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 : CHARM PLUS 18000 UE / CHARM 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	5,1	kW	Cooling	SEER	6,6	-
Heating (Average)(-10°C)	Pdesignh	3,6	kW	Heating (Average)(-10°C)	SCOP (A)	4,1	-
Heating (Warmer)(+2°C)	Pdesignh	3,9	kW	Heating (Warmer)(+2°C)	SCOP (W)	5,3	-
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	4,91	kW	Tj = 35°C	EERd	3,10	-
Tj = 30°C	Pdc	3,49	kW	Tj = 30°C	EERd	4,85	-
Tj = 25°C	Pdc	2,28	kW	Tj = 25°C	EERd	7,84	-
Tj = 20°C	Pdc	1,47	kW	Tj = 20°C	EERd	12,85	-
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	3,09	kW	Tj = -7°C	COPd	2,92	-
Tj = 2°C	Pdh	1,91	kW	Tj = 2°C	COPd	4,15	-
Tj = 7°C	Pdh	1,27	kW	Tj = 7°C	COPd	4,92	-
Tj = 12°C	Pdh	1,19	kW	Tj = 12°C	COPd	6,10	-
Tj = bivalent temperature	Pdh	3,09	kW	Tj = bivalent temperature	COPd	2,92	-
Tj = operating limit temperature	Pdh	3,69	kW	Tj = operating limit temperature	COPd	2,40	-
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	3,57	kW	Tj = 2°C	COPd	3,31	-
Tj = 7°C	Pdh	2,46	kW	Tj = 7°C	COPd	5,13	-
Tj = 12°C	Pdh	1,19	kW	Tj = 12°C	COPd	6,10	-
Tj = bivalent temperature	Pdh	3,57	kW	Tj = bivalent temperature	COPd	3,31	-
Tj = operating limit temperature	Pdh	3,57	kW	Tj = operating limit temperature	COPd	3,31	-
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	-	kW	Cooling	EERcyc	-	-
Heating	Pcych	-	kW	Heating	COPcyc	-	-
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}	-	W	Cooling	Q_{CE}	270	kWh/a
Standby mode	P_{SB}	0,3	W	Heating (Average)(-10°C)	Q_{HE}/A	1220	kWh/a
Thermostat-off mode	P_{TO}	36,2/12,8	W	Heating (Warmer)(+2°C)	Q_{HE}/W	1017	kWh/a
Crankcase heater mode	P_{CK}	-	W	Heating (Colder)(-22°C)	Q_{HE}/C	-	kWh/a
Capacity control type				**Other items**			
Fixed		N		Sound power level (indoor/outdoor)	L_{WA}	57/62	dB(A)
Staged		N		Refrigerant type		R32	
Variable		Y		Global warming potential	GWP	675	$KgCO_2eq.$
				Rated air flow (indoor/outdoor)		850	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: CHARM PLUS 18000 UE / CHARM PLUS 18000 UI

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

Sound power level (indoor unit / outdoor unit): 57 / 62 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: 6,6

Energy efficiency class: A++

Pdesignc: 5,1 kW

Annual electricity consumption **270 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: Average (-10°C) / Warmer (+2°C)

SCOP: 4,1/5,3/-

Energy efficiency class: A+/A+++/-

Pdesignh: 3,6/3,9/- kW

The back up heating capacity for SCOP calculation: # kW

Annual electricity consumption **1220/1017/-** kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.