

Product sheet

Trade name		IDEAL HEATING							
Models		LOGIC AIR 08 kW			LOGIC AIR 10kW				
Reference		750 666			750 667				
Heating applications		35°C		55°C		35°C		55°C	
Air/water heat pump		YES							
Equipped with a backup heater		NO							
Average climate - Space heating									
Energy class (product)		-	-	A+++	A++	A+++	A++		
Energy class (package)		-	-	A+++	A++	A+++	A++		
Rated heat output (**)		P _{rated}	kW	9	9	11	10		
Rated energy efficiency		η _s	%	203	145	205	146		
Rated energy efficiency with outside sensor(*)		η _s	%	205	147	207	148		
Rated energy efficiency with room sensor(*)		η _s	%	207	149	209	150		
Annual energy consumption		Q _{he}	kWh	3725	5079	4219	5655		
Acoustic data									
Sound power level		L _{WA}	dBa	59			59		
Declared heat output with a partial load for an indoor temperature of 20°C and an outdoor temperature of T_j									
T _j = -7°C		P _{dh}	kW	8,2	8,0	9,4	9,0		
T _j = +2°C		P _{dh}	kW	5,0	4,9	5,7	5,5		
T _j = +7°C		P _{dh}	kW	3,9	3,7	3,7	3,5		
T _j = +12°C		P _{dh}	kW	4,5	4,4	4,5	4,4		
T _j = bivalent temperature		P _{dh}	kW	8,2	8,0	9,4	9,0		
T _j = operating temperature limit		P _{dh}	kW	8,0	7,6	9,1	8,2		
Bivalent temperature		T _{biv}	°C	-7	-7	-7	-7		
Degradation coefficient (***)		C _{dh}	-	0,97	0,98	0,97	0,98		
Declared coefficients of performance with a partial load for an indoor temperature of 20°C and an outdoor temperature of T_j									
T _j = -7°C		COP _d	-	3,24	2,29	3,17	2,27		
T _j = +2°C		COP _d	-	5,10	3,60	5,17	3,66		
T _j = +7°C		COP _d	-	6,81	4,94	6,91	4,91		
T _j = +12°C		COP _d	-	8,75	6,60	8,40	6,63		
T _j = bivalent temperature		COP _d	-	3,24	2,29	3,17	2,27		
T _j = operating temperature limit		COP _d	-	2,93	2,03	2,84	2,03		
For air/water heat pumps: operating temperature limit		TOL	°C	-10	-10	-10	-10		
Maximum heating water operating temperature		WTOL	°C	60	60	60	60		
Backup heater									
Rated heat output (**)		P _{sup}	kW	1,3	1,5	1,5	2,00		
Type of energy used		-	-	Electrical					
Electricity consumption in modes other than the active mode									
Shutdown mode		P _{OFF}	kW	0,007	0,007	0,007	0,007		
Thermostat shutdown mode		P _{TO}	kW	0,015	0,014	0,015	0,014		
Standby mode		P _{SB}	kW	0,010	0,010	0,010	0,010		
Casing resistance mode		P _{CK}	kW	0,000	0,000	0,000	0,000		
Other characteristics									
Power control		-	-	Inverter					
For air/water heat pumps, rated air flow rate, outdoors		-	m ³ /h	3580			3580		

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(*) The calculation details are available on the package datasheet. The room unit refers to: sensors, thermostats and remote controllers included, or not included, in the kits.

(**) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the rated calorific load P_{designh}, and the rated heat output of the backup heater P_{sup} is equal to the calorific output of the extra backup heating (T_j).

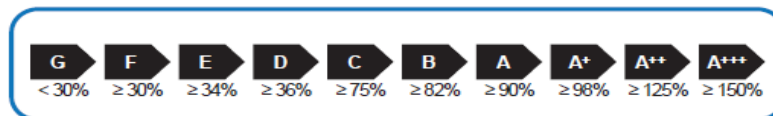
(***) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh}=0.9.

Package datasheet

Application 55°C

Product name	LOGIC AIR 8kW		LOGIC AIR 10kW	
Reference	750 666		750 667	
Seasonal energy efficiency of heat pump for space heating	145%		146%	
Type of temperature control	Outdoor sensor (included in the package), class II	Modulating room thermostat (outdoor sensor included in the package), class VI	Outdoor sensor (included in the package), class II	Modulating room thermostat (outdoor sensor included in the package), class VI
Bonus	2%	4%	2%	4%
Seasonal space heating energy efficiency of package in average climate conditions	147%	149%	148%	150%
Energy class of the package	A++	A++	A++	A+++
Seasonal space heating energy efficiency of package in warmer climate conditions	datas pending		188%	190%
Seasonal space heating energy efficiency of package in colder climate conditions	NA		NA	

The energy efficiency of the combined product provided for in this datasheet may not correspond to its actual energy efficiency once the combined product has been installed in a building, as the efficiency is influenced by other factors such as heat loss in the distribution system and the capacity of the products in relation to building size and characteristics.

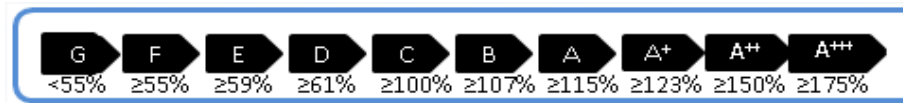


Package datasheet

Application 35°C

Product name	LOGIC AIR 8kW		LOGIC AIR 10kW	
Reference	750 666		750 667	
Seasonal energy efficiency of heat pump for space heating	203%		205%	
Type of temperature control	Outdoor sensor (included in the package), class II	Modulating room thermostat (outdoor sensor included in the package), class VI	Outdoor sensor (included in the package), class II	Modulating room thermostat (outdoor sensor included in the package), class VI
Bonus	2%	4%	2%	4%
Seasonal space heating energy efficiency of package in average climate conditions	205%	207%	207%	209%
Energy class of the package	A+++	A+++	A+++	A+++
Seasonal space heating energy efficiency of package in warmer climate conditions	datas pending		266%	268%
Seasonal space heating energy efficiency of package in colder climate conditions	NA		NA	

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Product sheet

Outdoor sensor (included in the package)	
Class	II
Bonus	2%

Modulating room thermostat (outdoor sensor included in the package)	073951
	075313
	073954
	074061
Class	VI
Bonus	4%