Product Information

Brand **Panasonic**
Type of product **Air-conditioner**
Model name **CS-VE12NKE / CU-VE12NKE**

Function (indicate if present)				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
Cooling	YES			Average (mandatory)	YES		
Heating	YES			Warmer (if designated)	YES		
				Colder (if designated)	YES		
Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	3.50	kW	cooling	SEER	8.50	-
heating/Average	Pdesignh	4.20	kW	heating/Average	SCOP/A	5.10	-
heating/Warmer	Pdesignh	6.10	kW	heating/Warmer	SCOP/W	5.70	-
heating/Colder	Pdesignh	6.10	kW	heating/Colder	SCOP/C	4.00	-
Declared capacity (*) for cooling, at indoor temperature 27(19) °C and outdoor temperature Tj				Declared energy efficiency ratio (*), at indoor temperature 27(19) °C and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35℃	Pdc	3.50	kW	Tj = 35℃	EERd	3.98	-
Tj = 30℃	Pdc	2.58	kW	Tj = 30℃	EERd	6.50	-
Tj = 25℃	Pdc	1.66	kW	Tj = 25℃	EERd	10.72	-
Tj = 20℃	Pdc	1.01	kW	Tj = 20℃	EERd	15.00	-
Declared capacity (*) for heating/Average season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance (*)/Average season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	3.72	kW	Tj = -7℃	COPd	3.32	-
Tj = 2℃	Pdh	2.26	kW	Tj = 2℃	COPd	4.86	-
Tj = 7℃	Pdh	1.45	kW	Tj = 7℃	COPd	6.98	-
Tj = 12℃	Pdh	0.76	kW	Tj = 12℃	COPd	7.77	-
Tj = bivalent temperature	Pdh	4.20	kW	Tj = bivalent temperature	COPd	2.70	-
Tj = operating limit	Pdh	4.20	kW	Tj = operating limit	COPd	2.70	-
Declared capacity (*) for heating/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance (*)/Warmer season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj = 2℃	Pdh	6.10	kW	Tj = 2℃	COPd	2.10	-
Tj = 7℃	Pdh	3.92	kW	Tj = 7℃	COPd	4.80	-
Tj = 12℃	Pdh	1.74	kW	Tj = 12℃	COPd	8.07	-
Tj = bivalent temperature	Pdh	6.10	kW	Tj = bivalent temperature	COPd	2.10	-
Tj = operating limit	Pdh	6.10	kW	Tj = operating limit	COPd	2.10	-
Declared capacity (*) for heating/Colder season, at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance (*)/Colder season, at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	3.69	kW	Tj = -7℃	COPd	3.33	-
Tj = 2℃	Pdh	2.25	kW	Tj = 2℃	COPd	4.87	-
Tj = 7℃	Pdh	1.44	kW	Tj = 7℃	COPd	7.00	-
Tj = 12℃	Pdh	0.76	kW	Tj = 12℃	COPd	7.78	-
Tj = bivalent temperature	Pdh	5.30	kW	Tj = bivalent temperature	COPd	1.96	-
Tj = operating limit	Pdh	4.52	kW	Tj = operating limit	COPd	1.75	-
Tj = -15℃	Pdh	4.98	kW	Tj = -15℃	COPd	2.11	-

Function (indicate if present)				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
Cooling	YES			Average (mandatory)	YES		
Heating	YES			Warmer (if designated)	YES		
				Colder (if designated)	YES		
Item	symbol	value	unit	Item	symbol	value	unit
Bivalent temperature				Operating limit temperature			
heating/Average	Tbiv	-10	℃	heating/Average	Tol	-10	℃
heating/Warmer	Tbiv	2	℃	heating/Warmer	Tol	2	℃
heating/Colder	Tbiv	-17	℃	heating/Colder	Tol	-22	℃
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcych	-	kW	for heating	COPcyc	-	-
Degradation co-efficient cooling(**)	Cdc	0.25	-	Degradation co-efficient heating(**)	Cdh	0.25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	P_{OFF}	1	W	cooling	Q_{CE}	145	kWh/a
standby mode	P_{SB}	1	W	heating/Average	Q_{HE}	1153	kWh/a
thermostat-off mode	P_{TO}	23	W	heating/Warmer	Q_{HE}	1499	kWh/a
crankcase heater mode	P_{CK}	0	W	heating/Colder	Q_{HE}	3203	kWh/a
Capacity control (indicate one of three options)				Other Items			
fixed	NO			Sound power level (indoor/outdoor)	LWA	60 / 65	dB(A)
staged	NO			Global warming potential	GWP	1975	kgCO2 eq.
variable	YES			Rated air flow (indoor/outdoor)	-	654 / 2052	m^3/h
Contact details for obtaining more information	Name and address of the manufacturer or of its authorized representative. Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

(*) For staged capacity units, two values divided by a slash ('/') will be declared in each box in the section 'Declared capacity of the unit' and 'declared EER/COP' of the unit.

(**) If default Cd = 0,25 is chosen then (results from) cycling tests