

## Subtype Air to Water Heat Pump Unit- R290-4C

Certificate Holder	Hisense Air Conditioning Co. Ltd.
Address	No. 1 Hisense Road, Nancun Town Pingdu
ZIP	266736
City	Qingdao, Shandong Province
Country	CN
Certification Body	BRE Global Limited
Subtype title	Air to Water Heat Pump Unit- R290-4C
Registration number	041-K100-06
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.6 kg
Certification Date	27.11.2024
Testing basis	HP KEYMARK certification scheme rules rev. no.15

## Model AHZ-040U4GSA00

Model name	AHZ-040U4GSA00
Application	Heating + DHW + low temp
Units	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 $\eta_{DHW}$	141 %
COP	3.53
Heating up time	2:57:33 h:min
Standby power input	24.0 W
Reference hot water temperature	44.3 °C
Mixed water at 40°C	177 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	4.05 kW	4.01 kW
El input	0.82 kW	1.27 kW
COP	4.94	3.17

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	50 dB(A)	51 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	186 %	138 %
Prated	3.59 kW	3.53 kW

SCOP	4.72	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.17 kW	3.12 kW
COP Tj = -7°C	3.24	2.40
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	1.96 kW	2.01 kW
COP Tj = +2°C	4.43	3.27
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.41 kW	1.46 kW
COP Tj = +7°C	6.42	4.82
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.73 kW	1.61 kW
COP Tj = 12°C	8.74	6.73
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.17 kW	3.12 kW
COP Tj = Tbiv	3.24	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.65 kW	3.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	10 W	10 W
PTO	22 W	22 W
PSB	10 W	10 W
PCK	40 W	40 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1571 kWh	2074 kWh