

CASSETTE-TYPE SPLIT KANJI Series

KLIMATSU

Your comfort, your efficiency,... your **KANJI**



85T
Included
(CL90553)



- | | | |
|---|--|--|
| <p>Condensate Pump
Head up to 1.2 m</p> | <p>Digital "LED" Display
Displays the set point temperature</p> | <p>Night Mode
Night temperature curve</p> |
| <p>360° Compact Panel
Air outlet all around the perimeter</p> | <p>Cold Air Prevention
Fan speed is adjusted in heating mode to avoid disturbing the user</p> | <p>Daily Timer
24h Timer</p> |
| <p>Wide Range
Oscillation up to 85°</p> | <p>Outside Air Inlet
Possibility of supplying outside air directly to the indoor unit</p> | <p>R32 Refrigerant Gas</p> |
| <p>BMS Connectivity
Features Modbus communication</p> | <p>Automatic Mode
Cool/Heat with temperature adjustment</p> | <p>Wide Operating Temperature Range</p> |
| <p>WiFi Connectivity
Control the equipment from anywhere</p> | <p>Automatic Restart
Restores operation after a power failure</p> | <p>"Golden fin" Treatment</p> |
| <p>Remote Signal
One ON/OFF input</p> | <p>External Fan with Different Speeds</p> | <p>Refrigerant Leak Detection</p> |
| <p>"I FEEL" Function
The remote control features an ambient temperature sensor</p> | <p>Super DC Inverter Technology</p> | <p>Cooling at Low Outside Temperature</p> |

CONTROL YOUR EQUIPMENT FROM ANYWHERE

Thanks to the built-in wireless WiFi connectivity of the wall controller, you can control the air conditioner from anywhere.

Download the App



SmartLife-SmartHome



SPECIFICATIONS

Model			KCAR-35-H1	KCAR-51-H1	KCAR-71-H1	KCAR-105-H1	
Set code			CL81511	CL81512	CL81513	CL81515	
EAN set code			8432953086305	8432953086312	8432953086329	8432953086336	
Cooling	Nominal capacity (min.- max.)	kW	3.52 (0.60 ~ 4.00)	4.70 (0.62 ~ 5.19)	7.17 (2.20 ~ 8.30)	10.55 (3.08 ~ 12.30)	
	Nominal consumption (min.- max.)	kW	1.89 (0.16 ~ 1.66)	1.52 (0.20 ~ 2.15)	2.09 (0.46 ~ 3.20)	3.33 (0.26 ~ 4.60)	
	Pdesignc (design capacity)	kW	3.5	5.0	7.1	10.6	
	SEER	W/W	6.5	6.1	6.9	6.2	
	Energy Efficiency Class		A++	A++	A++	A++	
	Annual electricity consumption	kWh/year	189	273	364	580	
Heating	Nominal capacity (min.- max.)	kW	3.56 (0.60 ~ 4.10)	4.70 (0.76 ~ 5.32)	7.20 (2.32 ~ 8.80)	11.72 (3.28 ~ 13.50)	
	Nominal consumption (min.- max.)	kW	0.93 (0.16 ~ 1.66)	1.43 (0.23 ~ 2.15)	1.84 (0.46 ~ 3.20)	3.40 (0.35 ~ 3.70)	
	Mild climate zone	Pdesignh (design capacity)	kW	2.3	3.9	5.7	8.5
		SCOP	W/W	4.0	4.0	4.1	4.1
		Energy Efficiency Class		A+	A+	A+	A+
		Annual electricity consumption	kWh/year	805	1,365	1,895	2,970
	Warm climate zone	Tbiv (bivalent temperature)	°C	-7	-7	-7	-7
		Pdesignh (design capacity)	kW	2.7	3.9	6.6	9.2
		SCOP	W/W	5.1	5.1	5.1	5.1
		Energy Efficiency Class		A+++	A+++	A+++	A+++
	Cold climate zone	Annual electricity consumption	kWh/year	775	1,152	1,856	2,520
		Tbiv (bivalent temperature)	°C	2	2	2	2
		Pdesignh (design capacity)	kW	3.0	3.9	6.3	8.9
		SCOP	W/W	3.4	3.4	3.4	3.4
	Energy Efficiency Class			A	A	A	A
	Annual electricity consumption	kWh/year	1,853	2,409	2,584	3,778	
	Tbiv (bivalent temperature)	°C	-22	-22	-22	-22	
	Tol (operation limit temperature)		°C	-15	-15	-15	-15
Indoor unit	Model	Body	KCAR-35-H1-I	KCAR-51-H1-I	KCAR-71-H1-I	KCAR-105-H1-I	
		Panel	KCAR-60X60-H1-P	KCAR-60X60-H1-P	KCAR-90X90-H1-P	KCAR-90X90-H1-P	
	Code	Body	UI81511	UI81512	UI81513	UI81515	
		Panel	UA81511	UA81511	UA81513	UA81513	
	EAN Code	Body	8432953086084	8432953086091	8432953086107	8432953086114	
		Panel	8432953086145	8432953086145	8432953086152	8432953086152	
	Air flow rate (Super / High / Medium / Low / Silence)	Cooling	m³/h	650 / 600 / 520 / 460 / 390	750 / 700 / 610 / 530 / 480	1400 / 1310 / 1110 / 960 / 800	1900 / 1710 / 1620 / 1470 / 1260
		Heating	m³/h	650 / 620 / 550 / 480 / 440	750 / 700 / 610 / 530 / 480	1300 / 1210 / 1020 / 870 / 780	1900 / 1710 / 1620 / 1470 / 1260
	Sound pressure (Super / High / Medium / Low / Silence)	dB(A)	42 / 40 / 38 / 36 / 44 / 30 / 27	46 / 43 / 40 / 38 / 36 / 32 / 28	50 / 48 / 44 / 40 / 37	53 / 50 / 49 / 47 / 43	
	Sound power	dB(A)	52	56	60	63	
	Drainage connection (OD)	mm	Ø25	Ø25	Ø32	Ø32	
	Condensate pump head height ⁽¹⁾	mm	1,200	1,200	1,200	1,200	
	Fresh air intake ⁽²⁾	mm	Ø50	Ø50	Ø75	Ø75	
	Dimensions (W x H x D)	Body	mm	570 x 245 x 570	570 x 245 x 570	840 x 245 x 840	840 x 290 x 840
		Panel	mm	650 x 57 x 650	650 x 57 x 650	950 x 65 x 950	950 x 65 x 950
	Weight	Body	kg	14.5	14.5	23	26
		Panel	kg	2.7	2.7	6	6
	Outdoor unit	Model		KEAR-35-H1-E	KEAR-51-H1-E	KEAR-71-H1-E	KEAR-105-H1-E
Code			UE81501	UE81502	UE81503	UE81505	
EAN Code			8432953086169	8432953086176	8432953086183	8432953086206	
Air flow rate (High)		m³/h	1,900	2,600	3,500	4,700	
Sound pressure (High)		dB(A)	52	55	58	57	
Sound power		dB(A)	62	65	68	67	
Drainage connection (ID)		mm	Ø21	Ø21	Ø21	Ø21	
Compressor			GMCC KSN98D31UEZW31	SANYO C-4RZ120H3AAF	SANYO C-6RZ180H3BAF	GMCC KTF240D43UMT	
Expansion Type			Capillary	Capillary	Capillary + Valve Electronic	Capillary + Valve Electronic	
Dimensions (Width x Height x Depth) ⁽³⁾		mm	775 x 499 x 290	859 x 603 x 349	908 x 699 x 375	974 x 803 x 421	
Weight	kg	22	30	38.9	52		
Refrigerant	Type / GWP		R32 / 675	R32 / 675	R32 / 675	R32 / 675	
	Charge	kg	0.53	0.96	1.35	1.7	
	CO ₂ equivalence	TCO ₂ eq	0.358	0.648	0.911	1.148	
	Precharge until	m	5	5	5	5	
	Additional charge (from 5 m)	g/m	15	15	25	32	
Connection pipes	Liquid	inches	1/4"	1/4"	3/8"	3/8"	
	Gas	inches	3/8"	3/8"	5/8"	5/8"	
	Maximum length ⁽⁴⁾	m	25	25	30	50	
	Max. height difference	m	10	10	15	25	
Electrical data ⁽⁵⁾	Power supply	V / Hz / Ph	220-240~ / 50 / 1N	220-240~ / 50 / 1N	220-240~ / 50 / 1N	220-240~ / 50 / 1N	
	Maximum consumption	kW	1.66	2.15	3.2	4.6	
	Max. current	A	9	12	16	21	
	Power cable (outdoor unit)	mm²	2 x 1.5 + T	2 x 1.5 + T	2 x 2.5 + T	2 x 2.5 + T	
	Interconnection cable	mm²	3 x 1.5 + T	3 x 1.5 + T	3 x 1.5 + T	3 x 1.5 + T	
Operating temperature	Indoor (Cooling / Heating)	°C	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30	
	Outdoor (Cooling / Heating)	°C	-15 ~ 53 / -20 ~ 30	-15 ~ 53 / -20 ~ 30	-15 ~ 53 / -20 ~ 30	-15 ~ 53 / -20 ~ 30	

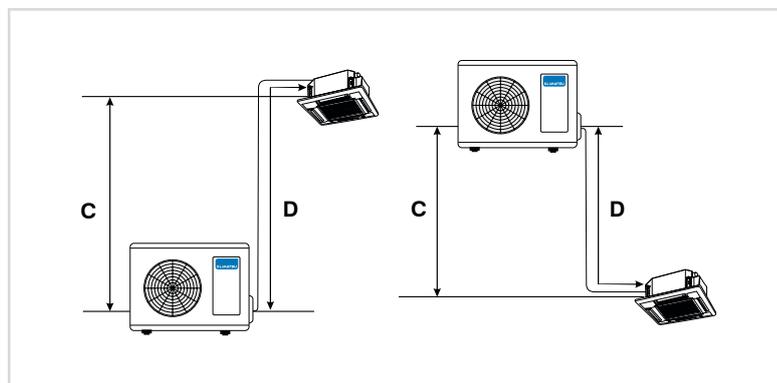
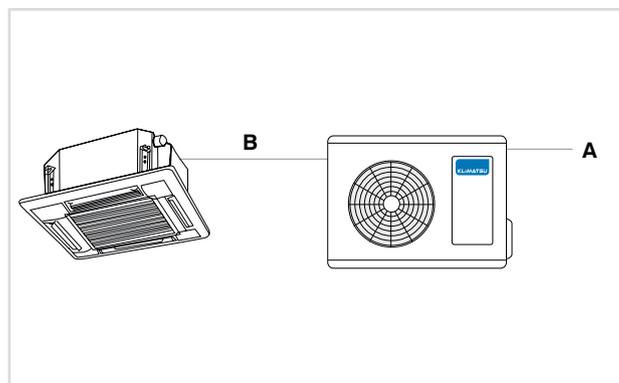
- Notes:**
- ⁽¹⁾ Pump height measured from the unit shaft. The elbow is set horizontally at 200mm maximum.
 - ⁽²⁾ Inner diameter.
 - ⁽³⁾ Dimensions include protruding parts (valve cover, grids, handles, etc.). For detailed dimensions, please refer to the installation manual.
 - ⁽⁴⁾ Minimum piping length: 3 m.
 - ⁽⁵⁾ The electrical wiring sections indicated are recommended but may be higher depending on each installation. They must be adapted to the applicable electrical regulations.
- * In order to improve the product, design and specifications are subject to change without prior notice.**
- ** The sound level values correspond to values obtained in an anechoic chamber.**

ELECTRICAL WIRING

Model	Power supply (outdoor unit only)		"Interconnection (B)"
	Type	Section (A)	
35	230 V (1N~)	2 x 1.5 + T (mm ²)	3 x 1.5 + T (mm ²)
51	230 V (1N~)	2 x 1.5 + T (mm ²)	3 x 1.5 + T (mm ²)
71	230 V (1N~)	2 x 2.5 + T (mm ²)	3 x 1.5 + T (mm ²)
105	230 V (1N~)	2 x 2.5 + T (mm ²)	3 x 1.5 + T (mm ²)

COOLING PIPES AND ADDITIONAL CHARGE (R-32)

Model	Piping		Max. distance		Additional refrigerant charge	Precharge until
	Liquid	Gas	Vertical (C)	Total (D)		
35	1/2"	1/4"	10 m	25 m	15 g/m	5 m
51	1/2"	1/4"	10 m	25 m	15 g/m	5 m
71	5/8"	3/8"	15 m	30 m	25 g/m	5 m
105	5/8"	3/8"	25 m	50 m	32 g/m	5 m



OPTIONALS

AIDOO PRO Airzone ⁽¹⁾



AZAI6WSPMB1⁽¹⁾
(OC48241)

Wall control



XK-120D1
(CL90550)

⁽¹⁾ Allows connection to the Airzone Flexa 4.0 system

Features

- 
R32 Refrigerant Gas
 This unit uses a more eco-friendly refrigerant: R32. In order to install equipment with R32 refrigerant gas, you must check the applicable legislation.
- 
Maximum Silence
 The Mute function allows you to select the ultra-quiet speed, with which the sound level of the equipment is only 22 db(A).
- 
Turbo Operation
 Cooling/Heating time reduced to its maximum.
- 
Wide Operating Temperature Range
 Cooling operation up to 53 °C and heating down to -20 °C.
- 
“I FEEL’” Function
 The remote control features an ambient temperature sensor
- 
“Golden fin” Treatment
 Gold-plated heat exchanger, which protects the equipment against atmospheric phenomena and the effects of aggressive environments. It also prevents the proliferation of bacteria and mold.
- 
Engineering Mode
 Function adjustment and operating parameter monitoring via the controller.
- 
Temperature Compensation
 The remote control allows you to set the compensation temperature for heating and cooling modes.
- 
Setpoint Temperature Range Adjustment
 The remote control is able to adjust: Minimum cooling from 16 °C up to 25 °C; Maximum heating from 31 °C down to 26 °C.
- 
External Fan with Different Speeds
 Accurate adjustment of fan speed thanks to DC fan.
- 
WIFI Connectivity
 Control your air conditioning equipment from anywhere. Smart Life-Smart Home APP.
- 
BMS Connectivity
 The equipment features Modbus communication.
- 
Automatic Mode
 Cold/Heat with temperature adjustment.
- 
Filter Cleaning Reminder
 Every 500h of operation, it reminds the need to clean the air filter (displays the “CL” code).
- 
Outside Air Inlet
 Possibility to bring outside air directly to the indoor unit.
- 
Digital “LED” Display
 The equipment features a digital display showing the set point temperature with the possibility of turning the display off.
- 
Automatic Restart
 Recovery of the adjustments before the electrical cut.
- 
Refrigerant Leak Detection
 The unit automatically detects possible refrigerant leaks in the circuit.
- 
Night Mode
 Makes the unit operate according to the preset nighttime temperature curve, which creates an ideal nighttime environment and improves sleep quality.
- 
Super DC Inverter Technology
 The equipment features both DC Inverter compressor and DC fan motors.
- 
Daily Timer
 The timer can be set to start and stop at any point in a 24-hour period.
- 
Cold Air Precaution
 When heating, the initial fan speed is adjusted according to the battery temperature.
- 
Cooling at Low Outside Temperature
 Cooling operation down to -15°C outside.
- 
“I SET” Memory
 Allows the main operating settings to be stored.
- 
Weekly Timer
 Sets the weekly operation of the unit.
- 
Horizontal and Vertical Flap Swing
 Better air distribution thanks to the flap’s horizontal and vertical automatic swing.
- 
Emergency Operation
 Possibility of manually operating the unit with the button in case of any alarms sounding.
- 
8 °C Heating
 The unit automatically switches to heating mode when the room temperature is below 8 °C, thus preventing the room temperature from being too low when you are not at home.
- 
Indirect Air
 Thanks to the golf ball dimple design and the Coanda effect, it can deliver a higher and longer airflow, creating a wind-free comfort zone for users.
- 
Remote Signal
 It features an ON/OFF input.
- 
Condensate Pump
 Head up to 1.2 m. Features a drainage pump to facilitate the drainage of the indoor unit.
- 
360° Compact Panel
 Air outlet all around the 600 x 600 mm perimeter.
- 
Wide Range
 Flap oscillation up to 85°.
- 
Extra Flat Design
 Only 200 mm high.
- 
Configurable Static Pressure
 Up to 160 Pa. From the PCB (or any model with the wireless or wired remote control) the static pressure of the fan can be adjusted, so that the machine can be adapted to each installation.
- 
Configurable Return
 The return air intake can be set up either at the rear or at the bottom of the unit. By default, it is set up at the rear.