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 20HP
name	38VT020188HTEE

indoor unit	
Type	Ducted
name	40VD024H-8S-TEE

indoor unit(2)	
Type	Ducted
name	40VD024H-8S-TEE

indoor unit(3)	
Type	Ducted
name	40VD024H-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	Ducted
name	40VD024H-8S-TEE

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

Power consumption of cycling			
cooling	Pcycc	x , x	kW
heating	Pcych	x , x	kW

Efficiency of cycling			
cooling	EERcyc	x , x	-
heating	COPcyc	x , x	-

Degradation co-efficient			
cooling	Cdc	0.25	-

Degradation co-efficient			
Heating	Cdc	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	56.0	kW
heating/Average	Pdesignh	31.0	kW
heating/Warmer	Pdesignh	x,x	kW
heating/Colder	Pdesignh	x,x	kW

Item	symbol	value	unit
Seasonal efficiency			
cooling	ηsc	262.2	%
	SEER	6.63	-
heating/Average	ηsh(A)	159.4	%
	SCOP(A)	4.06	-
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)℃ and outdoor temperature Tj.			
Tj=35℃	Pdc	56.00	kW
Tj=30℃	Pdc	41.26	kW
Tj=25℃	Pdc	26.53	kW
Tj=20℃	Pdc	11.79	kW

Declared Energy efficiency ratio for cooling at indoor temperature 27(19)℃ and outdoor temperature Tj.			
Tj=35℃	EERd	2.53	-
Tj=30℃	EERd	4.32	-
Tj=25℃	EERd	8.50	-
Tj=20℃	EERd	12.81	-

Declared capacity for heating/Average climate, at indoor temperature 20℃ and outdoor temperature Tj.			
Tj=-7℃	Pdh	27.42	kW
Tj=2℃	Pdh	16.69	kW
Tj=7℃	Pdh	10.73	kW
Tj=12℃	Pdh	8.72	kW
Tj=bivalent temperature	Pdh	27.42	kW
Tj=operation limit	Pdh	26.46	kW

Declared coefficiency of performance for heating/Average climate, at indoor temperature 20℃ and outdoor temperature Tj.			
Tj=-7℃	COPd	2.43	-
Tj=2℃	COPd	3.66	-
Tj=7℃	COPd	6.27	-
Tj=12℃	COPd	8.63	-
Tj=bivalent temperature	COPd	2.43	-
Tj=operation limit	COPd	1.46	-

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

Declared coefficiency of performance for heating/Warmer climate, at indoor temperature 20℃ and outdoor temperature Tj.			
Tj=2℃	COPd	x,x x	-
Tj=7℃	COPd	x,x x	-
Tj=12℃	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℃ and outdoor temperature Tj.			
Tj=-7℃	Pdh	x,x x	kW
Tj=2℃	Pdh	x,x x	kW
Tj=7℃	Pdh	x,x x	kW
Tj=12℃	Pdh	x,x x	kW
Tj=bivalent temperature	Pdh	x,x x	kW
Tj=operation limit	Pdh	x,x x	kW
Tj=-15℃	Pdh	x,x x	kW

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

Bivalent temperature			
heating/Average	Tbiv	-7	℃
heating/Warmer	Tbiv	x,x x	℃
heating/Colder	Tbiv	x,x x	℃

Operation limit temperature			
heating/Average	Tol	-25	℃
heating/Warmer	Tol	x,x x	℃
heating/Colder	Tol	x,x x	℃

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

Seasonal electricity consumption			
cooling	QCE	5067	kWh/a
heating/Average	QHE/A	10689	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)	87.0	dB(A)
Sound power level(outdoor/heat)	90.0	dB(A)

Supplementary heater			
back-up heating capacity	elbu	3.74	kW

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

Rated air flow		
Rated air flow(outdoor/cool)	15600	m3/h
Rated air flow(outdoor/heat)	15600	m3/h

outdoor unit			
dimension	height	1690	mm
	width	1290	mm
	depth	780	mm
weight		289	kg

Harmonised standard	EN14511-3：2013

Calculation methods Measurement standards	PrEN 14825：2016

Contact details for obtaining more information	Importer/Distributor in EU:

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.