# Product fiche relating to: The Eco Design for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019

VortexAir Internal Sealed System	Symbols	Unit	VTXBFAIR1526
Condensing boiler			Yes
Low temperature boiler			No
B1 Boiler			No
Combination heater			No
Rated heat output	Prated	kW	26
			•
At rated heat output and high temp regime	P <sub>4</sub>	kW	26
At 30% of rated heat output and low temp regime	<i>P</i> <sub>1</sub>	kW	7.8
Auxiliary electricity consumption			
At Full load	Elmax	kW	0.130
At part load	Elmin	kW	0.039
In standby mode	P <sub>SB</sub>	kW	0
Useful efficiency			
ErP Energy Label Class			А
Seasonal space heating energy efficiency	ηs	%	91.71
At rated heat output and high temperature regime	$\Pi_4$	%	93.6
At 30% of rated heat output and low temperature regime	$\eta_1$	%	96.4
Other items			
Standby heat loss	P <sub>stby</sub>	kW	0.264
Ignition burner power consumption	Pign	kW	0
Annual energy consumption	Q <sub>HE</sub>	kWh	-
Sound power level, indoors	L <sub>WA</sub>	db	50.6
Emissions of nitrogen oxides	NOx	mg/ kWh	73
Emissions Class			3
Daily fuel consumption	Q <sub>fuel</sub>	kWh	-
Annual fuel consumption	AFC	GJ	-

Grant Engineering (UK) Ltd Frankland Road, Blagrove, Swindon, SN5 8YG t: +44 (0)1380 736920 e: info@grantuk.com f: +44 (0)1380 736991 w: www.grantuk.com



Models:	Outdoor Unit:	Aerona <sup>3</sup> HPID17R32
	Indoor Unit:	None
Air-to-water heat pump		Yes
Brine-to-water heat pump		No
Low temperature heat pump		No
Equipped with a supplementary heater		No
Heat Pump Combination Heater		Yes
Parameters shall be declared for		low-temperature applications
Parameters shall be declared for		Average Climate Conditions

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	12.8	kW	Seasonal space heating energy efficiency	ηs	182	%
Declared capacity for heating fo Temperature 20°C and outdoor				Declared coefficient of performance part load at indoor temperature 20			
Tj = -7°C	Pdh	12.0	kW	Tj = -7°C	COPd	3.06	
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +2°C	Pdh	7.70	kW	Tj = +2°C	COPd	4.61	
Degradation co-efficient (**)	Cdh	0.99	-				
Ti = +7°C	Pdh	9.20	kW	Tj = +7°C	COPd	6.75	
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12°C	Pdh	6.20	kW	Tj = +12°C	COPd	9.64	
Degradation co-efficient (**)	Cdh	0.99	-				
Ti = bivalent temperature	Pdh	11.64	kW	Tj = bivalent temperature	COPd	3.08	
Tj = operation limit temperature	Pdh	11.4	kW	Tj = operation limit temperature	COPd	3.24	
$T_j = -15^{\circ}C$ (if TOL < -20°C)	Pdh	-	kW	Tj = -15°C (if TOL < -20°C)	COPd	-	
Bivalent temperature	Tbiv	-8		Operation limit temperature	TOL	-10	°C
	-			Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes	other than	active mo	de	Supplementary Heater			
Off Mode	POFF	0.10	kW	Rate heat output	Psup	1.40	kW
Thermostat-off mode	Рто	0.04	kW		1 Sup	1.10	
Standby mode	PsB	0.10	kW	Type of energy input	Electric		
Crankcase heater mode	Рск	0.00	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors	-	4464	m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	41/61	dBA				
Annual Energy consumption	Q <sub>HE</sub>	5731	kWh				
For heat pump combination heater		•		Water heating energy efficiency	ηwh		%
Declared load profile	-	-	-				
Daily electricity consumption	Qelec	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

### Contact Details: Grant Engineering (UK) Ltd, Frankland Road, Blagrove, Swindon SN5 8YG

(\*) 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.



Models:	Outdoor Unit:	Aerona <sup>3</sup> HPID17R32
	Indoor Unit:	None
Air-to-water heat pump		Yes
Brine-to-water heat pump		No
Low temperature heat pump		No
Equipped with a supplementary heater		No
Heat Pump Combination Heater		Yes
Parameters shall be declared for		Medium-temperature applications
Parameters shall be declared for		Average Climate Conditions

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
				Seasonal space heating			
Rated Heat Output (*)	Prated	12.2	kW	energy efficiency	ηs	143	%
Declared capacity for heating for	r part load at	t indoor		Declared coefficient of performance	ce or primary e	nergy ratio fo	or
Temperature 20°C and outdoor	temperature	Tj		part load at indoor temperature 20			
Tj = -7°C	Pdh	12.8	kW	Tj = -7°C	COPd	2.34	
Degradation co-efficient (**)	Cdh	0.99	-				
$Tj = +2^{\circ}C$	Pdh	7.40	kW	$Tj = +2^{\circ}C$	COPd	3.61	
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +7°C	Pdh	9.10	kW	Tj = +7°C	COPd	5.21	
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12°C	Pdh	6.11	kW	Tj = +12°C	COPd	8.12	
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = bivalent temperature	Pdh	10.76	kW	Tj = bivalent temperature	COPd	2.12	
Tj = operation limit temperature	Pdh	9.57	kW	Tj = operation limit temperature	COPd	2.15	
$T_j = -15^{\circ}C$ (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 mo	de	Supplementary Heater			
Off Mode	POFF	0.10	kW	Rate heat output	Psup	2.63	kW
Thermostat-off mode	Рто	0.04	kW		i sup	2.00	
Standby mode	PsB	0.10	kW	Type of energy input	Electric		
Crankcase heater mode	Рск	0.00	kW	Type of energy input	LICOUIO		
	1 010	0.00					
Other items			_				
Capacity control	Variable			Rated airflow rate, outdoors	-	4464	m³/h
Sound power level indoors/outdoors	L <sub>WA</sub>	41/61	dBA				
Annual Energy consumption	Q <sub>HE</sub>	6931	kWh				
For heat pump combination heater				Water heating energy efficiency	ŋwh	99	%
Declared load profile	-	L	-	Reference Hot Water	Θ' <sub>WH</sub>	49.42	°C
Daily electricity consumption	Qelec	4.86	kW/h		- VVII		
Annual electricity consumption	AEC	1033.86	kW/h				

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## **End of Life Information**

#### General

Grant oil boilers incorporate components manufactured from a variety of different materials. The majority of these materials can be recycled whilst the smaller remainder cannot. Materials that cannot be recycled must be disposed of according to local regulations using appropriate waste collection and/or disposal services.

#### **Disassembly - Oil Boiler**

There is little risk to those involved in the disassembly of this product. Please refer to and follow the Health and Safety Information given in the Installation & Servicing Instructions provided with the boiler. For guidance on the disassembly of the boiler refer to the information given in the Servicing section of the Installation & Servicing Instructions provided with the boiler.

#### Disassembly - Heat Pump This product may only be disassembled by a suitably qualified (F-gas) refrigeration engineer.

#### Recycling

Many of the materials used in Grant oil boilers can be recycled, these are listed in the table below:

#### Component

Outer casing panels Primary heat exchanger and baffles Secondary heat exchanger Secondary heat exchanger spirals Pipework Burner body/flange Burner oil pump Riello oil burner cover Electrical wiring Thermostats Printed Circuit boards Material Mild steel (polyester powder coated) Mild steel Stainless steel Aluminium alloy Copper Aluminium alloy/steel Plastic Copper/plastic Copper/plastic Copper/plastic

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

All materials other than those listed above must be disposed of responsibly as general waste.

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Neil Sawers Commercial Technical Manager

