





About our products

The Willis 1-to-1 commercial series of Air Conditioners was designed for applications where the requirements are greater and/or more complex than the typical residence. They offer great flexibility as you can mix and matchfrom a variety of indoor unit types (floor-ceiling, cassette, or duct type) to best suit the architectural design.

Installation is easier and less costly than conventional HVAC systems as no brazing is required.

The 1-to-1 Commercial Series is available in sizes ranging from 18k to 48k BTUs (1.5 to 4 tons) which are ideal for cooling, and heating light commercial spaces.

What can I find in this catalog?

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Want to know more about us and our products? Visit our website willisac.com



1-to-1 COMMERCIAL INVENTER SERIES

Remote Controller



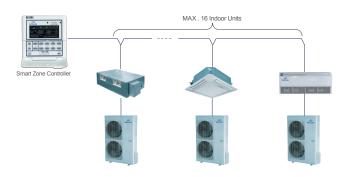




Optional

Centralized Control Function

The indoor unit is equipped with an interface that can be managed by the smart zone controller. This wireless device can control a maximum of 16 indoor units and can manage the power on/off, mode, fan speed, temperature setting and timer of one single unit, or a whole group of units.



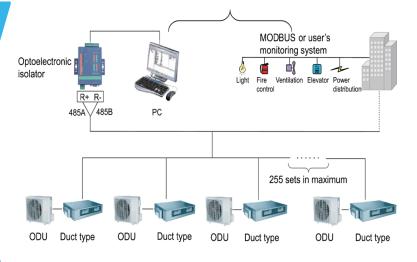
Non-polar Communication Wire

For the communication between the indoor unit and outdoor unit, and the communication between wired controller and indoor mainboard, you can use non-polar communication wire. General 2-core power cord or telephone wire can be used as the communication wire, instead of the shielded twisted pair wire.

MORE INTELLIGENT CONTROL

Interface (MODBUS Protocol) and Long-distance Monitoring

The system comes with a built in MODBUS interface. (If the unit is to be connected with a building management system, please consult your dealer for the development of MODBUS protocol). When activated, the system operation information will be sent to the building management system in order to control and monitor the units.

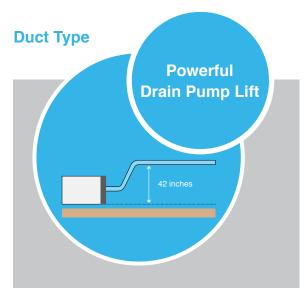


INDOOR UNIT FEATURES

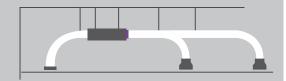
- Duct Type
- Cassette Type
- Floor or Ceiling Type

Outdoor Unit





The static pressure can be adjusted within a range of 0 to 150Pa depending on various installation requirements.

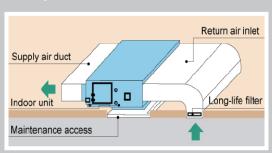


Adjustable Fan Speed

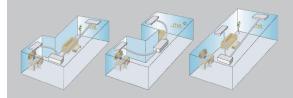
There are three fan speeds available (high, medium and low) on the indoor units to meet different requirements.

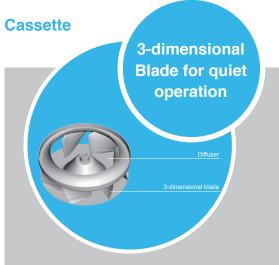
Highly Flexible Installation

Highly flexible installation is possible to satisfy various needs.



Flexible and easy to install in L shape, U shape and large rooms.





High Ceiling Applications

The 24K to 48K units are applicable for ceiling heights of up to 15 feet



Units below 24K are applicable for ceiling heights below 10 feet.



Comfortable Airflow

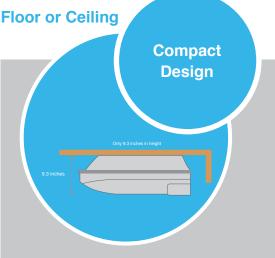
Air can be blown in different directions with 30 to 60 degrees of swing angle for even temperature distribution.



Water Drainage Pump

The standard drain pump has an increased lift of 42 inches





Wide Discharge Range

The air supply range is efficiently wider due to the cross directional sweep motion.



Easy Maintenance

Convenient disassembly and maintenance are possible thanks to the unique design.

Microcomputer Control

All of the control functions are controlled by a microcomputer which not only shows all running modes and temperatures but also has a malfunction diagnosis and data search function.

Flexible Installation

These indoor units can be installed on either the ceiling or the floor.







- Duct Type
- Cassette Type
- Floor or Ceiling Type







DUCT

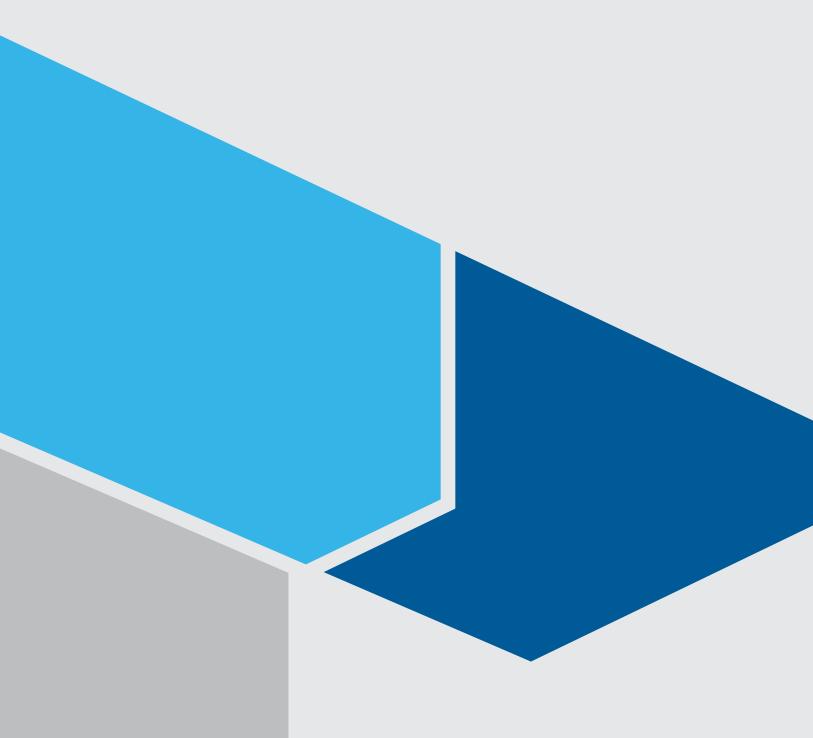
0001									
	MODEL				Ductable ur	nit LCDKCH16S w	ith outdoor unit LC	O-KCH16S	
	MODEL			18	24	30	36	42	48
Capacity Cooling BTU/h Heating BTU/h SEER/HSPF		Cooling	BTU/h	17,100	23,800	28,200	34,000	39,500	48,000
		Heating	BTU/h	18,800	27,200	31,200	41,000	44,000	54,500
			16.00/9.50	16.00/9.00	16.00/9.00	16.00/9.00	16.00/9.00	16.00/9.00	
	Power supply		V/ph/hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/6
Power input Cooling Heating		kW	1.55	2.23	3.3	3.28	4.15	5.15	
		Heating	kW	1.65	2.36	3.1	3.75	3.9	5.15
current input Cooling Heating		Α	7.93	11.41	16.88	16.78	21.23	26.34	
		Heating	Α	8.44	12.07	15.86	19.18	19.95	26.34
			Kg/Oz	1.4/49.4	2.2/77.6	2.4/84.7	3.5/123.5	3.7/130.5	4.0/141.1
					,				
			CFM	585	820	820	1,175	1,175	1,470
	Airflow		m3/h	1,000	1,400	1,400	2,000	2,000	2,500
		Rated	INWC	0.1	0.1	0.15	0.15	0.15	0.2
	ESP	Range	INWC	0.12	0.3	0.3	0.4	0.4	0.5
Indoor Unit	Sound pressure level	H/M/L	dB(a)	39/36/28	46/44/40	46/44/40	52/48/44	52/48/44	53/49/45
	dimensions (wxdxh)	outline	inch	40.8×28.4×10.5	50.4×22.0×10.6	50.4×22.0×10.6	48.3×30.5×11.4	48.3×30.5×11.4	52.8×29.5×13
		package	inch	44.2×31.4×12.7	53.1×23.5×11.1	53.1×23.5×11.1	52.7×34.5×12.0	52.7×34.5×12.0	56.0×33.0×17
	Weight	Net/gross	Lbs	72.8/83.8	75.0/86.0	77.2/86.0	101.4/116.9	101.4/116.9	123.5/143.3

CASSETTE

				Cassette LCCKCH16Swith outdoor unit LCOKCH16S						
	MODEL			18	24	30	36	42	48	
Capacity		Cooling	BTU/h	17,100	23,800	28,200	34,000	39,500	48,000	
		Heating	BTU/h	18,400	27,200	31,200	41,000	44,000	54,500	
	SEER/HSPF			16.00/9.00	16.00/9.00	17.00/9.00	16.00/9.00	16.00/9.00	16.00/9.00	
	Power supply		V/ph/hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/6	
Power input Cooling Heating		kW	1.7	2.23	2.7	3.28	4.4	5.5		
		Heating	kW	1.8	2.36	2.5	3.75	4.45	4.8	
current input Cooling Heating		Cooling	Α	8.7	11.41	13.81	16.78	22.51	28.13	
		Heating	Α	9.21	12.07	12.79	19.18	22.76	24.55	
Refrigerant charge Kg/Oz			Kg/Oz	1.4/49.4	2.2/77.6	2.4/84.7	3.5/123.5	3.7/130.5	4.0/141.1	
			CFM	445	765	880	1,095	1,095	1,350	
	Airflow		m3/h	760	1,300	1,500	1,860	1,860	2,300	
	Sound pressure level	H/M/L	dB(a)	46/44/37	46/42/38	48/45/40	49/46/43	49/46/43	52/47/41	
	Body dimensions	Outline	inch	26.2×23.5×9.4	36.1×33.1×9.4	36.1×33.1×12.6	36.1×33.1×12.6	36.1×33.1×12.6	35.8×35.8×1	
Indoor Unit	(wxdxh)	Package	inch	30.4×28.9×11.8	45.2×37.7×13.4	45.2×37.7×16.5	45.2×37.7×16.5	45.2×37.7×16.5	40.3×39.1×1	
	Body Weight	Net/gross	Lbs	44.1/52.9	59.5/83.8	70.6/97.0	70.6/97.0	70.6/97.0	94.8/110.3	
	Panel dimensions (wxdxh)	Outline	Inch	26.4×26.4×2.0	37.5×37.5×2.4	37.5×37.5×2.4	37.5×37.5×2.4	37.5×37.5×2.4	40.9×40.9×2	
		Package	Inch	30.0×30.0×4.1	40.7×40.9×5.2	40.7×40.9×5.2	40.7×40.9×5.2	40.7×40.9×5.2	448×44.8×5	
	Panel Weight	Net/gross	Lbs	7.7/11.0	15.4/24.3	15.4/24.3	15.4/24.3	15.4/24.3	17.6/26.5	

FLOOR OR CEILING

	MODEL			Foor/Ceiling unit LCFKCH16S with outdoor unit LCOKCH16S						
	MODEL			18	24	30	36	42	48	
	Canasitu	Cooling	BTU/h	17,100	23,800	28,200	34,000	39,500	48,000	
Capacity		Heating	BTU/h	19,100	27,200	31,200	41,000	44,000	54,500	
SEER/HSPF			17.00/9.50	16.00/9.00	17.00/9.00	16.00/9.00	16.00/9.00	16.00/9.00		
	Power supply		V/ph/hz	208/230/601	208/230/601	208/230/601	208/230/601	208/230/601	208/230/601	
Power input Cooling Heating		kW	1.55	2.23	2.4	3.28	4.05	4.95		
		Heating	kW	1.55	2.36	2.6	3.75	4.05	4.6	
current input Cooling Heating		Cooling	А	7.93	11.41	12.28	16.78	20.72	25.32	
		Heating	А	7.93	12.07	13.3	19.18	20.72	23.53	
Refrigerant charge		Kg/Oz	1.4/49.4	2.2/77.6	2.4/84.7	3.5/123.5	3.7/130.5	4.0/141.1		
			CFM	585	705	880	1,115	1,115	1,350	
	Airflow		m3/h	1,000	1,200	1,500	1,900	1,900	2,300	
Index of the	Sound pressure level	H/M/L	dB(a)	42/38/32	48/46/40	46/44/38	53/51/46	54/52/47	55/50/46	
Indoor Unit	dimensions (wxdxh)	outline	inch	48.0×27.6×8.9	48.0×27.6×8.9	55.9×27.6×9.6	55.9×27.6×9.6	55.9×27.6×9.6	66.9×27.6×9.0	
		package	inch	52.9×32.4×12.4	52.9×32.4×12.4	60.9×32.6×13.6	60.9×32.6×13.6	60.9×32.6×13.6	72.0×32.6×13.	
	Weight	Net/gross	Lbs	86.0/105.8	88.2/110.3	105.8/123.5	105.8/123.5	110.3/127.9	130.1/149.9	





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