

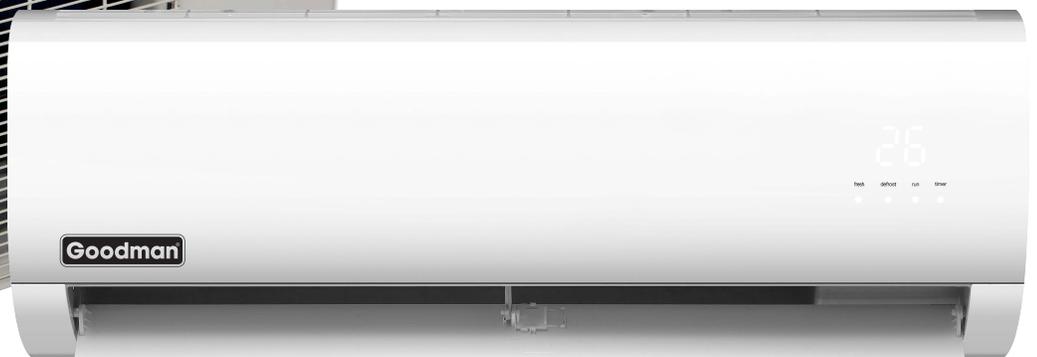
DUCTLESS MINISPLIT SYSTEMS

HIGH EFFICIENCY SYSTEMS FOR YOUR COMFORT

SEASONAL ENERGY EFFICIENCY RATING UP TO 22.5



Thank goodness
for Goodman.[®]





Did you know that with a ductless heat pump you can cool and heat your home? The ductless heat pump will improve the comfort of your home at a very reasonable cost. You could use it throughout the year. We offer a product range from 9,000 to 24,000 BTUs.

Goodman® is one of the biggest names in cooling, heating and energy-efficient home comfort. That’s because Goodman lives up to its name in a big way, with time-tested energy-efficient technology, highly-durable materials and spot-on manufacturing. So, no matter where you live or whether your home is small or large, Goodman probably has a solution to help keep your home warm and comfortable.

Energy efficient - Our equipment is equipped with the inverter technology, this technology brings high efficiency gains and ensures quieter operation, contributes to energy saving and improves your comfort.

Optimum comfort performance - Heating down to -25°C and air conditioning from 0°C to 50°C.

Eco-friendly - Our units work with R410A refrigerant to reduce the negative effects on the environment. It is a chlorine-free fluid that meets industry and EPA standards for environmental protection.



Cold Catalytic Filter - Our indoor units, with washable filters, eliminate VOC's and other harmful gases as well as odors.

ENERGY STAR® – Our 21 SERIES is ENERGY STAR certified on most configurations. This will provide an energy-efficient system thus reducing our electricity usage.



Warranty - We provide a 5 years limited warranty on the compressor and 1 year for parts for the original owner. An extended warranty of up to 10 years with labor is available through our partner: PRIME Warranty.



EXTENDED WARRANTY PLANS AVAILABLE - For even more peace of mind, ask your retailer for details about the Prime^{mc} Warranty, an affordable extended warranty plan with coverage of up to 10 years for parts and labor⁽¹⁾.

PROPOSED PLANS⁽¹⁾

- ___ 5 years compressors & parts
- ___ 5 years compressors, parts & labor
- ___ 10 years compressors & parts
- ___ 10 years compressors, parts & labor

15 SERIES

The 15 SERIES, available as an air conditioner or heat pump, combines the advantages of a low-cost installation while contributing to your comfort. The main benefit is that it provides energy-efficient, on-demand comfort that is flexible, simple to install and easy to maintain in comparison to a central HVAC approach.

21 SERIES

The 21 SERIES is designed to provide you with an energy efficient and affordable solution to ensure your comfort all year long. The 21 SERIES utilizes a combination of efficient technologies to achieve up to a 22.5 SEER rating, reducing electricity usage and lowering your electric bill.



Various configurations are available to you so that you can create a unique environment according to your needs. It will allow you to connect up to four indoor units per condenser as if you had a central conditioning system, with all the advantages of a ductless system.

⁽¹⁾ Extended warranty plans are available through Prime Warranty, a non-Goodman company, through our participating retailers. If you have any questions regarding your extended warranty plan or any claims, please contact your dealer or Premium Warranty at (855) 595-6302.

15 SERIES | DUCTLESS HEAT PUMP & AIR CONDITIONER

SEASONAL ENERGY EFFICIENCY RATING, UP TO 15.5 | HAUTE EFFICIENCY | INVERTER



Air Conditioning & Heating

Capacities: 9000, 12000, 18000 and 24000 BTU in air conditioning

Capacities: 12000, 18000 and 24000 BTU in heating

Indoor Equipments Main Features :

- Modes: cooling, heating, dehumidification, ventilation
- Shutter control (fixed or oscillating)
- Energy saving function
- Standby mode



Outdoor Equipments Main Features :

- Modulation operation with our inverter technology
- Energy saving function
- Standby Mode
- Heating capacity up to -15°C
- Cooling operating range 0°C ~ 50°C
- Heating operating range -15°C ~ 30°C

Controls :

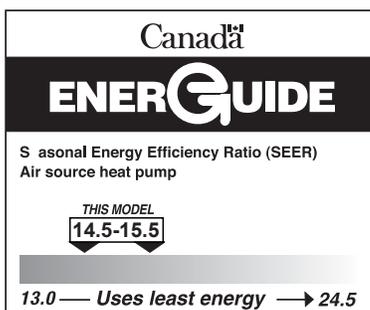
- Wireless remote control included with the indoor unit

Warranty :

- 5 years for compressor and 1 year for parts
- Extended protection plan up to 10 years available

5 COMPRESSOR
YEAR LIMITED
WARRANTY*

1 PARTS
YEAR LIMITED
WARRANTY*



PERFORMANCE 15 SERIES

UP TO
15.5
SEER

UP TO
8.5
HSPF

UP TO
10
EER

When properly installed, these ductless systems provide energy efficiency up to 15.5 SEER, heating performance up to 8.5 HSPF, and up to 10 EER.

15 SERIES | SINGLE-ZONE | DUCTLESS AIR CONDITIONER



UP TO 15 SEER | HIGH-EFFICIENCY | INVERTER

Air Conditioning & Heating

INDOOR UNIT			MSC093E15AXAA	MSC123E15AXAA	MSC183E15AXAA	MSC243E15AXAA
OUTDOOR UNIT			MSC093E15MCAA	MSC123E15MCAA	MSC183E15MCAA	MSC243E15MCAA
Power supply		V - Hz - Ph	208-230V - 60Hz - 1Ph	208-230V - 60Hz - 1Ph	208-230V - 60Hz - 1Ph	208-230V - 60Hz - 1Ph
Cooling	Capacity	Btu/h	9000	12000	18000	23000
	Input	W	818	1087	1783	2267
	Rated current	A	3.71	4.79	8.01	
	EER	W/W	3.224632177	3.235509501	2.958776355	2.973495553
	SEER	W/W	15	15	15	15
Min. amp.		A	7	7	11	16
Max. fuse		A	15	15	15	25
Compressor	Model		ASK89D53UEZ	ASN98D22UFZ	ASM135D23UFZ	ATF235D22UMT
	Type		ROTARY	ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC
	Capacity	Btu/h	9010	10014	13836	24345
	Input	W	671	748	1035	1970
	Rated current(RLA)	A	2.2	5.35	7.32	6.95
	Locked rotor Amp(LRA)	A	3.5			
Refrigerant oil / oil charge	ml	SUNISO 46SD / NM56EP 280	ESTER OIL VG74 / 370	ESTER OIL VG74 / 450	POE (VG74) / 670	
Indoor fan motor	Model		YKFG-20-4-10L	YKFG-20-4-10L	YKFG-28-4-6-5	YKFG-45-4-13
	Input	W	47.4	47.4	58.5	89
	RLA	A	0.25	0.25	0.4	0.45
	Capacitor	uF	1.5	1.5	1.5	3.0
Indoor air flow (Hi / Mi / Lo)		m3/h	435 / 347 / 282	535 / 410 / 298	721 / 581 / 434	955 / 761 / 577
Indoor air flow (Hi / Mi / Lo)		CFM	256 / 204 / 166	315 / 241 / 175	424 / 342 / 255	562 / 448 / 340
Indoor noise level (Hi / Mi / Lo)		dB(A)	40.7 / 35.4 / 29.3	42.7 / 36.6 / 31.5	44.6 / 38.7 / 33.4	46.4 / 40.9 / 35.0
Indoor Unit	Dimension (W*D*H)	mm	715 x 194 x 285	805 x 194 x 285	957 x 213 x 302	1040 x 220 x 327
	Packing (W*D*H)	mm	780 x 270 x 360	870 x 270 x 360	1035 x 295 x 380	1120 x 405 x 310
	Net / Gross weight	Kg	7.3 / 9.5	8.1 / 10.3	10.6 / 14.2	13.7 / 17
Outdoor fan motor	Model		YKT-32-6-3L	YKT-32-6-3L	YKT-48-6-206	YKT-63-6-200L
	Input	W	78.5 / 63	78.5 / 63	91.8 / 79.2	136 / 130
	Capacitor	uF	2.5	2.5	3	3
	Speed	r/min	860 / -- / 740	860 / -- / 740	890 / 830	930 / -- / 830
Outdoor noise level		dB(A)	54.3	56.7	58.4	56.4
Outdoor Unit	Dimension (W*D*H)	mm	770 x 300 x 555	770 x 300 x 555	770 x 300 x 555	845 x 363 x 702
	Packing (W*D*H)	mm	900 x 345 x 585	900 x 345 x 585	900 x 345 x 585	965 x 395 x 765
	Net / Gross weight	Kg	26.5 / 28.9	27.5 / 30	31.7 / 34.1	47.5 / 50.7
Refrigerant type		g	R410A / 499	R410A / 561	R410A / 910	R410A / 1199
Design pressure		PSIG	550 / 340	550 / 340	550 / 340	550 / 340
Refrigerant piping	Liquid side / Gas side	mm (inch)	Φ6.35 / Φ9.52 (1/4" / 3/8")	Φ6.35 / Φ12.7 (1/4" / 1/2")	Φ6.35 / Φ12.7 (1/4" / 1/2")	Φ9.52 / Φ16 (3/8" / 5/8")
	Max. refrigerant pipe length	m	25	25	30	30
	Max. difference in level	m	10	10	20	20
Thermostat type				Remote Control	Remote Control	Remote Control
Operation temperature	Indoor (cooling / heating)	°C	17 ~ 32	17 ~ 32	17 ~ 32	17 ~ 32
	Outdoor (cooling / heating) - optional	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
Application area (cooling standard)		m ²	12-18	16-23	24-35	31-45
Qty' per 20' / 40' / 40'HQ		set	115 / 240 / 260	104 / 210 / 240	92 / 200 / 224	66 / 140 / 154

15 SERIES | SINGLE-ZONE | DUCTLESS HEAT PUMP

UP TO 15 SEER | HIGH-EFFICIENCY | INVERTER



Air Conditioning & Heating

OUTDOOR UNIT			MSH123E15AXAA	MSH183E15AXAA	MSH243E15AXAA
INDOOR UNIT			MSH123E15MCAA	MSH183E15MCAA	MSH243E15MCAA
Power supply		Ph - V - Hz	208-230V - 60Hz - 1Ph	208-230V - 60Hz - 1Ph	208-230V - 60Hz - 1Ph
Cooling	Capacity	Btu/h	12000	18000	24000
	Input	W	1263	2000	2667
	Rated current	A	5.5	8.7	11.6
	EER	Btu/w	9.5	9	9
	SEER	Btu/w	15	15	15
Heating	Capacity	Btu/h	12000	18000	24000
	Input	W	1172	2029	2512
	Rated current	A	5.1	8.8	10.9
	COP	W/W	3.0	2.6	2.8
	HSPF4	Btu/w	8.5	8.5	8.5
	HSPF5	Btu/w	7.2	7.2	7.2
Min. amp.		A	15	15	18
Max. fuse		A	15	20	25
Compressor	Model		ASN98D22UFZ	ASM135D23UFZ	ATF235D22UMT
	Type		ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC
	Capacity	Btu/h	10014	13836	24344
	Input	W	748	1035	1970
	Refrigerant oil / oil charge	ml	ESTER OIL VG74-370	VG74 / 450	ESTER OIL VG74 / 670
Indoor fan motor	Model		YKT-32-6-3L	YKFG-28-4-6	YKT-63-6-200L
	Brand		Welling	Welling	Welling
Indoor air flow (Hi / Mi / Lo)		CFM	350 / 310 / 240	440 / 390 / 280	740 / 680 / 560
Indoor noise level (Hi / Mi / Lo)		dB(A)	39 / 35 / 31	42 / 39 / 31	49 / 45 / 39
Indoor Unit	Dimension (W*D*H)	mm	805 x 285 x 194	957 x 302 x 213	1040 x 327 x 220
	Packing (W*D*H)	mm	870 x 365 x 270	1020 x 375 x 283	1125 x 407 x 290
	Net / Gross weight	Kg	7½ / 9½	9 / 11½	12 / 15
Outdoor fan motor	Model		YKT-32-6-3L	YKT-48-6-206	YKT-63-6-200L
	Brand		Welling	Welling	Welling
	Input	W	32 (Output)	48 (Output)	63 (Output)
Outdoor air flow		m³/h	1900	2500	2700
Outdoor air flow		CFM	1120	1470	1590
Outdoor noise level		dB(A)	57	57.5	59
Outdoor Unit	Dimension (W*D*H)	mm	770x300x555	800 x 333 x 554	845x363x702
	Packing (W*D*H)	mm	900 x 345 x 585	920 x 390 x 615	965 x 395 x 755
	Net / Gross weight	Kg	29½ / 32	36½ / 39½	62 / 66½
Refrigerant type		g	R410A / 961	R410A / 1500	R410A / 1800
Refrigerant precharge		ft	25	25	25
Additional charge for each ft		oz	0.161	0.161	0.322
Design pressure		PSIG	550 / 340	550 / 340	550 / 340
Refrigerant piping	Liquid side / Gas side	mm (inch)	Φ6.35 / Φ12.7 (¼" / ½")	Φ6.35 / Φ12.7 (¼" / ½")	Φ9.52 / Φ15.9 (⅜" / ⅝")
	Max. refrigerant pipe length	m	25	30	30
	Max. difference in level	m	10	20	20
Connection wiring			16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded
Thermostat type			Remote Control	Remote Control	Remote Control
Operation temperature	Indoor (cooling / heating)	°C	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30	17 ~ 32 / 0 ~ 30
	Outdoor (cooling / heating) - optional	°C	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30	-15 ~ 50 / -15 ~ 30
Application area (cooling standard)		m²	16 - 23.4	23.3 - 34.2	30.6 - 44.9
Qty/per 20' /40' /40'HQ		set	105 / 220 / 240	78 / 170 / 195	67 / 135 / 152

Our continuing commitment to quality products may mean a change in specifications without notice.

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PM-DUCTHPC-G 11-17

21 SERIES | DUCTLESS HEAT PUMP

SEASONAL ENERGY EFFICIENCY RATING, UP TO 22.5

HIGH EFFICIENCY | INVERTER

Capacities: 12000, 18000 and 24000 BTU in heating
Energy Star rated on all combinations except ducted units

Indoor Equipments Main Features :

- Modes: cooling, heating, dehumidification, ventilation
- Shutter control (fixed or oscillating)
- Energy saving function
- Standby mode

Outdoor Equipments Main Features :

- Modulation operation with our inverter technology
- Energy saving function
- Standby Mode
- Heating capacity up to -25°C
- Cooling operating range 0°C ~ 50°C
- Heating operating range -25°C ~ 30°C
- Factory installed drain pan heater
- Factory installed

Controls :

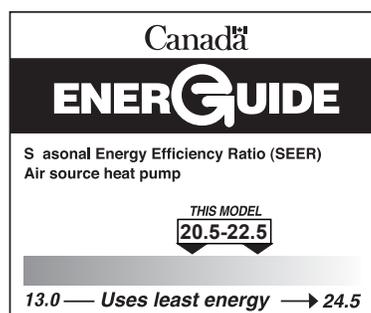
- Wireless remote control included with the indoor unit

Warranty :

- 5 years for compressor and 1 year for parts
- Extended protection plan up to 10 years available

5 COMPRESSOR
YEAR LIMITED
WARRANTY*

1 PARTS
YEAR LIMITED
WARRANTY*



Goodman

Air Conditioning & Heating



Wallmount



Ceiling Cassette



Ducted



PERFORMANCE 21 SERIES

UP TO
22.5
SEER

UP TO
10.3
HSPF

UP TO
13
EER

When properly installed, these ductless systems provide energy efficiency up to 22.5 SEER, heating performance up to 10.3 HSPF, and up to 13 EER.

SINGLE-ZONE | DUCTLESS HEAT PUMP

UP TO 21.5 SEER | HIGH-EFFICIENCY | INVERTER



Air Conditioning & Heating

OUTDOOR UNIT			MSH123E21MCA*	MSH183E21MCA*	MSH243E21MCA*
INDOOR UNIT			MSH123E21AXA*	MSH183E21AXA*	MSH243E21AXA*
Power supply		Ph-V-Hz	208-230V-60Hz, 1Ph	208-230V-60Hz, 1Ph	208-230V-60Hz, 1Ph
Cooling	Capacity	Btu/h	12000	18000	24000
	Input	W	923	1384	1920
	Rated current	A	4.05	6.1	8.4
	EER	Btu/w	13	13	12.5
	SEER	Btu/w	21.5	20.8	20.5
Heating	Capacity	Btu/h	12000	18000	25000
	Input	W	1085	1570	2315
	Rated current	A	4.72	6.82	10.1
	COP	W/W	3.24	3.36	3.17
	HSPF4	Btu/w	9.8	10	10
	HSPF5	Btu/w	7.7	8	8.3
Min. amp.		A	15	15	15
Max. fuse		A	15	20	25
Speed (Hi / Mi / Lo)		r/min	1080 / 850 / 650	1000 / 800 / 700	1100 / 900 / 700
Indoor air flow (Hi / Mi / Lo)		CFM	306 / 212 / 147	559 / 365 / 306	618 / 471 / 324
Indoor noise level (Hi / Mi / Lo)		dB(A)	39 / - / 25	45.5 / - / 34.5	50 / - / 35.5
Indoor dimension (W*D*H)		inch	31.57 x 7.44 x 11.69	42.52 x 8.90 x 13.19	42.52 x 8.90 x 13.19
Outdoor air flow		CFM	1120	1470	2355
Outdoor noise level		dB(A)	57.5	61	61
Outdoor dimension (W*D*H)		inch	31.50 x 13.11 x 21.81	33.27 x 14.29 x 27.64	40.55 x 16.54 x 31.89
Refrigerant type		oz	R-410A / 40.6	R-410A / 68.8	R-410A / 82.9
Refrigerant recharge		ft	25	25	25
Additional charge for each ft		oz	0.161	0.161	0.322
Refrigerant piping	Liquid / Gas side	mm (inch)	(1/4" / 1/2")	(1/4" / 1/2")	(3/8" / 5/8")
	Max. pipe length	ft	82	98	164
	Max. difference in height	ft	33	66	82
Connection wiring			16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded
Thermostat type			Remote control	Remote control	Remote control
Operation temperature	Indoor (cooling / heating)	°C	17-32 / 0-30	17-32 / 0-30	17-32 / 0-30
	Outdoor (cooling / heating) - optional	°C	-25-50 / -15-30	-25-50 / -15-30	-25-50 / -15-30
ENERGY STAR® Certified ¹			YES	YES	YES

¹ Proper sizing and installation of equipment is critical to achieving optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit www.energystar.gov

MULTI-ZONE | DUCTLESS HEAT PUMP

UP TO 22.5 SEER | HIGH-EFFICIENCY | INVERTER



Air Conditioning & Heating

AMOUNT OF ZONE			2	2-3	2-3-4
OUTDOOR UNIT			MST183E21MCA*	MST273E21MCA*	MST363E21MCA*
INDOOR UNIT	WALL		MSH--3E21AXA*	MSH--3E21AXA*	MSH--3E21AXA*
	DUCT		MST--3E20ADA*	MST--3E20ADA*	MST--3E20ADA*
	CASSETTE		MST--3E20ACA*	MST--3E20ACA*	MST--3E20ACA*
Power supply		Ph-V-Hz	208-230V-60Hz, 1Ph	208-230V-60Hz, 1Ph	208-230V-60Hz, 1Ph
Cooling	Capacity	Btu/h	17000	27000	36000
	EER	Btu	12.5	12.0	10.9
	SEER		21.3	22.0	22.5
Heating at 47°F	Capacity	Btu/h	18000	28000	36000
	COP		3.7	3.7	3.1
	HSPF4		10	9.8	10.3
	HSPF5		8.6	8.0	9.0
Heating at 17°F	Rated capacity	Btu/h	11800	16800	25400
Heating at 5°F (-15°C)	Maximum capacity	Btu/h	14200	20900	28800
Minimum circuit ampacity		A	18.0	25.0	30.0
Max. Fuse	Amperage	A	25.0	35.0	45.0
	Capacity	Btu/h	15388	24345	32380
	Input	W	1170	1970	2600
	Rated current (RLA)	A	10	20.00	22.00
	Input	W	115	150	150
	RLA	A	0.74	0.9	1.3
Outdoor air flow		CFM	1390	2130	2130
Outdoor noise level		dB(A)	62.4	63.4	62.3
Outdoor unit	Dimension (W*D*H)	mm	845 x 363 x 702	946 x 410 x 810	946 x 410 x 810
	Dimension (W*D*H)	inch	33.27 x 14.29 x 27.64	37.24 x 16.14 x 31.89	37.24 x 16.14 x 31.89
	Packing (W*D*H)	mm	965 x 395 x 755	1090 x 500 x 875	1090 x 500 x 875
	Packing (W*D*H)	inch	37.99 x 15.55 x 29.72	42.91 x 19.69 x 34.45	42.91 x 19.69 x 34.45
	Net / Gross weight	Kg	48 / 52	68 / 73	71 / 76
	Net / Gross weight	lbs.	105.82 / 114.64	149.91 / 160.94	156.53 / 167.55
Refrigerant type		oz	R-410A / 70.5	R-410A / 98.8	R-410A / 105.8
Refrigerant precharge (total pipe length)		ft	25	25	25
Additional charge for each ft		oz	0.161	0.161	0.161
Design pressure		PSIG	550 / 340	550 / 340	550 / 340
Refrigerant piping	Liquid side / Gas side	mm (inch)	2 x Ø6.35 / Ø9.52 (1/4" / 3/8")	3 x Ø6.35 / Ø9.52 (1/4" / 3/8")	4 x Ø6.35 / 3 x Ø9.52 + 1 x Ø12.7 (4 x 1/4" / 3 x 3/8" + 1 x 1/2")
	Max. length for all rooms	m	30	45	60
	Max. length for all rooms	ft	98	148	197
	Max. length for one indoor unit	m	25	30	35
	Max. length for one indoor unit	ft	82	98	115
	Max. height difference between indoor and outdoor unit	m	15	15	15
		ft	49	49	49
	Max. height difference between indoor units	m	10	10	10
Max. height difference between indoor units	ft	33	33	33	
Connection wiring			NO	NO	NO
Ambient temperature	Cooling	°C	-25-50	-25-50	-25-50
	Cooling	°F	-13-122	-13-122	-13-122
	Heating	°C	-25-30	-25-30	-25-30
	Heating	°F	-13-86	-13-86	-13-86
Quantity per 20' / 40' / 40'HQ		Outdoor unit	102 / 216 / 216	44 / 96 / 144	44 / 96 / 144

ONCE YOU CHOOSE THE GOODMAN® BRAND, YOU'LL PROBABLY BE A FAN FOR LIFE.



Millions of homeowners across North America are big fans already.
YOU COULD BECOME ONE, TOO!



GOODMAN — A MEMBER OF DAIKIN GROUP

Daikin Industries, Ltd. (DIL) is a global Fortune 1000 company. It is a worldwide leader for residential and commercial HVAC. DIL is engaged primarily in the development, manufacture, sale, 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.

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.

AUTHORIZED DEALER :

Goodman®

a member of **DAIKIN** group

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All systems are tested and approved by the relevant organizations.

