



## Product Fiche

### Logic Air 10kW and 210L Pre-Plumbed Cylinder (2-Zone & Buffer)

Model(s):	Logic Air 10kW and 210L Pre-Plumbed Cylinder (2-Zone & Buffer)			
Outdoor unit reference:	Ideal Logic Air 10kW, AH750667			
Indoor unit reference:	IDEPLUHP210DUOPPDZ, 236209			
Air / water heat pump:	Yes			
Equipped with a backup heater	Yes			
Temperature control	Variable Outlet			
Parameters are declared for:	Low & High temperature applications			
Parameters are declared for:	Average Climate conditions			
Heating applications			35°C	55°C
<b>EN14825 - Space heating</b>				
Energy class (product & package)	-	-	A+++	A++
Rated heat output (*)	Prated	kW	10.6	10.2
Rated energy efficiency	ns	%	205	146
Annual Energy consumption	Qhe	kWh	4219	5655
<b>Declared heat output with a partial load for an indoor temperature of 20°C and an outdoor temp. of Tj</b>				
Tj = -7°C = Bivalent temperature	Pdh	kW	9.4	9.0
Tj = +2°C	Pdh	kW	5.7	5.5
Tj = +7°C	Pdh	kW	3.7	3.5
Tj = + 12 °C	Pdh	kW	4.5	4.4
Tj = bivalent temperature	Pdh	kW	9.4	9.0
Tj = operating temperature	Pdh	kW	9.1	8.2
Degradation coefficient (**)	Cdh	-	0.97	0.98
<b>Declared coefficients of performance with a partial load for an indoor temperature of 20°C and an outdoor temp. of Tj</b>				
Tj = -7°C = Bivalent temperature	COPd	-	3.17	2.27
Tj = +2°C	COPd	-	5.17	3.66
Tj = +7°C	COPd	-	6.91	4.91
Tj = + 12 °C	COPd	-	8.4	6.63
Tj = bivalent temperature	COPd	-	3.17	2.27
Tj = operating temperature	COPd	-	2.84	2.03
Operating temperature limit	TOL	°C	-10	
Max Operating temperature	WTOL	°C	55	
<b>Backup heater</b>				
Rated heat output (*) (Electric)	Psup	kW	1.5	2
Type of energy used	-	-	Electrical	
<b>Electricity consumption in modes</b>				
Shutdown	Poff	W	0.007	
Thermostat	Pto	W	0.015	0.014
Standby	Psb	W	0.01	
Crank case heater	Pck	W	0	0
<b>Acoustic data</b>				
Sound Power Level of Outdoor unit	Lwa	dB (A)	59	
<b>Other Characteristics</b>				
Power control	-	-	Inverter	
Rated air flow rate (outdoors)	-	m <sup>3</sup> /h	3580	3580
<b>EN16147- Domestic Hot Water production</b>				
Declared Load profile	-	-	L	
Energy class (product & package)	-	-	A+	
Water Heating efficiency	nwh	%	144.9	
COP			3.36	
Reference Hot Water Temp		°C	56	
Standby Heat Loss		kWhr/day	1.33	
Volume of DHW Storage		Litre	199	
Volume of Water accounted for in test		Litre	240.3	

The products Listed conform to EN16147 and also comply with EU 814/2013

The products Listed conform to EN14825 and also comply with EU 813/2013