# **Product fiche 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 <sup>3</sup> HPID10R32		
	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 Temper	rature Applications (55°C)		
Parameters shall be declared for	Average	Average Climate Conditions		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	8.7	kW	Seasonal space heating energy efficiency	ηs	139	%
Declared capacity for heating for pa		oor		Declared coefficient of performance	or primary energ	y ratio for	
Temperature 20°C and outdoor tem	perature Tj			part load at indoor temperature 20°C	and outdoor tem	perature Tj	
$Tj = -7^{\circ}C$	Pdh	8.16	kW	$Tj = -7^{\circ}C$	COPd	2.29	-
Degradation co-efficient (**)	Cdh	0.99	-				
$Tj = +2^{\circ}C$	Pdh	5.07	kW	$Tj = +2^{\circ}C$	COPd	3.53	-
Degradation co-efficient (**)	Cdh	0.99	-				
$Tj = +7^{\circ}C$	Pdh	3.40	kW	$Tj = +7^{\circ}C$	COPd	5.41	-
Degradation co-efficient (**)	Cdh	0.98	-	-			
$T_j = +12^{\circ}C$	Pdh	3.95	kW	$Tj = +12^{\circ}C$	COPd	8.45	-
Degradation co-efficient (**)	Cdh	0.99	-				
$T_j = bivalent temperature$	Pdh	8.70	kW	Tj = bivalent temperature	COPd	2.19	-
Tj = operation limit	Pdh	8.01	kW	$T_j = operation limit temperature$	COPd	2.01	-
temperature $T_j = -15^{\circ}C$ (if TOL < -20^{\circ}C)	Pdh		kW	Tj = -15°C (if TOL < -20°C)	COPd	_	
Bivalent temperature $-20 \text{ C}$	T an Tbiv	-9	°C	Operation limit temperature	TOL	-10	°C
Bivalent temperature	1010	-9	C	· ·	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	0.10	kW	Rate heat output	P <sub>sup</sub>	0	kW
Thermostat-off mode	P <sub>TO</sub>	0.04	kW	1			
Standby mode	P <sub>SB</sub>	0.10	kW	Type of energy input			
Crankcase heater mode	Рск	0.00	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-	2664	m³/h
Sound power level indoors/outdoors	$L_{WA}$	43/64	dBA			1	1
Annual Energy consumption	$Q_{HE}$	5064	kWh				
For heat pump combination heater				Water heating energy efficiency	ηwh	99.6	%
Declared load profile		L		Reference Hot Water Temperature	<i>θ'</i> <sub>WH</sub>	51.60	°C
Daily electricity consumption	Qelec	4.85	kWh	Actual Volume of cylinder under test		206.8	Litres
Annual electricity consumption	AEC	1770	kWh/a	Standby Cylinder Heat Loss		1.76	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 <sup>3</sup> HPID10R32		
	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 Temper	rature Applications (35°C)		
Parameters shall be declared for	Average	Average Climate Conditions		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	9.2	kW	Seasonal space heating energy efficiency	ηs	209	%
Declared capacity for heating for pa		oor		Declared coefficient of performance			
Temperature 20°C and outdoor tem	perature Tj			part load at indoor temperature 20°C	and outdoor temp	perature Tj	
$Tj = -7^{\circ}C$	Pdh	9.03	kW	$Tj = -7^{\circ}C$	COPd	3.30	-
Degradation co-efficient (**)	Cdh	0.99	-				
$Tj = +2^{\circ}C$	Pdh	5.29	kW	$Tj = +2^{\circ}C$	COPd	5.96	-
Degradation co-efficient (**)	Cdh	0.99	-				•
$Tj = +7^{\circ}C$	Pdh	3.40	kW	$Tj = +7^{\circ}C$	COPd	7.80	-
Degradation co-efficient (**)	Cdh	0.98	-				
$Tj = +12^{\circ}C$	Pdh	3.70	kW	$Tj = +12^{\circ}C$	COPd	9.20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = bivalent temperature	Pdh	8.86	kW	Tj = bivalent temperature	COPd	3.10	-
Tj = operation limit temperature	Pdh	8.86	kW	Tj = operation limit temperature	COPd	3.10	-
$T_j = -15^{\circ}C$ (if TOL < $-20^{\circ}C$ )	Pdh	-	kW	$T_i = -15^{\circ}C$ (if TOL < $-20^{\circ}C$ )	COPd	-	
Bivalent temperature	Tbiv	-10	°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	0.10	kW	Rate heat output	Psup	0.00	kW
Thermostat-off mode	$P_{TO}$	0.04	kW	1			
Standby mode	PSB	0.10	kW	Type of energy input			
Crankcase heater mode	РСК	0.00	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-	2664	m³/h
Sound power level indoors/outdoors	$L_{W\!A}$	43/64	dBA				
Annual Energy consumption	$Q_{HE}$	3592	kWh				
For heat pump combination heater				Water heating energy efficiency	$\eta_{wh}$		%
Declared load profile		NA					
Daily electricity consumption	Qelec		kW/h	]			
Annual electricity consumption	AEC		kW/h				

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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:

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