



Panasonic



SINGLE ZONE

Wall-mounted heat pumps

16
SEER

8,5
HSPF

HEATING
UP TO
-20°C

INVERTER

RE SERIE

Exclusive distributor in Quebec

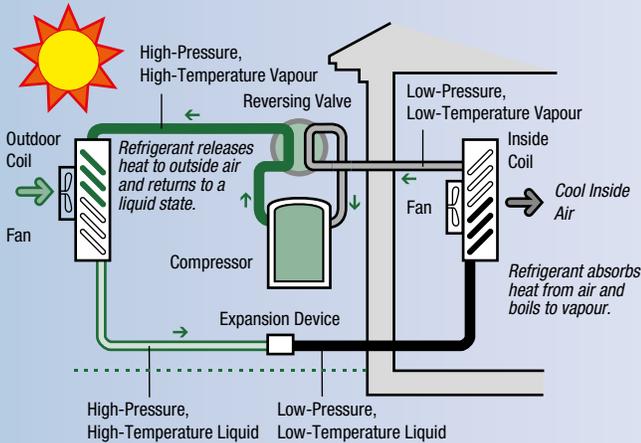
 **DESCAIR**

descair.ca

What is a heat pump?

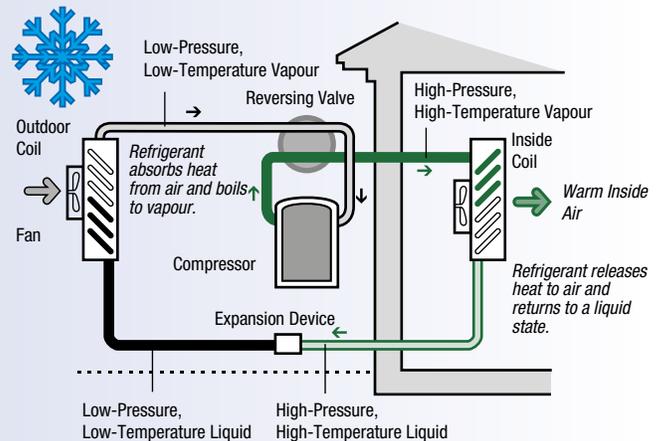
A heat pump is an electrical device that extracts heat from one place and transfers it to another. It allows you to heat in winter and to cool in summer. Heat pumps transfer heat by circulating a substance called a refrigerant through a cycle of evaporation and condensation. A compressor pumps the refrigerant between two heat exchanger coils. In one coil, the refrigerant is evaporated at low pressure and absorbs heat from its surroundings. The refrigerant is then compressed en route to the other coil, where it condenses at high pressure. At this point, it releases the heat it absorbed earlier in the cycle.

Figure 1: Components of an Air-source Heat Pump (Cooling Cycle)



The heat pump cycle is fully reversible, and it can provide year-round climate control for your home –heating in winter and cooling and dehumidifying in summer. Since the ground and air outside always contain some heat, a heat pump can supply heat to a house even on cold winter days. In fact, air at -18°C contains about 85% of the heat it contained at 21°C.

Figure 2: Components of an Air-source Heat Pump (Heating Cycle)



What is a SEER?

The seasonal energy efficiency ratio (SEER) measures the cooling efficiency of the heat pump over the entire cooling season. The SEER is based on a climate with an average summer temperature of 28°C. A higher SEER rating means greater energy efficiency for cooling.

What is a HSPF?

The heating seasonal performance factor (HSPF) is a measure of the total heat output in BTU of a heat pump over the entire heating season divided by the total energy in watt hours it uses during that time. Weather data characteristic of long-term climatic conditions are used to represent the heating season in calculating the HSPF. The higher the HSPF rating or a unit, the more energy efficient it is.

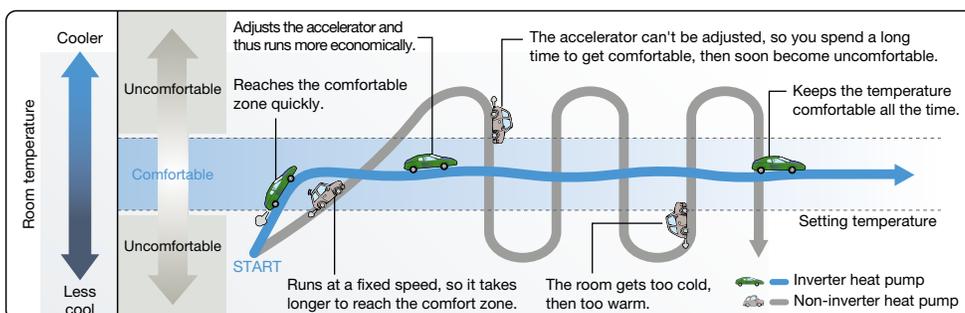
Source: Natural Resources Canada's Office of Energy Efficiency (2004)

INVERTER Technology

High-efficiency operation

Panasonic Inverter technology provides optimum power control and extremely efficient operation by modulating the compressor capacity. The result is efficient and flexible operation using less electricity. With accumulated production of 200 million compressors, extremely high quality and reliability are proven.

Advantages of Inverter technology Comparing inverter and non-inverter air conditioners to cars



*Image of output power fluctuation

Reduces electricity consumption

Panasonic Inverter heat pumps are designed to give you exceptional energy savings while ensuring you stay comfortable at all times.

Constant comfort

Precise temperature control with a wide power output range enables an inverter heat pump to meet different room occupancy levels, providing constant comfort.

Quick cooling and heating

Higher cooling/heating power during the start-up period allows cooling/heating the room faster.

Whisper quiet operation

The indoor operating noise has been reduced to 5 dB as the inverter constantly varies its output power to enable more precise temperature control.

Wall-mounted heat pumps RE Serie – Single zone

Panasonic

RE9SKUA / RE12SKUA



Indoor unit
CS-RE9SKUA / CS-RE12SKUA



Wireless remote control (included)

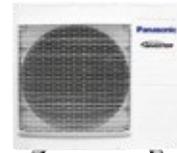
Outdoor unit
CU-RE9SKUA / CU-RE12SKUA



RE18SKUA / RE24SKUA



Indoor unit
CS-RE18SKUA / CS-RE24SKUA



Wireless remote control (included)

Outdoor unit
CU-RE18SKUA / CU-RE24SKUA



Model N°	RE9SKUA		RE12SKUA		RE18SKUA		RE24SKUA			
	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit	Indoor unit	Outdoor unit		
Unit model	CS-RE9SKUA	CU-RE9SKUA	CS-RE12SKUA	CU-RE12SKUA	CS-RE18SKUA	CU-RE18SKUA	CS-RE24SKUA	CU-RE24SKUA		
Performance and electrical ratings										
Capacity	Cooling	BTU/hr.	9,000 (4,100 – 10,200)		12,000 (4,100 – 13,300)		17,200 (5,800 – 18,000)		24,000 (5,800 – 27,200)	
	Heating	BTU/hr.	10,900 (4,100 – 14,100)		12,000 (4,100 – 16,300)		18,000 (5,800 – 20,800)		28,800 (5,800 – 29,200)	
Moisture removal	High	Pt/hr.	1.3		2.3		2.7		6.8	
Dry air flow	High	CFM	425		450		670		670	
SEER			16.0		16.0		16.0		16.0	
EER			10.45		10.6		12.25		10.2	
HSPF			8.5		8.5		8.5		8.5	
COP		W/W	3.38 (6.00 – 2.76)		3.86 (6.00 – 2.79)		3.82 (4.47 – 3.50)		3.62 (4.47 – 3.04)	
Temperature	Cooling	°C	-17.8°C – 46.0°C		-17.8°C – 46.0°C		-17.8°C – 46.0°C		-17.8°C – 46.0°C	
		°F	0.0°F – 114.8°F		0.0°F – 114.8°F		0.0°F – 114.8°F		0.0°F – 114.8°F	
	Heating	°C	-20.0°C – 24.0°C		-20.0°C – 24.0°C		-20.0°C – 24.0°C		-20.0°C – 24.0°C	
		°F	-4.0°F – 75.2°F		-4.0°F – 75.2°F		-4.0°F – 75.0°F		-4.0°F – 75.0°F	
Power supply	V, Phase, Hz	230/208 V, 1 Ph, 60 Hz								
Running amps	Cooling	A	3.8 / 4.2		5.0 / 5.5		6.3 / 7.0		10.5 / 11.7	
	Heating	A	4.6 / 4.2		4.5 / 4.0		6.9 / 6.2		8.8 / 7.9	
Power input	Cooling	W	860 (250 – 1,000)		1,130 (250 – 1,300)		1,400 (430 – 1,550)		2,390 (430 – 2,550)	
	Heating	W	950 (200 – 1,500)		910 (200 – 1,710)		1,380 (380 – 1,750)		1,780 (380 – 2,450)	
MCA/MOP	A	15/15		15/15		15/20		20/25		
Features										
Controls			Microprocessor		Microprocessor		Microprocessor		Microprocessor	
Low ambient temperature			Equipped		Equipped		Equipped		Equipped	
Wireless remote control			Included		Included		Included		Included	
Fan speed			5 speeds + Auto							
Timer			24 hour program							
Air deflection	Horizontal		Manual		Manual		Automatic		Automatic	
	Vertical		Automatic		Automatic		Automatic		Automatic	
Filter			Washable anti-microbial filter							
Refrigerant			R-410A		R-410A		R-410A		R-410A	
Refrigerant control			Electric expansion valve							
Indoor noise level	(Hi/Mid/Lo)	dB(A)	43 / 30 / 25		43 / 30 / 25		48 / 39 / 36		51 / 40 / 37	
Outdoor noise level	(Hi)	dB(A)	49		50		53		54	
Refrigerant piping	Type		Flare		Flare		Flare		Flare	
	Discharge/Suction	in.	1/4" and 3/8"		1/4" and 1/2"		1/4" and 1/2"		1/4" and 5/8"	
Refrigerant pipe length (Min./Max.)	ft.		Min. 9.8 / Max. 49.2		Min. 9.8 / Max. 49.2		Min. 9.8 / Max. 65.6		Min. 9.8 / Max. 65.6	
Elevation difference	Outdoor above	ft.	49.2		49.2		49.2		49.2	
	Outdoor below	ft.	49.2		49.2		49.2		49.2	
Precharged	in.		24.6		24.6		24.6		24.6	
Additional charge for each ft.	oz/ft.		0.2		0.2		0.2		0.2	
Dimensions and weight										
Height	in.		11-7/16		21-11/32		11-7/16		27-3/8	
Width	in.		34-9/32		30-23/32		42-5/32		34-15/32	
Depth	in.		8-7/16		11-13/32		9-15/32		12-5/8	
Net weight	lb.		20		75		26		106	

Features



Microprocessor controlled operation

Microprocessor control ensures that the temperature and humidity levels in the room are always comfortable.



Wireless remote control

Panasonic's infrared remote control with an easy-to-read LCD display gives the user the capability to adjust and set: temperature, sweep (louver control), fan speeds, timer and more, for complete automatic operation.



Dry mode

By coupling compressor and fan operation, intermittent operation can be precisely controlled according to room temperature, so that air is sufficiently dehumidified.



5 fan speeds and automatic fan operation

Convenient microprocessor control automatically adjusts fan speed to High, Medium or Low, according to room temperature to maintain a comfortable airflow throughout the room.



Louver control

Louver can be manually set to the desired angle by remote control.



Automatic restart function after power failure

This feature allows the system to automatically resume operation at its reset program, after power is restored from a power failure when the remote control is in the room.



Self-diagnosing function

Unit is equipped with self-diagnosing function with remote control. This makes it easier to diagnose malfunctions, thus reducing service labor.



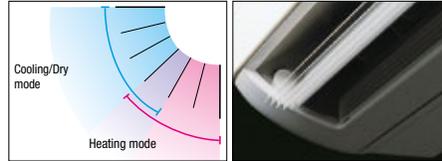
Low ambient cooling

Provides heat operation at -20°C (-4°F).



Air sweep control

The air sweep function moves the louver up and down in the air outlet, directing air in a "sweeping" motion around the room and providing comfort in every corner.



2 air guides to improve the air flow direction

Cooling mode



Cool air doesn't reach you directly; hands and feet won't be cold.

Heating mode



Warm feet and no direct breeze on your face; more comfort.



Automatic heating and cooling changeover

After setting the temperature and functions you desire, just relax. If the room temperature is higher than the set temperature, cooling operation begins. If the room temperature is lower than the set temperature, heating operation begins. During normal thermostat cycle operation, cooling and heating operations automatically change in accordance with set temperature, time and room temperature. (Single zone heat pump unit only)



Anti-microbial filter

The anti-microbial filter by 3M is treated to inhibit the growth of mold and mildew, and helps create clean air.



R-410A

The unit runs with refrigerant type R-410A.



24-hour clock with ON/OFF program timer

The remote control allows you to set a wide variety of timer-based operations. Such functions include automatic ON/OFF with a timer setting, save time ON/OFF every day, ON timer, OFF timer and Combination timer.



Hot start heating system

Right from the start, air is warm and comfortable. The hot start heating system prevents any cold blasts at the beginning while the heat pump is warming up.



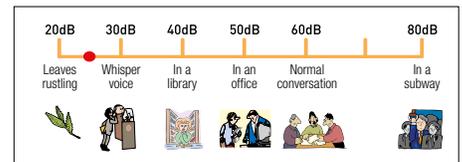
Electric refrigerant control valve

The circulation volume of the refrigerant is controlled by a pulse type electric control valve. In order to attain optimum efficiency, when the power is switched ON, the opening degree of the electric control valve is controlled between 90 and 480 steps.



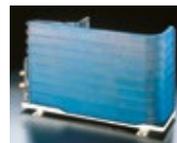
Quiet mode

Low fan speed for extra quiet operation.

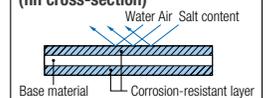


Blue Fin Condenser

Condensers can take a beating from exposure to salty air, rain and other corrosive factors. Panasonic has extended the life of its condensers with an original anti-rust coating.



Special coating layer (fin cross-section)



Exclusive distributor in Quebec



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*Panasonic basic warranty (residential): 10 years compressor and 10 years parts.

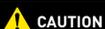
Because its products are subject to continuous improvements, Panasonic reserves the right to modify product design and specifications without notice and without incurring any obligations.



Use of the AHRI Certified™ mark indicates a manufacturer's participation in the certification program. For verification of certification for individual products, go to www.ahridirectory.org



Serving the North American air conditioning market since 1983



Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of other refrigerant.