

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	η_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

Power consumption in modes other than active mode

Supplementary Heater

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

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 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	η_s	128.06	%

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

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

$T_j = -10^\circ\text{C}$	Pdh	8.898	kW	$T_j = -10^\circ\text{C}$	COPd	1.58	
$T_j = -7^\circ\text{C}$	Pdh	9.759	kW	$T_j = -7^\circ\text{C}$	COPd	1.89	
$T_j = +2^\circ\text{C}$	Pdh	5.998	kW	$T_j = +2^\circ\text{C}$	COPd	3.15	
$T_j = +7^\circ\text{C}$	Pdh	6.217	kW	$T_j = +7^\circ\text{C}$	COPd	4.47	
$T_j = +12^\circ\text{C}$	Pdh	7.584	kW	$T_j = +12^\circ\text{C}$	COPd	6.90	
$T_j =$ bivalent temperature	Pdh	9.759	kW	$T_j =$ bivalent temperature	COPd	1.89	
$T_j =$ operation limit temperature	Pdh	8.898	kW	$T_j =$ 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

Power consumption in modes other than active mode

Supplementary Heater

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

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Product fiche concerning the
COMMISSION DELEGATED REGULATIONS

(EU)No 811/2021 of 18 February 2013

(EU)No 811/2021 of 02 August 2013

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

35°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	6.0	kW	Seasonal space heating energy efficiency	η_s	201.4	%
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 = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	
Tj = +2°C	Pdh	6.10	kW	Tj = +2°C	COPd	3.98	
Tj = +7°C	Pdh	3.97	kW	Tj = +7°C	COPd	4.77	
Tj = +12°C	Pdh	2.82	kW	Tj = +12°C	COPd	5.90	
Tj = bivalent temperature	Pdh	5.60	kW	Tj = bivalent temperature	COPd	4.07	
Tj = operation limit temperature	Pdh	6.10	kW	Tj = operation limit temperature	COPd	3.98	
Bivalent temperature	Tbiv	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	35	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.019	kW	Rate heat output	P _{sup}	-	kW

Thermostat-off mode	P _{TO}	0.019	kW				
Standby mode	P _{SB}	0.019	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	63	dBA				
Annual Energy consumption	Q _{HE}	1552	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	6.0	kW	Seasonal space heating energy efficiency	η _s	150.0	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	-	kW	T _j = -7°C	COP _d	-	
T _j = +2°C	P _{dh}	5.87	kW	T _j = +2°C	COP _d	2.20	
T _j = +7°C	P _{dh}	3.91	kW	T _j = +7°C	COP _d	3.54	
T _j = +12°C	P _{dh}	2.75	kW	T _j = +12°C	COP _d	4.70	
T _j = bivalent temperature	P _{dh}	5.55	kW	T _j = bivalent temperature	COP _d	2.26	
T _j = operation limit temperature	P _{dh}	5.87	kW	T _j = operation limit temperature	COP _d	2.20	
Bivalent temperature	T _{biv}	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.019	kW	Rate heat output	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.019	kW				
Standby mode	P _{SB}	0.019	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	63	dBA				
Annual Energy consumption	Q _{HE}	2078	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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Holly Liao
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Product fiche concerning the
COMMISSION DELEGATED REGULATIONS

(EU)No 811/2021 of 18 February 2013

(EU)No 811/2021 of 02 August 2013

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

35°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	201.3	%
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 = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	
Tj = +2°C	Pdh	10.46	kW	Tj = +2°C	COPd	3.12	
Tj = +7°C	Pdh	6.63	kW	Tj = +7°C	COPd	4.82	
Tj = +12°C	Pdh	5.71	kW	Tj = +12°C	COPd	6.05	
Tj = bivalent temperature	Pdh	9.44	kW	Tj = bivalent temperature	COPd	3.24	
Tj = operation limit temperature	Pdh	10.46	kW	Tj = operation limit temperature	COPd	3.12	
Bivalent temperature	Tbiv	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	35	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.019	kW	Rate heat output	P _{sup}	-	kW

Thermostat-off mode	P _{TO}	0.019	kW				
Standby mode	P _{SB}	0.019	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	65	dBA				
Annual Energy consumption	Q _{HE}	2598	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10	kW	Seasonal space heating energy efficiency	η _s	158.8	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	-	kW	T _j = -7°C	COP _d	-	
T _j = +2°C	P _{dh}	9.78	kW	T _j = +2°C	COP _d	2.05	
T _j = +7°C	P _{dh}	6.51	kW	T _j = +7°C	COP _d	3.93	
T _j = +12°C	P _{dh}	5.59	kW	T _j = +12°C	COP _d	4.85	
T _j = bivalent temperature	P _{dh}	9.21	kW	T _j = bivalent temperature	COP _d	2.11	
T _j = operation limit temperature	P _{dh}	9.78	kW	T _j = operation limit temperature	COP _d	2.05	
Bivalent temperature	T _{biv}	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.019	kW	Rate heat output	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.019	kW				
Standby mode	P _{SB}	0.019	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	65	dBA				
Annual Energy consumption	Q _{HE}	3285	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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Product fiche concerning the
COMMISSION DELEGATED REGULATIONS

(EU)No 811/2021 of 18 February 2013

(EU)No 811/2021 of 02 August 2013

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

35°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	203.1	%
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 = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	
Tj = +2°C	Pdh	10.57	kW	Tj = +2°C	COPd	3.11	
Tj = +7°C	Pdh	6.60	kW	Tj = +7°C	COPd	4.88	
Tj = +12°C	Pdh	5.62	kW	Tj = +12°C	COPd	6.10	
Tj = bivalent temperature	Pdh	9.35	kW	Tj = bivalent temperature	COPd	3.22	
Tj = operation limit temperature	Pdh	10.57	kW	Tj = operation limit temperature	COPd	3.11	
Bivalent temperature	Tbiv	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	35	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.019	kW	Rate heat output	P _{sup}	-	kW

Thermostat-off mode	P _{TO}	0.019	kW				
Standby mode	P _{SB}	0.019	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	65	dBA				
Annual Energy consumption	Q _{HE}	2576	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10	kW	Seasonal space heating energy efficiency	η _s	154.3	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	-	kW	T _j = -7°C	COP _d	-	
T _j = +2°C	P _{dh}	9.51	kW	T _j = +2°C	COP _d	1.89	
T _j = +7°C	P _{dh}	6.45	kW	T _j = +7°C	COP _d	3.84	
T _j = +12°C	P _{dh}	5.52	kW	T _j = +12°C	COP _d	4.77	
T _j = bivalent temperature	P _{dh}	9.15	kW	T _j = bivalent temperature	COP _d	1.94	
T _j = operation limit temperature	P _{dh}	9.51	kW	T _j = operation limit temperature	COP _d	1.89	
Bivalent temperature	T _{biv}	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.019	kW	Rate heat output	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.019	kW				
Standby mode	P _{SB}	0.019	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	65	dBA				
Annual Energy consumption	Q _{HE}	3380	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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Product fiche concerning the
COMMISSION DELEGATED REGULATIONS

(EU)No 811/2021 of 18 February 2013

(EU)No 811/2021 of 02 August 2013

Models: Outdoor Unit: ECON P17A
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

35°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	η_s	180.5	%
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 = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	
Tj = +2°C	Pdh	15.33	kW	Tj = +2°C	COPd	3.19	
Tj = +7°C	Pdh	9.71	kW	Tj = +7°C	COPd	4.33	
Tj = +12°C	Pdh	7.20	kW	Tj = +12°C	COPd	5.18	
Tj = bivalent temperature	Pdh	14.11	kW	Tj = bivalent temperature	COPd	3.35	
Tj = operation limit temperature	Pdh	15.33	kW	Tj = operation limit temperature	COPd	3.19	
Bivalent temperature	Tbiv	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	35	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.019	kW	Rate heat output	P _{sup}	-	kW

Thermostat-off mode	P _{TO}	0.019	kW				
Standby mode	P _{SB}	0.019	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	69	dBA				
Annual Energy consumption	Q _{HE}	4351	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	η _s	152.7	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	-	kW	T _j = -7°C	COP _d	-	
T _j = +2°C	P _{dh}	15.19	kW	T _j = +2°C	COP _d	2.27	
T _j = +7°C	P _{dh}	9.58	kW	T _j = +7°C	COP _d	3.64	
T _j = +12°C	P _{dh}	7.25	kW	T _j = +12°C	COP _d	4.59	
T _j = bivalent temperature	P _{dh}	14.02	kW	T _j = bivalent temperature	COP _d	2.44	
T _j = operation limit temperature	P _{dh}	15.19	kW	T _j = operation limit temperature	COP _d	2.27	
Bivalent temperature	T _{biv}	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.019	kW	Rate heat output	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.019	kW				
Standby mode	P _{SB}	0.019	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	69	dBA				
Annual Energy consumption	Q _{HE}	5131	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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(EU)No 811/2021 of 18 February 2013

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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

35°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	η_s	180.0	%
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 = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	
Tj = +2°C	Pdh	15.41	kW	Tj = +2°C	COPd	3.22	
Tj = +7°C	Pdh	7.79	kW	Tj = +7°C	COPd	4.76	
Tj = +12°C	Pdh	7.20	kW	Tj = +12°C	COPd	5.18	
Tj = bivalent temperature	Pdh	11.13	kW	Tj = bivalent temperature	COPd	3.87	
Tj = operation limit temperature	Pdh	12.45	kW	Tj = operation limit temperature	COPd	3.81	
Bivalent temperature	Tbiv	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	35	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.019	kW	Rate heat output	P _{sup}	-	kW

Thermostat-off mode	P _{TO}	0.019	kW				
Standby mode	P _{SB}	0.019	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	69	dBA				
Annual Energy consumption	Q _{HE}	4364	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	η _s	153.4	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	-	kW	T _j = -7°C	COP _d	-	
T _j = +2°C	P _{dh}	15.22	kW	T _j = +2°C	COP _d	2.31	
T _j = +7°C	P _{dh}	9.63	kW	T _j = +7°C	COP _d	3.62	
T _j = +12°C	P _{dh}	7.29	kW	T _j = +12°C	COP _d	4.63	
T _j = bivalent temperature	P _{dh}	13.95	kW	T _j = bivalent temperature	COP _d	2.46	
T _j = operation limit temperature	P _{dh}	15.22	kW	T _j = operation limit temperature	COP _d	2.31	
Bivalent temperature	T _{biv}	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.019	kW	Rate heat output	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.019	kW				
Standby mode	P _{SB}	0.019	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	69	dBA				
Annual Energy consumption	Q _{HE}	5109	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

Contact Details:

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

For and on behalf of
GUANGDONG PHNIX ECO-ENERGY SOLUTION LTD.
广东芬尼克兹节能设备有限公司

Holly Liao

Authorized Signature(s)

Product fiche concerning the
COMMISSION DELEGATED REGULATIONS

(EU)No 811/2021 of 18 February 2013

(EU)No 811/2021 of 02 August 2013

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

35°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	20.0	kW	Seasonal space heating energy efficiency	η_s	188.8	%
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 = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	
Tj = +2°C	Pdh	19.82	kW	Tj = +2°C	COPd	3.16	
Tj = +7°C	Pdh	12.80	kW	Tj = +7°C	COPd	4.34	
Tj = +12°C	Pdh	11.35	kW	Tj = +12°C	COPd	5.75	
Tj = bivalent temperature	Pdh	18.65	kW	Tj = bivalent temperature	COPd	3.20	
Tj = operation limit temperature	Pdh	19.82	kW	Tj = operation limit temperature	COPd	3.16	
Bivalent temperature	Tbiv	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	35	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.025	kW	Rate heat output	P _{sup}	-	kW

Thermostat-off mode	P _{TO}	0.025	kW				
Standby mode	P _{SB}	0.025	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	70	dBA				
Annual Energy consumption	Q _{HE}	5555	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	20.0	kW	Seasonal space heating energy efficiency	η _s	148.7	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	-	kW	T _j = -7°C	COP _d	-	
T _j = +2°C	P _{dh}	19.91	kW	T _j = +2°C	COP _d	2.25	
T _j = +7°C	P _{dh}	12.84	kW	T _j = +7°C	COP _d	3.36	
T _j = +12°C	P _{dh}	11.34	kW	T _j = +12°C	COP _d	4.71	
T _j = bivalent temperature	P _{dh}	18.66	kW	T _j = bivalent temperature	COP _d	2.31	
T _j = operation limit temperature	P _{dh}	19.91	kW	T _j = operation limit temperature	COP _d	2.25	
Bivalent temperature	T _{biv}	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.025	kW	Rate heat output	P _{sup}	-	kW
Thermostat-off mode	P _{TO}	0.025	kW				
Standby mode	P _{SB}	0.025	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m ³ /h
Sound power level indoors/outdoors	L _{WA}	70	dBA				
Annual Energy consumption	Q _{HE}	7016	kWh				
For heat pump combination heater				Water heating energy efficiency	η _{wh}	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q _{elec}	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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Authorized Signature(s)