

HYDRO ALL-IN-ONE R290



AW042HUGHA
AW062HUGHA
AW082HUGHA
AW102HUGHA

AW10NHUGHA



HU102F20AHYA
HU162F20AHYA

HU102F20AHYAE3
HU162F20AHYAE3

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

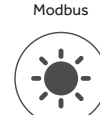
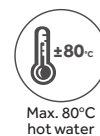
The all in one units have a wiring centre mounted inside them to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

Model			Hydro All in one 4kW-1Ph	Hydro All in one 6kW-1Ph	Hydro All in one 8kW-1Ph	Hydro All in one 10kW-1Ph	Hydro All in one 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			HU102F20AHYA	HU102F20AHYA	HU102F20AHYA	HU102F20AHYA	HU102F20AHYAE3
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 (except for DHW)	inch	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1	R 1/R 1
	Inlet/Outlet (DHW)	inch	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4
Expansion Tank	L		8	8	8	8	8
Primary circuit	Pressure relief valve	bar	3	3	3	3	3
Power supply	V/ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Max running current*(1)	A		14.1	14.1	14.1	14.1	14.1
Recommended circuit breaker	A		20.0	20.0	20.0	20.0	20.0
DHW Tank	Type	-	2205 duplex stainless steel				
	Tank Volume	L	200	200	200	200	200
	Maximum water pressure limit	bar	7	7	7	7	7
	Tank heater	kW	3	3	3	3	3
Declared load profile	-	L	L	L	L	L	L
COP*(2)	-		3.37	3.37	3.45	3.45	3.45
Water heating energy efficiency class	-		A+	A+	A+	A+	A+
Backup electric heater	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
	Capacity	kW	1+2	1+2	1+2	1+2	1+2
	Steps	-	2	2	2	2	2
	Max Running current	A	14.0	14.0	14.0	14.0	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	1780 × 590 × 595	1780 × 590 × 595	1780 × 590 × 595	1780 × 590 × 595	1780 × 590 × 595
Packaging dimension	(HxWxD)	mm	2060 × 695 × 695	2060 × 695 × 695	2060 × 695 × 695	2060 × 695 × 695	2060 × 695 × 695
Net / Gross weight	kg		115 / 131	115 / 131	115 / 131	115 / 131	115.5 / 131.5
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 *(3)	dB(A)		44	47	48	49	49
Sound power level *(3)	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 circuit breaker	A		16.0	16.0	20.0	20.0	16.0

*(1)Max running current does not include backup electric heater, which is individually powered on.

*(2)The testing conditions refer to EN16147 average climate

*(3)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)



HYDRO ALL-IN-ONE R290



AW122HVGHA
AW142HVGHA
AW162HVGHA

AW12NHVGHA
AW14NHVGHA
AW16NHVGHA



HU102F20AHYA
HU162F20AHYA

HU102F20AHYAE3
HU162F20AHYAE3

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

The all in one units have a wiring centre mounted inside them to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

Model			Hydro All in one 12kW-1Ph	Hydro All in one 14kW-1Ph	Hydro All in one 16kW-1Ph	Hydro All in one 12kW-3Ph	Hydro All in one 14kW-3Ph	Hydro All in one 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			HU162F20AHYA	HU162F20AHYA	HU162F20AHYA	HU162F20AHYAE3	HU162F20AHYAE3	HU162F20AHYAE3
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 (except for DHW)	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
	Inlet/Outlet (DHW)	inch	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4
Expansion Tank		L	8	8	8	8	8	8
Primary circuit	Pressure relief valve	bar	3	3	3	3	3	3
Power supply		V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Max running current*(1)		A	15.0	15.0	15.0	15.0	15.0	15.0
Recommended circuit breaker		A	20.0	20.0	20.0	20.0	20.0	20.0
DHW Tank	Type	-	2205 duplex stainless steel					
	Tank Volume	L	200	200	200	200	200	200
	Maximum water pressure limit	bar	7	7	7	7	7	7
	Tank heater	kW	3	3	3	3	3	3
Declared load profile		-	L	L	L	L	L	L
COP*(2)		-	3.5	3.5	3.5	3.5	3.5	3.5
Water heating energy efficiency class		-	A+	A+	A+	A+	A+	A+
Backup electric heater	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
	Capacity	kW	2+4	2+4	2+4	2+4	2+4	2+4
	Steps	-	2	2	2	2	2	2
	Max Running current	A	27.5	27.5	27.5	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	1780 × 590 × 595	1780 × 590 × 595	1780 × 590 × 595	1780 × 590 × 595	1780 × 590 × 595	1780 × 590 × 595
Packaging dimension	(HxWxD)	mm	2060 × 695 × 695	2060 × 695 × 695	2060 × 695 × 695	2060 × 695 × 695	2060 × 695 × 695	2060 × 695 × 695
Net / Gross weight		kg	116.5 / 132.5	116.5 / 132.5	116.5 / 132.5	117 / 133	117 / 133	117 / 133
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 *(3)		dB(A)	52	53	55	52	53	55
Sound power level *(3)		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 circuit breaker		A	32.0	32.0	40.0	16.0	16.0	16.0

*(1) Max running current does not include backup electric heater, which is individually powered on.

*(2) The testing conditions refer to EN16147 average climate

*(3) The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)

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.



R290



A+++ / A+++



Max. 80°C hot water



Climate Curve



2 Zone Control



Auto Mode



Smart Grid



BMS



Modbus



Pool Heating



Anti-freezing

HYDRO ALL-IN-ONE R290



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HU102F16AHYA
HU102F16AHYAE3

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The all in one units have a wiring centre mounted inside them to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

Model			Hydro All in one 4kW-1Ph	Hydro All in one 6kW-1Ph	Hydro All in one 8kW-1Ph	Hydro All in one 10kW-1Ph	Hydro All in one 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			HU102F16AHYA	HU102F16AHYA	HU102F16AHYA	HU102F16AHYA	HU102F16AHYAE3
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 (except for DHW)	inch	R 1/ R 1	R 1/ R 1	R 1/ R 1	R 1/ R 1	R 1/ R 1
	Inlet/Outlet (DHW)	inch	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4
Expansion Tank	L		8	8	8	8	8
Primary circuit	Pressure relief valve	bar	3	3	3	3	3
Power supply	V/ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Max running current*(1)	A		14.1	14.1	14.1	14.1	14.1
Recommended circuit breaker	A		20.0	20.0	20.0	20.0	20.0
DHW Tank	Type	-	2205 duplex stainless steel				
	Tank Volume	L	160	160	160	160	160
	Maximum water pressure limit	bar	7	7	7	7	7
	Tank heater	kW	3	3	3	3	3
Declared load profile	-	L	L	L	L	L	L
COPx(2)	-		3.16	3.16	3.16	3.16	3.16
Water heating energy efficiency class	-		A+	A+	A+	A+	A+
Backup electric heater	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
	Capacity	kW	1+2	1+2	1+2	1+2	1+2
	Steps	-	2	2	2	2	2
	Max Running current	A	14.0	14.0	14.0	14.0	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	1580x590x590	1580x590x590	1580x590x590	1580x590x590	1580x590x590
Packaging dimension	(HxWxD)	mm	1860x695x695	1860x695x695	1860x695x695	1860x695x695	1860x695x695
Net / Gross weight	kg		103 / 121	103 / 121	103 / 121	103 / 121	103.5 / 121.5
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 *(3)	dB(A)		44	47	48	49	49
Sound power level *(3)	dB		55	58	59	60	60
Net Dimension	(HxWxD)	mm	790x1250x380	790x1250x380	790x1250x380	790x1250x380	790x1250x380
Packaging dimension	(HxWxD)	mm	1022x1395x550	1022x1395x550	1022x1395x550	1022x1395x550	1022x1395x550
Net / Gross weight	kg		82/106	82/106	91/115	91/115	101/125
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 circuit breaker	A		16.0	16.0	20.0	20.0	16.0

*(1)Max running current does not include backup electric heater, which is individually powered on.

*(2)The testing conditions refer to EN16147 average climate

*(3)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)



NEW

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The all in one units have a wiring centre mounted inside them to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

Model			Hydro All in one 4kW-1Ph	Hydro All in one 6kW-1Ph	Hydro All in one 8kW-1Ph	Hydro All in one 10kW-1Ph	Hydro All in one 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			HU102F24AHYA	HU102F24AHYA	HU162F24AHYA	HU162F24AHYA	HU102F24AHYAE3
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 (except for DHW)	inch	R 1/ R 1	R 1/ R 1	R 1/ R 1	R 1/ R 1	R 1/ R 1
	Inlet/Outlet (DHW)	inch	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4
Expansion Tank	L		8	8	8	8	8
Primary circuit	Pressure relief valve	bar	3	3	3	3	3
Power supply	V/ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Max running current*(1)	A		14.1	14.1	14.1	14.1	14.1
Recommended circuit breaker	A		20.0	20.0	20.0	20.0	20.0
DHW Tank	Type	-	2205 duplex stainless steel				
	Tank Volume	L	240	240	240	240	240
	Maximum water pressure limit	bar	7	7	7	7	7
	Tank heater	kW	3	3	3	3	3
Declared load profile	-		XL	XL	XL	XL	XL
COPx(2)	-		3.17	3.17	3.17	3.17	3.13
Water heating energy efficiency class	-		A+	A+	A+	A+	A+
Backup electric heater	Power supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Capacity	kW	1+2	1+2	1+2	1+2	2+4
	Steps	-	2	2	2	2	2
	Max Running current	A	14.0	14.0	14.0	14.0	27.5
	Recommended circuit breaker	A	20.0	20.0	20.0	20.0	40.0
Sound power level	dB		40	40	40	40	42
Net Dimension	(HxWxD)	mm	1985x590x590	1985x590x590	1985x590x590	1985x590x590	1985x590x590
Packaging dimension	(HxWxD)	mm	2265x695x695	2265x695x695	2265x695x695	2265x695x695	2265x695x695
Net / Gross weight	kg		120.5 / 139.5	120.5 / 139.5	120.5 / 139.5	120.5 / 139.5	122 / 141
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	1.05/3.15
Sound pressure level *(3)	dB(A)		44	47	48	49	52
Sound power level *(3)	dB		55	58	59	60	63
Net Dimension	(HxWxD)	mm	790x1250x380	790x1250x380	790x1250x380	790x1250x380	880x1250x460
Packaging dimension	(HxWxD)	mm	1022x1395x550	1022x1395x550	1022x1395x550	1022x1395x550	1112x1396x630
Net / Gross weight	kg		82/106	82/106	91/115	91/115	111/138
Power supply	V/ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Max running current	A		13.5	13.5	18.6	18.6	30.6
Recommended circuit breaker	A		16.0	16.0	20.0	20.0	32.0

*(1)Max running current does not include backup electric heater, which is individually powered on.

*(2)The testing conditions refer to EN16147 average climate

*(3)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)

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.



HYDRO ALL-IN-ONE R290



AW122HVGHA
AW142HVGHA
AW162HVGHA



HU162F24AHYA

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

The all in one units have a wiring centre mounted inside them to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

Model			Hydro All in one 12kW-1Ph	Hydro All in one 14kW-1Ph	Hydro All in one 16kW-1Ph
Heating (LWT 35°C / OAT 7°C)	Capacity	kW	12.00	14.00	16.00
	Power input	kW	2.35	2.83	3.23
	COP	W/W	5.10	4.95	4.95
Heating (LWT 55°C / OAT 7°C)	Capacity	kW	11.50	13.50	15.50
	Power input	kW	3.48	4.22	5.08
	COP	W/W	3.30	3.20	3.05
Space heating Average climate water outlet 35°C	SCOP	-	4.82	4.80	4.80
	ns	%	190	189	189
	Energy class	-	A+++	A+++	A+++
Space heating Average climate water outlet 55°C	SCOP	-	3.85	3.83	3.85
	ns	%	151	150	151
	Energy class	-	A+++	A+++	A+++
Cooling (LWT 18°C / OAT 35°C)	Capacity	kW	11.50	13.50	15.50
	Power input	kW	2.56	3.14	3.88
	EER	-	4.50	4.30	4.00
Cooling (LWT 7°C / OAT 35°C)	Capacity	kW	10.00	12.00	14.00
	Power input	kW	2.99	3.75	4.52
	EER	-	3.35	3.20	3.10
Indoor Unit			HU162F24AHYA	HU162F24AHYA	HU162F24AHYA
Leaving water temperature range	Heating	°C	20-80	20-80	20-80
	Cooling	°C	5-25	5-25	5-25
Storage temperature range (Tank)	DHW	°C	25-75	25-75	25-75
Water piping Connection	Inlet/Outlet (except for DHW)	inch	R 1/ R 1	R 1/ R 1	R 1/ R 1
	Inlet/Outlet (DHW)	inch	R 3/4	R 3/4	R 3/4
Expansion Tank	L		8	8	8
Primary circuit	Pressure relief valve	bar	3	3	3
Power supply	V/ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50
Max running current*(1)	A		14.1	15.0	15.0
Recommended circuit breaker	A		20.0	20.0	20.0
DHW Tank	Type	-	2205 duplex stainless steel		
	Tank Volume	L	240	240	240
	Maximum water pressure limit	bar	7	7	7
	Tank heater	kW	3	3	3
Declared load profile	-		XL	XL	XL
COPx(2)	-		3.17	3.13	3.13
Water heating energy efficiency class	-		A+	A+	A+
Backup electric heater	Power supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Capacity	kW	1+2	2+4	2+4
	Steps	-	2	2	2
	Max Running current	A	14.0	27.5	27.5
	Recommended circuit breaker	A	20.0	40.0	40.0
Sound power level	dB		40	42	42
Net Dimension	(HxWxD)	mm	1985x590x590	1985x590x590	1985x590x590
Packaging dimension	(HxWxD)	mm	2265x695x695	2265x695x695	2265x695x695
Net / Gross weight		kg	120.5 / 139.5	122 / 141	122 / 141
Outdoor Unit			AW122HVGHA	AW142HVGHA	AW162HVGHA
Outdoor operating temperature range	Heating	°C	-25 ~ 35	-25 ~ 35	-25 ~ 35
	Cooling	°C	10 ~ 48	10 ~ 48	10 ~ 48
	DHW	°C	-25 ~ 43	-25 ~ 43	-25 ~ 43
Water piping connection	Inlet/Outlet	inch	R 1/ R 1	R 1/ R 1	R 1/ R 1
	Quantity	-	1	1	1
Compressor	Type	-	DC inverter twin rotary		
	Type	-	R290		
Refrigerant	Charge/CO2 Eq.	kg/T	1.05/3.15	1.05/3.15	1.25/3.75
	Sound pressure level *(3)	dB(A)	52	53	55
Sound power level *(3)		dB	63	64	66
	Net Dimension	(HxWxD)	880x1250x460	880x1250x460	880x1250x460
Packaging dimension	(HxWxD)	mm	1112x1396x630	1112x1396x630	1112x1396x630
Net / Gross weight		kg	111/138	111/138	115/142
Power supply	V/ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50
Max running current	A		30.6	34.8	34.8
Recommended circuit breaker	A		32.0	32.0	40.0

*(1)Max running current does not include backup electric heater, which is individually powered on.

*(2)The testing conditions refer to EN16147 average climate

*(3)The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)



NEW

HYDRO ALL-IN-ONE R290



AW042HUGHA
AW142HVGHA
AW162HVGHA
AW16NHVGHA



HU102F24AHYA
HU102F24AHYAE
HU162F24AHYA
HU162F24AHYAE3

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

The all in one units have a wiring centre mounted inside them to make wiring simpler. It connects to the outdoor unit with a 2 core cable.

Model			Hydro All in one 12kW-3Ph	Hydro All in one 14kW-3Ph	Hydro All in one 16kW-3Ph
Heating (LWT 35°C / OAT 7°C)	Capacity	kW	12.00	14.00	16.00
	Power input	kW	2.35	2.83	3.23
	COP	W/W	5.10	4.95	4.95
Heating (LWT 55°C / OAT 7°C)	Capacity	kW	11.50	13.50	15.50
	Power input	kW	3.48	4.22	5.08
	COP	W/W	3.30	3.20	3.05
Space heating Average climate water outlet 35°C	SCOP	-	4.82	4.80	4.80
	ns	%	190	189	189
	Energy class	-	A+++	A+++	A+++
Space heating Average climate water outlet 55°C	SCOP	-	3.85	3.83	3.85
	ns	%	151	150	151
	Energy class	-	A+++	A+++	A+++
Cooling (LWT 18°C / OAT 35°C)	Capacity	kW	11.50	13.50	15.50
	Power input	kW	2.56	3.14	3.88
	EER	-	4.50	4.30	4.00
Cooling (LWT 7°C / OAT 35°C)	Capacity	kW	10.00	12.00	14.00
	Power input	kW	2.99	3.75	4.52
	EER	-	3.35	3.20	3.10
Indoor Unit			HU162F24AHYAE3	HU162F24AHYAE3	HU162F24AHYAE3
Leaving water temperature range	Heating	°C	20-80	20-80	20-80
	Cooling	°C	5-25	5-25	5-25
Storage temperature range (Tank)	DHW	°C	25-75	25-75	25-75
Water piping Connection	Inlet/Outlet (except for DHW)	inch	R 1/ R 1	R 1/ R 1	R 1/ R 1
	Inlet/Outlet (DHW)	inch	R 3/4	R 3/4	R 3/4
Expansion Tank		L	8	8	8
Primary circuit	Pressure relief valve	bar	3	3	3
Power supply		V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Max running current*(1)		A	15.0	15.0	15.0
Recommended circuit breaker		A	20.0	20.0	20.0
DHW Tank	Type	-	2205 duplex stainless steel		
	Tank Volume	L	240	240	240
	Maximum water pressure limit	bar	7	7	7
	Tank heater	kW	3	3	6
Declared load profile		-	XL	XL	XL
COPx(2)		-	3.13	3.13	3.13
Water heating energy efficiency class		-	A+	A+	A+
Backup electric heater	Power supply	V/ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50
	Capacity	kW	2+4	2+4	2+4
	Steps	-	2	2	2
	Max Running current	A	27.5	27.5	9.5
	Recommended circuit breaker	A	40.0	40.0	16.0
Sound power level		dB	42	42	42
Net Dimension	(HxWxD)	mm	1985x590x590	1985x590x590	1985x590x590
Packaging dimension	(HxWxD)	mm	2265x695x695	2265x695x695	2265x695x695
Net / Gross weight		kg	122 / 141	122 / 141	122.5 / 141.5
Outdoor Unit			AW12NHVGHA	AW14NHVGHA	AW16NHVGHA
Outdoor operating temperature range	Heating	°C	-25 ~ 35	-25 ~ 35	-25 ~ 35
	Cooling	°C	10 ~ 48	10 ~ 48	10 ~ 48
	DHW	°C	-25 ~ 43	-25 ~ 43	-25 ~ 43
Water piping connection	Inlet/Outlet	inch	R 1/ R 1	R 1/ R 1	R 1/ R 1
Compressor	Quantity	-	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
Sound pressure level *(3)		dB(A)	52	53	55
Sound power level *(3)		dB	63	64	66
Net Dimension	(HxWxD)	mm	880x1250x460	880x1250x460	880x1250x460
Packaging dimension	(HxWxD)	mm	1112x1396x630	1112x1396x630	1112x1396x630
Net / Gross weight		kg	132/159	132/159	136/163
Power supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Max running current		A	10.2	10.2	11.6
Recommended circuit breaker		A	16.0	16.0	16.0

*(1) Max running current does not include backup electric heater, which is individually powered on.

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*(3) The testing conditions refer to EN14511-2018 and the testing method refers to EN12102-2017 (A7/W35)

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