

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



Air Conditioning & Heating

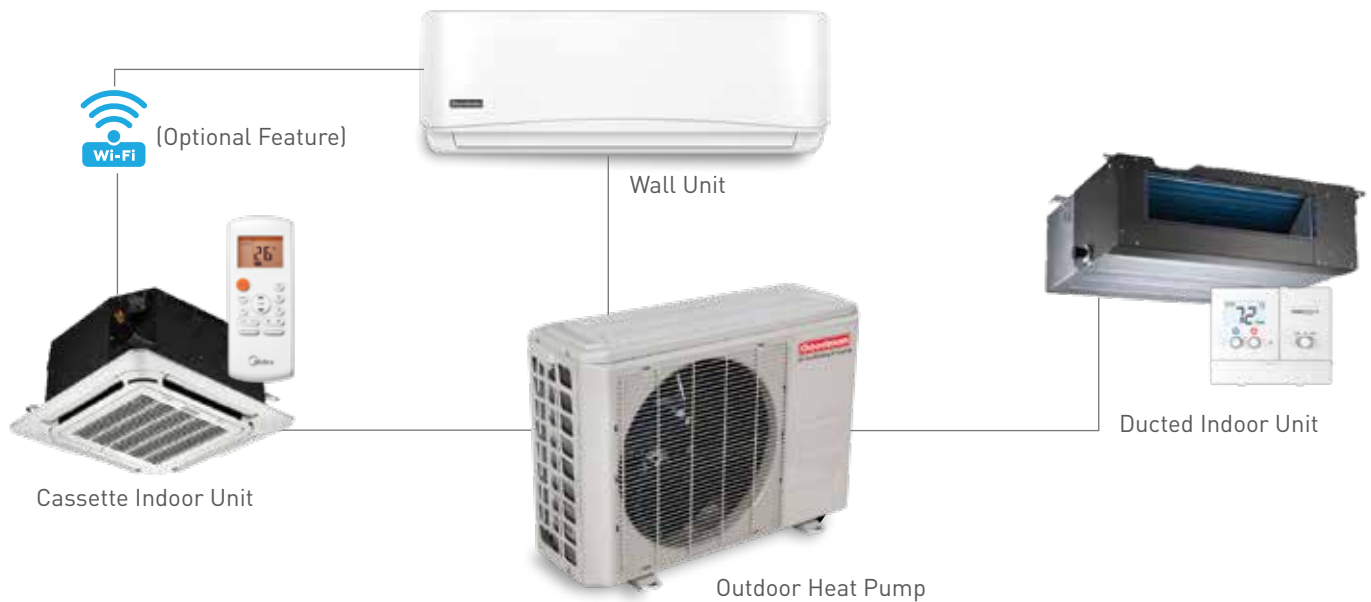
UP TO 22.5 SEASONAL ENERGY-EFFICIENCY RATING  
WITH INVERTER TECHNOLOGY

AMBIENT OPERATING TEMPERATURE -25° C TO 50° C



Thank goodness  
for Goodman.<sup>®</sup>





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> –Allows quicker water removal	•	•
 <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	•	•

# 19 SERIES | SINGLE ZONE AIR CONDITIONER

ENERGY-EFFICIENCY RATING UP TO 19 SEER  
 AMBIENT OPERATING TEMPERATURE -15° C to 50° C

INDOOR*			MSC093E19AXAA	MSC121E19AXAA	MSC123E19AXAA	MSC183E19AXAA	MSC243E19AXAA
OUTDOOR*			MSC093E19MCAA	MSC121E19MCAA	MSC123E19MCAA	MSC183E19MCAA	MSC243E19MCAA
Cooling	Capacity	Btu/h	9,000	12,000	11,500	17,000	22,000
	Input	W	812	1,200	1,037	1,533	1,960
	Rated Current	A	3.53	10.43	4.5	6.7	9.0
	EER	Btu/Wh	11.1	10.0	11.1	10.8	10.9
	SEER		19	16.5	19	20	19
Electricity	Minimum Circuit Ampacity	A	10	15	11	15	18
	Max Fuse		15	20	15	20	25
	Power Supply	V-Hz-Ph	208-230V-60Hz, 1Ph	115V-60Hz, 1Ph	208-230V-60Hz, 1Ph	208-230V-60Hz, 1Ph	208-230V-60Hz, 1Ph
	Wiring	16 awg / 4, stranded unshielded					
Air Flow (High / Med / Low)	Indoor	CFM	241 / 206 / 147	236 / 206 / 147	241 / 206 / 194	529 / 441 / 353	581 / 457 / 331
	Outdoor		1,230	1,176	1,230	1,194	1,824
Sound Level (High / Med / Low)	Indoor	dB(A)	38 / 32 / 26.5	38.5 / 33 / 24.5	37.5 / 34.5 / 24.5	42 / 34.5 / 30.5	46 / 40.5 / 34.0
	Outdoor		51.0	51.5	51.5	53.5	57.0
Dimensions (W x D x H)	Indoor	in	28.4 x 7.36 x 11.42	31.6 x 7.5 x 11.7	31.6 x 7.5 x 11.7	38 x 8.5 x 12.6	42.5 x 8.9 x 13.2
	Outdoor		30.3 x 11.8 x 21.85	30.3 x 11.8 x 21.85	30.3 x 11.8 x 21.85	30.3 x 11.8 x 21.85	33.3 x 14.3 x 27.7
Refrigerant	Type	oz	R410A / 17.6	R410A / 20.8	R410A / 18.7	R410A / 31.7	R410A / 40.9
	Precharge	ft	20	20	20	20	30
	Additional Charge Per Feet	oz	0.21	0.21	0.21	0.21	0.322
Piping	Liquid Side / Gas Side	in	1/4" / 3/8"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"
	Max Pipe Length	ft	82	82	82	98	98
	Max Difference In Level		33	33	33	66	66
Controls			Remote Control				
Ambient Operation Temperature	Indoor	° C	17 - 32				
	Outdoor		-15 - 50				

\* Consult AHRIDIRECTORY.ORG for the latest Performance Data (SEER, EER, HSPF and capacities). Subject to change without notice.



# 19 SERIES | SINGLE ZONE HEAT PUMP

ENERGY-EFFICIENCY RATING UP TO 19 SEER  
 AMBIENT OPERATING TEMPERATURE -15° C to 50° C

INDOOR UNIT*			MSH123E19AXAA	MSH183E19AXAA	MSH243E19AXAA	MSH303E17AXAA	MSH363E17AXAA
OUTDOOR UNIT*			MSH123E19MCAA	MSH183E19MCAA	MSH243E19MCAA	MSH303E17MCAA	MSH363E17MCAA
NEEP Cold Climate Air Source Heat Pump List**			No	Yes	No	No	No
Cooling	Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000
	Input	W	1,065	1,645	2,500	2,857	4,235
	Rated Current	A	4.5	7.35	11.0	12.5	18.5
	EER	Btu/Wh	11	11	9.5	10.5	8.5
	SEER		19.0	19.0	17.0	18.0	16.0
High Heat @ 47° F	Capacity	Btu/h	12,000	18,000	24,000	30,000	36,000
	Input	W	1,025	1,700	2,200	3,110	3,835
	Rated Current	A	4.3	7.4	9.6	13.5	16.7
	COP	W/W	3.43	3.1	3.2	2.83	2.75
	HSPF IV***	Btu/Wh	9.5	10.0	9.5	9.6	10
Electricity	Minimum Circuit Ampacity	A	15	15	20	20	25
	Max Fuse		15	20	25	30	35
	Power Supply	V-Hz-Ph	208-230V-60Hz, 1Ph				
	Wiring		16 awg /4 stranded, unshielded				
Air Flow (High / Med / Low)	Indoor	CFM	324 / 282 / 212	449 / 393 / 262	706 / 588 / 450	795 / 618 / 471	853 / 647 / 471
	Outdoor		1,176	1,176	1,823	2,530	2,943
Sound Level (High / Med / Low)	Indoor	dB(A)	38 / 32 / 24	43 / 35 / 30.5	48 / 42.5 / 34	52 / 44 / 35	52 / 44 / 36
	Outdoor		55.0	57.5	58.0	62.0	63.0
Dimensions (W x D x H)	Indoor	in	31.6 x 7.5 x 11.7	38 x 8.5 x 12.6	42.5 x 9 x 13.2	49.6 x 11.1 x 14.25	49.6 x 11.1 x 14.25
	Outdoor		31.5 x 13.1 x 21.8	31.5 x 13.1 x 21.8	33.3 x 14.3 x 27.7	37.25 x 16.14 x 31.9	37.25 x 16.14 x 31.9
Refrigerant	Type	oz	R410A / 29.6	R410A / 44.1	R410A / 62.79	R410A / 97.0	R410A / 119.9
	Precharge	ft	25				
	Additional Charge Per Feet	oz	0.161	0.161	0.322	0.322	0.322
Piping	Liquid Side / Gas Side	in	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
	Max Pipe Length	ft	82	98	98	164	213
	Max Difference In Level		33	66	66	82	98
Controls			Remote Control				
Ambient Operation Temperature	Indoor	° C	17 ~ 32 Cooling / 0 ~ 30 Heating				
	Outdoor		-15 ~ 50 Cooling / -15 ~ 30 Heating				
Design Pressure			PSIG 550 / 340				

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\*\* Consult NEEP website for current list: <https://neep.org/high-performance-air-source-heat-pumps/ccashp-specification-product-list>. Subject to change without notice.

\*\*\* Please visit NRCAN's searchable database for the corresponding HSPF Region V ratings:  
[https://oee.nrcan.gc.ca/pml-lmp/index.cfm?action=app.search-recherche&appliance=HP\\_SS](https://oee.nrcan.gc.ca/pml-lmp/index.cfm?action=app.search-recherche&appliance=HP_SS)



# 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*			MSH093E21AXAA (for Multi-Zone only)	MSH123E21MCAA	MSH183E21MCAA	MSH243E21MCAA
INDOOR WALL MOUNT UNIT*	NEEP-18 K**			MSH123E21AXAA	MSH183E21AXAA	MSH243E21AXAA
INDOOR DUCTED UNIT*	NEEP-12K & 18K**			MST123E21ADAA	MST183E21ADAA	MST243E21ADAA
INDOOR CASSETTE UNIT*	NEEP-12K & 18K**			MST123E20ACAA	MST183E20ACAA	
Cooling	Capacity (Wall/Duct/Cassette)	Btu/h	-	12,000	18,000	24,000
	Input (Wall/Duct/Cassette)	W	-	923 / 960 / 858	1,384 / 1,440 / 1,440	1,920 / 1,920 / -
	Rated Current (W/D/C)	A	-	4.1 / 4.4 / 3.9	6.1 / 6.6 / 6.59	8.4 / 8.8 / -
	EER (Wall/Duct/Cassette)	BTU/Wh	-	13 / 12.5 / 14	13 / 12.5 / 12.5	12.5 / 12.5 / -
	SEER (Non-Ducted Indoor Unit)	BTU/Wh	-	21.5 / 21.5 / 21.5	21 / 19 / 20	20.5 / 21.5 / -
High Heat (47° F)	Capacity (Wall/Duct/Cassette)	Btu/h	-	12,000	18,000	25,000 / 24,400 / -
	Input (W/D/C)	W	-	1085 / 1072 / 951	1,570 / 1,680 / 1,636	2,315 / 2,030 / -
	Rated Current (W/D/C)	A	-	4.72 / 5.05 / 4.2	6.8 / 7.7 / 7.49	10.1 / 9.3 / -
	COP (W/D/C)	W/W	-	3.24 / 3.29 / 3.7	3.36 / 3.14 / 3.22	3.16 / 3.52 / -
	HSPF IV (W/D/C)***	BTU/Wh	-	9.8 / 11.5 / 10.5	10 / 10.5 / 10.3	10 / 11 / -
Low Heat 17° F	Rated Capacity (Wall Mount)	Btu/h	-	7,200	10,400	15,300
	Rated Capacity (Slim Duct)	Btu/h	-	7,200	12,000	16,000
	Rated Capacity (Cassette)	Btu/h	-	7,500	12,000	-
Minimum Circuit Ampacity		A	-	12	15	18
Max.Fuse		A	-	15	20	25
Power Supply		Ph-V-Hz		208 / 230V, 1Ph, 60Hz		
INDOOR UNITS (SINGLE-ZONE & MULTI-ZONE)						
Indoor Unit Airflow	Wall Mount	CFM	265 / 206 / 141	306 / 212 / 147	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)	-	43 / 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	-	22.44 x 22.44 x 10.24	22.44 x 22.44 x 10.24	-
	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	1,470	2,237
Outdoor Noise Level		dB(A)	-	55	60	61
	Dimension (Wx D x H)	inch	-	31.50 x 13.11 x 21.81	33.27 x 14.29 x 27.64	37.24 x 16.14 x 31.89
Refrigerant Type		oz	-	R410A / 40.6	R410A / 68.8	R410A / 82.9
Refrigerant Precharge		ft	-	25	25	25
Additional Charge for each ft		oz	-	0.16	0.16	0.32
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				16 awg /4 stranded, unshielded		
Control Type	Wall mMount	-	-	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	-	-25 - 50 / -25 - 30	-25 - 50 / -25 - 30	-25 - 50 / -25 - 30

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\*\*\* Please visit NRCAN's searchable database for the corresponding HSPF Region V ratings: [https://oe.nrcan.gc.ca/pml-lmp/index.cfm?action=app.search-recherche&appliance=HP\\_SS](https://oe.nrcan.gc.ca/pml-lmp/index.cfm?action=app.search-recherche&appliance=HP_SS)

# 21 SERIES | MULTI-ZONE HEAT PUMP

ENERGY-EFFICIENCY RATING UP TO 22.5 SEER  
 AMBIENT OPERATING TEMPERATURE -25° C to 50° C

OUTDOOR UNIT*			MST183E21MCAA	MST273E21MCAA	MST363E21MCAA
INDOOR UNIT			See indoor models in single-zone section (wall mount, duct, cassette)		
NUMBER OF ZONES			2	3	4
NEEP Cold Climate Air Source Heat Pump List**			Yes	No	Yes
Cooling	Capacity (Non-Duct, All Duct)	Btu/h	17,000 / 18,000	27,000 / 28,000	36,000 / 36,000
	EER (Non-Duct, All Duct)	Btu/Wh	12.5 / 11.8	12 / 11	10.9 / 10
	SEER (Non-Duct, All-Duct)		21.3 / 18.5	22 / 21	22.5 / 21
High Heat (47° F)	Rated Capacity (Non-Duct, All-Duct)	Btu/h	18,000 / 18,500	28,000 / 28,000	36,000 / 37,000
	COP (Non-Duct, All-Duct)	W/W	3.7 / 3.8	3.7 / 3.63	3.1 / 3.56
	HSPF IV (Non-Duct, All-Duct)***	Btu/Wh	10 / 10	9.8 / 10	10.3 / 10
Low Heat (17° F)	Rated Capacity (Non-Duct, All-Duct)	Btu/w	11,800 / 11,500	16,800 / 17,600	25,400 / 23,000
Electricity	Minimum Circuit Ampacity	A	18	25	30
	Max Fuse		25	35	45
	Power Supply	V-Hz-Ph	208-230V-60Hz, 1Ph		
	Wiring		16 awg		
Outdoor Air Flow (High / Med / Low)		CFM	1,390	2,130	2,130
Outdoor Sound Level (High / Med / Low)		dB(A)	62.4	63.4	62.3
Outdoor Unit Dimensions (W x D x H)		in	33.27 x 14.29 x 27.64	37.24 x 16.14 x 31.89	37.24 x 16.14 x 31.89
Refrigerant	Type	oz	R410A / 70.5	R410A / 98.8	R410A / 105.8
	Precharge	ft	49	74	98
	Additional Charge Per Feet	oz	0.161	0.161	0.161
Piping	Liquid Side / Gas Side	in	[2 x 1/4] / [2 x 3/8]	[3 x 1/4] / [3 x 3/8]	[4 x 1/4] / [3 x 3/8]+1 x 1/2
	Max Pipe Length For All Rooms	ft	131	197	262
	Max Pipe Length Per Unit		82	98	115
	Max Level Difference Between Indoor & Outdoor Unit		49		
	Max Level Difference Between Indoor Units		33		
Outdoor Ambient Operation Temperature	° C		-25 ~ 50 Cooling / -25 ~ 30 Heating		
Design Pressure		PSIG	550 / 340		

RECOMMENDED MULTI-ZONE COMBINATIONS					
OUTDOOR UNITS*			INDOOR UNITS (1000 btu/h)		
MODEL NUMBER	CAPACITY	STANDARD COMBINATIONS	2 ZONES	3 ZONES	4 ZONES
MST183E21MCAA	18,000 BTU/H	Wall Mount and Ducted 9 + 9	9 + 9	-	-
			9 + 12		
			12 + 12		
MST273E21MCAA	27,000 BTU/H	Wall Mount and Ducted 9 + 9 + 9	9 + 9	9 + 9 + 9	-
			9 + 12	9 + 9 + 12	
			9 + 18	9 + 9 + 18	
			12 + 12	9 + 12 + 12	
			12 + 18	12 + 12 + 12	
			18 + 18		
MST363E21MCAA	36,000 BTU	Wall Mount and Ducted 9 + 9 + 9	9 + 9	9 + 9 + 9	9 + 9 + 9 + 9
			9 + 12	9 + 9 + 12	9 + 9 + 9 + 12
			9 + 18	9 + 9 + 18	9 + 9 + 9 + 18
			9 + 24	9 + 12 + 12	9 + 9 + 12 + 12
			12 + 12	9 + 12 + 18	9 + 9 + 12 + 18
			12 + 18	9 + 18 + 18	9 + 12 + 12 + 12
			12 + 24	12 + 12 + 12	12 + 12 + 12 + 12
			18 + 18	12 + 12 + 18	
				12 + 12 + 24	
				12 + 18 + 18	

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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

**5** COMPRESSOR  
**YEAR LIMITED**  
**WARRANTY\*** | **1** PARTS  
**YEAR LIMITED**  
**WARRANTY\***

\* 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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Northeast Energy Efficiency Partnerships



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**ENERGUIDE**

Seasonal Energy Efficiency Ratio (SEER)  
Ductless Air Conditioner

THIS MODEL  
**16.5 – 20.0**

13.0 — Uses least energy —> 27.0

Canada

**ENERGUIDE**

Seasonal Energy Efficiency Ratio (SEER)  
Ductless heat pump

THIS MODEL  
**16.0 – 22.5**

14.0 — Uses least energy —> 42.0