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 HPR290i65		
	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	Average Climate Conditions		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	6.50	kW	Seasonal space heating energy efficiency	ηs	145	%
Declared capacity for heating for pa Temperature 20°C and outdoor tem		oor		Declared coefficient of performance or part load at indoor temperature 20°C ar			
$T_{j} = -7^{\circ}C$	Pdh	5.98	kW	$Tj = -7^{\circ}C$	COPd	2.33	_
Degradation co-efficient (**)	Cdh	0.90	K VV	1j = -/ C	COLU	2.33	
$T_{j} = +2^{\circ}C$	Pdh	3.99	kW	$Tj = +2^{\circ}C$	COPd	3.77	
Degradation co-efficient (**)	Cdh	0.90	-	11 - 12 C	COLU	3.77	
$T_{j} = +7^{\circ}C$	Pdh	2.75	kW	$Tj = +7^{\circ}C$	COPd	4.74	_
Degradation co-efficient (**)	Cdh	0.90	-	-g		,.	
Tj = +12°C	Pdh	2.41	kW	$T_i = +12^{\circ}C$	COPd	6.17	-
Degradation co-efficient (**)	Cdh	0.90	-				
Tj = bivalent temperature	Pdh	5.98	kW	Tj = bivalent temperature	COPd	2.09	-
Tj = operation limit temperature	Pdh	5.65	kW	Tj = operation limit temperature	COPd	1.97	-
$T_i = -15^{\circ}C \text{ (if TOL} < -20^{\circ}C)$	Pdh	-	kW	$T_i = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	-	
Bivalent temperature	Tbiv	-8	°C	Operation limit temperature	TOL	-10	°C
-				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other	than active m	ode.		Supplementary Heater			
Off Mode	POFF	0.007	kW	Rate heat output	Psup	0.790	kW
Thermostat-off mode	PTO	0.025	kW	Rate near output	твар	0.770	KVV
Standby mode	PSB	0.007	kW	Type of energy input	Electric		
Crankcase heater mode	PCK	0.020	kW	Type of energy input			
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-	2650	m³/h
Sound power level indoors/outdoors	LWA	-/52	dBA				
Annual Energy consumption	QHE	3633	kWh				
For heat pump combination heater				Water heating energy efficiency	ηwh	129.3	%
Declared load profile		L		Reference Hot Water Temperature	$\theta'WH$	55.53	°C
Daily electricity consumption	Qelec	3.83	kWh	Actual Volume of cylinder under test		206.8	Litres
Annual electricity consumption	AEC	791.64	kWh/a	Standby Cylinder Heat Loss		1.40	kWh

Contact Details:

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(*) 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 $\sup(Tj)$.

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



Model	Outdoor unit:	Aerona HPR290i65		
	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	Low Temper	ature Applications (35°C)		
Parameters shall be declared for	Average	Average Climate Conditions		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	6.50	kW	Seasonal space heating	ηs	203	%
				energy efficiency			
Declared capacity for heating for pa	rt load at indo	oor	I	Declared coefficient of performance or primary energy ratio for			
Temperature 20°C and outdoor tem				part load at indoor temperature 20°C			
$Ti = -7^{\circ}C$	Pdh	6.33	kW	$T_i = -7^{\circ}C$	COPd	3.25	-
Degradation co-efficient (**)	Cdh	0.90	-				
$Tj = +2^{\circ}C$	Pdh	4.03	kW	$Tj = +2^{\circ}C$	COPd	5.22	-
Degradation co-efficient (**)	Cdh	0.90	-				
$Tj = +7^{\circ}C$	Pdh	2.74	kW	$Tj = +7^{\circ}C$	COPd	6.85	-
Degradation co-efficient (**)	Cdh	0.90	-				
$Tj = +12^{\circ}C$	Pdh	2.24	kW	$Tj = +12^{\circ}C$	COPd	8.07	-
Degradation co-efficient (**)	Cdh	0.90	-				
Tj = bivalent temperature	Pdh	6.18	kW	Tj = bivalent temperature	COPd	2.91	-
Tj = operation limit temperature	Pdh	5.99	kW	Tj = operation limit temperature	COPd	2.82	-
$T_1 = -15^{\circ}C \text{ (if TOL} < -20^{\circ}C)$	Pdh	_	kW	$T_i = -15$ °C (if TOL < -20°C)	COPd	_	
Bivalent temperature	Tbiv	-9	°C	Operation limit temperature	TOL	-10	°C
			l	Heating water operating limit temperature	WTOL	60	°C
				temperature		l	
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	POFF	0.007	kW	Rate heat output	Psup	0.48	kW
Thermostat-off mode	PTO	0.025	kW	1	1		
Standby mode	PSB	0.007	kW	Type of energy input	Electric		
Crankcase heater mode	PCK	0.020	kW	31 23 1			
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-	2650	m³/h
Sound power level indoors/outdoors	LWA	-/51	dBA				
Annual Energy consumption	QHE	2603	kWh				
						1	- 0/
For heat pump combination heater		NT A	1	Water heating energy efficiency	ηwh		%
Declared load profile	0.1	NA	1 337/1				
Daily electricity consumption	Qelec		kW/h				
Annual electricity consumption	AEC		kW/h				

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



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:

