UP TO **15 SEER PERFORMANCE**

Goodman®
Air Conditioning & Heating

MINI-SPLIT SYSTEM UNITS
AIR CONDITIONING AND HEAT PUMPS

COMPLETE ROOM COMFORT WITH EASY-TO-USE REMOTE CONTROL

Thank goodness for Goodman®

Goodman®
Air Conditioning & Heating

HIGH-EFFICIENCY DUCTLESS INDOOR COMFORT

The Goodman® brand offers the MS series, a line of ductless mini-split air conditioning and heat pump systems for use where the installation of duct work is not practical. MS systems work like typical residential split air conditioning or heat pump systems, just without the installation of sheet metal duct work.

COMFORT. SAVINGS. PERFORMANCE.

The outdoor and indoor units are connected through a single 3½" opening in the wall. All the controls, refrigerant, and drain water run through the single opening, making installation easy. The indoor unit sits high on a wall and is operated by a remote control.

MS systems are ideal for newly enclosed spaces (garages, porches, decks) that should not be connected to the main air conditioning system. These units are also great for spot cooling of a sunny room or where a TV and sound system may heat up a space.

These mini-splits combine cost-effective installation, excellent cooling and heating comfort, and the convenience of remote control. Best of all, they provide additional comfort without costly changes to your main air conditioning system.

5 YEAR COMPRESSOR LIMITED WARRANTY*

1 YEAR PARTS LIMITED WARRANTY*

R-410A REFRIGERANT

** Complete warranty details available from your local dealer or at www.goodmanmfg.com.*

Air Conditioning Units

Indoor Model Outdoor Model		MSC092E15AX MSC092E15MC	MSC123E15AX MSC123E15MC	MSC183E15AX MSC183E15MC	MSC243E15AX MSC243E15MC
Capacities					
Cooling	Btu/h	9,000	12,000	18,000	22,000
SEER	Btu/W	15	15	15	15
EER		10	9	9	9
Electrical Data					
Power supply	Ph-V-Hz	115V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph
Min. Circuit Amps	A	19	10	14	16
Max Fuse	A	30	15	20	25
Moisture Removal	L/h	1	1.2	1.8	2.4
Compressor Type		Rotary	Rotary	Rotary	Rotary
Indoor fan motor					
Blower RLA		0.63	0.23	0.36	0.56
Blower LRA		63	51	74.4	124
Input	W	46	43	58.5	80.5
Capacitor	uF	3	1.5	1.5	3
Speed (Hi/Mi/Lo)	r/min	1200 / 1050 / 850	1200 / 1050 / 800	1250 / 1100 / 800	1200 / 1100 / 900
Airflow (Hi/Mi/Lo)	m^3/h	480/420/320	600/530/400	750/660/480	1250/1150/950
	CFM	285/245/185	355/310/235	440/385/285	735/675/560
Noise level (Hi/Mi/Lo)	dB(A)	39/35/29	39/35/31	42/39/31	47/45/39
Outdoor fan motor					
Input	W	64/47	75/66	119/96	136/130
Capacitor	uF	3	2.5 / 6.0	2.5	2.5
Speed	r/min	860 / -- / 660	940 / -- / 835	860 / -- / 680	930 / -- / 830
Airflow	m^3/h	1,400	1,900	2,300	2,700
	CFM	825	1115	1355	1590
Noise level (Hi/Mi/Lo)	dB(A)	56	55	59	59
Refrigerant Data Refrigerant Charge	g	900g	650g	850g	1180g
	oz	31.8	22.93	29.9	41.6
Refrigerant Type		R-410A	R-410A	R-410A	R-410A
Design pressure	kPa	3890/ 2445	3890/ 2445	3890/ 2445	3890/ 2445
	MPa	550/340 PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG
Connection wiring		16# (Optional)	16# (Optional)	16# (Optional)	16# (Optional)
Thermostat type		Remote Control	Remote Control	Remote Control	Remote Control
Operation temperature (cooling/ heating) (F &°C)	Indoor	≥17C/62.6F	≥17C/62.6F	≥17C/62.6F	≥17C/62.6F
	Outdoor	-15C --50C/ 5F~122F	-15C --50C/ 5F~122F	-15C --50C/ 5F~122F	-15C --50C/ 5F~122F
Application area	ft^2 / m^2	--- / 13-22	--- / 18-29	--- / 26-44	--- / 32-53
Qty'per 20' /40' /40'HQ		111/252/290	111/239/273	96/200/231	70/143/158

Heat Pump Units

Indoor Model Outdoor Model		MSH092E15AX MSH092E15MC	MSH123E15AX MSH123E15MC	MSH183E15AX MSH183E15MC	MSH243E15AX MSH243E15MC
Capacities					
Cooling/Heating	Btu/h	9,000 / 9,000	1,200 / 1,200	1,800 / 1,800	22,000 / 22,000
SEER / EER		14.5 / 9	15 / 9	15 / 9	15 / 9
HSPF		8.2	8.2	8.2	8.2
Electrical Data					
Power supply	Ph-V-Hz	115V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph
Min. Circuit Amps	A	19	10	14	16
Max Fuse	A	30	15	20	25
Moisture Removal	L/h	1	1.2	1.8	2.4
Compressor Type		Rotary	Rotary	Rotary	Rotary
Indoor fan motor					
Blower RLA		0.63	0.23	0.36	0.56
Blower LRA		63	51	74.4	124
Input	W	46	43	58.5	80.5
Capacitor	uF	3	1.5	1.5	3
Speed (Hi/Mi/Lo)	r/min	1200 / 1050 / 850	1200 / 1050 / 800	1250 / 1100 / 800	1200 / 1100 / 900
Airflow (Hi/Mi/Lo)	m^3/h	480/420/320	600/530/400	750/660/480	1250/1150/950
	CFM	285/245/185	355/310/235	440/385/285	735/675/560
Noise level (Hi/Mi/Lo)	dB(A)	39/35/29	39/35/31	42/39/31	47/45/39
Outdoor fan motor					
Input	W	64/47	75/66	119/96	136/130
Capacitor	uF	3	2.5 / 6.0	2.5	2.5
Speed	r/min	860 / -- / 660	940 / -- / 835	860 / -- / 680	930 / -- / 830
Airflow	m^3/h	1,400	1,900	2,300	2,700
	CFM	825	1115	1355	1590
Noise level (Hi/Mi/Lo)	dB(A)	56	55	59	59
Refrigerant Data Refrigerant Charge	g	900g	650g	850g	1180g
	oz	31.8	22.93	29.9	41.6
Refrigerant Type		R-410A	R-410A	R-410A	R-410A
Design pressure	kPa	3890/ 2445	3890/ 2445	3890/ 2445	3890/ 2445
	MPa	550/340 PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG
Connection wiring		16# (Optional)	16# (Optional)	16# (Optional)	16# (Optional)
Thermostat type		Remote Control	Remote Control	Remote Control	Remote Control
Operation temperature (cooling/ heating) (F &°C)"	Indoor	≥17C/ ≤30C / ≥62.6F/ ≤86F	≥17C/ ≤30C / ≥62.6F/ ≤86F	≥17C/ ≤30C / ≥62.6F/ ≤86F	≥17C/ ≤30C / ≥62.6F/ ≤86F
	Outdoor	-15C --24C/ 5F~70F	-15C --24C/5F~70F	-15C --24C/ 5F~70F	-15C --24C/ 5F~70F
Application area Qty'per 20' /40' /40'HQ	ft^2 / m^2	13-22	18-29	26-44	32-53
		111/252/290	111/239/273	96/200/231	70/143/158

IMPRESSIVE FEATURES & BENEFITS:

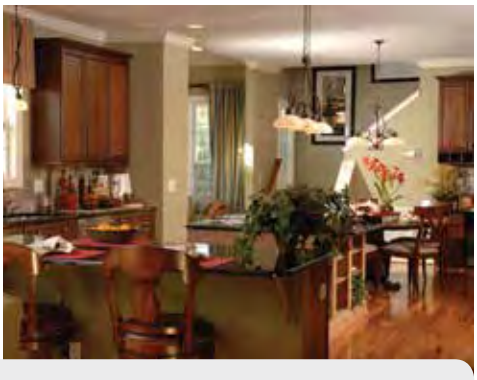
GOODMAN® BRAND HIGH-EFFICIENCY MINI-SPLITS WITH INVERTER TECHNOLOGY

DC INVERTER

- High-Efficiency Performance Up To 15 SEER
- Chlorine-Free R-410A Refrigerant
- DC Inverter Technology Compressor
- Sleep Mode Setting (7 Hours Off-Cycle)
- Louver Position Memory
- Turbo Settings for Fast Heating or Cooling
- Cold Catalyst Filter
- Easy-Clean Indoor Exterior Panels
- Bi-Directional Airflow for Optimal Air Distribution
- Auto-Restart Temperature Setting (Remote memory automatically set thermostat at last stored temperature setting.)

Goodman brand mini-splits use inverter compressor technology to maximize both performance and temperature control.

An inverter allows the mini-split to continuously regulate the thermal transfer refrigerant flow by altering the speed of the compressor in response to the thermostat's demand for heating and cooling. This technology eliminates the all-on/all-off or stop-start cycles of some non-inverter compressors. Eliminating stop-start cycles helps to increase compressor efficiency to extend the life of compressor components, and to help reduce sharp fluctuations in the electrical load placed on a home's electrical power supply by an air conditioner or heat pump.



WHY PAY MORE? BETTER VALUE EXCEPTIONAL QUALITY

OUTSTANDING WARRANTY* PROTECTION

5 YEAR COMPRESSOR LIMITED WARRANTY*

1 YEAR PARTS LIMITED WARRANTY*

* Complete warranty details available from your local dealer or at www.goodmanmfg.com.

GOODMAN – A MEMBER OF DAIKIN GROUP

Daikin Industries, Ltd. (DIL) is a Fortune 1000 company with more than 49,000 employees worldwide, making it the number one residential and commercial HVAC manufacturer in the world. Daikin is engaged primarily in the development, manufacture, sales and aftermarket support of heating, ventilation, air conditioning and refrigeration equipment, refrigerants and other chemicals, as well as oil hydraulic products. DIL is headquartered in Osaka, Japan, has manufacturing operations in 18 countries and a sales presence in more than 90 countries.

The company provides innovative, premium quality indoor climate management solutions to meet the changing needs of residential, commercial and industrial customers.

ADDITIONAL INFORMATION

Before purchasing this appliance, read important information about its estimated annual energy consumption, yearly operating cost, or energy efficiency rating that is available from your retailer.

Goodman®

a member of DAIKIN group

www.goodmanmfg.com

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