

3. Specifications

Model			Indoor	CS-NZ25VKE			CS-NZ35VKE		
			Outdoor	CU-NZ25VKE			CU-NZ35VKE		
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	2.50	3.00	0.85	3.50	4.00
			BTU/h	2900	8530	10200	2900	11900	13600
			Kcal/h	730	2150	2580	730	3010	3440
	Running Current		A	—	2.45	—	—	4.00	—
	Input Power		W	170	510	700	170	860	1.10k
	Annual Consumption		kWh	—	255	—	—	430	—
	EER		W/W	5.00	4.90	4.29	5.00	4.07	3.64
			BTU/hW	17.06	16.73	14.57	17.06	13.84	12.36
			Kcal/hW	4.29	4.22	3.69	4.29	3.50	3.13
	ErP	Pdesign	kW	2.5			3.5		
		SEER	(W/W)	7.5			7.4		
		Annual Consumption	kWh	117			166		
		Class		A++			A++		
	Power Factor		%	—	91	—	—	93	—
	Indoor Noise (H / L / QLo)		dB-A	39 / 25 / 21			42 / 28 / 21		
			Power Level dB	55 / — / —			58 / — / —		
	Outdoor Noise (H / L / QLo)		dB-A	46 / — / 43			48 / — / 45		
			Power Level dB	61 / — / —			63 / — / —		
Heating	Capacity		kW	0.85	3.40	6.30	0.85	4.00	7.30
			BTU/h	2900	11600	21500	2900	13600	24900
			Kcal/h	730	2920	5420	730	3440	6280
	Running Current		A	—	3.30	—	—	4.10	—
	Input Power		W	165	700	1.73k	165	900	2.32k
	COP		W/W	5.15	4.86	3.64	5.15	4.44	3.15
			BTU/hW	17.58	16.57	12.43	17.58	15.11	10.73
			Kcal/hW	4.42	4.17	3.13	4.42	3.82	2.71
	ErP	Pdesign	kW	2.8			3.6		
		Tbivalent	°C	-10			-10		
		SCOP	(W/W)	4.6			4.7		
		Annual Consumption	kWh	852			1072		
		Class		A++			A++		
	Power Factor		%	—	92	—	—	95	—
	Indoor Noise (H / L / QLo)		dB-A	42 / 27 / 19			44 / 30 / 19		
			Power Level dB	58 / — / —			60 / — / —		
	Outdoor Noise (H / L / QLo)		dB-A	48 / — / 45			50 / — / 47		
			Power Level dB	63 / — / —			65 / — / —		
Low Temp. : Capacity (kW) / I.Power (W) / COP				4.57 / 1.53k / 2.99			5.29 / 2.05k / 2.58		
Extr Low Temp. : Capacity (kW) / I.Power (W) / COP				4.00 / 1.62k / 2.47			4.60 / 2.17k / 2.12		
Max Current (A) / Max Input Power (W)				7.6 / 1.73k			10.2 / 2.32k		
Starting Current (A)				3.30			4.10		

Model				Indoor	CS-NZ25VKE		CS-NZ35VKE	
				Outdoor	CU-NZ25VKE		CU-NZ35VKE	
Compressor	Type				Hermetic Motor (Rotary)		Hermetic Motor (Rotary)	
	Motor Type				Brushless (4-poles)		Brushless (4-poles)	
	Output Power			W	900		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	600		630	
			Heat	rpm	620		620	
		Lo	Cool	rpm	760		820	
			Heat	rpm	820		900	
		Me	Cool	rpm	960		1040	
			Heat	rpm	1060		1140	
		Hi	Cool	rpm	1160		1280	
			Heat	rpm	1290		1400	
		SHi	Cool	rpm	1260		1380	
			Heat	rpm	1390		1500	
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	780		840	
			Heat	rpm	780		870	
Moisture Removal				L/h (Pt/h)	1.5 (3.2)		2.0 (4.2)	
Indoor Airflow	QLo	Cool	m³/min (ft³/min)	5.00 (177)		5.10 (180)		
		Heat	m³/min (ft³/min)	5.20 (184)		5.00 (177)		
	Lo	Cool	m³/min (ft³/min)	6.70 (237)		6.90 (244)		
		Heat	m³/min (ft³/min)	7.30 (258)		7.70 (272)		
	Me	Cool	m³/min (ft³/min)	8.80 (311)		9.00 (318)		
		Heat	m³/min (ft³/min)	9.90 (350)		10.00 (353)		
	Hi	Cool	m³/min (ft³/min)	10.90 (385)		11.30 (400)		
		Heat	m³/min (ft³/min)	12.30 (435)		12.40 (440)		
	SHi	Cool	m³/min (ft³/min)	12.00 (424)		12.30 (434)		
Heat		m³/min (ft³/min)	13.40 (473)		13.40 (473)			
Outdoor Airflow	Hi	Cool	m³/min (ft³/min)	31.40 (1110)		33.90 (1195)		
		Heat	m³/min (ft³/min)	31.40 (1110)		35.10 (1240)		
Refrigeration Cycle	Control Device			Expansion Valve		Expansion Valve		
	Refrigerant Oil		cm³	FW50S (450)		FW50S (450)		
	Refrigerant Type		g (oz)	R32, 960 (33.9)		R32, 1.00k (35.3)		
F-Gas	GWP			675		675		
	CO2eq (ton) (Precharged Amount / Maximum Charged Amount)			0.648 / 0.732		0.675 / 0.759		
Dimension	Height (I/D / O/D)		mm (inch)	295 (11-5/8) / 622 (24-1/2)		295 (11-5/8) / 622 (24-1/2)		
	Width (I/D / O/D)		mm (inch)	919 (36-3/16) / 824 (32-15/32)		919 (36-3/16) / 824 (32-15/32)		
	Depth (I/D / O/D)		mm (inch)	194 (7-21/32) / 299 (11-25/32)		194 (7-21/32) / 299 (11-25/32)		
Weight	Net (I/D / O/D)		kg (lb)	9 (20) / 35 (77)		10 (22) / 36 (79)		

Model		Indoor	CS-NZ25VKE		CS-NZ35VKE	
		Outdoor	CU-NZ25VKE		CU-NZ35VKE	
Piping	Pipe Diameter (Liquid / Gas)	mm (inch)	6.35 (1/4) / 9.52 (3/8)		6.35 (1/4) / 9.52 (3/8)	
	Standard length	m (ft)	5.0 (16.4)		5.0 (16.4)	
	Length range (min – max)	m (ft)	3 (9.8) ~ 20 (65.6)		3 (9.8) ~ 20 (65.6)	
	I/D & O/D Height different	m (ft)	10.0 (32.8)		10.0 (32.8)	
	Additional Gas Amount	g/m (oz/ft)	10 (0.1)		10 (0.1)	
	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 (Pre Coat)		Corrugated Fin (Pre Coat)	
	Row × Stage × FPI		2 × 28 × 17		2 × 28 × 17	
	Size (W × H × L)	mm	36.4 × 588 × 781.3:752.7		36.4 × 588 × 856.3:827.7	
Air Filter	Material		Polypropelene		Polypropelene	
	Type		One-touch		One-touch	
Power Supply			Indoor / Outdoor		Indoor / 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 (°F)	32 (89.6)	23 (73.4)	32 (89.6)	23 (73.4)
		Minimum °C (°F)	16 (60.8)	11 (51.8)	16 (60.8)	11 (51.8)
	Heating	Maximum °C (°F)	30 (86.0)	–	30 (86.0)	–
		Minimum °C (°F)	16 (60.8)	–	16 (60.8)	–
	+8/15°C Heat	Maximum °C (°F)	15 (59.0)	–	15 (59.0)	–
		Minimum °C (°F)	8 (46.4)	–	8 (46.4)	–
Outdoor Operation Range	Cooling	Maximum °C (°F)	43 (109.4)	26 (78.8)	43 (109.4)	26 (78.8)
		Minimum °C (°F)	-15 (5.0)	11 (51.8)	-15 (5.0)	11 (51.8)
	Heating	Maximum °C (°F)	24 (75.2)	18 (64.4)	24 (75.2)	18 (64.4)
		Minimum °C (°F)	-25 (-13.0)	–	-25 (-13.0)	–
	+8/15°C Heat	Maximum °C (°F)	–	–	–	–
		Minimum °C (°F)	-25 (-13.0)	–	-25 (-13.0)	–

- 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 ≤2.0W (when switched OFF by remote control, except under self protection control).
- SEER and SCOP classification is at 230V only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season.
- Specifications are subjected to change without prior notice for further improvement.

Model			Indoor	CS-NZ50VKE			CS-QZ25VKE		
			Outdoor	CU-NZ50VKE			CU-QZ25VKE		
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	0.98	5.00	6.00	0.85	2.50	3.00
			BTU/h	3340	17100	20500	2900	8530	10200
			Kcal/h	840	4300	5160	730	2150	2580
	Running Current		A	—	6.00	—	—	2.45	—
	Input Power		W	250	1,34k	1.85k	170	510	700
	Annual Consumption		kWh	—	670	—	—	255	—
	EER		W/W	3.92	3.73	3.24	5.00	4.90	4.29
			BTU/hW	13.36	12.76	11.08	17.06	16.73	14.57
			Kcal/hW	3.36	3.21	2.79	4.29	4.22	3.69
	ErP	Pdesign	kW	5.0			2.5		
		SEER	(W/W)	7.5			7.5		
		Annual Consumption	kWh	233			117		
		Class		A++			A++		
	Power Factor		%	—	97	—	—	91	—
	Indoor Noise (H / L / QLo)		dB-A	44 / 37 / 30			39 / 25 / 21		
			Power Level dB	60 / — / —			55 / — / —		
	Outdoor Noise (H / L / QLo)		dB-A	48 / — / 45			46 / — / 43		
			Power Level dB	63 / — / —			61 / — / —		
Heating	Capacity		kW	0.98	5.80	8.20	0.85	3.40	6.30
			BTU/h	3340	19800	28000	2900	11600	21500
			Kcal/h	840	4990	7050	730	2920	5420
	Running Current		A	—	6.20	—	—	3.30	—
	Input Power		W	220	1,37k	2,42k	165	700	1,73k
	COP		W/W	4.45	4.23	3.39	5.15	4.86	3.64
			BTU/hW	15.18	14,45	11,57	17,58	16,57	12,43
			Kcal/hW	3.82	3.64	2.91	4.42	4.17	3.13
	ErP	Pdesign	kW	4.4			2.8		
		Tbivalent	°C	-10			-10		
		SCOP	(W/W)	4.7			4.6		
		Annual Consumption	kWh	1311			852		
		Class		A++			A++		
	Power Factor		%	—	96	—	—	92	—
	Indoor Noise (H / L / QLo)		dB-A	44 / 37 / 30			42 / 27 / 19		
			Power Level dB	60 / — / —			58 / — / —		
	Outdoor Noise (H / L / QLo)		dB-A	50 / — / 47			48 / — / 45		
			Power Level dB	65 / — / —			63 / — / —		
Low Temp. : Capacity (kW) / I.Power (W) / COP				5.94 / 2.14k / 2.78			4.57 / 1,53k / 2.99		
Extr Low Temp. : Capacity (kW) / I.Power (W) / COP				5.20 / 2.18k / 2.39			4.00 / 1.62k / 2.47		
Max Current (A) / Max Input Power (W)				10.6 / 2.42k			7.6 / 1.73k		
Starting Current (A)				6.20			3.30		

Model				Indoor	CS-NZ50VKE		CS-QZ25VKE	
				Outdoor	CU-NZ50VKE		CU-QZ25VKE	
Compressor	Type				Hermetic Motor (Rotary)		Hermetic Motor (Rotary)	
	Motor Type				Brushless (4 poles)		Brushless (4-poles)	
	Output Power			W	900		900	
Indoor Fan	Type				Cross-Flow Fan		Cross-Flow Fan	
	Material				ASG33		ASG20K1	
	Motor Type				DC / Transistor (8-poles)		DC / Transistor (8-poles)	
	Input Power			W	89.0		47.3	
	Output Power			W	40		40	
	Speed	QLo	Cool	rpm	700		600	
			Heat	rpm	760		620	
		Lo	Cool	rpm	920		760	
			Heat	rpm	950		820	
		Me	Cool	rpm	1020		960	
			Heat	rpm	1070		1060	
		Hi	Cool	rpm	1120		1160	
			Heat	rpm	1180		1290	
		SHi	Cool	rpm	1170		1260	
			Heat	rpm	1230		1390	
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	720		780	
			Heat	rpm	700		780	
Moisture Removal				L/h (Pt/h)	2.8 (5.9)		1.5 (3.2)	
Indoor Airflow	QLo	Cool	m³/min (ft³/min)	11.30 (399)		5.00 (177)		
		Heat	m³/min (ft³/min)	12.50 (441)		5.20 (184)		
	Lo	Cool	m³/min (ft³/min)	15.60 (551)		6.70 (237)		
		Heat	m³/min (ft³/min)	16.20 (572)		7.30 (258)		
	Me	Cool	m³/min (ft³/min)	17.60 (622)		8.80 (311)		
		Heat	m³/min (ft³/min)	18.60 (657)		9.90 (350)		
	Hi	Cool	m³/min (ft³/min)	19.60 (690)		10.90 (385)		
		Heat	m³/min (ft³/min)	20.80 (735)		12.30 (435)		
	SHi	Cool	m³/min (ft³/min)	20.60 (728)		12.00 (424)		
		Heat	m³/min (ft³/min)	21.70 (766)		13.40 (473)		
Outdoor Airflow	Hi	Cool	m³/min (ft³/min)	39.7 (1400)		31.40 (1110)		
		Heat	m³/min (ft³/min)	38.6 (1365)		31.40 (1110)		
Refrigeration Cycle	Control Device			Expansion Valve		Expansion Valve		
	Refrigerant Oil		cm³	FW50S (450)		FW50S (450)		
	Refrigerant Type		g (oz)	R32, 1.15k (40.6)		R32, 960 (33.9)		
F-Gas	GWP			675		675		
	CO2eq (ton) (Precharged Amount / Maximum Charged Amount)			0.776 / 0.903		0.648 / 0.732		
Dimension	Height (I/D / O/D)		mm (inch)	302 (11-29/32) / 701 (27-5/8)		295 (11-5/8) / 622 (24-1/2)		
	Width (I/D / O/D)		mm (inch)	1120 (44-1/8) / 875 (34-15/32)		919 (36-3/16) / 824 (32-15/32)		
	Depth (I/D / O/D)		mm (inch)	236 (9-5/16) / 320 (12-5/8)		194 (7-21/32) / 299 (11-25/32)		
Weight	Net (I/D / O/D)		kg (lb)	12 (26) / 43 (95)		9 (20) / 35 (77)		

Model		Indoor	CS-NZ50VKE		CS-QZ25VKE	
		Outdoor	CU-NZ50VKE		CU-QZ25VKE	
Piping	Pipe Diameter (Liquid / Gas)	mm (inch)	6.35 (1/4) / 12.70 (1/2)		6.35 (1/4) / 9.52 (3/8)	
	Standard length	m (ft)	5.0 (16.4)		5.0 (16.4)	
	Length range (min – max)	m (ft)	3 (9.8) ~ 20 (65.6)		3 (9.8) ~ 20 (65.6)	
	I/D & O/D Height different	m (ft)	15.0 (49.2)		10.0 (32.8)	
	Additional Gas Amount	g/m (oz/ft)	15 (0.2)		10 (0.1)	
	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 × 17 × 21		2 × 15 × 21	
	Size (W × H × L)	mm	836.5 × 357 × 25.4		610 × 315 × 25.4	
Outdoor Heat Exchanger	Fin Material		Aluminium		Aluminium	
	Fin Type		Corrugated Fin (Pre Coat)		Corrugated Fin (Pre Coat)	
	Row × Stage × FPI		2 × 31 × 19		2 × 28 × 17	
	Size (W × H × L)	mm	36.4 × 651 × 854.5:824.5		36.4 × 588 × 781.3:752.7	
Air Filter	Material		Polypropelene		Polypropelene	
	Type		One-touch		One-touch	
Power Supply			Indoor / Outdoor		Indoor / 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 (°F)	32 (89.6)	23 (73.4)	32 (89.6)	23 (73.4)
		Minimum °C (°F)	16 (60.8)	11 (51.8)	16 (60.8)	11 (51.8)
	Heating	Maximum °C (°F)	30 (86.0)	–	30 (86.0)	–
		Minimum °C (°F)	16 (60.8)	–	16 (60.8)	–
	+8/15°C Heat	Maximum °C (°F)	15 (59.0)	–	15 (59.0)	–
		Minimum °C (°F)	8 (46.4)	–	8 (46.4)	–
Outdoor Operation Range	Cooling	Maximum °C (°F)	43 (109.4)	26 (78.8)	43 (109.4)	26 (78.8)
		Minimum °C (°F)	-15 (5.0)	11 (51.8)	-15 (5.0)	11 (51.8)
	Heating	Maximum °C (°F)	24 (75.2)	18 (64.4)	24 (75.2)	18 (64.4)
		Minimum °C (°F)	-25 (-13.0)	–	-25 (-13.0)	–
	+8/15°C Heat	Maximum °C (°F)	–	–	–	–
		Minimum °C (°F)	-25 (-13.0)	–	-25 (-13.0)	–

- 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 ≤2.0W (when switched OFF by remote control, except under self protection control).
- SEER and SCOP classification is at 230V only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season.
- Specifications are subjected to change without prior notice for further improvement.