

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: PASRW040S-BP-PS-D

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	9.235	kW
Seasonal space heating energy efficiency	η_s	148.1	%
Energy Classes		A++	
Seasonal Coefficient of Performance	SCOP	3.78	kWh/kWh
Annual Energy consumption	QHE	5052	kWh
Sound power level indoors/outdoors	LWA	58	dB(A)

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

Tj = -7°C	Pdh	8.169	kW	Tj = -7°C	COPd	2.58	
Tj = +2°C	Pdh	4.978	kW	Tj = +2°C	COPd	3.62	
Tj = +7°C	Pdh	5.558	kW	Tj = +7°C	COPd	4.67	
Tj = +12°C	Pdh	6.075	kW	Tj = +12°C	COPd	6.16	
Tj = bivalent temperature	Pdh	8.169	kW	Tj = bivalent temperature	COPd	2.58	
Tj = operation limit temperature	Pdh	8.948	kW	Tj = operation limit temperature	COPd	2.54	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient (**)	Cdh	0.99	-	Heating water operating limit temperature	WTOL	75	°C

Power consumption in modes other than active mode**Supplementary Heater**

Off Mode	P _{OFF}	0.008	kW	Rate heat output	P _{sup}	0.29	kW
Thermostat-off mode	P _{TO}	0.008	kW				

Standby mode	P _{SB}	0.008	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.064	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		3600	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: PASRW040S-BP-PS-D

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

Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	9.286	kW
Seasonal space heating energy efficiency	ηs	193.6	%
Energy Classes		A+++	
Seasonal Coefficient of Performance	SCOP	4.92	kWh/kWh
Annual Energy consumption	QHE	3903	kWh
Sound power level indoors/outdoors	LWA	58	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	8.215	kW	Tj = -7°C	COPd	3.17	
Tj = +2°C	Pdh	5.036	kW	Tj = +2°C	COPd	4.85	
Tj = +7°C	Pdh	5.721	kW	Tj = +7°C	COPd	6.11	
Tj = +12°C	Pdh	6.225	kW	Tj = +12°C	COPd	7.59	
Tj = bivalent temperature	Pdh	8.215	kW	Tj = bivalent temperature	COPd	3.17	
Tj = operation limit temperature (***)	Pdh	9.392	kW	Tj = operation limit temperature	COPd	2.85	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C

Degradation Coefficient (**)	Cdh	0.99	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.008	kW	Rate heat output (*)	P _{sup}	0	kW
Thermostat-off mode	P _{TO}	0.008	kW				
Standby mode	P _{SB}	0.008	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.064	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		3600	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							

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

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Models: Outdoor Unit: PASRW040S-BP-PS-D

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 Colder Climate Conditions

Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	8.0	kW
Seasonal space heating energy efficiency	η_s	139.6	%
Energy Classes		-	
Seasonal Coefficient of Performance	SCOP	3.57	kWh/kWh
Annual Energy consumption	QHE	5517	kWh
Sound power level indoors/outdoors	LWA	58	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	4.96	kW	Tj = -7°C	COPd	3.41	
Degradation Coefficient (**)	Cdh	1.00	-				
Tj = +2°C	Pdh	3.58	kW	Tj = +2°C	COPd	4.08	
Degradation Coefficient (**)	Cdh	0.90	-				
Tj = +7°C	Pdh	4.00	kW	Tj = +7°C	COPd	5.61	
Degradation Coefficient (**)	Cdh	0.90	-				
Tj = +12°C	Pdh	4.62	kW	Tj = +12°C	COPd	6.63	
Degradation Coefficient (**)	Cdh	0.90	-				
Tj = bivalent temperature	Pdh	6.53	kW	Tj = bivalent temperature	COPd	2.16	
Tj = operation limit temperature (***)	Pdh	6.45	kW	Tj = operation limit temperature	COPd	1.68	
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.53	kW	Tj = -15 °C (if TOL < -20 °C)	COPd	2.16	
Degradation Coefficient (**)	Cdh	1.00	-				
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-25	°C
Reference design temperature	Tdesignh	-22	°C	Heating water operating limit	WTOL	75	°C

				temperature			
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.008	kW	Rated heat output (*)	P _{sup}	1.5	kW
Thermostat-off mode	P _{TO}	0.008	kW				
Standby mode	P _{SB}	0.008	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.064	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		3600	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: PASRW040S-BP-PS-D
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 Colder Climate Conditions

Item	Symbol	Value	Unit
Rated Heat Output	Prated	8.1	kW
Seasonal space heating energy efficiency	ηs	171.1	%
Energy Classes		-	
Seasonal Coefficient of Performance	SCOP	4.35	kWh/kWh
Annual Energy consumption	QHE	4574	kWh
Sound power level indoors/outdoors	LWA	58	dB(A)

Declared capacity for heating for part load at indoor

Declared coefficient of performance or primary energy ratio for

Temperature 20°C and outdoor temperature Tj

part load at indoor temperature 20°C and outdoor temperature Tj

Tj = -7°C	Pdh	5.15	kW	Tj = -7°C	COPd	3.92	
Degradation Coefficient (**)	Cdh	1.00	-				
Tj = +2°C	Pdh	3.66	kW	Tj = +2°C	COPd	4.98	
Degradation Coefficient (**)	Cdh	0.90	-				
Tj = +7°C	Pdh	4.13	kW	Tj = +7°C	COPd	6.87	
Degradation Coefficient (**)	Cdh	0.90	-				
Tj = +12°C	Pdh	4.75	kW	Tj = +12°C	COPd	8.54	
Degradation Coefficient (**)	Cdh	0.90	-				
Tj = bivalent temperature	Pdh	6.61	kW	Tj = bivalent temperature	COPd	2.98	
Tj = operation limit temperature (***)	Pdh	7.50	kW	Tj = operation limit temperatur (***)	COPd	2.18	
Tj = -15 ° C (if TOL < -20 ° C)	Pdh	6.61	kW	Tj = -15°C	COPd	2.98	
Degradation Coefficient (**)	Cdh	1.00	-				
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-25	°C
Reference design temperature	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	75	°C

Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.008	kW	Rate heat output (*)	P _{sup}	0.6	kW
Thermostat-off mode	P _{TO}	0.008	kW				
Standby mode	P _{SB}	0.008	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.064	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		3600	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 *Prated* is equal to the design load for heating *Pdesignh*, and the rated heat output of a supplementary heater *Psup* is equal to the supplementary capacity for heating *sup(Tj)*.

(**) 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 *TOL* is lower than the *Tdesignh* of the considered climate, then the outdoor dry bulb temperature is equal to *Tdesignh* for the part load

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Models: Outdoor Unit: PASRW040S-BP-PS-D

Indoor Unit: NoneAir-to-water heat pump YesBrine-to-water heat pump NoLow temperature heat pump NoEquipped with a supplementary heater NoHeat Pump Combination Heater NoParameters shall be declared for Medium-temperature applicationsParameters shall be declared for Warmer Climate Conditions

Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	11.3	kW
Seasonal space heating energy efficiency	η_s	175.6	%
Energy Classes		-	
Seasonal Coefficient of Performance	SCOP	4.46	kWh/kWh
Annual Energy consumption	QHE	3361	kWh
Sound power level indoors/outdoors	LWA	58	dB(A)

Declared capacity for heating for part load at indoor
Temperature 20°C and outdoor temperature TjDeclared 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	-	
Degradation Coefficient (**)	Cdh	-	-				
Tj = +2°C	Pdh	9.66	kW	Tj = +2°C	COPd	1.97	
Degradation Coefficient (**)	Cdh	1.00	-				
Tj = +7°C	Pdh	7.25	kW	Tj = +7°C	COPd	4.11	
Degradation Coefficient (**)	Cdh	1.00	-				
Tj = +12°C	Pdh	4.29	kW	Tj = +12°C	COPd	6.25	
Degradation Coefficient (**)	Cdh	0.90	-				
Tj = bivalent temperature	Pdh	9.69	kW	Tj = bivalent temperature	COPd	2.18	
Tj = operation limit temperature (***)	Pdh	9.66	kW	Tj = operation limit temperature	COPd	1.97	
Bivalent temperature	Tbiv	4	°C	Operation limit temperature	TOL	-25	°C
Reference design temperature	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	75	°C

Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.008	kW	Rate heat output (*)	P _{sup}	1.64	kW
Thermostat-off mode	P _{TO}	0.008	kW				
Standby mode	P _{SB}	0.008	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.064	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		3600	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: PASRW040S-BP-PS-D
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 Warmer Climate Conditions

Item	Symbol	Value	Unit
Rated Heat Output	Prated	11.0	kW
Seasonal space heating energy efficiency	ηs	233.6	%
Energy Classes		-	
Seasonal Coefficient of Performance	SCOP	5.91	kWh/kWh
Annual Energy consumption	QHE	2464	kWh
Sound power level indoors/outdoors	LWA	58	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	-	kW	Tj = -7°C	COPd	-	
Degradation Coefficient (**)	Cdh	-	-				
Tj = +2°C	Pdh	11.0	kW	Tj = +2°C	COPd	3.06	

Degradation Coefficient (**)	C _{dh}	1.00	-				
T _j = +7°C	P _{dh}	7.17	kW	T _j = +7°C	COP _d	5.08	
Degradation Coefficient (**)	C _{dh}	1.00	-				
T _j = +12°C	P _{dh}	4.39	kW	T _j = +12°C	COP _d	7.94	
Degradation Coefficient (**)	C _{dh}	0.90	-				
T _j = bivalent temperature	P _{dh}	11.0	kW	T _j = bivalent temperature	COP _d	3.06	
T _j = operation limit temperature (***)	P _{dh}	11.0	kW	T _j = operation limit temperature (***)	COP _d	3.06	
Bivalent temperature	T _{biv}	2	°C	Operation limit temperature	TOL	-25	°C
Reference design temperature	T _{designh}	2	°C	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P _{OFF}	0.008	kW	Rate heat output (*)	P _{sup}	0	kW
Thermostat-off mode	P _{TO}	0.008	kW				
Standby mode	P _{SB}	0.008	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.064	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		3600	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							

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