INFORMATION SHEET FOR AIR CONDITIONERS, EXCEPT DOUBLE DUCTS AND SINGLE DUCTS[5]

As by Comission Communication in the framework of ecodesign requirements for air conditioners and comfort fans (EU Regulation no. 206/2012) and of energy labelling of air conditioners - (EU Regulation no. 626/2011)

MODEL : ECOLIGHT PLUS 18000 UE / ECOLIGHT PLUS 18000 UI

Function to which information applies		If information applies to heating: heating season to which information relates.	
Cooling	Y	Heating (Average)(-10°C)	Y
Heating	Y	Heating (Warmer)(+2°C)	Y
		Heating (Colder)(-22°C)	N

Item	symbol	value	unit	Item	symbol	value	unit
Design load				**Seasonal efficiency**			
Cooling	Pdesignc	4,6	kW	Cooling	SEER	6,4	-
Heating (Average)(-10°C)	Pdesignh	3,7	kW	Heating (Average)(-10°C)	SCOP (A)	4,0	-
Heating (Warmer)(+2°C)	Pdesignh	3,6	kW	Heating (Warmer)(+2°C)	SCOP (W)	5,1	-
Heating (Colder)(-22°C)	Pdesignh	-	kW	Heating (Colder)(-22°C)	SCOP (C)	-	-
Declared capacity (*) for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				**Declared Energy efficiency ratio (*) for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj**			
Tj = 35°C	Pdc	4,61	kW	Tj = 35°C	EERd	3,24	-
Tj = 30°C	Pdc	3,30	kW	Tj = 30°C	EERd	4,83	-
Tj = 25°C	Pdc	2,14	kW	Tj = 25°C	EERd	7,52	-
Tj = 20°C	Pdc	1,25	kW	Tj = 20°C	EERd	11,22	-
Declared capacity (*) for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				**Declared Coefficient of Performance (*) for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj**			
Tj = -7°C	Pdh	3,34	kW	Tj = -7°C	COPd	2,97	-
Tj = 2°C	Pdh	1,99	kW	Tj = 2°C	COPd	4,08	-
Tj = 7°C	Pdh	1,32	kW	Tj = 7°C	COPd	4,67	-
Tj = 12°C	Pdh	0,95	kW	Tj = 12°C	COPd	5,16	-
Tj = bivalent temperature	Pdh	3,70	kW	Tj = bivalent temperature	COPd	2,32	-
Tj = operating limit temperature	Pdh	3,34	kW	Tj = operating limit temperature	COPd	2,97	-
Declared capacity (*) for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				**Declared Coefficient of Performance (*) for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj**			
Tj = 2°C	Pdh	3,73	kW	Tj = 2°C	COPd	2,61	-
Tj = 7°C	Pdh	2,31	kW	Tj = 7°C	COPd	5,08	-
Tj = 12°C	Pdh	1,08	kW	Tj = 12°C	COPd	5,87	-
Tj = bivalent temperature	Pdh	3,73	kW	Tj = bivalent temperature	COPd	2,61	-
Tj = operating limit temperature	Pdh	3,73	kW	Tj = operating limit temperature	COPd	2,61	-
Declared capacity (*) for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				**Declared Coefficient of Performance (*) for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj**			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	-	kW	Tj = 2°C	COPd	-	-
Tj = 7°C	Pdh	-	kW	Tj = 7°C	COPd	-	-
Tj = 12°C	Pdh	-	kW	Tj = 12°C	COPd	-	-
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	-
Tj = operating limit temperature	Pdh	-	kW	Tj = operating limit temperature	COPd	-	-
Tj =-15°C	Pdh	-	kW	Tj =-15°C	COPd	-	-
Bivalent temperature				**Operating limit temperature**			
Heating (Average)	Tbiv	-7	°C	Heating (Average)	Tol	-10	°C
Heating (Warmer)	Tbiv	2	°C	Heating (Warmer)	Tol	2	°C
Heating (Colder)	Tbiv	-	°C	Heating (Colder)	Tol	-	°C
Power consumption of cycling				**Efficiency of cycling**			
Cooling	Pcycc	na	kW	Cooling	EERcyc	na	-
Heating	Pcych	na	kW	Heating	COPcyc	na	-
Degradation coefficient cooling(**)	Cdc	0,25	-	Degradation coefficient heating(**)	Cdh	0,25	-
Electric power input in power modes other than "active mode"				**Seasonal electricity consumption**			
Off mode	P_{OFF}	0,002036	W	Cooling	Q_{CE}	251	kWh/a
Standby mode	P_{SB}	0,002036	W	Heating (Average)(-10°C)	Q_{HE}/A	1295	kWh/a
Thermostat-off mode	P_{TO}	0,00552/0,02513	W	Heating (Warmer)(+2°C)	Q_{HE}/W	988	kWh/a
Crankcase heater mode	P_{CK}	0	W	Heating (Colder)(-22°C)	Q_{HE}/C	-	kWh/a
Capacity control type				**Other items**			
Fixed		N		Sound power level (indoor/outdoor)	L_{WA}	58/63	dB(A)
Staged		N		Refrigerant type		R32	
Variable		Y		Global warming potential	GWP	675	$KgCO_2eq.$
				Rated air flow (indoor/outdoor)		850/1950	m^3/h
For more detailed information				**ARGOCLIMA SPA - Via A. Varo,35 - Alfianello (BS) - ITALY - www.argoclima.com**			

(5) For multisplit appliances, data shall be provided at a *Capacity ratio* of 1.

(**) If default Cd= 0,25 is chosen, then results from cycling tests are not required. Otherwise either the heating or cooling cycling test value is required

Product Fiche

Model: ECOLIGHT PLUS 18000 UE / ECOLIGHT PLUS 18000 UI

Manufacturer : ARGOCLIMA SPA - via Alfeno Varo, 35 - Alfianello (BS) - Italy;

Sound power level (indoor unit / outdoor unit): 58 / 63 dB(A);

Refrigerant: R32

Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

Cooling mode

SEER: 6,4

Energy efficiency class: A++

Pdesignc: 4,6 kW

Annual electricity consumption 251 kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

Heating mode

Climate type: Warmer / Average

SCOP: 5,1 / 4,0

Energy efficiency class: A+++/A+

Pdesignh: 3,6 / 3,7 kW

Declared capacity: **3,6 / 3,5** kW

The back up heating capacity for SCOP calculation: **0 / 0,2** kW.

Annual electricity consumption **988 / 1295** kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.