Product fiche concerning the COMMISSION DELEGATED REGULATIONS

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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		No		
Heat Pump Combination Heater		Yes		
Parameters shall be declared for	Medium Tempe	erature Applications (55°C)		
Parameters shall be declared for	Average	e Climate Conditions		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated Heat Output (*)	Prated	6.76	kW	Seasonal space heating energy efficiency	ηs	143	%	
				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj				
$Ti = -7^{\circ}C$	Pdh	5.98	kW	$T_j = -7^{\circ}C$	COPd	2.33	-	
Degradation co-efficient (**)	Cdh	0.98	-					
$T_i = +2^{\circ}C$	Pdh	3.99	kW	$Tj = +2^{\circ}C$	COPd	3.77	-	
Degradation co-efficient (**)	Cdh	0.95	-					
$Tj = +7^{\circ}C$	Pdh	2.75	kW	$Tj = +7^{\circ}C$	COPd	4.74	-	
Degradation co-efficient (**)	Cdh	0.96	-					
$Tj = +12^{\circ}C$	Pdh	2.41	kW	$Tj = +12^{\circ}C$	COPd	6.17	-	
Degradation co-efficient (**)	Cdh	0.94	-					
$T_j = bivalent temperature$	Pdh	5.98	kW	Tj = bivalent temperature	COPd	2.33	-	
Tj = operation limit temperature	Pdh	5.65	kW	Tj = operation limit temperature	COPd	1.97	-	
$Tj = -15^{\circ}C$ (if TOL < -20°C)	Pdh	-	kW	$Tj = -15^{\circ}C$ (if TOL < -20°C)	COPd	-		
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C	
•				Heating water operating limit temperature	WTOL	75	°C	
Power consumption in modes other	than active m	ode		Supplementary Heater				
Off Mode	Poff	0.007	kW	Rate heat output	P _{sup}	3.00	kW	
Thermostat-off mode	Рто	0.025	kW	1	*			
Standby mode	P _{SB}	0.007	kW	Type of energy input	Electric			
Crankcase heater mode	Рск	0.020	kW					
Other items								
Capacity control	Variable			Rated airflow rate, outdoors	-	2650	m³/h	
Sound power level indoors/outdoors	$L_{W\!A}$	32.8/53.8	dBA			1		
Annual Energy consumption	Q_{HE}	3835	kWh	1				
For heat pump combination heater				Water heating energy efficiency	ηwh	129.2	%	
Declared load profile		L		Reference Hot Water Temperature	θ'_{WH}	55.53	°C	
Daily electricity consumption	Qelec	3.79	kWh	Actual Volume of cylinder under test		206.8	Litres	
Annual electricity consumption	AEC	791.64	kWh/a	Standby Cylinder Heat Loss		1.79	kWh	

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	Indoor unit:	None
Air to Water Heat Pump		Yes
Brine to Water Heat Pump		No
Low Temperature Heat Pump		No
Equipped with Supplementary Heater		No
Heat Pump Combination Heater		Yes
Parameters shall be declared for	Low Tempera	ature Applications (35°C)
Parameters shall be declared for	Average	Climate Conditions

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated		kW	Seasonal space heating	ηs	198	%
Kaled Heat Output ()	Trated	7.15	K VV	energy efficiency	113	198	70
Declared capacity for heating for part load at indoor				Declared coefficient of performance of	or primary energy	ratio for	
Temperature 20°C and outdoor tem				part load at indoor temperature 20°C a			
$Tj = -7^{\circ}C$	Pdh	6.33	kW	$Ti = -7^{\circ}C$	COPd	3.25	-
Degradation co-efficient (**)	Cdh	0.97	_				
$Tj = +2^{\circ}C$	Pdh	4.03	kW	$Tj = +2^{\circ}C$	COPd	5.22	-
Degradation co-efficient (**)	Cdh	0.93	-				1
$Tj = +7^{\circ}C$	Pdh	2.74	kW	$Tj = +7^{\circ}C$	COPd	6.85	-
Degradation co-efficient (**)	Cdh	0.94	-	-			
$Tj = +12^{\circ}C$	Pdh	2.24	kW	$Tj = +12^{\circ}C$	COPd	8.07	-
Degradation co-efficient (**)	Cdh	0.91	-	-			
Tj = bivalent temperature	Pdh	6.33	kW	Tj = bivalent temperature	COPd	3.25	-
T _j = operation limit	D.//	5.00	1 33 7		CODI	2.02	-
temperature	Pdh	5.99	kW	Tj = operation limit temperature	COPd	2.82	
$Tj = -15^{\circ}C$ (if TOL < -20°C)	Pdh	-	kW	$Tj = -15^{\circ}C$ (if TOL < -20°C)	COPd	-	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
				Heating water operating limit	WTOI	75	°C
				temperature	WTOL	75	°C
		1					
Power consumption in modes other			1 1 1 7	Supplementary Heater	D	2.00	1 1 1 1
Off Mode	POFF	0.007	kW	Rate heat output	P _{sup}	3.00	kW
Thermostat-off mode	Рто	0.025	kW				
Standby mode	PSB	0.007	kW	Type of energy input	Electric		
Crankcase heater mode	Рск	0.020	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-	2650	m³/h
Sound power level	$L_{W\!A}$	32.8/53.8	dBA		•		
indoors/outdoors	0						
Annual Energy consumption	Q_{HE}	2942	kWh				
For heat pump combination heater				Water heating energy efficiency	η_{wh}		%
Declared load profile		NA					
Daily electricity consumption	Qelec		kW/h				
Annual electricity consumption	AEC		kW/h				

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	Indoor unit:	None
Air to Water Heat Pump		Yes
Brine to Water Heat Pump		No
Low Temperature Heat Pump		No
Equipped with Supplementary Heater		No
Heat Pump Combination Heater		Yes
Parameters shall be declared for	Medium Tem	perature Applications (55°C)
Parameters shall be declared for	Colder C	Climate Conditions

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated Heat Output (*)	Prated	5.40	kW	Seasonal space heating	ηs	121	%		
Kaleu Heat Output ()	Trated	5.40	K VV	energy efficiency			/0		
Declared capacity for heating for part load at indoor				Declared coefficient of performance or primary energy ratio for					
Temperature 20°C and outdoor tem				part load at indoor temperature 20°C and outdoor temperature Tj					
$T_i = -7^{\circ}C$	Pdh	4.63	kW	$T_i = -7^{\circ}C$	COPd	2.69	-		
Degradation co-efficient (**)	Cdh	0.97	-	5					
$Tj = +2^{\circ}C$	Pdh	2.83	kW	$Tj = +2^{\circ}C$	COPd	4.22	-		
Degradation co-efficient (**)	Cdh	0.93	-						
$Tj = +7^{\circ}C$	Pdh	1.72	kW	$Tj = +7^{\circ}C$	COPd	5.14	-		
Degradation co-efficient (**)	Cdh	0.94	-						
$Tj = +12^{\circ}C$	Pdh	1.61	kW	$Tj = +12^{\circ}C$	COPd	6.89	-		
Degradation co-efficient (**)	Cdh	0.91	-						
Tj = bivalent temperature	Pdh	4.42	kW	Tj = bivalent temperature	COPd	1.90	-		
Tj = operation limit	D.11.	2.12	1.337	Ti	CODI	1.24	-		
temperature	Pdh	3.13	kW	Tj = operation limit temperature	COPd	1.34			
$Tj = -15^{\circ}C$ (if TOL < -20°C)	Pdh	-	kW	$Tj = -15^{\circ}C$ (if TOL < -20°C)	COPd	-			
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-22	°C		
				Heating water operating limit temperature	WTOL	60	°C		
				▲					
Power consumption in modes other		ode		Supplementary Heater					
Off Mode	Poff	0.007	kW	Rate heat output	P _{sup}	3.00	kW		
Thermostat-off mode	Рто	0.025	kW						
Standby mode	P_{SB}	0.007	kW	Type of energy input	Electric				
Crankcase heater mode	Рск	0.020	kW						
Other items									
Capacity control	Variable			Rated airflow rate, outdoors	-	2650	m³/h		
Sound power level indoors/outdoors	$L_{W\!A}$	32.8/53.8	dBA						
Annual Energy consumption	Q_{HE}	4510	kWh						
For heat pump combination heater				Water heating energy efficiency	η _{wh}		%		
Declared load profile		NA			•	•	•		
Daily electricity consumption	Qelec		kW/h						
Annual electricity consumption	AEC		kW/h						

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Brine to Water Heat Pump		No		
Low Temperature Heat Pump		No		
Equipped with Supplementary Heater		No		
Heat Pump Combination Heater		Yes		
Parameters shall be declared for	Medium Temperature Applications (55°C)			
Parameters shall be declared for	Warmer	Climate Conditions		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated Heat Output (*)	Prated	7.2	kW	Seasonal space heating energy efficiency	ηs	177	%	
				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature Tj				
$Tj = -7^{\circ}C$	Pdh	-	kW	$T_i = -7^{\circ}C$	COPd	-	-	
Degradation co-efficient (**)	Cdh	-	-					
$T_i = +2^{\circ}C$	Pdh	6.71	kW	$Tj = +2^{\circ}C$	COPd	2.27	-	
Degradation co-efficient (**)	Cdh	0.90	-	5				
$T_i = +7^{\circ}C$	Pdh	4.63	kW	$Tj = +7^{\circ}C$	COPd	3.84	-	
Degradation co-efficient (**)	Cdh	0.90	-	5				
$T_i = +12^{\circ}C$	Pdh	2.44	kW	$Tj = +12^{\circ}C$	COPd	6.48	-	
Degradation co-efficient (**)	Cdh	0.90	-					
$T_i = bivalent temperature$	Pdh	4.63	kW	Tj = bivalent temperature	COPd	3.84	-	
Tj = operation limit temperature	Pdh	6.71	kW	Tj = operation limit temperature	COPd	2.27	-	
$T_j = -15^{\circ}C$ (if TOL < -20°C)	Pdh	-	kW	$Tj = -15^{\circ}C$ (if TOL < -20°C)	COPd	-		
Bivalent temperature	Tbiv	7	°C	Operation limit temperature	TOL	2	°C	
*				Heating water operating limit temperature	WTOL	75	°C	
Power consumption in modes other	than active m	ode		Supplementary Heater				
Off Mode	Poff	0.007	kW	Rate heat output	P _{sup}	3.00	kW	
Thermostat-off mode	Рто	0.025	kW	Tute neur sulput	- sup	5.00	RU	
Standby mode	P _{SB}	0.007	kW	Type of energy input	Electric			
Crankcase heater mode	Рск	0.020	kW	Type of energy input	2.000.00			
Other items								
Capacity control	Variable			Rated airflow rate, outdoors	-	2650	m³/h	
Sound power level indoors/outdoors	$L_{W\!A}$	32.8/53.8	dBA			1	1	
Annual Energy consumption	Q_{HE}	2168	kWh					
For heat pump combination heater				Water heating energy efficiency	ηwh		%	
Declared load profile				Reference Hot Water Temperature	θ' _{WH}		°C	
Daily electricity consumption	Qelec		kWh	Actual Volume of cylinder under test			Litres	
Annual electricity consumption	AEC		kWh/a	Standby Cylinder Heat Loss			kWh	

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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:

