

Subtype DC Inverter Air to Water Heat Pump Unit-15

Certificate Holder	Ecochi GmbH		
Address	Böhmerwaldstrasse 13		
ZIP	85570		
City	Markt Schwaben		
Country	DE		
Certification Body	BRE Global Limited		
Subtype title	DC Inverter Air to Water Heat Pump Unit-15		
Registration number	041-K067-03		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R290		
Mass of Refrigerant	1.5 kg		
Certification Date	25.08.2023		
Testing basis	Heat Pump KEYMARK certification Scheme rules v12		



Model Indoor unit: CBHA-IG4V04- 15, Outdo	oor unit: CBHA-OG4V03-15	
Model name	Indoor unit: CBHA-IG4V04- 15, Outdoor unit: CBHA- OG4V03-15	
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	3x400V 50Hz	
Off-peak product	n/a	
	170	
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	
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EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	36 dB(A)
Sound power level outdoor	56 dB(A)	60 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	187 %	137 %
Prated	12.55 kW	11.01 kW
SCOP	4.74	3.50
Tbiv	-7 °C	-7 °C
TOL	-25 °C	-25 °C
$Pdh Tj = -7^{\circ}C$	11.11 kW	9.74 kW
$COP Tj = -7^{\circ}C$	2.05	
	3.05	2.28
Cdh Tj = -7 °C	0.900	2.28 0.900
Cdh Tj = -7 °C Pdh Tj = +2°C		
-	0.900	0.900
Pdh Tj = +2°C	0.900 7.53 kW	0.900 5.99 kW
Pdh Tj = $+2^{\circ}C$ COP Tj = $+2^{\circ}C$	0.900 7.53 kW 4.89	0.900 5.99 kW 3.55
Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C Cdh Tj = $+2^{\circ}$ C	0.900 7.53 kW 4.89 0.900	0.900 5.99 kW 3.55 0.900
Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C Cdh Tj = $+2^{\circ}$ C Pdh Tj = $+7^{\circ}$ C	0.900 7.53 kW 4.89 0.900 5.87 kW	0.900 5.99 kW 3.55 0.900 5.15 kW
Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C Cdh Tj = $+2^{\circ}$ C Pdh Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C	0.900 7.53 kW 4.89 0.900 5.87 kW 6.05	0.900 5.99 kW 3.55 0.900 5.15 kW 4.38
Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C Cdh Tj = $+2^{\circ}$ C Pdh Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C Cdh Tj = $+7^{\circ}$ C	0.900 7.53 kW 4.89 0.900 5.87 kW 6.05 0.900	0.900 5.99 kW 3.55 0.900 5.15 kW 4.38 0.900
Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C Cdh Tj = $+2^{\circ}$ C Pdh Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C Cdh Tj = $+7^{\circ}$ C Pdh Tj = 12° C	0.900 7.53 kW 4.89 0.900 5.87 kW 6.05 0.900 6.83 kW	0.900 5.99 kW 3.55 0.900 5.15 kW 4.38 0.900 6.58 kW

Registration number 041-K067-03

Pdh Tj = Tbiv	11.11 kW	9.74 kW
COP Tj = Tbiv	3.05	2.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.21 kW	9.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	20 W	20 W
РТО	28 W	28 W
PSB	20 W	20 W
РСК	30 W	30 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.35 kW	1.87 kW
Annual energy consumption Qhe	5475 kWh	6505 kWh