



Technical document

Suppliers name	
Name	CARRIER JAPAN CORPORATION
Address	336 TADEHARA, FUJI-SHI, SHIZUOKA-KEN, JAPAN

a general description of the appliance
Multi split type air conditioner

outdoor unit	
Type	XCT8 16HP
name	38VT016188HTEE

indoor unit	
Type	Ducted
name	40VD027H-8S-TEE

indoor unit(2)	
Type	Ducted
name	40VD027H-8S-TEE

indoor unit(3)	
Type	Ducted
name	40VD027H-8S-TEE

indoor unit(4)	
Type	Ducted
name	40VD024H-8S-TEE

indoor unit(5)	
Type	Ducted
name	40VD024H-8S-TEE

indoor unit(6)	
Type	Ducted
name	40VD024H-8S-TEE

indoor unit(7)	
Type	-
name	-

indoor unit(8)	
Type	-
name	-

Power consumption of cycling			
cooling	P _{cycc}	x , x	kW
heating	P _{cyh}	x , x	kW

Efficiency of cycling			
cooling	EER _{cycc}	x , x	-
heating	COP _{cyh}	x , x	-

Degradation co-efficient			
cooling	C _{dc}	0.25	-

Degradation co-efficient			
Heating	C _{dc}	0.25	-



Function(indicate which function applies to the information)	
cooling	Y
heating	Y

If function applies to heating: Indicate the heating season the information relates to. Information should relate to one heating season at a time. Include at least the heating season 'Average'	
Average(mandatory)	Y
Warmer(if designated)	N
Colder(if designated)	N

Item	symbol	value	unit
Design load			
cooling	Pdesignc	45.0	kW
heating/Average	Pdesignh	23.2	kW
heating/Warmer	Pdesignh	x . x	kW
heating/Colder	Pdesignh	x . x	kW

Item	symbol	value	unit
Seasonal efficiency			
cooling	ηsc	265.0	%
	SEER	6.70	-
heating/Average	ηsh(A)	165.8	%
	SCOP(A)	4.22	-
heating/Warmer	ηsh(W)	x x x . x	%
	SCOP(W)	x . x x	-
heating/Colder	ηsh(C)	x x x . x	%
	SCOP(C)	x . x x	-

Declared capacity for cooling at indoor temperature 27(19)°C and outdoor temperature Tj.			
Tj=35°C	Pdc	45.00	kW
Tj=30°C	Pdc	33.16	kW
Tj=25°C	Pdc	21.32	kW
Tj=20°C	Pdc	11.27	kW

Declared Energy efficiency ratio for cooling at indoor temperature 27(19)°C and outdoor temperature Tj.			
Tj=35°C	EERd	2.55	-
Tj=30°C	EERd	4.27	-
Tj=25°C	EERd	8.56	-
Tj=20°C	EERd	14.44	-

Declared capacity for heating/Average climate, at indoor temperature 20°C and outdoor temperature Tj.			
Tj=-7°C	Pdh	20.52	kW
Tj=2°C	Pdh	12.49	kW
Tj=7°C	Pdh	8.03	kW
Tj=12°C	Pdh	8.70	kW
Tj=bivalent temperature	Pdh	20.52	kW
Tj=operation limit	Pdh	21.00	kW

Declared coefficient of performance for heating/Average climate, at indoor temperature 20°C and outdoor temperature Tj.			
Tj=-7°C	COPd	2.37	-
Tj=2°C	COPd	3.97	-
Tj=7°C	COPd	6.58	-
Tj=12°C	COPd	7.83	-
Tj=bivalent temperature	COPd	2.37	-
Tj=operation limit	COPd	1.42	-

Declared capacity for heating/Warmer climate, at indoor temperature 20°C and outdoor temperature Tj.			
Tj=2°C	Pdh	x . x x	kW
Tj=7°C	Pdh	x . x x	kW
Tj=12°C	Pdh	x . x x	kW
Tj=bivalent temperature	Pdh	x . x x	kW
Tj=operation limit	Pdh	x . x x	kW

Declared coefficient of performance for heating/Warmer climate, at indoor temperature 20°C and outdoor temperature Tj.			
Tj=2°C	COPd	x . x x	-
Tj=7°C	COPd	x . x x	-
Tj=12°C	COPd	x . x x	-
Tj=bivalent temperature	COPd	x . x x	-
Tj=operation limit	COPd	x . x x	-

Declared capacity for heating/Colder climate, at indoor temperature 20°C and outdoor temperature Tj.			
Tj=-7°C	Pdh	x . x x	kW
Tj=2°C	Pdh	x . x x	kW
Tj=7°C	Pdh	x . x x	kW
Tj=12°C	Pdh	x . x x	kW
Tj=bivalent temperature	Pdh	x . x x	kW
Tj=operation limit	Pdh	x . x x	kW
Tj=-15°C	Pdh	x . x x	kW

Declared coefficient of performance for heating/Colder climate, at indoor temperature 20°C and outdoor temperature Tj.			
Tj=-7°C	COPd	x . x x	-
Tj=2°C	COPd	x . x x	-
Tj=7°C	COPd	x . x x	-
Tj=12°C	COPd	x . x x	-
Tj=bivalent temperature	COPd	x . x x	-
Tj=operation limit	COPd	x . x x	-
Tj=-15°C	COPd	x . x x	-

Bivalent temperature			
heating/Average	Tbiv	-7	°C
heating/Warmer	Tbiv	x . x x	°C
heating/Colder	Tbiv	x . x x	°C

Operation limit temperature			
heating/Average	Tol	-25	°C
heating/Warmer	Tol	x . x x	°C
heating/Colder	Tol	x . x x	°C

Electric power input in power modes other than "on mode"			
off mode	Poffc	0.018	kW
standby mode	Psbcc	0.018	kW
thermostat-off mode	Ptoc	0.005	kW
crankcase heater mode	Pckc	0.005	kW

Seasonal electricity consumption			
cooling	QCE	4027	kWh/a
heating/Average	QHE/A	7692	kWh/a
heating/Warmer	QHE/B	x	kWh/a
heating/Colder	QHE/C	x	kWh/a



Electric power input in power modes other than "on mode"			
off mode	Poffh	0.025	kW
stanby mode	Psbh	0.025	kW
thermostat-off mode	Ptoh	0.025	kW
crankcase heater mode	Pckh	0.001	kW

Capacity control(indicate one of three options)	
Fixed	N
strage	N
variable	Y

Sound power level	
Sound power level(outdoor/cool)	85.0 dB(A)
Sound power level(outdoor/heat)	88.0 dB(A)

Supplementary heater			
back-up heating capacity	elbu	2.60	kW

Refrigerant			
Type		R410A	
Weight		9.0	kg
Global warming potential	GWP	2088	kgCO2eq.

Rated air flow			
Rated air flow(outdoor/cool)		16020	m3/h
Rated air flow(outdoor/heat)		16020	m3/h

outdoor unit			
dimension	height	1690	mm
	width	1290	mm
	depth	780	mm
weight		267	kg

Harmonised standard	EN14511-3 : 2013
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Calculation methods	PrEN 14825 : 2016
Measurement standards	

Contact details for obtaining more information	Importer/Distributor in EU:
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Where the information included in the technical documentation file for a particular air conditioner model has been obtained by calculation on the basis of design, or extrapolation from other equivalent appliances, or both, the documentation shall include details of such calculations or extrapolations, or both, and of tests undertaken by suppliers to verify the accuracy of the calculations undertaken. The information shall also include a list of all other equivalent appliance models where the information was obtained on the same basis.