

Model		Indoor	CS-TZ15SKEW			CS-TZ18SKEW				
		Outdoor	CU-TZ15SKE			CU-TZ18SKE				
Performance Test Condition			EUROVENT			EUROVENT				
Power Supply		Phase, Hz	Single, 50			Single, 50				
		V	230			230				
			Min.	Mid.	Max.	Min.	Mid.	Max.		
Cooling	Capacity		kW	0.85	4.20	4.60	0.98	5.00	5.40	
			BTU/h	2900	14300	15700	3340	17100	18400	
			Kcal/h	730	3610	3960	840	4300	4640	
	Running Current		A	–	5.60	–	–	7.20	–	
	Input Power		W	265	1.26k	1.65k	285	1.62k	1.80k	
	Annual Consumption		kWh	–	630	–	–	810	–	
	EER		W/W	3.21	3.33	2.79	3.44	3.09	3.00	
			BTU/hW	10.94	11.35	9.52	11.72	10.56	10.22	
			Kcal/hW	2.75	2.87	2.40	2.95	2.65	2.58	
	ErP	Pdesign	kW	4.2			5.0			
		SEER	(W/W)	5.6			6.7			
		Annual Consumption	kWh	263			261			
		Class		A+			A++			
	Power Factor		%	–	98	–	–	98	–	
	Indoor Noise (H / L / QLo)		dB-A	44 / 31 / 29			44 / 37 / 34			
			Power Level dB	60 / –			60 / –			
	Outdoor Noise (H / L)		dB-A	49 / –			48 / –			
			Power Level dB	64 / –			63 / –			
	Heating	Capacity		kW	0.80	5.00	6.80	0.98	5.80	7.50
				BTU/h	2730	17100	23200	3340	19800	25600
Kcal/h				690	4300	5850	840	4990	6450	
Running Current		A	–	6.00	–	–	7.90	–		
Input Power		W	200	1.35k	2.05k	340	1.76k	2.42k		
COP		W/W	4.00	3.70	3.32	2.88	3.30	3.10		
		BTU/hW	13.65	12.67	11.32	9.82	11.25	10.58		
		Kcal/hW	3.45	3.19	2.85	2.47	2.84	2.67		
ErP		Pdesign	kW	3.6			4.0			
		Tbivalent	°C	-10			-10			
		SCOP	(W/W)	3.8			4.1			
		Annual Consumption	kWh	1326			1366			
		Class		A			A+			
Power Factor		%	–	98	–	–	97	–		
Indoor Noise (H / L / QLo)		dB-A	44 / 35 / 28			44 / 37 / 34				
		Power Level dB	60 / –			60 / –				
Outdoor Noise (H / L)		dB-A	51 / –			49 / –				
		Power Level dB	66 / –			64 / –				
Low Temp. : Capacity (kW) / I.Power (W) / COP			4.93 / 1.81k / 2.72			5.43 / 2.14k / 2.54				
Extr Low Temp. : Capacity (kW) / I.Power (W) / COP			3.90 / 1.70k / 2.29			4.67 / 2.24k / 2.08				
Max Current (A) / Max Input Power (W)			8.9 / 2.05k			11.0 / 2.42k				
Starting Current (A)			6.00			7.90				

Model			Indoor	CS-TZ15SKEW	CS-TZ18SKEW	
			Outdoor	CU-TZ15SKE	CU-TZ18SKE	
Compressor	Type			Hermetic Motor (Rotary)	Hermetic Motor (Rotary)	
	Motor Type			Brushless (6 poles)	Brushless (4 poles)	
	Output Power		W	700	900	
Indoor Fan	Type			Cross-Flow Fan	Cross-Flow Fan	
	Material			ASG20K1	ASG20K1	
	Motor Type			DC / Transistor (8-poles)	DC / Transistor (8-poles)	
	Input Power		W	47.3	47.3	
	Output Power		W	40	40	
	Speed	QLo	Cool	rpm	790	920
			Heat	rpm	870	980
		Lo	Cool	rpm	870	1000
			Heat	rpm	1080	1070
		Me	Cool	rpm	1080	1140
			Heat	rpm	1230	1210
		Hi	Cool	rpm	1300	1280
			Heat	rpm	1380	1350
	SHi	Cool	rpm	1370	1330	
Heat		rpm	1400	1400		
Outdoor Fan	Type			Propeller Fan	Propeller Fan	
	Material			PP	PP	
	Motor Type			DC (8-poles)	DC (8-poles)	
	Input Power		W	-	-	
	Output Power		W	40	40	
	Speed	Hi	Cool	rpm	900	820
Heat			rpm	910	820	
Moisture Removal			L/h (Pt/h)	2.4 (5.1)	2.8 (5.9)	
Indoor Airflow	QLo	Cool	m ³ /min (ft ³ /min)	6.95 (245)	7.96 (281)	
		Heat	m ³ /min (ft ³ /min)	7.79 (275)	8.58 (303)	
	Lo	Cool	m ³ /min (ft ³ /min)	7.79 (275)	8.78 (310)	
		Heat	m ³ /min (ft ³ /min)	9.99 (353)	9.49 (335)	
	Me	Cool	m ³ /min (ft ³ /min)	10.04 (355)	10.21 (361)	
		Heat	m ³ /min (ft ³ /min)	11.57 (409)	10.92 (386)	
	Hi	Cool	m ³ /min (ft ³ /min)	12.30 (435)	11.60 (410)	
		Heat	m ³ /min (ft ³ /min)	13.10 (460)	12.40 (440)	
SHi	Cool	m ³ /min (ft ³ /min)	13.04 (459)	12.15 (429)		
	Heat	m ³ /min (ft ³ /min)	13.35 (471)	12.86 (454)		
Outdoor Airflow	Hi	Cool	m ³ /min (ft ³ /min)	33.3 (1175)	34.4 (1215)	
		Heat	m ³ /min (ft ³ /min)	33.3 (1175)	34.0 (1200)	
Refrigeration Cycle	Control Device			Expansion Valve	Expansion Valve	
	Refrigerant Oil		cm ³	FW50S (320)	FW50S (450)	
	Refrigerant Type		g (oz)	R32, 860 (30.4)	R32, 1.14k (40.2)	
F-Gas	GWP			675	675	
	CO2eq (ton) (Precharged Amount / Maximum Charged Amount)			0.581 / 0.631	0.770 / 0.896	
Dimension	Height (I/D / O/D)		mm (inch)	290 (11-7/16) / 619 (24-3/8)	290 (11-7/16) / 619 (24-3/8)	
	Width (I/D / O/D)		mm (inch)	870 (34-9/32) / 824 (32-15/32)	870 (34-9/32) / 824 (32-15/32)	
	Depth (I/D / O/D)		mm (inch)	204 (8-1/16) / 299 (11-25/32)	204 (8-1/16) / 299 (11-25/32)	
Weight	Net (I/D / O/D)		kg (lb)	9 (20) / 32 (71)	9 (20) / 38 (84)	

Model		Indoor	CS-TZ15SKEW		CS-TZ18SKEW	
		Outdoor	CU-TZ15SKE		CU-TZ18SKE	
Piping	Pipe Diameter (Liquid / Gas)	mm (inch)	6.35 (1/4) / 12.70 (1/2)		6.35 (1/4) / 12.70 (1/2)	
	Standard length	m (ft)	5.0 (16.4)		5.0 (16.4)	
	Length range (min – max)	m (ft)	3 (9.8) ~ 15 (49.2)		3 (9.8) ~ 20 (65.6)	
	I/D & O/D Height different	m (ft)	15.0 (49.2)		15.0 (49.2)	
	Additional Gas Amount	g/m (oz/ft)	10 (0.1)		15 (0.2)	
	Length for Additional Gas	m (ft)	7.5 (24.6)		7.5 (24.6)	
Drain Hose	Inner Diameter	mm	16.7		16.7	
	Length	mm	650		650	
Indoor Heat Exchanger	Fin Material		Aluminium (Pre Coat)		Aluminium (Pre Coat)	
	Fin Type		Slit Fin		Slit Fin	
	Row × Stage × FPI		2 × 15 × 21		2 × 15 × 21	
	Size (W × H × L)	mm	610 × 315 × 25.4		610 × 315 × 25.4	
Outdoor Heat Exchanger	Fin Material		Aluminium		Aluminium	
	Fin Type		Corrugated Fin		Corrugated Fin (Pre Coat)	
	Row × Stage × FPI		2 × 28 × 17		2 × 28 × 17	
	Size (W × H × L)	mm	36.38 × 588 × 606.6		36.38 × 588 × 856.3:827.7	
Air Filter	Material		Polypropelene		Polypropelene	
	Type		One-touch		One-touch	
Power Supply			Outdoor		Outdoor	
Power Supply Cord		A	Nil		Nil	
Thermostat			Electronic Contol		Electronic Contol	
Protection Device			Electronic Contol		Electronic Contol	
			Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb
Indoor Operation Range	Cooling	Maximum °C	32	23	32	23
		Minimum °C	16	11	16	11
	Heating	Maximum °C	30	–	30	–
		Minimum °C	16	–	16	–
Outdoor Operation Range	Cooling	Maximum °C	43	26	43	26
		Minimum °C	-10	–	-10	–
	Heating	Maximum °C	24	18	24	18
		Minimum °C	-15	-16	-15	-16

- Cooling capacities are based on indoor temperature of 27°C Dry Bulb (80.6°F Dry Bulb), 19.0°C Wet Bulb (66.2°F Wet Bulb) and outdoor air temperature of 35°C DRY BULB (95°F Dry Bulb), 24°C Wet Bulb (75.2°F Wet Bulb)
- Heating capacities are based on indoor temperature of 20°C Dry Bulb (68°F Dry Bulb) and outdoor air temperature of 7°C Dry Bulb (44.6°F Dry Bulb), 6°C Wet Bulb (42.8°F Wet Bulb)
- Heating low temperature capacity, Input Power and COP measured at 230 V, indoor temperature 20°C, outdoor 2/1°C
- Heating extreme low temperature capacity, Input Power and COP measured at 230 V, indoor temperature 20°C, outdoor -7/-8°C
- Standby power consumption ≤10.0w (when switched OFF by remote control, except under self protection control).
- Specifications are subjected to change without prior notice for further improvement.

Product Information

Brand Panasonic
Type of product Air-conditioner
Model name CS-TZ18SKEW / CU-TZ18SKE

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)	NO		
				Colder (if designated)	NO		
Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	5.00	kW	cooling	SEER	6.70	-
heating/Average	Pdesignh	4.00	kW	heating/Average	SCOP/A	4.10	-
heating/Warmer	Pdesignh	-	kW	heating/Warmer	SCOP/W	-	-
heating/Colder	Pdesignh	-	kW	heating/Colder	SCOP/C	-	-
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°C	Pdc	5.00	kW	Tj = 35°C	EERd	3.05	-
Tj = 30°C	Pdc	3.69	kW	Tj = 30°C	EERd	5.06	-
Tj = 25°C	Pdc	2.31	kW	Tj = 25°C	EERd	9.03	-
Tj = 20°C	Pdc	1.77	kW	Tj = 20°C	EERd	14.15	-
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°C	Pdh	3.57	kW	Tj = -7°C	COPd	2.45	-
Tj = 2°C	Pdh	2.14	kW	Tj = 2°C	COPd	4.14	-
Tj = 7°C	Pdh	1.38	kW	Tj = 7°C	COPd	5.30	-
Tj = 12°C	Pdh	1.38	kW	Tj = 12°C	COPd	7.05	-
Tj = bivalent temperature	Pdh	4.00	kW	Tj = bivalent temperature	COPd	2.06	-
Tj = operating limit	Pdh	3.20	kW	Tj = operating limit	COPd	1.73	-
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°C	Pdh	-	kW	Tj = 2°C	COPd	-	-
Tj = 7°C	Pdh	-	kW	Tj = 7°C	COPd	-	-
Tj = 12°C	Pdh	-	kW	Tj = 12°C	COPd	-	-
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	-
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	-
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°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	-	kW	Tj = 2°C	COPd	-	-
Tj = 7°C	Pdh	-	kW	Tj = 7°C	COPd	-	-
Tj = 12°C	Pdh	-	kW	Tj = 12°C	COPd	-	-
Tj = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	-
Tj = operating limit	Pdh	-	kW	Tj = operating limit	COPd	-	-
Tj = -15°C	Pdh	-	kW	Tj = -15°C	COPd	-	-

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)	NO		
				Colder (if designated)	NO		
Item	symbol	value	unit	Item	symbol	value	unit
Bivalent temperature				Operating limit temperature			
heating/Average	Tbiv	-10	°C	heating/Average	Tol	-15	°C
heating/Warmer	Tbiv	-	°C	heating/Warmer	Tol	-	°C
heating/Colder	Tbiv	-	°C	heating/Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcyh	-	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}	7	W	cooling	Q _{CE}	261	kWh/a
standby mode	P _{SB}	7	W	heating/Average	Q _{HE}	1366	kWh/a
thermostat-off mode	P _{TO}	37	W	heating/Warmer	Q _{HE}	-	kWh/a
crankcase heater mode	P _{CK}	0	W	heating/Colder	Q _{HE}	-	kWh/a
Capacity control (indicate one of three options)				Other Items			
fixed	NO			Sound power level (indoor/outdoor)	LWA	60 / 63	dB(A)
staged	NO			Global warming potential	GWP	675	kgCO ₂ eq.
variable	YES			Cooling/Rated air flow (indoor/outdoor)	-	696 / 2064	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							



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Panasonic

CS-TZ18SKEW / CU-TZ18SKE

SEER



A⁺⁺

A⁺

A

B

C

D

E

A⁺⁺

kW **5,0**

SEER **6,7**

kWh/yıl **261**

SCOP



A⁺⁺

A⁺

A

B

C

D

E

A⁺

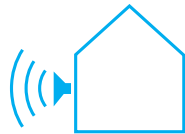
kW **4,0**

SCOP **4,1**

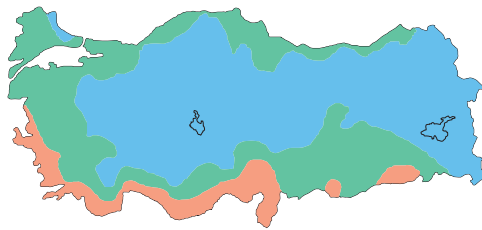
kWh/yıl **1366**



60dB



63dB



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