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	ηs	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

Contact Details:

GUANGDONG PHNIX ECO-ENERGY SOLUTION LTD.

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

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	ηs	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
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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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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
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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℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

55℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	150.0	%
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	5.87	kW	Tj = +2°C	COPd	2.20	
Tj = +7°C	Pdh	3.91	kW	Tj = +7°C	COPd	3.54	
Tj = +12°C	Pdh	2.75	kW	Tj = +12°C	COPd	4.70	
Tj = bivalent temperature	Pdh	5.55	kW	Tj = bivalent temperature	COPd	2.26	
Tj = operation limit temperature	Pdh	5.87	kW	Tj = operation limit temperature	COPd	2.20	
Bivalent temperature	Tbiv	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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For and on behalf of
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广东芬尼克兹节能设备有限公司

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℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10.0	kW	Seasonal space heating energy efficiency	ηs	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

55℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10	kW	Seasonal space heating energy efficiency	ηs	158.8	%
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	9.78	kW	Tj = +2°C	COPd	2.05	
Tj = +7°C	Pdh	6.51	kW	Tj = +7°C	COPd	3.93	
Tj = +12°C	Pdh	5.59	kW	Tj = +12°C	COPd	4.85	
Tj = bivalent temperature	Pdh	9.21	kW	Tj = bivalent temperature	COPd	2.11	
Tj = operation limit temperature	Pdh	9.78	kW	Tj = operation limit temperature	COPd	2.05	
Bivalent temperature	Tbiv	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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广东芬尼克兹节能设备有限公司

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 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℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10.0	kW	Seasonal space heating energy efficiency	ηs	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

55℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10	kW	Seasonal space heating energy efficiency	ηs	154.3	%
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	9.51	kW	Tj = +2°C	COPd	1.89	
Tj = +7°C	Pdh	6.45	kW	Tj = +7°C	COPd	3.84	
Tj = +12°C	Pdh	5.52	kW	Tj = +12°C	COPd	4.77	
Tj = bivalent temperature	Pdh	9.15	kW	Tj = bivalent temperature	COPd	1.94	
Tj = operation limit temperature	Pdh	9.51	kW	Tj = operation limit temperature	COPd	1.89	
Bivalent temperature	Tbiv	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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广东芬尼克兹节能设备有限公司

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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℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	ηs	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

55℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	ηs	152.7	%
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 = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	
Tj = +2°C	Pdh	15.19	kW	Tj = +2°C	COPd	2.27	
Tj = +7°C	Pdh	9.58	kW	Tj = +7°C	COPd	3.64	
Tj = +12°C	Pdh	7.25	kW	Tj = +12°C	COPd	4.59	
Tj = bivalent temperature	Pdh	14.02	kW	Tj = bivalent temperature	COPd	2.44	
Tj = operation limit temperature	Pdh	15.19	kW	Tj = operation limit temperature	COPd	2.27	
Bivalent temperature	Tbiv	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

Contact Details:

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For and on behalf of
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广东芬尼克兹节能设备有限公司

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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 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℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	ηs	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

55℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	ηs	153.4	%
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	15.22	kW	Tj = +2°C	COPd	2.31	
Tj = +7°C	Pdh	9.63	kW	Tj = +7°C	COPd	3.62	
Tj = +12°C	Pdh	7.29	kW	Tj = +12°C	COPd	4.63	
Tj = bivalent temperature	Pdh	13.95	kW	Tj = bivalent temperature	COPd	2.46	
Tj = operation limit temperature	Pdh	15.22	kW	Tj = operation limit temperature	COPd	2.31	
Bivalent temperature	Tbiv	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	20.0	kW	Seasonal space heating energy efficiency	ηs	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

55℃：

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	20.0	kW	Seasonal space heating energy efficiency	ηs	148.7	%
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 = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	
Tj = +2°C	Pdh	19.91	kW	Tj = +2°C	COPd	2.25	
Tj = +7°C	Pdh	12.84	kW	Tj = +7°C	COPd	3.36	
Tj = +12°C	Pdh	11.34	kW	Tj = +12°C	COPd	4.71	
Tj = bivalent temperature	Pdh	18.66	kW	Tj = bivalent temperature	COPd	2.31	
Tj = operation limit temperature	Pdh	19.91	kW	Tj = operation limit temperature	COPd	2.25	
Bivalent temperature	Tbiv	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	ηwh	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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