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

Model				Outdoor unit:			Aerona³ HPID6R32
				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 Temperature Applications (55°C)			
Parameters shall be declared for				Average Climate Conditions			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	4.5	kW	Seasonal space heating energy efficiency	ηs	132	%
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	5.03	kW	Tj = -7°C	$COPd$	2.11	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +2°C	Pdh	3.21	kW	Tj = +2°C	$COPd$	4.03	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +7°C	Pdh	2.20	kW	Tj = +7°C	$COPd$	5.10	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12°C	Pdh	1.78	kW	Tj = +12°C	$COPd$	6.15	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = bivalent temperature	Pdh	4.50	kW	Tj = bivalent temperature	$COPd$	1.90	-
Tj = operation limit temperature	Pdh	4.50	kW	Tj = operation limit temperature	$COPd$	1.90	-
Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	Tj = -15°C (if TOL < -20°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 mode				Supplementary Heater			
Off Mode	P_{OFF}	0.10	kW	Rate heat output	P_{sup}	0	kW
Thermostat-off mode	P_{TO}	0.04	kW				
Standby mode	P_{SB}	0.10	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.00	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-	2082	m³/h
Sound power level indoors/outdoors	L_{WA}	44/65	dBA				
Annual Energy consumption	Q_{HE}	2755	kWh				

For heat pump combination heater				Water heating energy efficiency	$ηwh$	**114**	%
Declared load profile		**L**		Reference Hot Water Temperature	$θ'_{WH}$	**49.04**	°C
Daily electricity consumption	$Qelec$	4.23	kWh	Actual Volume of cylinder under test		**206.8**	Litres
Annual electricity consumption	AEC	897.77	kWh/a	Standby Cylinder Heat Loss		**1.76**	kWh

Contact Details:

Grant Engineering (Ireland) ULC, Barrack Street, Crinkle, Birr, Co. Offaly, R42 D788, Ireland.

(*) 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.

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Model				Outdoor unit:			Aerona³ HPID6R32
				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 Temperature Applications (35°C)			
Parameters shall be declared for				Average Climate Conditions			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	4.5	kW	Seasonal space heating energy efficiency	ηs	185	%
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	4.68	kW	Tj = -7°C	$COPd$	3.13	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +2°C	Pdh	3.24	kW	Tj = +2°C	$COPd$	6.02	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +7°C	Pdh	2.10	kW	Tj = +7°C	$COPd$	7.40	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12°C	Pdh	2.00	kW	Tj = +12°C	$COPd$	9.20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = bivalent temperature	Pdh	4.20	kW	Tj = bivalent temperature	$COPd$	2.75	-
Tj = operation limit temperature	Pdh	4.20	kW	Tj = operation limit temperature	$COPd$	2.75	-
Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	Tj = -15°C (if TOL < -20°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 mode				Supplementary Heater			
Off Mode	P_{OFF}	0.10	kW	Rate heat output	P_sup	0.00	kW
Thermostat-off mode	P_{TO}	0.04	kW				
Standby mode	P_{SB}	0.10	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.00	kW				

Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-	2082	m³/h
Sound power level indoors/outdoors	L_{WA}	44/65	dBA				
Annual Energy consumption	Q_{HE}	1981	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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(**) 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.
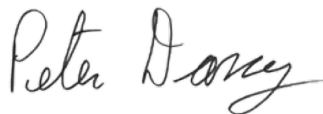
Recycling
In order for the heat pump to be recycled or disposed of it must be taken to a suitably licensed waste facility. You will need to contact a qualified refrigeration engineer to do this for you.

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.

Peter Darcy   11-05-2020

Authorized by: