

Product fiche concerning the
COMMISSION DELEGATED REGULATIONS
(EU)No 811/2013 of 18 February 2013
(EU)No 813/2013 of 02 August 2013

Models: **Outdoor Unit:** **EI40S**
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 **Average Climate Conditions**

Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	11.557	kW
Seasonal space heating energy efficiency	η_s	143.9	%
Energy Classes		A++	
Seasonal Coefficient of Performance	SCOP	3.67	kWh/kWh
Annual Energy consumption	QHE	6502	kWh
Sound power level indoors/outdoors	LWA	59	dB(A)

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	10.223	kW	Tj = -7°C	COPd	2.36	
Tj = +2°C	Pdh	6.233	kW	Tj = +2°C	COPd	3.52	
Tj = +7°C	Pdh	4.172	kW	Tj = +7°C	COPd	4.77	
Tj = +12°C	Pdh	4.066	kW	Tj = +12°C	COPd	6.80	
Tj = bivalent temperature	Pdh	10.223	kW	Tj = bivalent temperature	COPd	2.36	
Tj = operation limit temperature (***)	Pdh	11.613	kW	Tj = operation limit temperature	COPd	2.09	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient (**)	Cdh	0.90	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary Heater			

Off Mode	P _{OFF}	0.010	kW	Rate heat output (*)	P _{sup}	0	kW
Thermostat-off mode	P _{TO}	0.010	kW				
Standby mode	P _{SB}	0.010	kW	Type of energy input	Electricity		
Crankcase heater mode	P _{CK}	0.048	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		4500	m³/h
Outlet temperature capacity control	Variable						
Water flow rate capacity control	Fixed						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output <i>Prated</i> is equal to the design load for heating <i>Pdesignh</i> , and the rated heat output of a supplementary heater <i>Psup</i> is equal to the supplementary capacity for heating <i>sup(Tj)</i> .							
(**) Cdh shall be determined for each part load ratio, where applicable, by measurement. If not, the default degradation coefficient is Cdh = 0,9							
(***). If the declared <i>TOL</i> is lower than the <i>Tdesignh</i> of the considered climate, then the outdoor dry bulb temperature is equal to <i>Tdesignh</i> for the part load							

Models:

Outdoor Unit: EI40S

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 Low-temperature applications

Parameters shall be declared for Average Climate Conditions

Item	Symbol	Value	Unit
Rated Heat Output	Prated	11.611	kW
Seasonal space heating energy efficiency	ηs	192.2	%
Energy Classes		A+++	
Seasonal Coefficient of Performance	SCOP	4.88	kWh/kWh
Annual Energy consumption	QHE	4915	kWh
Sound power level indoors/outdoors	LWA	59	dB(A)

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	10.271	kW	Tj = -7°C	COPd	3.14	
Tj = +2°C	Pdh	6.345	kW	Tj = +2°C	COPd	4.62	

Tj = +7°C	Pdh	4.131	kW	Tj = +7°C	COPd	6.51	
Tj = +12°C	Pdh	4.371	kW	Tj = +12°C	COPd	9.37	
Tj = bivalent temperature	Pdh	10.271	kW	Tj = bivalent temperature	COPd	3.14	
Tj = operation limit temperature	Pdh	12.012	kW	Tj = operation limit temperature	COPd	2.69	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient (**)	Cdh	0.90	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	POFF	0.010	kW	Rate heat output	Psup	0	kW
Thermostat-off mode	PTO	0.010	kW				
Standby mode	PSB	0.010	kW	Type of energy input	Electricity		
Crankcase heater mode	PCK	0.048	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		4500	m³/h
Outlet temperature capacity control	Variable						
Water flow rate capacity control	Fixed						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output <i>Prated</i> is equal to the design load for heating <i>Pdesignh</i> , and the rated heat output of a supplementary heater <i>Psup</i> is equal to the supplementary capacity for heating <i>sup(Tj)</i> .							
(**) Cdh shall be determined for each part load ratio, where applicable, by measurement. If not, the default degradation coefficient is Cdh = 0,9							
(***). If the declared <i>TOL</i> is lower than the <i>Tdesignh</i> of the considered climate, then the outdoor dry bulb temperature is equal to <i>Tdesignh</i> for the part load							

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 02 August 2013

Models:

Outdoor Unit: EI60S

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 **Average Climate Conditions**

Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	17,04	kW
Seasonal space heating energy efficiency	η_s	147.2	%
Energy Classes		A++	
Seasonal Coefficient of Performance	SCOP	3.75	kWh/kWh
Annual Energy consumption	QHE	8167	kWh
Sound power level indoors/outdoors	LWA	65	dB(A)

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

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

T _j = -7°C	P _{dh}	13.13	kW	T _j = -7°C	COP _d	2.47	
T _j = +2°C	P _{dh}	8.00	kW	T _j = +2°C	COP _d	3.55	
T _j = +7°C	P _{dh}	5.36	kW	T_j = +7°C	COP_d	4.94	
T _j = +12°C	P _{dh}	4.77	kW	T _j = +12°C	COP _d	6.83	
T _j = bivalent temperature	P _{dh}	13.13	kW	T _j = bivalent temperature	COP _d	2.47	
T _j = operation limit temperature (***)	P _{dh}	14.10	kW	T _j = operation limit temperature	COP _d	2.19	
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient (**)	C _{dh}	0.90	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary Heater			

Off Mode	P _{OFF}	0.014	kW	Rate heat output (*)	P _{sup}	0.74	kW
Thermostat-off mode	P _{TO}	0.014	kW				
Standby mode	P _{SB}	0.014	kW	Type of energy input	Electricity		
Crankcase heater mode	P _{CK}	0.040	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		5500	m³/h
Outlet temperature capacity control	Variable						
Water flow rate capacity control	Fixed						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output <i>Prated</i> is equal to the design load for heating <i>Pdesignh</i>, and the rated heat output of a supplementary heater <i>Psup</i> is equal to the supplementary capacity for heating <i>sup(Tj)</i>. (**) Cdh shall be determined for each part load ratio, where applicable, by measurement. If not, the default degradation coefficient is Cdh = 0,9 (***) If the declared <i>TOL</i> is lower than the <i>Tdesignh</i> of the considered climate, then the outdoor dry bulb temperature is equal to <i>Tdesionh</i> for the part load							

Models:

Outdoor Unit:EI60S

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 Low-temperature applications

Parameters shall be declared for Average Climate Conditions

Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	17,04	kW
Seasonal space heating energy efficiency	η _s	196.6	%
Energy Classes		A+++	
Seasonal Coefficient of Performance	SCOP	4.99	kWh/kWh
Annual Energy consumption	QHE	6134	kWh
Sound power level indoors/outdoors	LWA	62	dB(A)

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}	13.11	kW	T _j = -7°C	COP _d	3.26	
T _j = +2°C	P _{dh}	7.98	kW	T _j = +2°C	COP _d	4.87	
T _j = +7°C	P _{dh}	5.27	kW	T _j = +7°C	COP _d	6.45	

T _j = +12°C	P _{dh}	5.01	kW	T _j = +12°C	COP _d	7.96	
T _j = bivalent temperature	P _{dh}	13.11	kW	T _j = bivalent temperature	COP _d	3.26	
T _j = operation limit temperature (***)	P _{dh}	14.04	kW	T _j = operation limit temperature	COP _d	2.92	
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient (**)	C _{dh}	0.90	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.014	kW	Rate heat output (*)	P _{sup}	0.95	kW
Thermostat-off mode	P _{TO}	0.014	kW				
Standby mode	P _{SB}	0.014	kW	Type of energy input	Electricity		
Crankcase heater mode	P _{CK}	0.040	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		5500	m³/h
Outlet temperature capacity control	Variable						
Water flow rate capacity control	Fixed						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output <i>Prated</i> is equal to the design load for heating <i>Pdesignh</i> , and the rated heat output of a supplementary heater <i>Psup</i> is equal to the supplementary capacity for heating <i>sup(Tj)</i> . (**) C _{dh} shall be determined for each part load ratio, where applicable, by measurement. If not, the default degradation coefficient is C _{dh} = 0,9 (***) If the declared <i>TOL</i> is lower than the <i>Tdesignh</i> of the considered climate, then the outdoor dry bulb temperature is equal to <i>Tdesignh</i> for the part load							

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 02 August 2013

Models: Outdoor Unit: **EI40S**
Indoor Unit: All-in-One3P

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 Yes

Parameters shall be declared for Medium-temperature applications

Parameters shall be declared for Average Climate Conditions

Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	11.557	kW
Seasonal space heating energy efficiency	η_s	143.9	%
Energy Classes		A++	
Seasonal Coefficient of Performance	SCOP	3.67	kWh/kWh
Annual Energy consumption	QHE	6502	kWh
Sound power level indoors/outdoors	LWA	59	dB(A)

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	10.223	kW	Tj = -7°C	COPd	2.36	
Tj = +2°C	Pdh	6.233	kW	Tj = +2°C	COPd	3.52	
Tj = +7°C	Pdh	4.172	kW	Tj = +7°C	COPd	4.77	
Tj = +12°C	Pdh	4.066	kW	Tj = +12°C	COPd	6.80	
Tj = bivalent temperature	Pdh	10.223	kW	Tj = bivalent temperature	COPd	2.36	
Tj = operation limit temperature (***)	Pdh	11.613	kW	Tj = operation limit temperature	COPd	2.09	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient (**)	Cdh	0.90	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary Heater			

Off Mode	P _{OFF}	0.010	kW	Rate heat output (*)	P _{sup}	0	kW
Thermostat-off mode	P _{TO}	0.010	kW				
Standby mode	P _{SB}	0.010	kW	Type of energy input	Electricity		
Crankcase heater mode	P _{CK}	0.048	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		4500	m³/h
Outlet temperature capacity control	Variable						
Water flow rate capacity control	Fixed						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output <i>Prated</i> is equal to the design load for heating <i>Pdesignh</i> , and the rated heat output of a supplementary heater <i>Psup</i> is equal to the supplementary capacity for heating <i>sup(Tj)</i> .							
(**) Cdh shall be determined for each part load ratio, where applicable, by measurement. If not, the default degradation coefficient is Cdh = 0,9							
(***) If the declared <i>TOL</i> is lower than the <i>Tdesignh</i> of the considered climate, then the outdoor dry bulb temperature is equal to <i>Tdesignh</i> for the part load							

Models:

Outdoor Unit: EI40S

Indoor Unit: All-in-One3P

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 Yes

Parameters shall be declared for Low-temperature applications

Parameters shall be declared for Average Climate Conditions

Item	Symbol	Value	Unit
Rated Heat Output	Prated	11.611	kW
Seasonal space heating energy efficiency	ηs	192.2	%
Energy Classes		A+++	
Seasonal Coefficient of Performance	SCOP	4.88	kWh/kWh
Annual Energy consumption	QHE	4915	kWh
Sound power level indoors/outdoors	LWA	59	dB(A)

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	10.271	kW	Tj = -7°C	COPd	3.14	
Tj = +2°C	Pdh	6.345	kW	Tj = +2°C	COPd	4.62	

Tj = +7°C	Pdh	4.131	kW	Tj = +7°C	COPd	6.51	
Tj = +12°C	Pdh	4.371	kW	Tj = +12°C	COPd	9.37	
Tj = bivalent temperature	Pdh	10.271	kW	Tj = bivalent temperature	COPd	3.14	
Tj = operation limit temperature	Pdh	12.012	kW	Tj = operation limit temperature	COPd	2.69	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient (**)	Cdh	0.90	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	POFF	0.010	kW	Rate heat output	Psup	0	kW
Thermostat-off mode	PTO	0.010	kW				
Standby mode	PSB	0.010	kW	Type of energy input	Electricity		
Crankcase heater mode	PCK	0.048	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		4500	m³/h
Outlet temperature capacity control	Variable						
Water flow rate capacity control	Fixed						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output <i>Prated</i> is equal to the design load for heating <i>Pdesignh</i> , and the rated heat output of a supplementary heater <i>Psup</i> is equal to the supplementary capacity for heating <i>sup(Tj)</i> .							
(**) Cdh shall be determined for each part load ratio, where applicable, by measurement. If not, the default degradation coefficient is Cdh = 0,9							
(***). If the declared <i>TOL</i> is lower than the <i>Tdesignh</i> of the considered climate, then the outdoor dry bulb temperature is equal to <i>Tdesignh</i> for the part load							

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 02 August 2013

Models: Outdoor Unit: **EI60S**
 Indoor Unit: All-in-One3P

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 Yes

Parameters shall be declared for Medium-temperature applications

Parameters shall be declared for Average Climate Conditions

Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	17,04	kW
Seasonal space heating energy efficiency	η_s	147.2	%
Energy Classes		A++	
Seasonal Coefficient of Performance	SCOP	3.75	kWh/kWh
Annual Energy consumption	QHE	8167	kWh
Sound power level indoors/outdoors	LWA	65	dB(A)

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

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

T _j = -7°C	P _{dh}	13.13	kW	T _j = -7°C	COP _d	2.47	
T _j = +2°C	P _{dh}	8.00	kW	T _j = +2°C	COP _d	3.55	
T _j = +7°C	P _{dh}	5.36	kW	T_j = +7°C	COP_d	4.94	
T _j = +12°C	P _{dh}	4.77	kW	T _j = +12°C	COP _d	6.83	
T _j = bivalent temperature	P _{dh}	13.13	kW	T _j = bivalent temperature	COP _d	2.47	
T _j = operation limit temperature (***)	P _{dh}	14.10	kW	T _j = operation limit temperature	COP _d	2.19	
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient (**)	C _{dh}	0.90	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary Heater			

Off Mode	P _{OFF}	0.014	kW	Rate heat output (*)	P _{sup}	0.74	kW
Thermostat-off mode	P _{TO}	0.014	kW				
Standby mode	P _{SB}	0.014	kW	Type of energy input	Electricity		
Crankcase heater mode	P _{CK}	0.040	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		5500	m³/h
Outlet temperature capacity control	Variable						
Water flow rate capacity control	Fixed						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output <i>Prated</i> is equal to the design load for heating <i>Pdesignh</i>, and the rated heat output of a supplementary heater <i>Psup</i> is equal to the supplementary capacity for heating <i>sup(Tj)</i>. (**) Cdh shall be determined for each part load ratio, where applicable, by measurement. If not, the default degradation coefficient is Cdh = 0,9 (***) If the declared <i>TOL</i> is lower than the <i>Tdesignh</i> of the considered climate, then the outdoor dry bulb temperature is equal to <i>Tdesionh</i> for the part load							

Contact Details:

GUANGDONG PHNIX ECO-ENERGY SOLUTION LTD.

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