Technical Document

Appliance - Split type air conditioner

Directive 2009/125/EC

Supplier	Carrier
Outdoor unit	38WHSM050A1A0TEE
Indoor unit 1	40WHMW050D1A0TEE
Capacity control	Variable

Cooling

Design load	Pdesignc	kW	5.0
Seasonal efficiency	SEER		7.00
Seasonal electricity consumption (*)	Qce kWh/annum		250
Degradation co-efficient cooling	Cdc		-

Declared capacity for cooling, at indoor temperature 27(19) °C and outdoor temperature Tj

Tj = 35°C	Pdc	kW	5.00
Tj = 30°C	Pdc	kW	3.68
Tj = 25°C	Pdc	kW	2.37
Tj = 20°C	Pdc	kW	1.20

Declared energy efficiency ratio, at indoor temperature 27(19) °C and outdoor temperature Tj

Tj = 35°C	Pdc	kW	3.33
Tj = 30°C	Pdc	kW	5.36
Tj = 25°C	Pdc	kW	8.45
Tj = 20°C	Pdc	kW	12.25

Heating

			Average climate	Colder climate	Warmer climate
Design load	Pdesignh	kW	3.8	-	2.0
Seasonal efficiency	SCOP		4.40	-	5.60
Seasonal electricity consumption (*)	Qhe	kWh/annum	1210	-	511
Bivalent temperature		°C	-7.0	-15.0	2.0
Operation limit temperature		°C	-15.0	-15.0	-15.0
Degradation co-efficient heating	Cdh		-		

Average climate

Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj

Tj = -7 °C	Pdh	kW	3.36
Tj = +2 °C	Pdh	kW	2.05
Tj = +7 °C	Pdh	kW	1.32
Tj = +12 °C	Pdh	kW	1.00
Tj = bivalent temperature	Pdh	kW	3.36
Tj = operation limit temperature	Pdh	kW	2.40

Declared coefficient of performance/Average season, at indoor temperature 20 °C and outdoor temperature Tj

Tj = -7 °C	Pdh	kW	2.65
Tj = +2 °C	Pdh	kW	4.43
Tj = +7 °C	Pdh	kW	5.90
Tj = +12 °C	Pdh	kW	7.00
Tj = bivalent temperature	Pdh	kW	2.65
Tj = operation limit temperature	Pdh	kW	2.00

Electricity

off mode	Poff	kW	0.001	standby mode	Psb	kW	0.001
thermostat-off mode	Pto	kW	0.039	Crankcase heater mode	Pck	kW	0.000

Back up heating capacity	kW	0.800	-	0.000

Declared capacity for heating, at indoor temperature 20°C and outdoor temperature Tj.

Tj = -7 °C	Pdh	kW	3.36	-	-
Tj = +2 °C	Pdh	kW	2.05	-	2.05
Tj = +7 °C	Pdh	kW	1.32	-	1.32
Tj = +12 °C	Pdh	kW	1.00	-	1.00
Tj = bivalent temperature	Pdh	kW	3.36	-	2.05
Tj = operation limit temperature	Pdh	kW	2.40	-	2.40

(*) Based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located

Refrigerant

Type		R32
Global Warming Potential	GWP kgCO2eq	675

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 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO2, 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

Sound power level

		Cooling	Heating
Outdoor unit	dB	61	62
Indoor unit 40WHMW050D1A0TEE	dB	54	57

Rated air flow

		Cooling	Heating
Outdoor unit	m3/h	1660	1800
Indoor unit 40WHMW050D1A0TEE	m3/h	640	780

Dimensions

	Height	Width	Depth	Weight (kg)
Outdoor unit	m3/h		1660	1800
Indoor unit 40WHMW050D1A0TEE	m3/h		640	780

Harmonised standard EN14511:2007 , EN12102

Calculation methods - Measurement standards EN14511:2007 , EN12102

Contact details

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