## **Technical Document**



Appliance - Split type air conditioner							Dir	ective	2009/125/E
Supplier									Carrier
Outdoor unit							;	38WHS	M020A1A0TEE
Indoor unit 1							4	OWHM	1W020D1A0TEE
Capacity control									Variable
Cooling									
Design load			Pdesigno			kW			2.0
Seasonal efficiency		SEER						6.20	
Seasonal electricity consumption (*)		Qce kWh/annum						113	
Degradation co-efficient cooling		Cdc -				-			
Declared capacity for cooling, at indoor te temperature Tj	emperature 27(	erature 27(19) °C and outdoor Declared energy efficiency ratio, at indoor temperature 27(19) °C and outdoor temperature Ti				and outdoor			
Tj = 35°C	Pdc	kW	2.00		Tj = 35°C		Pdc	kW	3.77
Tj = 30°C	Pdc	kW	1.47		Tj = 30°C		Pdc	kW	5.16
Tj = 25°C	Pdc	kW	0.95		Tj = 25°C		Pdc	kW	7.57
Tj = 20°C	Pdc	kW	1.00		Tj = 20°C		Pdc	kW	9.76
Heating					Average climate	Colder climate		Wai	rmer climate
Design load			Pdesignh	kW	2.0	-			1.1
Seasonal efficiency			SCOP		4.60	-			5.40
Seasonal electricity consumption (*)			Qhe k\	Wh/ann	um 609	-			288
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 temperature Tj	indoor temperatu	ure 20 °C	Cand outdoor		Declared coefficient of perform outdoor temperature Tj	nance/Average season, at	indoor te	emperati	ure 20 °C and
Declared capacity for heating/Average season, at	indoor temperatu Pdh	ure 20 °C	C and outdoor			nance/Average season, at	indoor to Pdh	emperatu kW	ure 20 °C and
Declared capacity for heating/Average season, at temperature Tj					outdoor temperature Tj	nance/Average season, at			
Declared capacity for heating/Average season, at temperature Tj $Tj = -7  ^{\circ}C$ $Tj = +2  ^{\circ}C$ $Tj = +7  ^{\circ}C$	Pdh	kW	1.77		outdoor temperature $Tj = -7 ^{\circ}C$	nance/Average season, at	Pdh	kW	3.00
Declared capacity for heating/Average season, at temperature $Tj$ $Tj = -7  ^{\circ}\text{C}$ $Tj = +2  ^{\circ}\text{C}$	Pdh Pdh	kW kW	1.77		outdoor temperature Tj $Tj = -7  ^{\circ}C$ $Tj = +2  ^{\circ}C$	nance/Average season, at	Pdh Pdh	kW kW	3.00
Declared capacity for heating/Average season, at temperature Tj $Tj = -7  ^{\circ}C$ $Tj = +2  ^{\circ}C$ $Tj = +7  ^{\circ}C$	Pdh Pdh Pdh	kW kW	1.77 1.08 0.69		outdoor temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C	nance/Average season, at	Pdh Pdh Pdh	kW kW kW	3.00 4.71 5.89
Declared capacity for heating/Average season, at temperature Tj $Tj = -7  ^{\circ}\text{C}$ $Tj = +2  ^{\circ}\text{C}$ $Tj = +7  ^{\circ}\text{C}$ $Tj = +12  ^{\circ}\text{C}$	Pdh Pdh Pdh Pdh	kW kW kW	1.77 1.08 0.69 0.80		outdoor temperature Tj $Tj = -7 ^{\circ}\text{C}$ $Tj = +2 ^{\circ}\text{C}$ $Tj = +7 ^{\circ}\text{C}$ $Tj = +12 ^{\circ}\text{C}$		Pdh Pdh Pdh Pdh	kW kW kW	3.00 4.71 5.89 6.58
Declared capacity for heating/Average season, at temperature $Tj$ $Tj = -7  ^{\circ}C$ $Tj = +2  ^{\circ}C$ $Tj = +7  ^{\circ}C$ $Tj = +12  ^{\circ}C$ $Tj = bivalent temperature$	Pdh Pdh Pdh Pdh Pdh	kW kW kW kW	1.77 1.08 0.69 0.80 1.77		outdoor temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C  Tj = +12 °C  Tj = bivalent temperature		Pdh Pdh Pdh Pdh Pdh	kW kW kW kW	3.00 4.71 5.89 6.58 3.00
Declared capacity for heating/Average season, at temperature $Tj$ $Tj = -7 ^{\circ}C$ $Tj = +2 ^{\circ}C$ $Tj = +7 ^{\circ}C$ $Tj = +12 ^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit temperature$ Electricity off mode	Pdh Pdh Pdh Pdh Pdh	kW kW kW kW	1.77 1.08 0.69 0.80 1.77 1.37		outdoor temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C  Tj = +12 °C  Tj = bivalent temperature		Pdh Pdh Pdh Pdh Pdh	kW kW kW kW	3.00 4.71 5.89 6.58 3.00 2.21
Declared capacity for heating/Average season, at temperature $Tj$ $Tj = -7  ^{\circ}C$ $Tj = +2  ^{\circ}C$ $Tj = +12  ^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit temperature$ $Electricity$ off mode $thermostat-off mode$	Pdh Pdh Pdh Pdh Pdh Pdh	kW kW kW kW kW	1.77 1.08 0.69 0.80 1.77 1.37		outdoor temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperature  standby mode  Crankcase heater mode		Pdh Pdh Pdh Pdh Pdh Pdh	kW kW kW kW kW	3.00 4.71 5.89 6.58 3.00 2.21
Declared capacity for heating/Average season, at temperature $Tj$ $Tj = -7 ^{\circ}C$ $Tj = +2 ^{\circ}C$ $Tj = +7 ^{\circ}C$ $Tj = +12 ^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit temperature$ Electricity off mode	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	kW kW kW kW kW	1.77 1.08 0.69 0.80 1.77 1.37	kW	outdoor temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperature  standby mode		Pdh Pdh Pdh Pdh Pdh Pdh Psb	kW kW kW kW kW	3.00 4.71 5.89 6.58 3.00 2.21
Declared capacity for heating/Average season, at temperature $Tj$ $Tj = -7  ^{\circ}C$ $Tj = +2  ^{\circ}C$ $Tj = +12  ^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit temperature$ $Electricity$ off mode $thermostat-off mode$	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pth	kW kW kW kW kW	1.77 1.08 0.69 0.80 1.77 1.37		outdoor temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperature  standby mode  Crankcase heater mode	ture	Pdh Pdh Pdh Pdh Pdh Pdh Psb	kW kW kW kW kW	3.00 4.71 5.89 6.58 3.00 2.21
Declared capacity for heating/Average season, at temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperature  Electricity  off mode  thermostat-off mode  Back up heating capacity	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pth	kW kW kW kW kW	1.77 1.08 0.69 0.80 1.77 1.37		outdoor temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperature  standby mode  Crankcase heater mode	ture	Pdh Pdh Pdh Pdh Pdh Pdh Psb	kW kW kW kW kW	3.00 4.71 5.89 6.58 3.00 2.21
Declared capacity for heating/Average season, at temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperature  Electricity  off mode  thermostat-off mode  Back up heating capacity  Declared capacity for heating, at indoor temperature, at temperature	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pth	kW kW kW kW kW	1.77 1.08 0.69 0.80 1.77 1.37  0.001 0.019	Гј.	outdoor temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperat  standby mode  Crankcase heater mode  0.380	ture	Pdh Pdh Pdh Pdh Pdh Pdh Psb	kW kW kW kW kW	3.00 4.71 5.89 6.58 3.00 2.21 0.001 0.000 0.000
Declared capacity for heating/Average season, at temperature $Tj$ $Tj = -7  ^{\circ}C$ $Tj = +2  ^{\circ}C$ $Tj = +12  ^{\circ}C$ $Tj = bivalent temperature$ $Tj = operation limit temperature$ $Electricity$ off mode $thermostat-off mode$ $Back up heating capacity$ $Declared capacity for heating, at indoor temperature of the capacity of the $	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pth	kW kW kW kW kW	1.77 1.08 0.69 0.80 1.77 1.37  0.001 0.019	Гј. kW	outdoor temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperat  standby mode  Crankcase heater mode  0.380	ture	Pdh Pdh Pdh Pdh Pdh Pdh Psb	kW kW kW kW kW	3.00 4.71 5.89 6.58 3.00 2.21 0.001 0.000 0.000
Declared capacity for heating/Average season, at temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperature  Electricity  off mode  thermostat-off mode  Back up heating capacity  Declared capacity for heating, at indoor tem  Tj = -7 °C  Tj = +2 °C	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pth	kW kW kW kW kW	1.77 1.08 0.69 0.80 1.77 1.37  0.001 0.019  door temperature Tells Pdh Pdh	Γj. kW kW	outdoor temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperat  standby mode  Crankcase heater mode  0.380  1.77  1.08	ture - -	Pdh Pdh Pdh Pdh Pdh Pdh Psb	kW kW kW kW kW	3.00 4.71 5.89 6.58 3.00 2.21 0.001 0.000 0.000
Declared capacity for heating/Average season, at temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperature  Electricity  off mode  thermostat-off mode  Back up heating capacity  Declared capacity for heating, at indoor tem  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pth	kW kW kW kW kW	1.77 1.08 0.69 0.80 1.77 1.37  0.001 0.019  door temperature 7 Pdh Pdh Pdh	rj. kW kW kW	outdoor temperature Tj  Tj = -7 °C  Tj = +2 °C  Tj = +7 °C  Tj = +12 °C  Tj = bivalent temperature  Tj = operation limit temperature  standby mode  Crankcase heater mode  0.380  1.77  1.08  0.69	ture - -	Pdh Pdh Pdh Pdh Pdh Pdh Psb	kW kW kW kW kW	3.00 4.71 5.89 6.58 3.00 2.21 0.001 0.000 0.000

 $<sup>(*) \</sup> Based on standard \ test \ results. \ Actual \ energy \ consumption \ will \ depend \ on \ how \ the \ appliance \ is \ used \ and \ where \ it \ is \ located$ 

## Refrigerant

Туре		R32
Global Warming Potential	GWP kgCO2ea	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	60	62
Indoor unit 40WHMW020D1A0TEE	dB	51	51
Rated air flow		Cooling	Heating
Outdoor unit	m3/h	1800	1800

Dimensions	Height	Width Depth	Weight (kg)
Outdoor unit	m3/h	1800	1800
Indoor unit 40WHMW020D1A0TEE	m3/h	500	500

m3/h

500

500

Harmonised standard EN14511:2007, EN12102

Indoor unit 40WHMW020D1A0TEE

Calculation methods - Measurement standards EN14511:2007, EN12102

## Contact details

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