

**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 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 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	$\eta_s$	190.2	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = -7°C	COP <sub>d</sub>	-	
T <sub>j</sub> = +2°C	P <sub>dh</sub>	9.60	kW	T <sub>j</sub> = +2°C	COP <sub>d</sub>	3.09	
T <sub>j</sub> = +7°C	P <sub>dh</sub>	6.36	kW	T <sub>j</sub> = +7°C	COP <sub>d</sub>	4.42	
T <sub>j</sub> = +12°C	P <sub>dh</sub>	4.75	kW	T <sub>j</sub> = +12°C	COP <sub>d</sub>	5.83	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	9.60	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3.09	
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.60	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	3.09	
Bivalent temperature	T <sub>biv</sub>	2	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	35	°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>	-	kW

Thermostat-off mode	P <sub>TO</sub>	0.013	kW			
Standby mode	P <sub>SB</sub>	0.013	kW	Type of energy input	-	
Crankcase heater mode	P <sub>CK</sub>	0	kW			
Other items						
Capacity control	Variable			Rated airflow rate, outdoors	-	m³/h
Sound power level	L <sub>WA</sub>	68	dBA			
indoors/outdoors						
Annual Energy consumption	Q <sub>HE</sub>	2766	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			

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	8.5	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	145.6	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dH</sub>	-	kW	T <sub>j</sub> = -7°C	COP <sub>d</sub>	-	
T <sub>j</sub> = +2°C	P <sub>dH</sub>	8.19	kW	T <sub>j</sub> = +2°C	COP <sub>d</sub>	2.04	
T <sub>j</sub> = +7°C	P <sub>dH</sub>	5.39	kW	T <sub>j</sub> = +7°C	COP <sub>d</sub>	3.26	
T <sub>j</sub> = +12°C	P <sub>dH</sub>	4.21	kW	T <sub>j</sub> = +12°C	COP <sub>d</sub>	4.73	
T <sub>j</sub> = bivalent temperature	P <sub>dH</sub>	8.19	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.04	
T <sub>j</sub> = operation limit temperature	P <sub>dH</sub>	8.19	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2.04	
Bivalent temperature	T <sub>biv</sub>	2	°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 <sub>OFF</sub>	0.013	kW	Rate heat output	P <sub>sup</sub>	-	kW
Thermostat-off mode	P <sub>TO</sub>	0.013	kW				
Standby mode	P <sub>SB</sub>	0.013	kW	Type of energy input	-		
Crankcase heater mode	P <sub>CK</sub>	0	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m³/h
Sound power level	LWA	68	dBA				
indoors/outdoors							
Annual Energy consumption	Q <sub>HE</sub>	3057	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	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

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**COMMISSION DELEGATED REGULATIONS**  
 (EU)No 811/2021 of 18 February 2013  
 (EU)No 811/2021 of 02 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

35°C:

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	$\eta_s$	190.1	%
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	14.92	kW	Tj = +2°C	COPd	3.06	
Tj = +7°C	Pdh	9.63	kW	Tj = +7°C	COPd	4.38	
Tj = +12°C	Pdh	7.69	kW	Tj = +12°C	COPd	5.77	
Tj = bivalent temperature	Pdh	14.05	kW	Tj = bivalent temperature	COPd	3.15	
Tj = operation limit temperature	Pdh	14.92	kW	Tj = operation limit temperature	COPd	3.06	
Bivalent temperature	Tbiv	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	35	°C
<b>Power consumption in modes other than active mode</b>				<b>Supplementary Heater</b>			
Off Mode	P <sub>OFF</sub>	0.011	kW	Rate heat output	P <sub>sup</sub>	-	kW

Thermostat-off mode	P <sub>TO</sub>	0.011	kW			
Standby mode	P <sub>SB</sub>	0.011	kW	Type of energy input	-	
Crankcase heater mode	P <sub>CK</sub>	0.059	kW			
Other items						
Capacity control	Variable			Rated airflow rate, outdoors	-	m³/h
Sound power level	L <sub>WA</sub>	73	dBA			
indoors/outdoors						
Annual Energy consumption	Q <sub>HE</sub>	4133	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			

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	148.9	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dH</sub>	-	kW	T <sub>j</sub> = -7°C	COP <sub>d</sub>	-	
T <sub>j</sub> = +2°C	P <sub>dH</sub>	14.68	kW	T <sub>j</sub> = +2°C	COP <sub>d</sub>	1.95	
T <sub>j</sub> = +7°C	P <sub>dH</sub>	9.82	kW	T <sub>j</sub> = +7°C	COP <sub>d</sub>	3.39	
T <sub>j</sub> = +12°C	P <sub>dH</sub>	7.45	kW	T <sub>j</sub> = +12°C	COP <sub>d</sub>	4.83	
T <sub>j</sub> = bivalent temperature	P <sub>dH</sub>	13.98	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.01	
T <sub>j</sub> = operation limit temperature	P <sub>dH</sub>	14.68	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.95	
Bivalent temperature	T <sub>biv</sub>	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 <sub>OFF</sub>	0.011	kW	Rate heat output	P <sub>sup</sub>	-	kW
Thermostat-off mode	P <sub>TO</sub>	0.011	kW				
Standby mode	P <sub>SB</sub>	0.011	kW	Type of energy input	-		
Crankcase heater mode	P <sub>CK</sub>	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m <sup>3</sup> /h
Sound power level	LWA	73	dBA				
indoors/outdoors							
Annual Energy consumption	Q <sub>HE</sub>	5255	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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For and on behalf of  
**GUANGDONG PHNIX ECO-ENERGY SOLUTION LTD.**  
 广东芬尼克兹节能设备有限公司  
*Gerald Zhu*  
 .....  
**Authorized Signature(s)**

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**COMMISSION DELEGATED REGULATIONS**  
 (EU)No 811/2021 of 18 February 2013  
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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

35°C:

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	6.0	kW	Seasonal space heating energy efficiency	$\eta_s$	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
<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>	-	kW

Thermostat-off mode	P <sub>TO</sub>	0.019	kW				
Standby mode	P <sub>SB</sub>	0.019	kW	Type of energy input	-		
Crankcase heater mode	P <sub>CK</sub>	0.059	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	63	dBA				
Annual Energy consumption	Q <sub>HE</sub>	1552	kWh				
For heat pump combination heater							
Declared load profile				Water heating energy efficiency	η <sub>wh</sub>	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

55°C :

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



Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	63	dBA				
Annual Energy consumption	Q <sub>HE</sub>	2078	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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

*Holly Liao*  
 .....  
 Authorized Signature(s)

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**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	$\eta_s$	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
<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>	-	kW

Thermostat-off mode	P <sub>TO</sub>	0.019	kW			
Standby mode	P <sub>SB</sub>	0.019	kW	Type of energy input	-	
Crankcase heater mode	P <sub>CK</sub>	0.059	kW			
Other items						
Capacity control	Variable			Rated airflow rate, outdoors	-	m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	65	dBA			
Annual Energy consumption	Q <sub>HE</sub>	2598	kWh			
For heat pump combination heater						
Declared load profile			-	Water heating energy efficiency	η <sub>wh</sub>	%
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h			
Annual electricity consumption	AEC	-	kW/h			

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	158.8	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = -7°C	COP <sub>d</sub>	-	
T <sub>j</sub> = +2°C	P <sub>dh</sub>	9.78	kW	T <sub>j</sub> = +2°C	COP <sub>d</sub>	2.05	
T <sub>j</sub> = +7°C	P <sub>dh</sub>	6.51	kW	T <sub>j</sub> = +7°C	COP <sub>d</sub>	3.93	
T <sub>j</sub> = +12°C	P <sub>dh</sub>	5.59	kW	T <sub>j</sub> = +12°C	COP <sub>d</sub>	4.85	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	9.21	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.11	
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.78	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2.05	
Bivalent temperature	T <sub>biv</sub>	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 <sub>OFF</sub>	0.019	kW	Rate heat output	P <sub>sup</sub>	-	kW
Thermostat-off mode	P <sub>TO</sub>	0.019	kW				
Standby mode	P <sub>SB</sub>	0.019	kW	Type of energy input	-		
Crankcase heater mode	P <sub>CK</sub>	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	65	dBA				
Annual Energy consumption	Q <sub>HE</sub>	3285	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	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 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	$\eta_s$	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
<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>	-	kW

Thermostat-off mode	P <sub>TO</sub>	0.019	kW			
Standby mode	P <sub>SB</sub>	0.019	kW	Type of energy input	-	
Crankcase heater mode	P <sub>CK</sub>	0.059	kW			
Other items						
Capacity control	Variable			Rated airflow rate, outdoors	-	m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	65	dBA			
Annual Energy consumption	Q <sub>HE</sub>	2576	kWh			
For heat pump combination heater						
Declared load profile			-	Water heating energy efficiency	η <sub>wh</sub>	%
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h			
Annual electricity consumption	AEC	-	kW/h			

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	10	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	154.3	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = -7°C	COP <sub>d</sub>	-	
T <sub>j</sub> = +2°C	P <sub>dh</sub>	9.51	kW	T <sub>j</sub> = +2°C	COP <sub>d</sub>	1.89	
T <sub>j</sub> = +7°C	P <sub>dh</sub>	6.45	kW	T <sub>j</sub> = +7°C	COP <sub>d</sub>	3.84	
T <sub>j</sub> = +12°C	P <sub>dh</sub>	5.52	kW	T <sub>j</sub> = +12°C	COP <sub>d</sub>	4.77	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	9.15	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.94	
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.51	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.89	
Bivalent temperature	T <sub>biv</sub>	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 <sub>OFF</sub>	0.019	kW	Rate heat output	P <sub>sup</sub>	-	kW
Thermostat-off mode	P <sub>TO</sub>	0.019	kW				
Standby mode	P <sub>SB</sub>	0.019	kW	Type of energy input	-		
Crankcase heater mode	P <sub>CK</sub>	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	65	dBA				
Annual Energy consumption	Q <sub>HE</sub>	3380	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	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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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 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	$\eta_s$	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
<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>	-	kW



Thermostat-off mode	P <sub>TO</sub>	0.019	kW			
Standby mode	P <sub>SB</sub>	0.019	kW	Type of energy input	-	
Crankcase heater mode	P <sub>CK</sub>	0.059	kW			
Other items						
Capacity control	Variable			Rated airflow rate, outdoors	-	m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	69	dBA			
Annual Energy consumption	Q <sub>HE</sub>	4351	kWh			
For heat pump combination heater						
Declared load profile			-	Water heating energy efficiency	η <sub>wh</sub>	%
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h			
Annual electricity consumption	AEC	-	kW/h			

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	152.7	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = -7°C	COP <sub>d</sub>	-	
T <sub>j</sub> = +2°C	P <sub>dh</sub>	15.19	kW	T <sub>j</sub> = +2°C	COP <sub>d</sub>	2.27	
T <sub>j</sub> = +7°C	P <sub>dh</sub>	9.58	kW	T <sub>j</sub> = +7°C	COP <sub>d</sub>	3.64	
T <sub>j</sub> = +12°C	P <sub>dh</sub>	7.25	kW	T <sub>j</sub> = +12°C	COP <sub>d</sub>	4.59	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.02	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.44	
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	15.19	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2.27	
Bivalent temperature	T <sub>biv</sub>	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 <sub>OFF</sub>	0.019	kW	Rate heat output	P <sub>sup</sub>	-	kW
Thermostat-off mode	P <sub>TO</sub>	0.019	kW				
Standby mode	P <sub>SB</sub>	0.019	kW	Type of energy input	-		
Crankcase heater mode	P <sub>CK</sub>	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	69	dBA				
Annual Energy consumption	Q <sub>HE</sub>	5131	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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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 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	$\eta_s$	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
<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>	-	kW

Thermostat-off mode	P <sub>TO</sub>	0.019	kW				
Standby mode	P <sub>SB</sub>	0.019	kW	Type of energy input	-		
Crankcase heater mode	P <sub>CK</sub>	0.059	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	69	dBA				
Annual Energy consumption	Q <sub>HE</sub>	4364	kWh				
For heat pump combination heater							
Declared load profile				Water heating energy efficiency	η <sub>wh</sub>	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	15.0	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	153.4	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = -7°C	COP <sub>d</sub>	-	
T <sub>j</sub> = +2°C	P <sub>dh</sub>	15.22	kW	T <sub>j</sub> = +2°C	COP <sub>d</sub>	2.31	
T <sub>j</sub> = +7°C	P <sub>dh</sub>	9.63	kW	T <sub>j</sub> = +7°C	COP <sub>d</sub>	3.62	
T <sub>j</sub> = +12°C	P <sub>dh</sub>	7.29	kW	T <sub>j</sub> = +12°C	COP <sub>d</sub>	4.63	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	13.95	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.46	
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	15.22	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2.31	
Bivalent temperature	T <sub>biv</sub>	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 <sub>OFF</sub>	0.019	kW	Rate heat output	P <sub>sup</sub>	-	kW
Thermostat-off mode	P <sub>TO</sub>	0.019	kW				
Standby mode	P <sub>SB</sub>	0.019	kW	Type of energy input	-		
Crankcase heater mode	P <sub>CK</sub>	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	69	dBA				
Annual Energy consumption	Q <sub>HE</sub>	5109	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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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 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	20.33	kW	Seasonal space heating energy efficiency	$\eta_s$	187.2	%
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	20.21	kW	Tj = +2°C	COPd	3.15	
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	18.88	kW	Tj = bivalent temperature	COPd	3.18	
Tj = operation limit temperature	Pdh	20.21	kW	Tj = operation limit temperature	COPd	3.15	
Bivalent temperature	Tbiv	3	°C	Operation limit temperature	TOL	2	°C
				Heating water operating limit temperature	WTOL	35	°C
<b>Power consumption in modes other than active mode</b>				<b>Supplementary Heater</b>			
Off Mode	P <sub>OFF</sub>	0.025	kW	Rate heat output	P <sub>sup</sub>	-	kW

Thermostat-off mode	P <sub>TO</sub>	0.025	kW			
Standby mode	P <sub>SB</sub>	0.025	kW	Type of energy input	-	
Crankcase heater mode	P <sub>CK</sub>	0.059	kW			
Other items						
Capacity control	Variable			Rated airflow rate, outdoors	-	m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	70	dBA			
Annual Energy consumption	Q <sub>HE</sub>	5692	kWh			
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	%
Declared load profile	-	-	-			
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h			
Annual electricity consumption	AEC	-	kW/h			

55°C :

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output	Prated	20.2	kW	Seasonal space heating energy efficiency	η <sub>s</sub>	148.4	%
Declared capacity for heating for part load at indoor Temperature 20°C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = -7°C	COP <sub>d</sub>	-	
T <sub>j</sub> = +2°C	P <sub>dh</sub>	20.35	kW	T <sub>j</sub> = +2°C	COP <sub>d</sub>	2.24	
T <sub>j</sub> = +7°C	P <sub>dh</sub>	12.84	kW	T <sub>j</sub> = +7°C	COP <sub>d</sub>	3.36	
T <sub>j</sub> = +12°C	P <sub>dh</sub>	11.34	kW	T <sub>j</sub> = +12°C	COP <sub>d</sub>	4.71	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	18.76	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.30	
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	20.35	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2.24	
Bivalent temperature	T <sub>biv</sub>	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 <sub>OFF</sub>	0.025	kW	Rate heat output	P <sub>sup</sub>	-	kW
Thermostat-off mode	P <sub>TO</sub>	0.025	kW				
Standby mode	P <sub>SB</sub>	0.025	kW	Type of energy input	-		
Crankcase heater mode	P <sub>CK</sub>	0.059	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-		m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	70	dBA				
Annual Energy consumption	Q <sub>HE</sub>	7110	kWh				
For heat pump combination heater				Water heating energy efficiency	η <sub>wh</sub>	-	%
Declared load profile	-	-	-				
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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