Haier

R290
HYDRO OUTDOOR & MODULE

AW042HUGHA
AW062HUGHA
AW082HUGHA
AW102HUGHA

AW10NHUGHA

HU102WAHYA
HU162WAHYA

HU10NWAHYAE3
HU16NWAHYAE3

Our hydro Module indoor unit has the expansion vessel , flow switch and water pump inside the all in one unit.

The Hydro Module units has a wiring centre mounted inside them to make wiring simpler. It connects to he outdoor unit with a 2 core cable

Product Data			Hydro Split 4kW-1Ph	Hydro Split 6kW-1Ph	Hydro Split 8kW-1Ph	Hydro Split 10kW-1Ph	Hydro Split 10kW-3Ph
Heating (LWT 35°C / OAT 7°C)	Capacity	kW	4.00	6.00	8.00	10.00	10.00
	Power input	kW	0.73	1.12	1.50	1.96	1.96
	COP	W/W	5.50	5.35	5.35	5.10	5.10
Heating (LWT 55°C / OAT 7°C)	Capacity	kW	4.00	6.00	8.00	10.00	10.00
	Power input	kW	1.19	1.82	2.35	3.13	3.13
	COP	W/W	3.35	3.30	3.40	3.20	3.20
Space heating Average climate water outlet 35°C	SCOP	-	5.10	5.10	5.20	5.10	5.10
	ns	%	201	201	205	201	201
	Energy class	-	A+++	A+++	A+++	A+++	A+++
Space heating Average climate water outlet 55°C	SCOP	-	3.85	3.83	3.85	3.83	3.83
	ns	%	151	150	151	150	150
	Energy class	-	A+++	A+++	A+++	A+++	A+++
Cooling (LWT 18°C / OAT 35°C)	Capacity	kW	4.00	6.00	7.50	9.50	9.50
	Power input	kW	0.79	1.20	1.58	2.21	2.21
	EER	-	5.05	5.00	4.75	4.30	4.30
Cooling (LWT 7°C / OAT 35°C)	Capacity	kW	3.50	5.00	6.80	8.50	8.50
	Power input	kW	0.95	1.37	1.97	2.62	2.62
	EER	-	3.70	3.65	3.45	3.25	3.25
Indoor Unit			HU102WAHYA	HU102WAHYA	HU102WAHYA	HU102WAHYA	HU10NWAHYAE3
Leaving water temperature range	Heating	°C	20~80	20~80	20~80	20~80	20~80
	Cooling	°C	5~25	5~25	5~25	5~25	5~25
Storage temperature range (Tank)	DHW	°C	25~75	25~75	25~75	25~75	25~75
Water piping Connection	Inlet/Outlet	inch	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1
Expansion Tank		L	8	8	8	8	8
Backup eletric heater	Capacity	kW	1+2	1+2	1+2	1+2	1+2
Power supply		V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50
Max running current		A	14.1	14.1	14.1	14.1	5.0
Recommended circuit breaker		A	20.0	20.0	20.0	20.0	10.0
Sound power level		dB	40	40	40	40	40
Net Dimension	(HxWxD)	mm	850 × 480 × 310	850 × 480 × 310	850 × 480 × 310	850 × 480 × 310	850 × 480 × 310
Packaging dimension	(HxWxD)	mm	1020 × 580 × 460	1020 × 580 × 460	1020 × 580 × 460	1020 × 580 × 460	1020 × 580 × 460
Net / Gross weight	HU1*2WAHYA**	kg	35.5 / 49	35.5 / 49	35.5 / 49	35.5 / 49	36 / 49.5
	HU1*2WAHYB**	kg	32.5/46	32.5/46	32.5/46	32.5/46	/
Outdoor Unit			AW042HUGHA	AW062HUGHA	AW082HUGHA	AW102HUGHA	AW10NHUGHA
Outdoor operating temperature range	Heating	°C	-25 ~35	-25 ~35	-25 ~35	-25 ~35	-25 ~35
	Cooling	°C	10 ~ 48	10 ~ 48	10 ~ 48	10 ~ 48	10 ~ 48
	DHW	°C	-25 ~43	-25 ~43	-25 ~43	-25 ~43	-25 ~43
Water piping connection	Inlet/Outlet	inch	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1
Compressor	Quantity	-	1	1	1	1	1
	Type	-	DC inverter twin rotary				
Refrigerant	Type	-	R290				
	Charge/CO2 Eq.	kg/T	0.8/2.4	0.8/2.4	0.9/2.7	0.9/2.7	0.9/2.7
Sound pressure level *(1)		dB(A)	44	47	48	49	49
Sound power level *(1)		dB	55	58	59	60	60
Net Dimension	(HxWxD)	mm	790 × 1250 × 380	790 × 1250 × 380	790 × 1250 × 380	790 × 1250 × 380	790 × 1250 × 380
Packaging dimension	(HxWxD)	mm	1022 × 1395 × 550	1022 × 1395 × 550	1022 × 1395 × 550	1022 × 1395 × 550	1022 × 1395 × 550
Net / Gross weight		kg	86/109	86/109	98/121	98/121	113/136
Power supply		V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50
Max running current		A	13.5	13.5	18.6	18.6	6.2
Recommended ciruit breaker		A	16.0	16.0	20.0	20.0	16.0

* (1)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)
* HU1*2WAHYA** stands for the unit without 3-way valve, with expansion tank
* HU1*2WAHYB** stands for the unit with 3-way valve, without expansion tank

R290
R290

A+++/A+++

±80°C
Max. 80°C hot water

Climate Curve

2 Zone Control

AUTO
Auto Mode

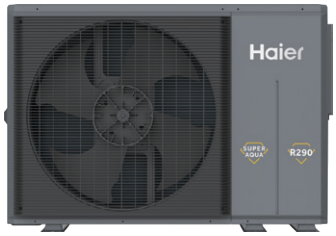
Smart Grid

BMS
Modbus

Pool Heating

Anti-freezing

R290
HYDRO OUTDOOR & MODULE



AW122HVGHA
AW142HVGHA
AW162HVGHA

AW12NHVGHA
AW14NHVGHA
AW16NHVGHA

HU102WAHYA
HU162WAHYA

HU10NWAHYAE3
HU16NWAHYAE3

Our hydro Module indoor unit has the expansion vessel , flow switch and water pump inside the all in one unit.

The Hydro Module units has a wiring centre mounted inside them to make wiring simpler. It connects to he outdoor unit with a 2 core cable

Product Data			Hydro Split 12kW-1Ph	Hydro Split 14kW-1Ph	Hydro Split 16kW-1Ph	Hydro Split 12kW-3Ph	Hydro Split 14kW-3Ph	Hydro Split 16kW-3Ph
Heating (LWT 35°C / OAT 7°C)	Capacity	kW	12.00	14.00	16.00	12.00	14.00	16.00
	Power input	kW	2.35	2.83	3.23	2.35	2.83	3.23
	COP	W/W	5.10	4.95	4.95	5.10	4.95	4.95
Heating (LWT 55°C / OAT 7°C)	Capacity	kW	11.50	13.50	15.50	11.50	13.50	15.50
	Power input	kW	3.48	4.22	5.08	3.48	4.22	5.08
	COP	W/W	3.30	3.20	3.05	3.30	3.20	3.05
Space heating Average climate water outlet 35°C	SCOP	-	4.82	4.80	4.80	4.82	4.80	4.80
	ns	%	190	189	189	190	189	189
	Energy class	-	A+++	A+++	A+++	A+++	A+++	A+++
Space heating Average climate water outlet 55°C	SCOP	-	3.85	3.83	3.85	3.85	3.83	3.85
	ns	%	151	150	151	151	150	151
	Energy class	-	A+++	A+++	A+++	A+++	A+++	A+++
Cooling (LWT 18°C / OAT 35°C)	Capacity	kW	11.50	13.50	15.50	11.50	13.50	15.50
	Power input	kW	2.56	3.14	3.88	2.56	3.14	3.88
	EER	-	4.50	4.30	4.00	4.50	4.30	4.00
Cooling (LWT 7°C / OAT 35°C)	Capacity	kW	10.00	12.00	14.00	10.00	12.00	14.00
	Power input	kW	2.99	3.75	4.52	2.99	3.75	4.52
	EER	-	3.35	3.20	3.10	3.35	3.20	3.10
Indoor Unit			**HU162WAHYA**	**HU162WAHYA**	**HU162WAHYA**	**HU16NWAHYAE3**	**HU16NWAHYAE3**	**HU16NWAHYAE3**
Leaving water temperature range	Heating	°C	20~80	20~80	20~80	20~80	20~80	20~80
	Cooling	°C	5~25	5~25	5~25	5~25	5~25	5~25
Storage temperature range (Tank)	DHW	°C	25~75	25~75	25~75	25~75	25~75	25~75
Water piping Connection	Inlet/Outlet	inch	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1
Expansion Tank		L	8	8	8	8	8	8
Backup eletric heater	Capacity	kW	2+4	2+4	2+4	2+4	2+4	2+4
Power supply		V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
Max running current		A	28.2	28.2	28.2	9.5	9.5	9.5
Recommended circuit breaker		A	40.0	40.0	40.0	16.0	16.0	16.0
Sound power level		dB	42	42	42	42	42	42
Net Dimension	HxWxD	mm	850 × 480 × 310	850 × 480 × 310	850 × 480 × 310	850 × 480 × 310	850 × 480 × 310	850 × 480 × 310
Packaging dimension	HxWxD	mm	1020 × 580 × 460	1020 × 580 × 460	1020 × 580 × 460	1020 × 580 × 460	1020 × 580 × 460	1020 × 580 × 460
Net / Gross weight	HU1*2WAHYA**	kg	37 / 50.5	37 / 50.5	37 / 50.5	37.5 / 51	37.5 / 51	37.5 / 51
	HU1*2WAHYB**	kg	34/47.5	34/47.5	34/47.5	34.5/48	34.5/48	34.5/48
Outdoor Unit			**AW122HVGHA**	**AW142HVGHA**	**AW162HVGHA**	**AW12NHVGHA**	**AW14NHVGHA**	**AW16NHVGHA**
Outdoor operating temperature range	Heating	°C	-25 ~35	-25 ~35	-25 ~35	-25 ~35	-25 ~35	-25 ~35
	Cooling	°C	10 ~ 48	10 ~ 48	10 ~ 48	10 ~ 48	10 ~ 48	10 ~ 48
	DHW	°C	-25 ~43	-25 ~43	-25 ~43	-25 ~43	-25 ~43	-25 ~43
Water piping connection	Inlet/Outlet	inch	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1
Compressor	Quantity	-	1	1	1	1	1	1
	Type	-	DC inverter twin rotary					
Refrigerant	Type	-	R290					
	Charge/CO2 Eq.	kg/T	1.05/3.15	1.05/3.15	1.25/3.75	1.05/3.15	1.05/3.15	1.25/3.75
Sound pressure level *(1)		dB(A)	52	53	55	52	53	55
Sound power level *(1)		dB	63	64	66	63	64	66
Net Dimension	HxWxD	mm	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460
Packaging dimension	HxWxD	mm	1112 × 1396 × 630	1112 × 1396 × 630	1112 × 1396 × 630	1112 × 1396 × 630	1112 × 1396 × 630	1112 × 1396 × 630
Net / Gross weight		kg	114/140	114/140	123/149	129/155	129/155	138/164
Power supply		V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
Max running current		A	30.6	30.6	34.8	10.2	10.2	11.6
Recommended ciruit breaker		A	32.0	32.0	40.0	16.0	16.0	16.0

* (1)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)
* HU1*2WAHYA** stands for the unit without 3-way valve, with expansion tank
* HU1*2WAHYB** stands for the unit with 3-way valve, without expansion tank

R290
R290

A+++/A+++

±80°C
Max. 80°C hot water

Climate Curve

2 Zone Control

AUTO
Auto Mode

Smart Grid

BMS
Modbus

Pool Heating

Anti-freezing

The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.

Haier

R290

HYDRO OUTDOOR: Build it yourself

AW042HUGHA
AW062HUGHA
AW082HUGHA
AW102HUGHA

AW10NHUGHA

ATW-E03
(standard)

If you want to build your own system, or want to build a pre -plumbed cylinder we offer a build it yourself system. This uses the hydro outdoor unit.

You then need the build it yourself kit **ATW-E02N** which comprises the flow switch and the wiring centre **ATW-A03N**

The installer needs to supply a water pump and expanison vessel for the system.

Product Data			Hydro Split 4kW-1Ph	Hydro Split 6kW-1Ph	Hydro Split 8kW-1Ph	Hydro Split 10kW-1Ph	Hydro Split 10kW-3Ph
Heating (LWT 35°C / OAT 7°C)	Capacity	kW	4.00	6.00	8.00	10.00	10.00
	Power input	kW	0.73	1.12	1.50	1.96	1.96
	COP	W/W	5.50	5.35	5.35	5.10	5.10
Heating (LWT 55°C / OAT 7°C)	Capacity	kW	4.00	6.00	8.00	10.00	10.00
	Power input	kW	1.19	1.82	2.35	3.13	3.13
	COP	W/W	3.35	3.30	3.40	3.20	3.20
Space heating Average climate water outlet 35°C	SCOP	-	5.10	5.10	5.20	5.10	5.10
	ns	%	201	201	205	201	201
	Energy class	-	A+++	A+++	A+++	A+++	A+++
Space heating Average climate water outlet 55°C	SCOP	-	3.85	3.83	3.85	3.83	3.83
	ns	%	151	150	151	150	150
	Energy class	-	A+++	A+++	A+++	A+++	A+++
Cooling (LWT 18°C / OAT 35°C)	Capacity	kW	4.00	6.00	7.50	9.50	9.50
	Power input	kW	0.79	1.20	1.58	2.21	2.21
	EER	-	5.05	5.00	4.75	4.30	4.30
Cooling (LWT 7°C / OAT 35°C)	Capacity	kW	3.50	5.00	6.80	8.50	8.50
	Power input	kW	0.95	1.37	1.97	2.62	2.62
	EER	-	3.70	3.65	3.45	3.25	3.25
Outdoor Unit			**AW042HUGHA**	**AW062HUGHA**	**AW082HUGHA**	**AW102HUGHA**	**AW10NHUGHA**
Outdoor operating temperature range	Heating	°C	-25 ~35	-25 ~35	-25 ~35	-25 ~35	-25 ~35
	Cooling	°C	10 ~ 48	10 ~ 48	10 ~ 48	10 ~ 48	10 ~ 48
	DHW	°C	-25 ~43	-25 ~43	-25 ~43	-25 ~43	-25 ~43
Water piping connection	Inlet/Outlet	inch	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1
Compressor	Quantity	-	1	1	1	1	1
	Type	-	DC inverter twin rotary				
Refrigerant	Type	-	R290				
	Charge/CO2 Eq.	kg/T	0.8/2.4	0.8/2.4	0.9/2.7	0.9/2.7	0.9/2.7
Sound pressure level *(1)		dB(A)	44	47	48	49	49
Sound power level *(1)		dB	55	58	59	60	60
Net Dimension	(HxWxD)	mm	790 × 1250 × 380	790 × 1250 × 380	790 × 1250 × 380	790 × 1250 × 380	790 × 1250 × 380
Packaging dimension	(HxWxD)	mm	1022 × 1395 × 550	1022 × 1395 × 550	1022 × 1395 × 550	1022 × 1395 × 550	1022 × 1395 × 550
Net / Gross weight		kg	86/109	86/109	98/121	98/121	113/136
Power supply		V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50
Max running current		A	13.5	13.5	18.6	18.6	6.2
Recommended ciruit breaker		A	16.0	16.0	20.0	20.0	16.0

* (1)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)
* HU1*2WAHYA** stands for the unit without 3-way valve, with expansion tank
* HU1*2WAHYB** stands for the unit with 3-way valve, without expansion tank

R290
R290

A+++/A+++

±80°C
Max. 80°C hot water

Climate Curve

2 Zone Control

AUTO
Auto Mode

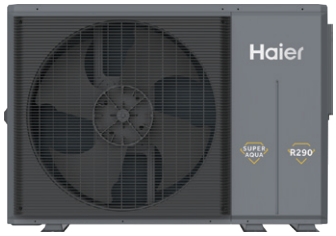
Smart Grid

BMS
Modbus

Pool Heating

Anti-freezing

R290
HYDRO OUTDOOR: Build it yourself



AW122HVGHA
AW142HVGHA
AW162HVGHA

AW12NHVGHA
AW14NHVGHA
AW16NHVGHA

ATW-E02N
(standard)

If you want to build your own system, or want to build a pre -plumbed cylinder we offer a build it yourself system. This uses the hydro outdoor unit.

You then need the build it yourself kit **ATW-E02N** which comprises the flow switch and the wiring centre **ATW-A03N**

The installer needs to supply a water pump and expanison vessel for the system.

Product Data			Hydro Split 12kW-1Ph	Hydro Split 14kW-1Ph	Hydro Split 16kW-1Ph	Hydro Split 12kW-3Ph	Hydro Split 14kW-3Ph	Hydro Split 16kW-3Ph
Heating (LWT 35°C / OAT 7°C)	Capacity	kW	12.00	14.00	16.00	12.00	14.00	16.00
	Power input	kW	2.35	2.83	3.23	2.35	2.83	3.23
	COP	W/W	5.10	4.95	4.95	5.10	4.95	4.95
Heating (LWT 55°C / OAT 7°C)	Capacity	kW	11.50	13.50	15.50	11.50	13.50	15.50
	Power input	kW	3.48	4.22	5.08	3.48	4.22	5.08
	COP	W/W	3.30	3.20	3.05	3.30	3.20	3.05
Space heating Average climate water outlet 35°C	SCOP	-	4.82	4.80	4.80	4.82	4.80	4.80
	ns	%	190	189	189	190	189	189
	Energy class	-	A+++	A+++	A+++	A+++	A+++	A+++
Space heating Average climate water outlet 55°C	SCOP	-	3.85	3.83	3.85	3.85	3.83	3.85
	ns	%	151	150	151	151	150	151
	Energy class	-	A+++	A+++	A+++	A+++	A+++	A+++
Cooling (LWT 18°C / OAT 35°C)	Capacity	kW	11.50	13.50	15.50	11.50	13.50	15.50
	Power input	kW	2.56	3.14	3.88	2.56	3.14	3.88
	EER	-	4.50	4.30	4.00	4.50	4.30	4.00
Cooling (LWT 7°C / OAT 35°C)	Capacity	kW	10.00	12.00	14.00	10.00	12.00	14.00
	Power input	kW	2.99	3.75	4.52	2.99	3.75	4.52
	EER	-	3.35	3.20	3.10	3.35	3.20	3.10
Outdoor Unit			**AW122HVGHA**	**AW142HVGHA**	**AW162HVGHA**	**AW12NHVGHA**	**AW14NHVGHA**	**AW16NHVGHA**
Outdoor operating temperature range	Heating	°C	-25 ~35	-25 ~35	-25 ~35	-25 ~35	-25 ~35	-25 ~35
	Cooling	°C	10 ~ 48	10 ~ 48	10 ~ 48	10 ~ 48	10 ~ 48	10 ~ 48
	DHW	°C	-25 ~43	-25 ~43	-25 ~43	-25 ~43	-25 ~43	-25 ~43
Water piping connection	Inlet/Outlet	inch	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1
Compressor	Quantity	-	1	1	1	1	1	1
	Type	-	DC inverter twin rotary					
Refrigerant	Type	-	R290					
	Charge/CO2 Eq.	kg/T	1.05/3.15	1.05/3.15	1.25/3.75	1.05/3.15	1.05/3.15	1.25/3.75
Sound pressure level *(1)		dB(A)	52	53	55	52	53	55
Sound power level *(1)		dB	63	64	66	63	64	66
Net Dimension	HxWxD	mm	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460	880 × 1250 × 460
Packaging dimension	HxWxD	mm	1112 × 1396 × 630	1112 × 1396 × 630	1112 × 1396 × 630	1112 × 1396 × 630	1112 × 1396 × 630	1112 × 1396 × 630
Net / Gross weight		kg	114/140	114/140	123/149	129/155	129/155	138/164
Power supply		V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
Max running current		A	30.6	30.6	34.8	10.2	10.2	11.6
Recommended ciruit breaker		A	32.0	32.0	40.0	16.0	16.0	16.0

* (1)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)
* HU1*2WAHYA** stands for the unit without 3-way valve, with expansion tank
* HU1*2WAHYB** stands for the unit with 3-way valve, without expansion tank

R290
R290

A+++/A+++
A+++/A+++

±80°C
Max. 80°C hot water

Climate Curve
Climate Curve

2 Zone Control
2 Zone Control

AUTO
Auto Mode

Smart Grid
Smart Grid

BMS
Modbus

Pool Heating
Pool Heating

Anti-freezing
Anti-freezing

The data in this catalogue is purely indicative as the data may vary. Please be advised to check the accuracy of the data with the supplier before purchasing products.