

Subtype R290 Hydro Split and Hydro all in one 04/06kW

Certificate Holder	Qingdao Haier Air Conditioner Electric Co., Ltd.
Address	Haier Development Zone Industrial Park, Economic Development Zone, Qingdao City,
ZIP	
City	Shandong Province
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	R290 Hydro Split and Hydro all in one 04/06kW
Registration number	011-1W0823
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.8 kg
Certification Date	27.08.2024
Testing basis	HP KEYMARK certification scheme rules V14

**Model AW042HUGHA+HU102WAHYA**

Model name	AW042HUGHA+HU102WAHYA
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	4.00 kW	4.00 kW
El input	0.73 kW	1.19 kW
COP	5.50	3.35

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	201 %	151 %
Prated	4.50 kW	4.00 kW
SCOP	5.10	3.85
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	3.96 kW	3.25 kW
COP Tj = -7°C	3.48	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.43 kW	2.16 kW
COP Tj = +2°C	4.89	3.73
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	1.58 kW	1.40 kW
COP Tj = +7°C	6.73	5.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.91 kW	2.05 kW
COP Tj = 12°C	8.87	6.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.96 kW	3.25 kW
COP Tj = Tbiv	3.48	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.50 kW	3.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.40 kW
Annual energy consumption Qhe	1826 kWh	1985 kWh

**Model AW042HUGHA+HU102WAHYB**

Model name	AW042HUGHA+HU102WAHYB
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	4.00 kW	4.00 kW
El input	0.73 kW	1.19 kW
COP	5.50	3.35

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	201 %	151 %
Prated	4.50 kW	4.00 kW
SCOP	5.10	3.85
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	3.96 kW	3.25 kW
COP Tj = -7°C	3.48	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.43 kW	2.16 kW
COP Tj = +2°C	4.89	3.73
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	1.58 kW	1.40 kW
COP Tj = +7°C	6.73	5.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.91 kW	2.05 kW
COP Tj = 12°C	8.87	6.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.96 kW	3.25 kW
COP Tj = Tbiv	3.48	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.50 kW	3.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.40 kW
Annual energy consumption Qhe	1826 kWh	1985 kWh

**Model AW042HUGHA+HU102F20AHYA**

Model name	AW042HUGHA+HU102F20AHYA
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	135 %
COP	3.11
Heating up time	1:57 h:min
Standby power input	54.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	260 l

**EN 14511-4 | Heating**

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	4.00 kW	4.00 kW
El input	0.73 kW	1.19 kW
COP	5.50	3.35

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	63 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_S$	201 %	151 %

Prated	4.50 kW	4.00 kW
SCOP	5.10	3.85
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	3.96 kW	3.25 kW
COP Tj = -7°C	3.48	2.35
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.43 kW	2.16 kW
COP Tj = +2°C	4.89	3.73
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.58 kW	1.40 kW
COP Tj = +7°C	6.73	5.50
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.91 kW	2.05 kW
COP Tj = 12°C	8.87	6.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.96 kW	3.25 kW
COP Tj = Tbiv	3.48	2.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.50 kW	3.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.40 kW
Annual energy consumption Qhe	1826 kWh	1985 kWh

**Model AW062HUGHA+HU102WAHYA**

Model name	AW062HUGHA+HU102WAHYA
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.12 kW	1.82 kW
COP	5.35	3.30

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	64 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	201 %	150 %
Prated	4.50 kW	4.00 kW
SCOP	5.10	3.83
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	3.96 kW	3.25 kW
COP Tj = -7°C	3.48	2.26
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.43 kW	2.16 kW
COP Tj = +2°C	4.89	3.74
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	1.58 kW	1.40 kW
COP Tj = +7°C	6.73	5.48
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.91 kW	2.05 kW
COP Tj = 12°C	8.87	6.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.96 kW	3.25 kW
COP Tj = Tbiv	3.48	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.50 kW	3.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.40 kW
Annual energy consumption Qhe	1826 kWh	1995 kWh

**Model AW062HUGHA+HU102WAHYB**

Model name	AW062HUGHA+HU102WAHYB
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 14511-4 | Heating**

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.12 kW	1.82 kW
COP	5.35	3.30

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Sound power level indoor	40 dB(A)	40 dB(A)
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	Low temperature	Medium temperature
$\eta_s$	201 %	150 %
Prated	4.50 kW	4.00 kW
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Tbiv	-7 °C	-7 °C
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Pdh Tj = -7°C	3.96 kW	3.25 kW
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Cdh Tj = -7 °C	0.900	0.900
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Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.91 kW	2.05 kW
COP Tj = 12°C	8.87	6.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.96 kW	3.25 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.50 kW	3.60 kW
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WTOL	80 °C	80 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.40 kW
Annual energy consumption Qhe	1826 kWh	1995 kWh

**Model AW062HUGHA+HU102F20AHYA**

Model name	AW062HUGHA+HU102F20AHYA
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

**General data**

Power supply	1x230V 50Hz
Off-peak product	n/a

**Outdoor Air/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	135 %
COP	3.11
Heating up time	1:57 h:min
Standby power input	54.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	260 l

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Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
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Starting and operating test	passed

**EN 14511-2 | Heating**

	Low temperature	Medium temperature
Heat output	6.00 kW	6.00 kW
El input	1.12 kW	1.82 kW
COP	5.35	3.30

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
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**EN 14825 | Average Climate**

	Low temperature	Medium temperature
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Prated	4.50 kW	4.00 kW
SCOP	5.10	3.83
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
Pdh Tj = -7°C	3.96 kW	3.25 kW
COP Tj = -7°C	3.48	2.26
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.43 kW	2.16 kW
COP Tj = +2°C	4.89	3.74
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.58 kW	1.40 kW
COP Tj = +7°C	6.73	5.48
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.91 kW	2.05 kW
COP Tj = 12°C	8.87	6.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.96 kW	3.25 kW
COP Tj = Tbiv	3.48	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.50 kW	3.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	80 °C	80 °C
Poff	18 W	18 W
PTO	18 W	18 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.40 kW
Annual energy consumption Qhe	1826 kWh	1995 kWh