



Technical documentation-1/3

General description of the appliance	
	Multi-split

Outdoor side heat exchanger	
	air

Type of compressor driven	
	Vapor compression

Outdoor unit (1)	
TypeName	XCT8 4HP 38VS121C8SJCEE

Indoor unit (1)	
TypeName	Concealed Duct 40VD012S-8S-TEE

Indoor unit (3)	
TypeName	Concealed Duct 40VD009S-8S-TEE

Indoor side heat exchanger	
	air

Driver of compressor	
	electric motor

Outdoor unit (2)	
TypeName	- -

Indoor unit (2)	
TypeName	Concealed Duct 40VD009S-8S-TEE

Indoor unit (4)	
TypeName	Concealed Duct 40VD009S-8S-TEE

Technical documentation-2/3

Function	
cooling	Y
heating	Y

Item	symbol	value	unit
Design load			
Cooling	Pdesignc	12.1	kW
Heating	Pratedh	12.5	kW
heating/Average	Pdesignh	8.8	kW
heating/Warmer	Pdesignh	-	kW
heating/Colder	Pdesignh	-	kW

Declared capacity for cooling at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	12.10	kW
Tj=30°C	Pdc	8.98	kW
Tj=25°C	Pdc	5.71	kW
Tj=20°C	Pdc	4.13	kW
Degradation co-efficient	Cdc	0.25	

Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj=-7°C	Pdh	7.74	kW
Tj=2°C	Pdh	4.75	kW
Tj=7°C	Pdh	3.61	kW
Tj=12°C	Pdh	3.93	kW
Tj=bivalent temperature	Pdh	7.74	kW
Tj=operation limit	Pdh	4.19	kW
Degradation co-efficient	Cdh	0.25	

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

Electric power input in power modes other than active mode			
off mode	Poff	0.010	kW
standby mode	Psb	0.010	kW
thermostat-off mode	Pto	0.000	kW
crankcase heater mode	Pck	0.000	kW

Capacity control	
Fixed	N
Strage	N
Variable	Y

Average		Y
Warmer		N
Colder		N

Item	symbol	value	unit
Seasonal efficiency			
Cooling	η_{sc}	295.00	%
	SEER	7.45	-
heating/Average	$\eta_{sh(A)}$	141.40	%
	SCOP(A)	3.61	-
heating/Warmer	$\eta_{sh(W)}$	-	%
	SCOP(W)	-	-
heating/Colder	$\eta_{sh(C)}$	-	%
	SCOP(C)	-	-

Declared Energy efficiency ratio for cooling at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	EERd	3.60	-
Tj=30°C	EERd	5.01	-
Tj=25°C	EERd	8.03	-
Tj=20°C	EERd	18.50	-

Declared coefficient of performance/Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	COPd	2.36	-
Tj=2°C	COPd	3.17	-
Tj=7°C	COPd	5.90	-
Tj=12°C	COPd	7.10	-
Tj=bivalent temperature	COPd	2.36	-
Tj=operation limit	COPd	1.90	-

Operation limit temperature			
heating/Average	Tol	-20	°C
heating/Warmer	Tol	-	°C
heating/Colder	Tol	-	°C

Supplementary heater	
elbu	- kW

Refrigerant	
Type	R410A
Weight	3.30 kg
Global warming potential GWP	2088 kgCO2eq

Technical documentation-3/3

Sound power level			
outdoor unit (cooling)		73	dB(A)
outdoor unit (heating)		73	dB(A)
outdoor unit (cooling)			dB(A)
outdoor unit (heating)			dB(A)
outdoor unit (cooling)			dB(A)
outdoor unit (heating)			dB(A)

Outdoor unit dimension			
height		910	mm
width		990	mm
depth		390	mm
weight		100	kg

Rated air flow			
outdoor unit (cooling)	elbu	4020	m3/h
outdoor unit (heating)	elbu	4020	m3/h
outdoor unit (cooling)	elbu		m3/h
outdoor unit (heating)	elbu		m3/h
outdoor unit (cooling)	elbu		m3/h
outdoor unit (heating)	elbu		m3/h

Outdoor unit dimension			
height			mm
width			mm
depth			mm
weight			kg

Harmonised standard	EN 14511-3:2013
---------------------	-----------------

Calculation methods	PrEN 14825:2016
Measurement standards	

Contact details for obtaining more information	Carrier HVAC Equipment(Hangzhou)Co.,Ltd No.181, Weiken Street, Baiyang Block, Hangzhou Qiantang Area, Zhejiang Province, China
--	---