

**Product fiche** concerning the  
**COMMISSION DELEGATED REGULATIONS**  
 (EU)No 811/2013 of 18 February 2013  
 (EU)No 813/2013 of 2 August 2013

Models:	Outdoor Unit:	ECON H8A
	Indoor Unit:	None
Air-to-water heat pump		Yes
Brine-to-water heat pump		No
Low temperature heat pump		No
Equipped with a supplementary heater		Yes
Heat Pump Combination Heater		No
Parameters shall be declared for		Medium-temperature applications
Parameters shall be declared for		Warmer Climate Conditions

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10.2	kW	Seasonal space heating energy efficiency	$\eta_s$	122.3	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -10°C	Pdh	6.248	kW	Tj = -10°C	COPd	1.68	
Tj = -7°C	Pdh	6.992	kW	Tj = -7°C	COPd	1.93	
Tj = +2°C	Pdh	4.439	kW	Tj = +2°C	COPd	2.84	
Tj = +7°C	Pdh	3.662	kW	Tj = +7°C	COPd	4.51	
Tj = +12°C	Pdh	4.476	kW	Tj = +12°C	COPd	7.09	
Tj = bivalent temperature	Pdh	6.992	kW	Tj = bivalent temperature	COPd	1.93	
Tj = operation limit temperature	Pdh	6.248	kW	Tj = operation limit temperature	COPd	1.68	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
				Heating water operating limit temperature	WTOL	55	°C
<b>Power consumption in modes other than active mode</b>				<b>Supplementary Heater</b>			

Off Mode	P <sub>OFF</sub>	0.013	kW	Rate heat output	P <sub>sup</sub>	3.00	kW
Thermostat-off mode	P <sub>TO</sub>	0.00	kW				
Standby mode	P <sub>SB</sub>	0.013	kW	Type of energy input	Electrical heater		
Crankcase heater mode	P <sub>CK</sub>	0.00	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m <sup>3</sup> /h
Sound power level indoors/outdoors	L <sub>WA</sub>	68	dBA				
Annual Energy consumption	Q <sub>HE</sub>	2066	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

**Contact Details:**

**GUANGDONG PHNIX ECO-ENERGY SOLUTION LTD.**

**Address: No.3, TIANYUAN ROAD, DAGANG TOWN, NANSHA, GUANGZHOU, CHINA**

For and on behalf of  
**GUANGDONG PHNIX ECO-ENERGY SOLUTION LTD.**  
**广东菲尼克斯节能设备有限公司**  
*Max Ma*  
 Authorized Signature(s)

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Models: \_\_\_\_\_ Outdoor Unit: **ECON H15B**  
 \_\_\_\_\_ Indoor Unit: **None**

Air-to-water heat pump **Yes**

Brine-to-water heat pump **No**

Low temperature heat pump **No**

Equipped with a supplementary heater **No**

Heat Pump Combination Heater **No**

Parameters shall be declared for **Medium-temperature applications**

Parameters shall be declared for **Warmer Climate Conditions**

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	13.3	kW	Seasonal space heating energy efficiency	$\eta_s$	128.06	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -10°C	Pdh	8.898	kW	Tj = -10°C	COPd	1.58	
Tj = -7°C	Pdh	9.759	kW	Tj = -7°C	COPd	1.89	
Tj = +2°C	Pdh	5.998	kW	Tj = +2°C	COPd	3.15	
Tj = +7°C	Pdh	6.217	kW	Tj = +7°C	COPd	4.47	
Tj = +12°C	Pdh	7.584	kW	Tj = +12°C	COPd	6.90	
Tj = bivalent temperature	Pdh	9.759	kW	Tj = bivalent temperature	COPd	1.89	
Tj = operation limit temperature	Pdh	8.898	kW	Tj = operation limit temperature	COPd	1.58	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
				Heating water operating limit temperature	WTOL	55	°C
<b>Power consumption in modes other than active mode</b>				<b>Supplementary Heater</b>			

Off Mode	P <sub>OFF</sub>	0.009	kW	Rate heat output	P <sub>sup</sub>	-	kW
Thermostat-off mode	P <sub>TO</sub>	0.00	kW				
Standby mode	P <sub>SB</sub>	0.009	kW	Type of energy input	-		
Crankcase heater mode	P <sub>CK</sub>	0.00	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m <sup>3</sup> /h
Sound power level indoors/outdoors	L <sub>WA</sub>	54	dBA				
Annual Energy consumption	Q <sub>HE</sub>	6949	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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Models:	Outdoor Unit:	ECON P6
	Indoor Unit:	None
Air-to-water heat pump		Yes
Brine-to-water heat pump		No
Low temperature heat pump		No
Equipped with a supplementary heater		No
Heat Pump Combination Heater		No
Parameters shall be declared for		Medium-temperature applications
Parameters shall be declared for		Warmer Climate Conditions

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	6.3	kW	Seasonal space heating energy efficiency	$\eta_s$	148.4	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -10°C	Pdh	4.37	kW	Tj = -10°C	COPd	1.9	
Tj = -7°C	Pdh	3.758	kW	Tj = -7°C	COPd	2.12	
Tj = +2°C	Pdh	2.357	kW	Tj = +2°C	COPd	3.01	
Tj = +7°C	Pdh	2.211	kW	Tj = +7°C	COPd	4.04	
Tj = +12°C	Pdh	2.864	kW	Tj = +12°C	COPd	6.7	
Tj = bivalent temperature	Pdh	3.758	kW	Tj = bivalent temperature	COPd	2.12	
Tj = operation limit temperature	Pdh	4.37	kW	Tj = operation limit temperature	COPd	1.9	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
				Heating water operating limit temperature	WTOL	55	°C
<b>Power consumption in modes other than active mode</b>				<b>Supplementary Heater</b>			

Off Mode	P <sub>OFF</sub>	0.013	kW	Rate heat output	P <sub>sup</sub>	0	kW
Thermostat-off mode	P <sub>TO</sub>	0.013	kW				
Standby mode	P <sub>SB</sub>	0.013	kW	Type of energy input	Electrical heater		
Crankcase heater mode	P <sub>CK</sub>	0.043	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	55	dBA				
Annual Energy consumption	Q <sub>HE</sub>	2739	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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Models: Outdoor Unit: ECON P10A

Indoor Unit: None

Air-to-water heat pump Yes

Brine-to-water heat pump No

Low temperature heat pump No

Equipped with a supplementary heater No

Heat Pump Combination Heater No

Parameters shall be declared for Medium-temperature applications

Parameters shall be declared for Warmer Climate Conditions

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10,1	kW	Seasonal space heating energy efficiency	$\eta_s$	145.7	%

Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature Tj

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj

Tj = -10°C	Pdh	6.313	kW	Tj = -10°C	COPd	1.69	
Tj = -7°C	Pdh	7.138	kW	Tj = -7°C	COPd	2.20	
Tj = +2°C	Pdh	4.464	kW	Tj = +2°C	COPd	2.98	
Tj = +7°C	Pdh	4.697	kW	Tj = +7°C	COPd	4.34	
Tj = +12°C	Pdh	5.189	kW	Tj = +12°C	COPd	6.42	
Tj = bivalent temperature	Pdh	7.138	kW	Tj = bivalent temperature	COPd	2.20	
Tj = operation limit temperature	Pdh	6.38	kW	Tj = operation limit temperature	COPd	1.69	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
				Heating water operating limit temperature	WTOL	55	°C

Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P <sub>OFF</sub>	0.060	kW	Rate heat output	P <sub>sup</sub>	0	kW
Thermostat-off mode	P <sub>TO</sub>	0.060	kW				
Standby mode	P <sub>SB</sub>	0.060	kW	Type of energy input	Electrical heater		
Crankcase heater mode	P <sub>CK</sub>	0.069	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m <sup>3</sup> /h
Sound power level indoors/outdoors	L <sub>WA</sub>	55	dBA				
Annual Energy consumption	Q <sub>HE</sub>	5163	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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Models: \_\_\_\_\_ Outdoor Unit: **ECON P10T**  
 \_\_\_\_\_ Indoor Unit: **None**

Air-to-water heat pump **Yes**

Brine-to-water heat pump **No**

Low temperature heat pump **No**

Equipped with a supplementary heater **No**

Heat Pump Combination Heater **No**

Parameters shall be declared for **Medium-temperature applications**

Parameters shall be declared for **Warmer Climate Conditions**

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10,2	kW	Seasonal space heating energy efficiency	$\eta_s$	146.5	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -10°C	Pdh	6.392	kW	Tj = -10°C	COPd	1.67	
Tj = -7°C	Pdh	6.826	kW	Tj = -7°C	COPd	1.90	
Tj = +2°C	Pdh	4.364	kW	Tj = +2°C	COPd	2.65	
Tj = +7°C	Pdh	4.210	kW	Tj = +7°C	COPd	4.18	
Tj = +12°C	Pdh	5.009	kW	Tj = +12°C	COPd	6.35	
Tj = bivalent temperature	Pdh	6.826	kW	Tj = bivalent temperature	COPd	1.90	
Tj = operation limit temperature	Pdh	6.392	kW	Tj = operation limit temperature	COPd	1.67	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
				Heating water operating limit temperature	WTOL	55	°C
<b>Power consumption in modes other than active mode</b>				<b>Supplementary Heater</b>			

Off Mode	P <sub>OFF</sub>	0.019	kW	Rate heat output	P <sub>sup</sub>	0	kW
Thermostat-off mode	P <sub>TO</sub>	0.019	kW				
Standby mode	P <sub>SB</sub>	0.019	kW	Type of energy input	Electrical heater		
Crankcase heater mode	P <sub>CK</sub>	0.102	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m <sup>3</sup> /h
Sound power level indoors/outdoors	L <sub>WA</sub>	55	dBA				
Annual Energy consumption	Q <sub>HE</sub>	5430	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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Models: \_\_\_\_\_ Outdoor Unit: **ECON P17T**  
 \_\_\_\_\_ Indoor Unit: **None**

Air-to-water heat pump **Yes**

Brine-to-water heat pump **No**

Low temperature heat pump **No**

Equipped with a supplementary heater **No**

Heat Pump Combination Heater **No**

Parameters shall be declared for **Medium-temperature applications**

Parameters shall be declared for **Warmer Climate Conditions**

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	12,2	kW	Seasonal space heating energy efficiency	$\eta_s$	146.4	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -10°C	Pdh	10.456	kW	Tj = -10°C	COPd	2.12	
Tj = -7°C	Pdh	9.183	kW	Tj = -7°C	COPd	2.37	
Tj = +2°C	Pdh	5.850	kW	Tj = +2°C	COPd	3.07	
Tj = +7°C	Pdh	7.190	kW	Tj = +7°C	COPd	4.57	
Tj = +12°C	Pdh	7.529	kW	Tj = +12°C	COPd	6.83	
Tj = bivalent temperature	Pdh	9.183	kW	Tj = bivalent temperature	COPd	2.37	
Tj = operation limit temperature	Pdh	10.456	kW	Tj = operation limit temperature	COPd	2.12	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
				Heating water operating limit temperature	WTOL	55	°C
<b>Power consumption in modes other than active mode</b>				<b>Supplementary Heater</b>			

Off Mode	P <sub>OFF</sub>	0.021	kW	Rate heat output	P <sub>sup</sub>	0	kW
Thermostat-off mode	P <sub>TO</sub>	0.021	kW				
Standby mode	P <sub>SB</sub>	0.021	kW	Type of energy input	Electrical heater		
Crankcase heater mode	P <sub>CK</sub>	0.040	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m <sup>3</sup> /h
Sound power level indoors/outdoors	L <sub>WA</sub>	65	dBA				
Annual Energy consumption	Q <sub>HE</sub>	6289	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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Models: \_\_\_\_\_ Outdoor Unit: **ECON P24T**  
 \_\_\_\_\_ Indoor Unit: **None**

Air-to-water heat pump **Yes**

Brine-to-water heat pump **No**

Low temperature heat pump **No**

Equipped with a supplementary heater **No**

Heat Pump Combination Heater **No**

Parameters shall be declared for **Medium-temperature applications**

Parameters shall be declared for **Warmer Climate Conditions**

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	19.1	kW	Seasonal space heating energy efficiency	$\eta_s$	139.9	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -10°C	Pdh	16.243	kW	Tj = -10°C	COPd	1.65	
Tj = -7°C	Pdh	15.899	kW	Tj = -7°C	COPd	2.00	
Tj = +2°C	Pdh	9.475	kW	Tj = +2°C	COPd	2.71	
Tj = +7°C	Pdh	9.844	kW	Tj = +7°C	COPd	4.30	
Tj = +12°C	Pdh	11.124	kW	Tj = +12°C	COPd	5.84	
Tj = bivalent temperature	Pdh	15.899	kW	Tj = bivalent temperature	COPd	2.00	
Tj = operation limit temperature	Pdh	16.243	kW	Tj = operation limit temperature	COPd	1.65	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
				Heating water operating limit temperature	WTOL	55	°C
<b>Power consumption in modes other than active mode</b>				<b>Supplementary Heater</b>			

Off Mode	P <sub>OFF</sub>	0.027	kW	Rate heat output	P <sub>sup</sub>	0	kW
Thermostat-off mode	P <sub>TO</sub>	0.027	kW				
Standby mode	P <sub>SB</sub>	0.027	kW	Type of energy input	Electrical heater		
Crankcase heater mode	P <sub>CK</sub>	0.097	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m <sup>3</sup> /h
Sound power level indoors/outdoors	L <sub>WA</sub>	74	dBA				
Annual Energy consumption	Q <sub>HE</sub>	12457	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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