

HEAT PUMP AND AIR CONDITIONER  
DUCTLESS UNITS  
SINGLE AND MULTI-ZONE

UP TO 22.5 SEASONAL ENERGY-EFFICIENCY RATING  
WITH INVERTER TECHNOLOGY

AMBIENT OPERATING TEMPERATURE -25° C TO 50° C

**Goodman®**

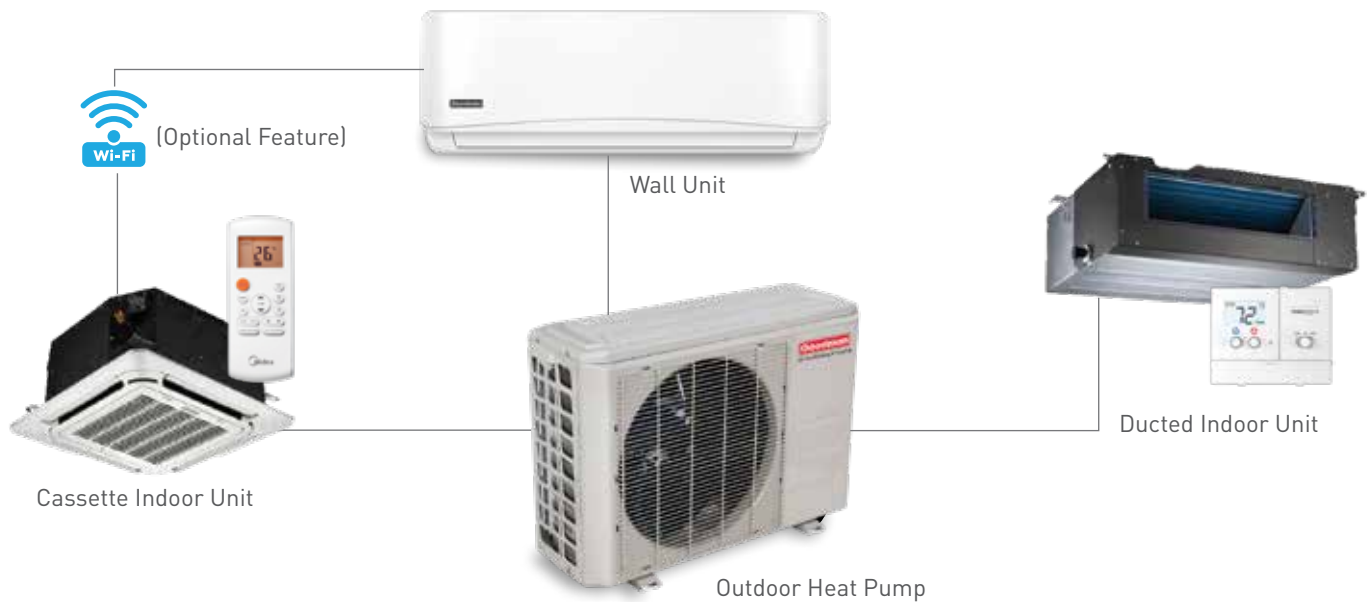
Air Conditioning & Heating

**THERM LUX**



Thank goodness  
for Goodman.®





Enjoy whole-home comfort with a **Goodman®** brand ductless heat pump or air conditioner.

Did you know that you could heat and cool your whole house with a ductless (also called mini-split) heat pump? Ductless solutions are versatile and minimal in design, creating opportunities for personalized heating and cooling solutions.

### 19 SERIES Models

The 19 Series is available as an air conditioner or heat pump model. Affordable and convenient, Goodman ductless systems offer quiet operation that will help enhance every day comfort.

### 21 SERIES, Single and Multi-Zone Models












The 21 Series models are designed to help provide an energy-efficient and affordable solution to help ensure year-round indoor comfort. Technologically advanced "Inverter" technology offers superior comfort while saving energy. The heat pump will even help keep you comfortable when the outside temperature is as low as - 25° C. The 21 Series also provide the ability to heat or cool up to four spaces independently with one outdoor unit.

## Goodman® is one of the biggest names in home cooling, heating and energy-efficient home comfort.

So, no matter where you live or whether your home is small or large, Goodman probably has a solution to help keep your home comfortable.

### Energy-Efficient

Goodman branded units are built with the variable-speed Inverter technology to gradually regulate indoor temperatures that may help to provide efficient and even temperature control all year long. They are an energy efficient and flexible solution to help regain control of your indoor comfort and help address a variety of heating and cooling challenges. With duct work not required, the conditioned air is delivered to you directly.

	19 Series	21 Series
 <b>Cold Catalyst Filter</b> – Absorbs harmful particles like formaldehyde and ammonia	•	•
 <b>Turbo Mode</b> – Helps to increase the heat pump's capacity to achieve desired temperature quickly	•	•
 <b>Quiet Mode</b> – Non-intrusive operation of the indoor unit by removing sounds and display	•	•
 <b>Follow Me</b> – Improved accuracy may be obtained by making your heat pump's remote act as the sensor. (Available on HP models only)	•	
 <b>Low temperature capacity</b> – Unit has the ability to work in outdoor cold temperatures down to -25C (Available on HP models only)		•
 <b>Aluminum heat exchanger with hydrophilic coating</b> – The unit's heat exchanger will not allow mold or bacteria to form by helping to remove water drops.	•	•
 <b>Anti-Cold</b> – Preheat mode preheats indoor air for increased comfort	•	•
 <b>Refrigerant Leakage Detection</b> – Indoor unit has the ability to notify homeowner if there is a leak in the system.	•	•
 <b>Louver Memory</b> – Remembers your previous louver position, so you get the same louver angle consistently	•	•
 <b>Auto-Restart</b> – Equipped with auto-restart after a power loss	•	•
 <b>1W Standby</b> – This intelligent on-off technology enables the ductless units to automatically enter energy-saving mode when on standby, cutting energy consumption from the normal 5W to 1W.	•	•

# 21 SERIES | SINGLE-ZONE HEAT PUMP

ENERGY-EFFICIENCY RATING UP TO 21.5 SEER  
AMBIENT OPERATING TEMPERATURE -25° C to 50° C



OUTDOOR UNIT SINGLE ZONE				MSH123E21MCAA	MSH183E21MCAA	MSH243E21MCAA
INDOOR WALL MOUNT UNIT			MSH093E21AXAA	MSH123E21AXAA	MSH183E21AXAA	MSH243E21AXAA
INDOOR DUCTED UNIT				MST123E21ADAA	MST183E21ADAA	MST243E21ADAA
INDOOR CASSETTE UNIT				MST123E20ACAA	MST183E20ACAA	
Cooling	Capacity [range]	Btu/h	9,000 [/~]/	12,000 [3,800 ~12,800]	18,000	24,000
	Input	W	640	923	1,384	1,920
	Rated current	A	2.9	4.1	6.1	8.4
	EER	Btu/w	14	13	13.0	12.5
	SEER	Btu/w	22.8	21.5	20.8	20.5
Heating	Capacity [range]	Btu/h	9,800 [/~11,500]	12,000 [4,500~13,100]	18,000 [/~18,800]	25,000 [/~27,500]
	Input	W	930	1,085	1,570	2,315
	Rated current	A	4.2	4.72	6.8	10.1
	COP	W/W	3.08	3.24	3.36	3.16
	HSPF4	Btu/w	10.5	9.8	10.0	10
	HSPF5	Btu/w	8.6	7.7	8.0	8.3
Heating at 17° F [-8.33° C]	Maximum capacity	Btu/h	7,600	9,130	12,900	17,510
Heating at 5° F [-15° C]	Maximum capacity	Btu/h	7,300	8,000	11,500	15,500
Heating at -13° F [-25° C]	Maximum capacity	Btu/h	5,200	5,800	7,400	11,000
Minimum Circuit Ampacity		A	10	12	15.0	18
Max.Fuse		A	15	15	20	25
Power supply		Ph-V-Hz	208 / 230V, 1Ph, 60Hz			
	Refrigerant oil/oil charge	ml	RB74A F / 370	VG74 / 340	VG74 / 450	VG74 / 670
INDOOR UNITS (SINGLE-ZONE & MULTI-ZONE)						
Indoor unit airflow	wall mount	CFM	265 / 206 / 142	306 / 212 / 148	559 / 365 / 306	618 / 471 / 324
	Ducted	CFM	-	353 / 283 / 177	530 / 450 / 371	776 / 694 / 435
	Cassette	CFM	-	379 / 309 / 261	560 / 483 / 415	-
Indoor noise level (Hi/Mi/Lo)	wall mount	dB(A)	37/29/22	36.5 / 32 / 22.5	43 / 38 / 32	47.5 / 42 / 33
	Ducted	dB(A)	-	-	-	-
	Cassette	dB(A)	-	44 / 39 / 36	44 / 39 / 36	-
Indoor unit dimensions (LxDxH)	wall mount	inch	31.6 x 7.50 x 11.70	31.6 x 7.50 x 11.70	42.5 x 8.9 x 13.2	42.5 x 8.9 x 13.2
	Ducted	inch	-	27.60 x 17.75 x 7.9	34.65 x 28.55 x 8.30	43 x 30 x 10
	Cassette (unit)	inch	-	28.15 x 28.15 x 4.84	28.15 x 28.15 x 4.84	-
	Cassette (plastic cover)	inch	-	25.5 x 25.5 x 2	25.5 x 25.5 x 2	-
OUTDOOR UNITS						
Outdoor air flow		CFM	-	1,177	1,471	2,236
Outdoor noise level		dB(A)	-	40	58.5	58.5
	Dimension(W*D*H)	inch	-	31.50x13.11x21.81	33.27x14.29x27.64	37.24x16.14x31.89
Refrigerant type		oz	-	R410A / 40.6	R410A / 68.8	R410A / 82.9
Refrigerant precharge		ft	-	15	20	20
Additional charge for each ft		oz	-	0.16	0.21	0.21
Design pressure		PSIG	-	550 / 340	550 / 340	550 / 340
Refrigerant piping	Liquid side/ Gas side	mm(inch)	-	1/4 & 1/2	1/4 & 1/2	3/8 & 5/8
	Max. refrigerant pipe length	ft	-	82	98	164
	Max. difference in level	ft	-	33	66	82
Connection wiring		-	-	14 awg * 4		
Control type	wall mount	-	-	remote control	remote control	remote control
	Ducted	-	-	wall thermostat	wall thermostat	wall thermostat
	Cassette	-	-	remote control	remote control	-
Room temperature	Indoor(cooling/ heating)	° C	-	17 - 32 / 0 - 30	17 - 32 / 0 - 30	17 - 32 / 0 - 30
	Outdoor(cooling/heating)	° C	-	-15 - 50 / -25 - 30	-15 - 50 / -25 - 30	-15 - 50 / -25 - 30

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



Millions across North America are big fans already.

Once you choose a **Goodman** brand,  
you'll probably be a big fan, too!

See why others are saying, "**Thank Goodness for Goodman®.**"

For complete information on the **Goodman** brand, be certain to contact: your local distribution branches.

Ductless heat pumps exclusively available at the following three Goodman Distribution branches:



Goodman Distribution Branch  
965 Rue Bergar  
Laval, QC, H7L 4Z6  
T: 450-681-2220

Goodman Distribution Branch  
2640 Boul. Jacques Cartier est  
Longueuil, Quebec, J4N 1P8  
T: 450-674-3883

Goodman Distribution Branch  
155 rue Fortin, suite 140  
Québec, Qc, G1M 3M2  
T: 418-478-3495



\* Complete warranty details available from your local dealer  
or Goodman branches

## Extended service plans available

For even greater peace of mind contact your Goodman  
Distribution branch for more details on Prime, an affordable  
Parts and/or labor Extended Service  
Plan for your **Goodman** brand  
HVAC system coverage.



## 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.



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