



**MOOVAIR®**

# CENTRAL-MOOV

Centrally ducted cold climate  
heat pump system



UP TO  
**19**  
SEER2

UP TO  
**8.6**  
HSPF2-5



HEATING  
PERFORMANCE  
DOWN TO  
**-30°C**

**HEAT+**

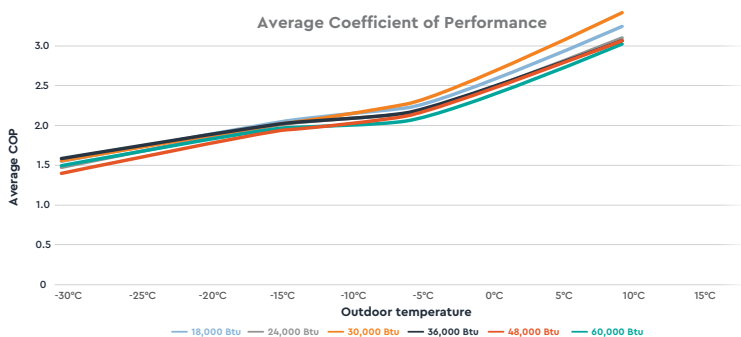


# Experience whole-home harmony

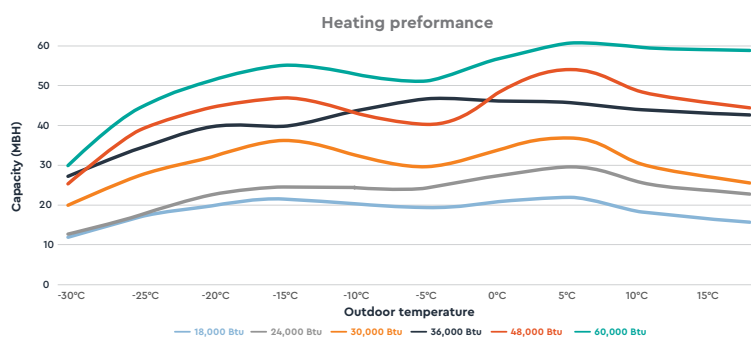
Moovair® products are designed for the Canadian climate with your comfort and well-being in mind. A Central-Moov cold climate heat pump system maintains the serenity of your home by providing whisper-quiet, energy-efficient comfort all year round.

## Epic performance

Central-Moov heat pump systems were built for epic performance with energy-saving HEAT+ and Inverter drive technology. Its outstanding operation has industry leading performance as well as recognition from organizations dedicated to the promotion of energy efficient appliances such as ENERGY STAR® and NEEP.



**HEAT+** Extreme cold weather is no match for Central-Moov. Heat+ technology delivers optimal heat at low temperatures with minimal energy consumption. Central-Moov systems can achieve **up to 100%** of their rated capacity at -20°C while maintaining a high COP at temperatures as **low as -30°C**.



	18,000 BTU	24,000 BTU	30,000 BTU	36,000 BTU	48,000 BTU	60,000 BTU
-30°C	1.54	1.43	1.55	1.59	1.32	1.46
-15°C	2.08	2.03	2.04	2.04	1.9	1.92
-8.3°C	2.32	2.21	2.39	2.23	2.17	2.08
8.3°C	3.49	3.28	3.74	3.23	3.23	3.17

NRCAN and the Government of Canada define the Coefficient of Performance (COP) of a heat pump as the ratio between the rate at which the heat pump transfers thermal energy (in kW), and the amount of electrical power required to do the pumping (in kW). For example, if a heat pump used 1kW of electrical energy to transfer 3 kW of heat, the COP would be 3.



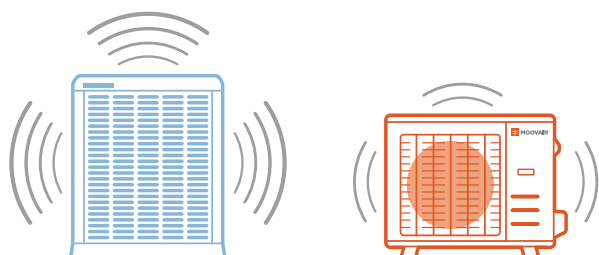
Inverter driven compressor

## Innovative Inverter technology

Central-Moov heat pump systems feature innovative Inverter drive technology, which saves energy by reducing the number of compressor stops and starts. Modulation increases by 1% increments up to 100% capacity to efficiently maintain the set temperature. This innovative technology ensures maximum comfort and energy efficiency.

## Whisper-quiet operation

Home comfort requires a peaceful, serene environment, both indoors and outdoors. Central-Moov provides whisper-quiet performance inside, while the side discharge design of the outdoor unit provides ultra-quiet operation as low as 58 dB(A) outside.

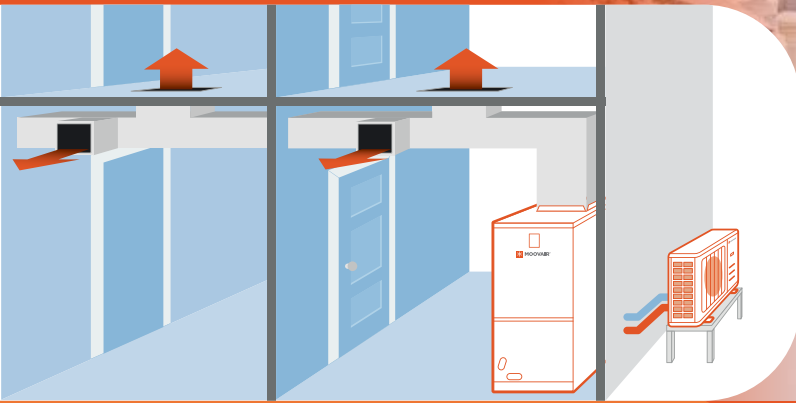


Traditional central system: 73 dB(A) Central-Moov system: 58 dB(A)



## Year-round comfort

Sub-zero temperatures and inclement weather are no match for Central-Moov's power packed condenser.



## Small, but mighty

Central-Moov's compact side discharge condenser is up to 40% smaller than traditional heat pumps. The smaller units offer greater flexibility for installation and a more aesthetically pleasing finished look.

## Built-In Refrigerant Leak Detection

Our new heat pumps feature a built-in refrigerant safety sensor for added peace of mind. It continuously monitors leaks and, if detected, instantly shuts down the compressor, keeps air safely circulating and sends a service alert. This protection lets you enjoy the comfort and efficiency of next generation refrigerants like R-454B, backed by 24/7 safety technology.

## Reliability you can count on

All Central-Moov systems are built to last and covered by one of the best warranties in the industry with a 10-year limited warranty on parts and compressor. 5 or 10-year labour warranty plans are available with a separate third-party purchase, please contact your dealer for details.



**R410A**

37.48"x16.34"x52.48"

**R454B**

38.58"x16.34"x38.39"

Whether you choose the new ST1S touchscreen thermostat or any other 24VAC compatible thermostat, you can trust your Moovair® dealer to help you choose the model best suited to your needs.

\*Controller sold separately



# Technical specifications

Indoor model			MAHMA18R4AS1	MAHMA24R4AS1	MAHMA30R4AS1	MAHMA36R4AS1	MAHMA48R4AS1	MAHMA60R4AS1
Outdoor model			MSHMA18R2AN1	MSHMA24R2AN1	MSHMA30R2AN1	MSHMB36R2AN1	MSHMA48R2AN1	MSHMA60R2AN1
HEAT + Technology			Yes	Yes	Yes	Yes	Yes	Yes
Cooling	Capacity (range)	Btu/h	18,000 (5,600~22,000)	23,000 (7,200~27,000)	30,000 (12,800~39,000)	36,000 (9,700~42,000)	48,000 (15,600~51,000)	54,000 (11,400~56,300)
	EER2		12.5	11.7	11.7	11.7	10.5	10
	SEER2		19	18.3	16.8	17.3	16.5	16
Heating	Capacity (range)	Btu/h	19,000 (6,000~22,000)	23,000 (7,100~30,000)	34,000 (10,300~38,500)	37,000 (11,000~48,000)	50,000 (15,500~57,300)	56,000 (8,100~64,500)
	COP at 8.3°C		3.2	3.33	3.65	3.6	3.4	3.1
	HSPF2 Region V (Region IV)		8 (9.7)	8 (10)	8.3 (10)	8.6 (10.3)	8 (9.5)	8 (9)
Max. fuse (outdoor)	A		20	20	30	30	40	40
Power supply	V Ph Hz		208/230V 1Ph 60Hz	208/230V 1Ph 60Hz	208/230V 1Ph 60Hz	208/230V 1Ph 60Hz	208/230V 1Ph 60Hz	208/230V 1Ph 60Hz
Indoor air flow (Turbo \ Hi \ Mi \ Lo \ Si)	m³/h		1050 \ 980 \ 900 830 \ -	1400 \ 1290 \ 1180 1070 \ -	1680 \ 1520 \ 1370 1210 \ -	2020 \ 1840 \ 1650 1470 \ -	2720 \ 2500 \ 2180 1860 \ -	3070 \ 2690 \ 2310 1930 \ -
	CFM		618 \ 576.8 \ 529.7 488.5 \ -	824 \ 759.3 \ 694.5 629.8 \ -	988.8 \ 894.7 \ 806.4 712.2 \ -	1189 \ 1083 \ 971.2 865.2 \ -	1601 \ 1471.5 \ 1283.1 1094.8 \ -	1807 \ 1583.3 \ 1359.7 1136 \ -
Indoor noise level (Turbo \ Hi \ Mi \ Lo \ Si)	dB(A)		- \ 41 \ 39 \ 33 \ -	- \ 44 \ 42 \ 28 \ -	47 \ 46 \ 43 \ 27.5 \ -	49 \ 48 \ 45.5 \ 25.5 \ -	- \ 52 \ 50 \ 34 \ -	54.5 \ 52 \ 49.5 \ 34.5 \ -
Indoor unit	Dimension (WxDxH)	mm	445x534x1143	445x534x1143	534x534x1245	534x534x1245	622x534x1346	622x534x1346
		inch	17.5x21x45	17.5x21x45	21x21x49	21x21x49	24.5x21x53	24.5x21x53
	Net weight	kg	48	47.9	58.5	58.7	73.9	73.9
lb		105.8	105.6	129	129.4	162.9	162.9	
Outdoor noise level	dB(A)		59	60	60.5	62.5	65	65
Outdoor unit	Dimension (WxDxH)	mm	890x342x673	890x342x673	946x410x810	980x415x975	980x415x975	952x415x1333
		in	35x13.5x26.5	35x13.5x26.5	37.2x16.1x31.9	38.6x16.3x38.4	38.6x16.3x38.4	37.5x16.3x52.5
	Net weight	kg	46	46.4	74.4	92.6	91.2	110.2
lb		101.4	102.3	164	204.2	201.1	243	
Refrigerant precharge	oz (kg)		74.1 (2.1)	74.1 (2.1)	105.3 (3)	127 (3.6)	134 (3.8)	183.4 (5.2)
Refrigerant piping	Liquid side	in (mm)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Gas side	in (mm)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)
	Max. refrigerant pipe length	ft (m)	98.4 (30)	164 (50)	164 (50)	246 (75)	246 (75)	246 (75)
	Max. difference in level	ft (m)	65.6 (20)	82 (25)	82 (25)	98.4 (30)	98.4 (30)	98.4 (30)
Moisture removal	L/h		1.7	2.1	2.8	3.4	3.9	5.9
Included Controller Type			Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	Remote Control
Indoor Room	Set point Range	°C (°F)	16~32 (60~90)	16~32 (60~90)	16~32 (60~90)	16~32 (60~90)	16~32 (60~90)	16~32 (60~90)
Outdoor	Outdoor temperature range of operation (cooling)	°C (°F)	-30~50 (-22~122)	-30~50 (-22~122)	-30~50 (-22~122)	-30~50 (-22~122)	-30~50 (-22~122)	-30~50 (-22~122)
	Outdoor temperature range of operation (heating)	°C (°F)	-30~24 (-22~75)	-30~24 (-22~75)	-30~24 (-22~75)	-30~24 (-22~75)	-30~24 (-22~75)	-30~24 (-22~75)
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B
ENERGY STAR V6.1			✓	✓	✓	✓	✓	✓
ENERGY STAR V6.1 Cold Climate			✓	✓	✓	✓	✓	✓

Images shown are for illustration purposes only and may not represent the exact product model or configuration available. Product specifications may change without notice. Performance at standard test conditions. Values shown are approximate and may have been rounded for ease of reference. Refer to product submittals for complete specifications. Specifications subject to change without notice. The ENERGY STAR name and the ENERGY STAR symbol are trademarks registered in Canada.



## Reliability isn't claimed. It's earned. Best Pick 2025 - Protégez-Vous Consumer Reliability Survey

Backed by over 70 years of HVAC experience, Moovair® was developed with the harsh Canadian climate in mind. We created reliable, energy-efficient products that take care of the environment as well as your comfort and peace of mind because your home is at the heart of your well-being. That is the Moovair® Effect.

With over 190k systems installed in Canada to date, Moovair has demonstrated proven performance and a track record of reliability in a growing heat pump market.

Moovair® dealers are supported by The Master Group, Canada's largest independently Canadian owned HVAC-R distributor. The Master Group has always distinguished itself for its extensive inventory, technical expertise and exceptional customer service.



Mooving Forward, Together.

