	Charge	kg	1.03	1.3	1.5	1.75	2.1
GWT			675	675	675	675	675
CO2 equivalent		T	0,69525	0,87750	1,01250	1,18125	1,41750
Refrigerant gas pressure	Max. / Min.	MPa	4,5 / 1,5	4,5 / 1,5	4,5 / 1,5	4,5 / 1,5	4,5 / 1,5
Outdoor fan	Motor type	-	Brushless DC Motor				
Number of fans			1	1	1	1	1
Air exchanger	Type		Hydrophilic Al and Cu	Hydrophilic Al and Cu	Hydrophilic Al and Cu	Hydrophilic Al and Cu	Hydrophilic Al and Cu
Secondary circulator	Delivery height	m	9	9	9	9	9
		m³/h	4,5	4,5	4,5	4,5	4,5
Water exchanger	Plates		AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L
Glass of expansion		l	5	5	5	5	5
Throttle type		-	Electronic expansion valve				
Load loss		kPa	25	39	37	36	38
Electric resistance (default)	Power	kW	3	3	3	3	3
	Stages		1	1	1	1	1
Electrical protection degree			IPX4	IPX4	IPX4	IPX4	IPX4
Standard control			GR-LC07	GR-LC07	GR-LC07	GR-LC07	GR-LC07
Sound power		dB	58	59	60	64	65
DIMENSIONS AND WEIGHT							
Net dimensions (WxHxD)		mm	370x680x1125	370x680x1125	370x803x1135	370x803x1135	435x860x1203
Gross dimensions (WxHxD)		mm	440x865x1195	440x865x1195	488x982x1260	488x982x1260	495x1040x1305
Net/Gross weight		Kg	78/93	80/95	88/104	97/117	117/136
CONNECTIONS							
Hydraulic connections	Inlet	"	1	1	1	1	1
	Outlet	"	1	1	1	1	1

Notes:
Data reported in accordance with European standards: EN14511; EN14825; EN12102; (EU) C. no. 813/2013;
1. Outside air temperature 7ºC DB, 85% R.H.; Inlet water temperature 30ºC, outlet water temperature 35ºC
2. Outside air temperature 7ºC DB, 85% R.H.; Inlet water temperature 40ºC, outlet water temperature 45ºC
3. Outside air temperature 7ºC DB, 85% R.H.; Inlet water temperature 47ºC, outlet water temperature 55ºC
4. Outside air temperature 35ºC DB, 85% R.H.; Inlet water temperature 23ºC, outlet water temperature 18ºC
5. Outside air temperature 35ºC DB, 85% R.H.; Inlet water temperature 12ºC, outlet water temperature 7ºC
6. Test standard: EN12102-1

giatsu
Professional Comfort Solutions

HPWH RANGE

The Solar Keymark
CEN Keymark Scheme

ErP ready | R-32 | 65º DELIVERY TEMPERATURE | 3 YEAR GUARANTEE TOTAL QUALITY COMMITMENT

SEER 8,77 at 18º
SCOP 5,05 at 35º
*DEPENDING MODEL

A+++ EER

ECO-THERMAL
MONOBLOCK

MCS | RoHS | WiFi INCLUDED | T1/T2 2 Zone Control | 8 Performance curves | Compatible with solar thermal energy and photovoltaic | Electric resistance | Anti-legionella function | Optional Modbus Gateway | DC inverter compressor and fans | Chronothermostatic wired control | MODE 6 operating modes | Cold and Heat mode | Wide operating range -25º at 43º | Higher efficiency at low temperature | Configurable temperature range

MODEL			GIA-EC160WEN8BP-R32	GIA-EC120WEN8BPT3R32	GIA-EC140WEN8BPT3R32	GIA-EC160WEN8BPT3R32
EAN CODE			8435483845213	8435483845220	8435483845237	8435483845244
Power Supply		V,P,HZ	220-240V (1 Phase ~ 50Hz)		380-415V (3 Phase ~ 50Hz)	
PERFORMANCE						
Heating[1]	Capacity	kW	15.91	12.06	14.47	15.91
	Consumption	kW	3.46	2.57	2.99	3.42
	COP	-	4.61	4.7	4.84	4.65
Heating[2]	Capacity	kW	15.9	12.1	14.5	15.9
	Consumption	kW	4.63	3.36	3.89	4.63
	COP	-	3.43	3.6	3.72	3.43
Heating[3]	Capacity	kW	15.8	12.3	13.8	15.8
	Consumption	kW	6.12	4.44	4.42	6.12
	COP	-	2.58	2.77	3.12	2.58
Cooling[4]	Capacity	kW	15.72	11.85	14.14	15.72
	Consumption	kW	4.03	2.72	3.1	4.03
	EER	-	3.9	4.36	4.56	3.9
Cooling[5]	Capacity	kW	15.98	11.58	14.3	15.98
	Consumption	kW	6.12	4.14	5.11	6.12
	EER	-	2.61	2.8	2.8	2.61
Seasonal heating energy efficiency class[6]	LWT at 35ºC	-	A+++	A+++	A+++	A+++
	LWT at 55ºC	-	A++	A++	A++	A++
SCOP	LWT at 35ºC	-	4.65	4.65	4.56	4.65
	LWT at 55ºC	-	3.57	3.37	3.45	3.57
SEER	LWT at 7ºC	-	4.63	5.02	4.76	4.63
	LWT at 18ºC	-	6.51	8.15	6.72	6.51
MOP (Maximum Overcurrent Protection)		A	30	20	25	25
MCA (Minimum Circuit Amps)		A	27	16	21	21
Maximum flow temperature		ºC	65	65	65	65
Outdoor temperature operating range	Cooling	ºC	-5 a 43	-5 a 43	-5 a 43	-5 a 43
	Heating	ºC	-25 a 35	-25 a 35	-25 a 35	-25 a 35
	SHW	ºC	-25 a 43	-25 a 43	-25 a 43	-25 a 43
FEATURES						
Compressor	Type	-	Double rotary DC inverter			
Compressor Brand			Mitsubishi			
R32 refrigerant	Charge	kg	2.1	1.75	2.1	2.1
GWT			675	675	675	675
CO2 Equivalent		T	1,4175	1,18125	1,4175	1,4175
Refrigerant gas pressure	Max. / Min.	MPa	4,5 / 1,5	4,5 / 1,5	4,5 / 1,5	4,5 / 1,5
Outdoor fan	Motor type	-	Brushless DC Motor			
Number of fans			1	1	1	1
Air exchanger	Type		hydrophilic Al and Cu	hydrophilic Al and Cu	hydrophilic Al and Cu	hydrophilic Al and Cu
Secondary circulator	Delivery height	m	9	9	9	9
		m³/h	4,5	4,5	4,5	4,5
Water exchanger	Plates		AISI 316L	AISI 316L	AISI 316L	AISI 316L
Glass of expansion		l	5	5	5	5
Throttle type		-	Electronic expansion valve			
Load loss		kPa	25	39	37	36
Electric resistance (default)	Power	kW	3	9	9	9
	Stages		1	3	3	3
Electrical protection degree			IPX4	IPX4	IPX4	IPX4
Standard control			GR-LC07	GR-LC07	GR-LC07	GR-LC07
Sound power		dB	68	64	65	68
DIMENSIONS AND WEIGHT						
Net dimensions (WxHxD)		mm	435X860X1203	370x803x1135	435x860x1203	435x860x1203
Gross dimensions (WxHxD)		mm	495x1040x1305	488x982x1260	495x1040x1305	495x1040x1305
Net/Gross weight		Kg	117/136	109/126	131/150	131/150
CONNECTIONS						
Hydraulic connections	Inlet	"	1	1	1	1
	Outlet	"	1	1	1	1

Notes:
Data reported in accordance with European standards: EN14511; EN14825; EN12102; (EU) C. no. 813/2013;
1. Outside air temperature 7ºC DB, 85% R.H.; Inlet water temperature 30ºC, outlet water temperature 35ºC
2. Outside air temperature 7ºC DB, 85% R.H.; Inlet water temperature 40ºC, outlet water temperature 45ºC
3. Outside air temperature 7ºC DB, 85% R.H.; Inlet water temperature 47ºC, outlet water temperature 55ºC
4. Outside air temperature 35ºC DB, 85% R.H.; Inlet water temperature 23ºC, outlet water temperature 18ºC
5. Outside air temperature 35ºC DB, 85% R.H.; Inlet water temperature 12ºC, outlet water temperature 7ºC
6. Test standard: EN12102-1