Technical Data Sheet Concerning the COMMISSION DELEGATED REGULATIONS

(EU)No 811/2013 of 18 February 2013

(EU)No 813/2013 of 2 August 2013

Air Source Heat Pumps

Space Heating Test Standard: EN14825

DHW Test Standard: EN16147

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Model	Outdoor unit:	Aerona HPR290i120		
	Indoor unit:	None		
Air to Water Heat Pump		Yes		
Brine to Water Heat Pump		No		
Low Temperature Heat Pump		No		
Equipped with Supplementary Heater		Yes		
Heat Pump Combination Heater		No		
Parameters shall be declared for	Medium Temp	perature Applications (55°C)		
Parameters shall be declared for	Averag	e Climate Conditions		

Item	Symbol	Value	Unit	Item	Symbo	l Value	Unit	
Rated Heat Output (*)	Prated	11.2	kW	Seasonal space heating	ηs	150	%	
	Tracea	11.2	IX VV	energy efficiency	115	130	, ,	
Declared capacity for heating for pa	ert load at inde	or		Declared coefficient of performance or	primary en	ergy ratio for	1	
				part load at indoor temperature 20°C and outdoor temperature Tj				
$Tj = -10^{\circ}C$	Pdh	10.58	kW	Tj = -10°C	COPa	l 2.15	-	
Degradation co-efficient (**)	Cdh	0.90	-					
$Tj = -7^{\circ}C$	Pdh	10.43	kW	Tj = -7°C	COPa	l 2.32	-	
Degradation co-efficient (**)	Cdh	0.90	-					
$Tj = +2^{\circ}C$	Pdh	6.56	kW	$Tj = +2^{\circ}C$	COPa	d 3.76	-	
Degradation co-efficient (**)	Cdh	0.90	-					
$Tj = +7^{\circ}C$	Pdh	4.57	kW	$Tj = +7^{\circ}C$	COPa	<i>l</i> 5.06	-	
Degradation co-efficient (**)	Cdh	0.90	-					
$Tj = +12^{\circ}C$	Pdh	3.20	kW	$Tj = +12^{\circ}C$	COPa	d 6.83	-	
Degradation co-efficient (**)	Cdh	0.90	-					
Tj = bivalent temperature	Pdh	10.81	kW	Tj = bivalent temperature	COPa	1 2.23	-	
Tj = operation limit temperature	Pdh	10.58	kW	Tj = operation limit temperature	СОРа	2.15	-	
$T_j = -15$ °C (if TOL < -20°C)	Pdh	-	kW	$T_1 = -15^{\circ}C \text{ (if TOL} < -20^{\circ}C)$	COPa	<i>l</i> -		
Bivalent temperature	Tbiv	-9	°C	Operation limit temperature	TOL	-10	°C	
•		•		Heating water operating limit temperature	WTOI	Z 75	°C	
Power consumption in modes other	than active m	node.		Supplementary Heater				
Off Mode	POFF	0.007	kW	Rate heat output	Psup	0.580	kW	
Thermostat-off mode	PTO	0.007	kW	Rate neat output	Loup	0.500	KW	
Standby mode	PSB	0.027	kW	Type of energy input	Electrical			
Crankcase heater mode	PCK	0.007	kW	Type of energy input	Licetrical			
0.1		•	•					
Other items			I					
Capacity control	Variable			Rated airflow rate, outdoors	-	4050	m³/h	
Sound power level indoors/outdoors	LWA	-/52	dBA				•	
Annual Energy consumption	QHE	6069	kWh					
For heat pump combination heater				Water heating energy efficiency	ηwh	123.1	%	
Declared load profile		L		Reference Hot Water Temperature	θ'WH	55.42		
Daily electricity consumption	Qelec	4.04	kWh	Actual Volume of cylinder under test	- ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	206.8	Litres	
Annual electricity consumption	AEC	831.6	kWh/a	Standby Cylinder Heat Loss	ı	1.40	kWh	

Contact Details:

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.



^(*) For heat pumps 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 $\sup(Tj)$.

Model	Outdoor unit:	Aerona HPR290i120		
	Indoor unit:	None		
Air to Water Heat Pump	Yes			
Brine to Water Heat Pump	No			
Low Temperature Heat Pump	No			
Equipped with Supplementary Heater	Y	Zes		
Heat Pump Combination Heater	N	10		
Parameters shall be declared for	Low Temperature Applications (35°C)			
Parameters shall be declared for	Average Clim	Low Temperature Applications (35°C) Average Climate Conditions		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	11.2	kW	Seasonal space heating	ne	190	%
				energy efficiency	ηs		
Declared capacity for heating for pa	rt lood at inde	\O#		Declared coefficient of performance	or primary anaray	ratio for	
Temperature 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and 00°C an		001		part load at indoor temperature 20°C			
$Tj = -10^{\circ}C$	Pdh	10.86	kW	Tj = -10°C	COPd	2.89	-
Degradation co-efficient (**)	Cdh	0.90	-				
$Tj = -7^{\circ}C$	Pdh	10.47	kW	$Tj = -7^{\circ}C$	COPd	3.12	-
Degradation co-efficient (**)	Cdh	0.90	-				
$Tj = +2^{\circ}C$	Pdh	7.18	kW	$Tj = +2^{\circ}C$	COPd	4.58	-
Degradation co-efficient (**)	Cdh	0.90	-				
$Tj = +7^{\circ}C$	Pdh	4.56	kW	$Tj = +7^{\circ}C$	COPd	6.66	-
Degradation co-efficient (**)	Cdh	0.90	-				
$T_i = +12^{\circ}C$	Pdh	3.40	kW	$Ti = +12^{\circ}C$	COPd	9.01	-
Degradation co-efficient (**)	Cdh	0.90	-				
Tj = bivalent temperature	Pdh	11.12	kW	Tj = bivalent temperature	COPd	3.12	-
Tj = operation limit	D.#	10.06	1 337	1	CODI	2.00	-
temperature	Pdh	10.86	kW	Tj = operation limit temperature	COPd	2.89	
Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	Tj = -15°C (if TOL < -20°C)	COPd	-	
Bivalent temperature	Tbiv	-9	°C	Operation limit temperature	TOL	-10	°C
				Heating water operating limit temperature	WTOL	60	°C
				•	•		•
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	P_{OFF}	0.007	kW	Rate heat output	P _{sup}	0.320	kW
Thermostat-off mode	P_{TO}	0.027	kW				
Standby mode	P_{SB}	0.007	kW	Type of energy input	Electrical	•	
Crankcase heater mode	P_{CK}	0.021	kW				
						•	
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-	4050	m³/h
Sound power level indoors/outdoors	LWA	-/49	dBA				
Annual Energy consumption	QHE	4803	kWh				
For heat pump combination heater				Water heating energy efficiency	η_{wh}	1	%
Declared load profile		NA		" ater heating energy emiciency	'Jwn	<u> </u>	70
Daily electricity consumption	Oelec	11/1	kW/h				
Daily clocularly consumption	Quic		kW/h	I			

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End of Life Information – Air Source Heat Pumps

General

Grant air source heat pumps incorporate components manufactured from a variety of different materials. However, most of these materials cannot be recycled as they are contaminated by the refrigerant and oil used in the heat pump.

Disassembly

This product may only be disassembled by a suitably qualified (F-gas) refrigeration engineer. Under no circumstances should the refrigerant be released into the atmosphere.

Recycling

In order for the heat pump to be recycled or disposed of it must be taken to a suitably licensed waste facility. You will need to contact a qualified refrigeration engineer to do this for you.

Disposal

The refrigerant will be removed and returned to the refrigerant manufacturer for recycling or disposal.

The complete heat pump unit, including the compressor and the oil contained within it, must be disposed of at a licensed waste facility, as it remains contaminated by the refrigerant.

Authorized by:

