



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 12HP 38VS335188JCEE
Indoor unit (1)	
TypeName	Concealed Duct 40VD018S-8S-TEE
Indoor unit (3)	
TypeName	Concealed Duct 40VD018S-8S-TEE
Indoor unit (5)	
TypeName	Concealed Duct 40VD018S-8S-TEE

Indoor side heat exchanger	
air	
Driver of compressor	
electric motor	
Outdoor unit (2)	
TypeName	- -
Indoor unit (2)	
TypeName	Concealed Duct 40VD018S-8S-TEE
Indoor unit (4)	
TypeName	Concealed Duct 40VD018S-8S-TEE
Indoor unit (6)	
TypeName	Concealed Duct 40VD018S-8S-TEE

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Function	
cooling	Y
heating	Y

Average	Y
Warmer	N
Colder	N

Item	symbol	value	unit
Design load			
Cooling	Pdesignc	33.5	kW
Heating	Pratedh	33.5	kW
heating/Average	Pdesignh	23.5	kW
heating/Warmer	Pdesignh	-	kW
heating/Colder	Pdesignh	-	kW

Item	symbol	value	unit
Seasonal efficiency			
Cooling	η_{sc}	221.00	%
	SEER	5.60	-
heating/Average	$\eta_{sh(A)}$	157.00	%
	SCOP(A)	4.00	-
heating/Warmer	$\eta_{sh(W)}$	-	%
	SCOP(W)	-	-
heating/Colder	$\eta_{sh(C)}$	-	%
	SCOP(C)	-	-

Declared capacity for cooling at indoor temperature 27(19)°C and outdoor temperature Tj.			
Tj=35°C	Pdc	33.50	kW
Tj=30°C	Pdc	24.50	kW
Tj=25°C	Pdc	16.00	kW
Tj=20°C	Pdc	8.10	kW
Degradation co-efficie	Cdc	0.25	

Declared Energy efficiency ratio for cooling at indoor temperature 27(19)°C and outdoor temperature Tj.			
Tj=35°C	EERd	2.60	-
Tj=30°C	EERd	3.30	-
Tj=25°C	EERd	6.30	-
Tj=20°C	EERd	15.00	-

Declared capacity for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj=-7°C	Pdh	22.00	kW
Tj=2°C	Pdh	14.30	kW
Tj=7°C	Pdh	8.40	kW
Tj=12°C	Pdh	5.75	kW
Tj=bivalent temperatu	Pdh	22.00	kW
Tj=operation limit	Pdh	15.00	kW
Degradation co-efficie	Cdh	0.25	

Declared coefficient of performance/Average season, at indoor temperature 20°C and outdoor temperature Tj.			
Tj=-7°C	COPd	2.30	-
Tj=2°C	COPd	3.50	-
Tj=7°C	COPd	6.90	-
Tj=12°C	COPd	8.70	-
Tj=bivalent temperatu	COPd	2.30	-
Tj=operation limit	COPd	1.85	-

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

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

Electric power input in power modes other than active mode			
off mode	Poffc	0.010	kW
standby mode	Psbcc	0.010	kW
thermostat-off mode	Ptoc	0.000	kW
crankcase heater mox	Pckc	0.000	kW

Electric power input in power modes other than active mode			
off mode	Poffh	0.016	kW
standby mode	Psbh	0.016	kW
thermostat-off mode	Ptoh	0.016	kW
crankcase heater mox	Pckh	0.000	kW

Capacity control			
Fixed		N	
Strage		N	
Variable		Y	

Refrigerant			
Type		R410A	
Weight		4.40	kg
Global warming poter	GWP	2088	kgCO2eq

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Sound power level			
outdoor unit (cooling)		76	dB(A)
outdoor unit (heating)		77	dB(A)
outdoor unit (cooling)		-	dB(A)
outdoor unit (heating)		-	dB(A)
outdoor unit (cooling)		-	dB(A)
outdoor unit (heating)		-	dB(A)

Rated air flow			
outdoor unit (cooling) elbu		9590	m3/h
outdoor unit (heating) elbu		9590	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	1740	mm
	width	990	mm
	depth	390	mm
weight		156	kg

Outdoor unit			
dimension	height	-	mm
	width	-	mm
	depth	-	mm
weight		-	kg

Harmonised standard	EN14511:2022, EN14825:2022, EN12102:2013
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Calculation methods Measurement standards	EN14511:2022, EN14825:2022, EN12102:2013
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Contact details for obtaining more information	Carrier HVAC Equipment(Hangzhou)Co.,Ltd No.181, Weiken Street, Baiyang Block, Hangzhou Qiantang Area, Zhejiang Province, China
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