

# WELCOME





## **SERVICE & SUPPORT**

We believe that the best way to ensure the complete satisfaction of our customers is by offering the greatest service and support to our installers' network. This way, they will systematically propose optimal solutions and complete installations with unmatched professionalism.

We have developed all the necessary tools to provide the best after sales and service support.

## **EXCELLENCE & INNOVATION**

Every Willis system is designed to be the best in its class. Only first class materials are used throughout the manufacturing of a Willis system. A strict quality control is in place to insure the premium quality of all Willis units. From engineering to after sales support our team of professionals strive to deliver customer satisfaction. Through our commitment to excellence we have developed partnerships of qualified installers. These exclusive partnerships allow us to train, support and monitor our installations to ensure the best consumer experience in every region where we operate. Our warranties are a testament to our quality innovations and our fully integrated process.

# 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





## 4 Way Air Outlet

The louver can be adjusted vertically and horizontally this will help maximise the comfort of your home.



# **Compact Design**

With state of the art innovations such as an integrated evaporator and incorporated rear base casing our indoor units are more compact.



### Quiet

The axial fan innovative design and the strengthened motor bracket will minimize the vibrations and noise level outside. The integrated rear base and evaporator makes our indoor unit one of the quietest.



## **Sleep Mode**

Willis comfy sleep curve will maintain the ideal temperature until morning to ensure your comfort.



## **Certifications**

All our products are









## **Intelligent Defrost**

The defrosting operation is only performed when needed, this reduces energy waste by eliminating unnecessary defrost while maximising warm comfort.



## **Auto Clean**

After powering off, the cross fan stays operational until the inside of the indoor unit is dry, this way your unit will stay clean and healthy.



## **High Efficiency**

Cutting edge chips for precise inverter control high efficiency electronic expansion valves for precise refrigerant flow, optimized cross fan designed for larger air flow volume.



## I Feel

The mini sensor in the remote controller senses the surrounding temperature. The air flow and set temperature of the indoor unit is adjusted accordingly for optimal comfort level. The integrated rear base and evaporator makes our indoor unit one of the quietest.

# **MULTI ZONE**

**OUTDOOR & INDOOR UNIT** 

# **MULTI ZONE OUTDOOR SERIES 2**

18,000 - 56,000 BTU 16 SEER

# **MULTI ZONE OUTDOOR SERIES 3**

18,000 - 42,000 BTU 22-20.5 SEER

## MULTI ZONE INDOOR UNIT

- Wallmount
- Commodore 23
- Admiral
- Console
- Floorceiling
- Slimduct
- Cassette

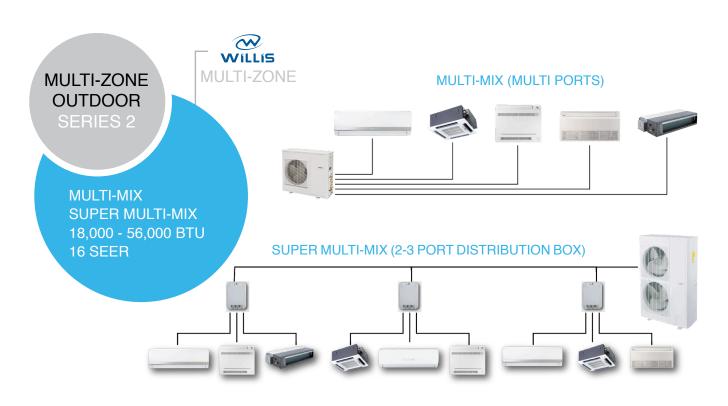
### INDOOR UNIT MATCH

AVAILIBILITIES	MULTI ZONE SERIES 2	MULTI ZONE SERIES 3
WALLMOUNT		
COMMODORE 23		•
ADMIRAL		•
CONSOLE		•
FLOORCEILING		•
SLIMDUCT		
CASSETTE		•



## What is the "Willis Advantage"?

- 1. Access to one of the most comprehensive lines of mini-splits and multi-zones in North America.
- 2. The flexibility of dealing with a family owned supplier who cares about your needs. Flexible terms, flexible product offerings, flexible warranties, flexible stocking programs, flexible support programs all tailored to your needs.
- 3. The strength of a company which is devoted to the wholesale distributor and the wholesale representative. Too many manufacturers just look out for themselves, and do not honor their commitments if it is inconvenient. Willis is different. Try us out and see what you think.
- 4. The strength of experience: Some of our staff members have been in the mini-split business segment since the beginning. They know the products, the manufacturers, and the needs of the market, and they bring that knowledge to you.
- 5. Quality products by the biggest and most successful manufacturers in the world.
- Aggressive pricing.



MODELS Outdoor Unit		WMO 18MH16S	WMO 24MH16S	WMO 30MH16S	WMO 36MH16S	WMO 42MH16S	WMO 48MH16S	WMO56 MH16S	
Number of ports		2 ports	3 ports	4 ports	4 ports	5 ports	Up to 8 units	Up to 9 units	
Oznacih	Cooling	Btu/h	18,000 (7,000-21,000)	26,000 (7,500-33,000)	29,000 (7,500-34,000)	34,000 (8,530-34,120)	41,000 (8,530-46,403)	48,000 (3,410-54,590)	53,000 (3,410-61,420)
Capacity	Heating	Btu/h	19,000 (8,530-22,600)	29,000 (7,500-35,000)	30,500 (7,500-36,000)	35,800 (10,662-40,944)	44,500 (10,662-47,768)	54,500 (4,090-58,000)	61,500 (4,090-63,120)
SE	ER		16	16	16	16	16	16	16
HS	SPF		8.20	8.20	8.20	8.20	8.00	8.20	8.20
Power	Supply		208-230V, 60Hz, 1Ph	208-230V, 60Hz, 1Ph	208-230V, 60Hz, 1Ph	208-230V, 60Hz, 1Ph	208-230V, 60Hz, 1Ph	208-230V, 60Hz, 1Ph	208-230V, 60Hz, 1Ph
Power input	Cooling	w	1,650 (680-2,800)	3,050 (650-4,500)	3,450 (650-4,500)	4,300	4,400	5,000	5,600
Power input	Heating	w	1,640 (680-2,800)	2,800 (980-3,950)	2,850 (980-3,950)	3,600	4,600	4,400	5,200
Rated current	Cooling	Α	8.09	14.96	16.93	19.2	19.5	23	23
Haled current	Heating	Α	8.05	13.74	13.98	15.81	20.5	23	23
Airflow		CFM	1,530	1,530	1,530	2,177	3,237	3,766.40	4,119.50
AITIOW		m3/h	2,600	2,600	2,600	3,700	5,500	6,400	7,000
		°C	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43	-5 ~ 43
Operating range	Cooling	°F	23 ~ 109	23 ~ 109	23 ~ 109	23 ~ 109	23 ~ 109	23 ~ 109	23 ~ 109
Operating range	Heating	°C	-20 ~ 20	-20 ~ 20	-20 ~ 20	-20 ~ 20	-20 ~ 20	-20 ~ 20	-20 ~ 20
	пеашу	°F	-5 ~ 68	-5 ~ 68	-5 ~ 68	-5 ~ 68	-5 ~ 68	-5 ~ 68	-5 ~ 68
Sound Pressur	e Level	dB(A)	66	66	66	69	68	65	67
Piping	Gas	inch	2x3/8	3x3/8	4x3/8	2x3/8 & 1x1/2 & 1x5/8	2x3/8 & 2x1/2 & 1x5/8	5/8	5/8
Connection	Liquid	inch	2x1/4	3x1/4	4x1/4	3x1/4 & 1x3/8	4x1/4 & 1x3/8	3/8	3/8
Dimensio WxHxD		inch	35.4x23.5 x14.9	37.2x27.6 x15.6	37.2x27.6 x15.6	36.2x31.1 x16.8	40x43.4 x17.3	53.14x35.44 x13.39	53.14x35.44 x13.39
Net/Gross W	eight	Lbs	94.8/105.8	134.5/145.5	136.7/147.7	152.6/165	225/247	255.74	255.74
Max. Total Distance ft.		ft.	66	230	230	230	262	443	476
Max. Single Di	stance	ft.	33	66	66	66	82	180	180
Max Elevat	ion	ft.	16	33	33	49	49	98	98
Pre-charg	je	ft.	25	25	25	25	25	25	25
MCA		Α	13	20	26	28	29	30	30

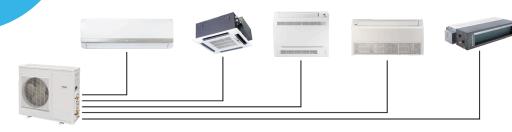




MULTI-MIX 18,000 - 42,000 BTU 22-20.5 SEER

# MULTI-MIX (MULTI PORTS)





MODELS Outdoor Unit		WMO18KCH22S	WMO24KCH21S	WMO30KCH21S	WMO36KCH21S	WMO42KCH21S	
Number of ports		2 ports	3 ports	4 ports	4 ports	5 ports	
	Cooling	Btu/h	18,000	26,000	29,000	34,000	39,000
Capacity	Heating	Btu/h	19,000	29,000	31,600	42,500	45,000
S	EER		22	20.5	21	21	21
Н	SPF		9	10.2	10.2	10.2	10.2
Powe	er Supply		208-230V, 60Hz, 1Ph				
Dawer land	Cooling	w	1,650 (680-2,800)	2,740 (1,000-2,800)	2,420	2,800	3,740
Power Input	Heating	W	1,610 (680-2,800)	2,320 (880-2,900)	2,470	3,350	3,650
Rated Curre	ent	Α	12.42	20.19	1	1	/
A :61		CFM	1,883	2,354	2,330.46	4,531	4,531
Airflow		m3/h	3,200	4,000	3,960	7,700	7,700
0 "		°C	-18 ~ 48	-18 ~ 48	-18 ~ 48	-18 ~ 48	-18 ~ 48
Operating Range	Cooling	°F	-1 ~ 118	-1 ~ 118	-1 ~ 118	-1 ~ 118	-1 ~ 118
Operating Hange	Heating	°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24
	пеаші	°F	-4 ~ 75	-4 ~ 75	-4 ~ 75	-4 ~ 75	-4 ~ 75
Sound Pressure	Level	dB(A)	56	59	59	61	61
Piping	Gas	inch	2 x 3/8	3 x 3/8	4 x 3/8	5 x 3/8	5 x 3/8
Connection	Liquid	inch	2 x 1/4	3 x 1/4	4 x 1/4	5 x 1/4	5 x 1/4
Dimension WxHxD	IS	inch	37.6 x 27.55 x 15.6	38.6 x 31.1 x 16.8	38.6 x 31.1 x 17.3	42.8 x 43.4 x 17.3	42.8 x 43.4 x 17.3
Net/Gross We	eight	Lbs	114.6/124.6	153.2/164.2	145.5/154.3	198.4/216	198.4/216
Max. Total Dis	tance	ft.	65.6	197	230	246	246
Max. Single Distance ft.		ft.	33	66	82.5	82,5	82.5
Max Elevation ft.		ft.	33	33	49.5	49,5	49.5
Refrigerant Ch	narge	Lbs	3.52	4.85	6.17	8.05	8.04
MCA		Α	15	21	23	23	24
Loading Qua	ntity		171	144	144	86	86

MULTI-ZONE INDOOR SYSTEM WALLMOUNT





SERIES 2 ONLY 9,000 BTU TO 18,000 BTU Easy Install

MOD	MODEL			WMI 12MH16S	WMI 18MH16S
Sound Pressure I	_evel	dB(A)	42/32	44/33	49/35
Dehumidification	on	pt/h	1,69	2,96	3,8
Air Flow		CFM	306/277/253/218	335/277/253/218	500/459/383/324
Dimension W x H	l x D	in	33.3 x 10.8 x 7.1	33.3 x 10.8 x 7.1	37 x 11.7x 7.9
Net/Gross Weig	ght	Lbs	22.1/27.6	22.1/27.6	28.7/35.3
Dining Connection	gas	in	3/8	3/8	1/2
Piping Connection liquid		in	1/4	1/4	1/4

MULTI-ZONE INDOOR SYSTEM COMMODORE



SERIES 3 ONLY 9,000 BTU TO 36,000 BTU Easy Install

МС	DDEL		WCM 09MH23S	WCM 12MH22S	WCM 18MH20S	WCM 24MH20S	WCM 30MH18S	WCM 36MH18S
Sound Pres Level		dB(A)	43/39/ 35/29	45/39/ 35/29	47/43/ 40/39	48/44/ 40/36	51/45/ 41/37	54/49/ 44/37
Dehumidific	cation	pt/h	1.69	2.96	3.8	4.23	6.54	7.40
Air Flo	N	CFM	377/288/ 241/171	400/288/ 241/171	559/488/ 412/335	706/647/ 588/530	706/618/ 730/412	736/647/ 530/412
Dimensi W x H x		in	33.4 x 11.4 x 8.2	33.4 x 11.4 x 8.2	38.2 x 11.8 x 8.8	42.4 x 12.8 x 9.7	53.1 x 12.8 x 10	53.1 x 12.8 x 10
Net/Gross V	Veight	Lbs	22.1 / 26.5	22.1 / 26.5	28.7 / 35.3	34.2 / 41.9	41.9 / 51.8	41.9 / 51.8
Piping	gas	in	3/8	1/2	5/8	5/8	5/8	5/8
Connection	liquid	in	1/4	1/4	1/4	1/4	1/4	1/4

MULTI-ZONE
INDOOR SYSTEM





SERIES 2 & SERIES 3 9,000 BTU TO 24,000 BTU Easy Install

М	ODEL		WAM 09KCH27S	WAM 12KCH25S	WAM 18KCH21S	WAM 24KCH21S
Sound Pressure dB(A) Level		42/38/36/34 /30/26/23	44/38/36/34 /30/26/24	51/48/45/43 /39/36/33	52/49/47/45 /43/41/38	
Dehumidif	ication	pt/h	2.28	3.59	4.56	6.55
Air Flo	)W	CFM	418/300/282/247 /218 /182/ 118	453/312/288/259 /221 /182 /118	588/512/465/418 /371 /330 /282	706/647/589/530 /471 /412 /353
Dimension W	/ x H x D	in	34.1 x 11.5 x 8.2	34.1 x 11.5 x 8.2	40.1 x 12.6 x 9.1	46.4 x 12.8 x10.4
Net/Gross	Weight	Lbs	24 / 31	24 / 31	31 / 42	40 / 53
Piping	gas	in	1/2	1/2	5/8	5/8
Connection	liquid	in	1/4	1/4	1/4	1/4







SERIES 2 & 3 9,000 BTU TO 12,000 BTU Floor Warming Function

МО	MODEL		WMCS09MH16S	WMCS12MH16S
Sound Pressure	e Level	dB(A)	40/38/36/33/30/27/25	42/40/38/37/35/32/27
Dehumidifica	ation	pt/h	1.69	2.96
Air Flow	w CFM		147 / 294	164 / 353
Dimension W x	HxD	in	27.6 x 23.6 x 8.5	27.6 x 23.6 x 8.5
Net/Gross W	eight	Lbs	33.1 / 39.7	33.1 / 39.7
Piping	gas	in	3/8	3/8
Connection			1/4	1/4

MULTI-ZONE INDOOR SYSTEM





SERIES 2 & 3 9,000 BTU TO 24,000 BTU Wide Air Discharge

МС	DEL		WMFC09MH16S	WMFC12MH16S	WMFC18MH16S	WMFC24MH16S
Sound Pressur	e Level	dB(A)	40/36	40/36	45/40	48/44
Dehumidific	ation	pt/h	1.69	2.96	3.8	5.28
Air Flow	ı	CFM	383//324/265	383/324/265	559/412/294	736/530/412
Outline Dime W x H x		in	48.0x27.6x8.9	48.0x27.6x8.9	48.0x27.6x8.9	48.0x27.6x8.9
Net/Gross W	/eight	Lbs	88.2/110.2	88.2/110.2	88.2/110.2	100/120
Piping	gas	in	3/8	3/8	1/2	5/8
Connection	liquid	in	1/4	1/4	1/4	3/8

MULTI-ZONE
INDOOR SYSTEM





SERIES 2 & 3 9,000 BTU TO 24,000 BTU Powerful & Concealed

МС	DDEL		WMDT09MH16S	WMDT12MH16S	WMDT18MH16S	WMDT24MH16S
Sound Pressu	ıre Level	dB(A)	37/31	39/32	41/33	42/34
Dehumidifi	cation	pt/h	1.69	2.96	3.8	5.28
Air Flo	w	CFM	265/177/147	324/235/177	412/353/294	589/441/324
Dimension W	xHxD	in	27.6 x 7.9 x 24.2	27.6 x 7.9 x 24.2	35.4 x 7.9 x 24.2	43.3 x 7.9 x 24.2
Net/Gross \	Veight	Lbs	48.5/59.5	50/64	59/79	68/90
Piping	gas	in	3/8	3/8	1/2	5/8
Connection	liquid	in	1/4	1/4	1/4	3/8

MULTI-ZONE
INDOOR SYSTEM
CASSETTE



SERIES 2 & 3 12,000 BTU TO 24,000 BTU Breeze Free Discharge



М	ODEL		WMCT12MH16S	WMCT18MH16S	WMCT24MH16S
Sound Pressi	ure Level	dB(A)	46/44/42	46/44/42	39/37/35
Dehumidifi	cation	pt/h	2.96	3.80	5.28
Dimension	body	in	22.4x9.1x22.4	22.4x9.1x22.4	33.1x9.5x33.1
WxHxD	panel	in	25.6x2x25.6	25.6x2x25.6	37.4x2.4x37.4
Net/Gross	Weight	Lbs	40/51	40/51	62/77
Air Flo		m3/h	600	600	1,180
Air Fio	w	CFM	353	353	694
Piping	gas	in	3/8	1/2	5/8
Connection			1/4	1/4	3/8

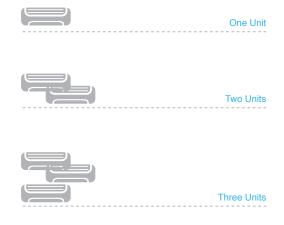


We propose many combinations according to your specific needs. You can find below all possible combinations for 18, 24, 30, 36 and 42 outdoor unit model.

The icon represents our Wallmount indoor unit but you can do combinations with our other multizone products: Console, Floor-ceiling, Slimduct and Cassette.

You can find on our website **willisac. com** the possible combinations for 48 and 56 outdoor unit model in Multi-Mix Combinations section.

Depending on the selected outdoor unit you can do several combinations between one to nine indoor unit.







# MULTI-MIX COMBINATIONS POSSIBILITIES

COMBINATIONS	WMO18MH16S WMO18KCH22S	WMO24MH16S WMO21KCH21S	WMO30MH16S WMO30KCH21S	WMO36MH16S WMO36KCH21S	WMO42MH16S WMO42KCH21S
09 + 09	•	•	•	•	•
09 + 12	•	•	•	•	•
09 + 18		•	•	•	•
09 + 24				•	•
12 + 12		•	•	•	•
12 + 18		•	•	•	•
12 + 24				•	•
18 + 18		•	•	•	•
18 + 24				•	•
24 + 24				•	•
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12 + 12 + 24				•	•
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09 + 09 + 09 + 09			•	•	•
09 + 09 + 09 + 12			•	•	•
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#### WANT MORE INFORMATION?

We'll be there for you



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## **WARRANTY**

We propose two types of warranties 5-1 years and 7-7 years. These warranties depend on the location in the United States or the province in Canada. We also propose extended warranties. For more information, contact us.



Canada & Latin America



United States except Godwin Series

## **GLOSSARY**

#### **AIRFLOW**

A measure of the amount of air per unit of time that passes through the device. It is measured either in CFM (cubic foot per minute) or m3/h (cubic meter per hour).

#### COP

COP stands for Coefficient of Performance. It is the ratio between the cooling or heating provided and the electrical power consumption.

#### **EER**

EER stands for Energy Efficiency Rating. It measures the ratio of output power to the input power.

#### REFRIGERANT

A refrigerant is the substance used to "move" the heat outside (or inside) of the room where the device is. We use the refrigerant R-410A as it is environment friendly and allows for the design of smaller and more efficient systems compared to R-22.

#### BTU/h

BTU or Btu is the British thermal unit. It is the amount of energy needed to cool or heat 1 pound of water by 1°F. The Btu/h is the unit of power used in HVAC. It corresponds to approximately 0.29 Watt.

#### **DEHUMIDIFICATION**

A measure of the amount of water per unit of time that the device is able to extract from the ambient air. It is measured in Pth.

## **HSPF**

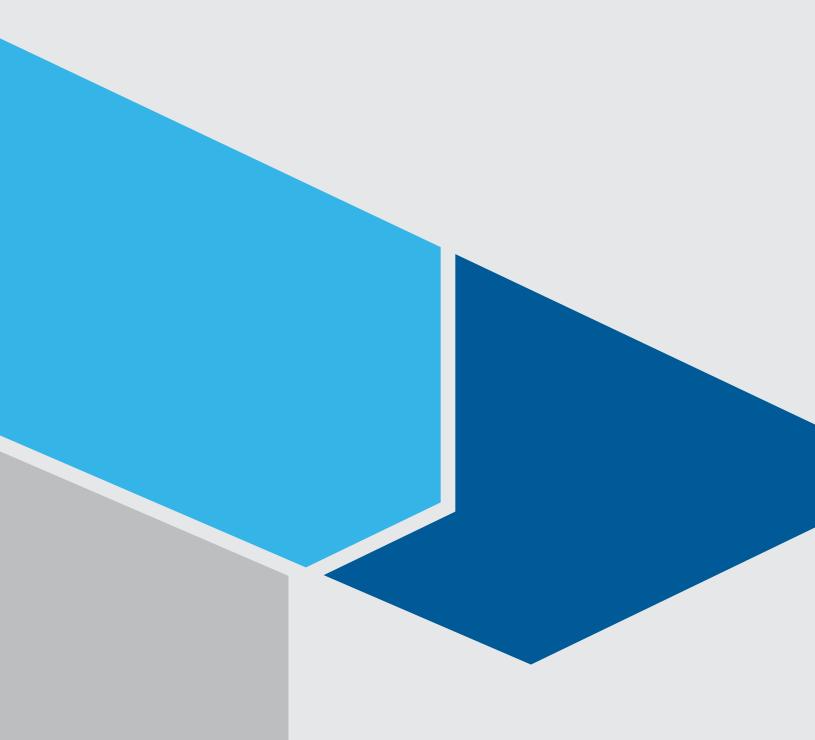
HSPF stands for Heating Seasonal Performance Factor. It is the ratio between the seasonal heating output and the electricity used.

#### SEEF

SEER stands for Seasonal Energy Efficiency Ratio. It is the ratio between the seasonal cooling output and the electricity used.

### SOUND PRESSURE LEVEL

Sound Pressure is the force of a sound on a surface perpendicular to its direction. It is measured in Pa (Pascal). The lowest sound pressure that can be heard is 2x10 Pa. The Sound Pressure Level is a comparison of the measured sound to the lowest sound pressure hearable. The units are expressed in terms of dB (decibel) which is not linear, that is, if the pressure is doubled, the Sound Pressure Level increases by 6dB. For example, the lowest hearable sound is 0dB while a guiet room is 40dB.





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