



All-Electric Central Heat Pump Air Handler Systems





Regular Heat Series | Extreme Heat Series



Convenient Installation

Constant CFM can adapt to the existing ductwork design, this enables the installer to be free from complicated manual air balance testing.



Optimal Comfort

Constant CFM can adapt to the pressure changes inside the ductwork as the system operates, guaranteeing constant and optimal airflow moving through the system.



Higher Efficiency

By delivering the right amount of airflow the system can effectively reduce energy waste due to excess airflow.



Refrigerant

Environmentally Friendly Refrigerant

R454B Refrigerant

R454B refrigerant is an excellent heat transfer medium which leads to greater energy and cost-effectiveness. It also has low global warming potential, hence it's friendlier to the environment.



Has HIGHER COOLING CAPACITY so increases heat transfer efficiency.



Consumes LESS ENERGY, helping you to SAVE ON ELECTRICITY COSTS.



Has ZERO IMPACT on the ozone layer, so it is ENVIRONMENTALLY FRIENDLY.

Refrigerant Leak Detection

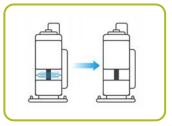
Refrigerant Leak Detection System for AHU

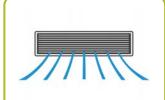
To protect your family and the system.





GG.9 Charge limits for appliances using A2L refrigerants connected via an air duct system to one or more rooms and when the charge amount exceed M1 need to comply with GG.9.2&GG.9.3. This is the reason why we need add a



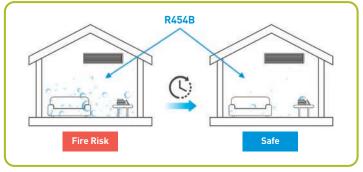


Automatic Shutoff

The system will stop the compressor operation of the outdoor unit to prevent the refrigerant from flowing into the indoor space continuously.

Continuous fan mode of **Indoor Unit**

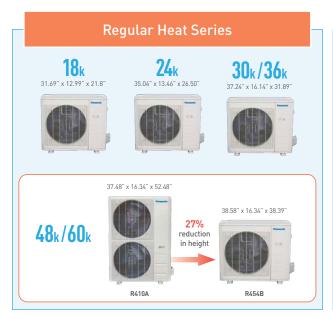
The indoor fan will run continuously to deliver indoor airflow.

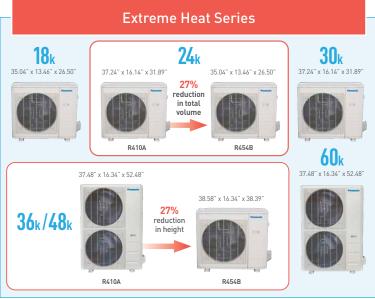


As a result, the total amount of R454B refrigerant in the indoor space will be reduced to a safety level.

Flexible Installation Options

Reduce Size, More Flexible Installation





Compact Size Fits Any Space

Thinner design and lighter weight provides unmatched flexibility to fit in any unique home space.

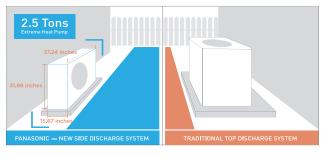








- Fit more in your tech van or truck;
 4-5 units as opposed to 1 or 2 traditional.
- Easy to bring to the installation site and install on pad – the single fan unit can be transported by a single worker.





Easier Installation and Service

Your Evolving System

Remote Upgrade & Self-Diagnosis Capability





Remotely upgrade your systems with the latest software updates

For Homeowners

Be ready for the future, it's easy to update with new feature enhancements, as they become available.

For Contractors

Easy mass unit maintenance and upgrades.





iCheck

It's like a doctors appointment for your HVAC, so that you can check your system's health at home.

For Homeowners

Identify issues before calling for service.

For Contractors

Diagnose the issues faster. Save maintenance time.

Indoor Unit Features



Slide-Out Fan

Easily take out the fan motor for maintenance.



Magnetic Filter Cover

1 Click to replace the standard filter.



Easy-Access

Just remove 2 screws for access to the electrical board, blower and heater.



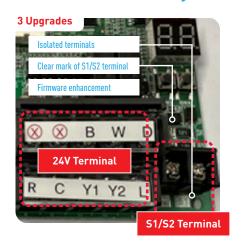
Intelligent Diagnostics

Easily accessible error code display.

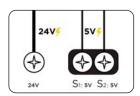


Outdoor Unit Features

Easy-to-Connect 24V Connection Board

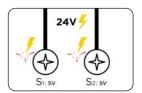


R454B Connection Board 24V & S1/S2 terminal put separately



Easy connection

The 24V & S1/S2 terminal are put separately in the new connection board, so it's easier for the installers to find the right terminals.

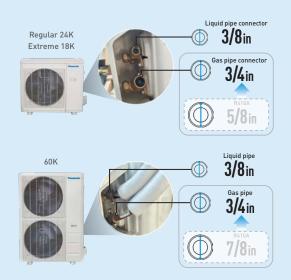


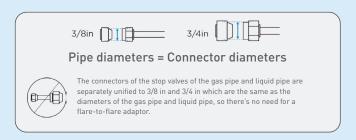
No burnout when misconnection

The firmware is also upgraded for the new board, so the board will not burn out even when the communication wires are misconnected.

Unified Connection Pipes and Valves for 24V Heat Pump

Easier and lower cost installation





Aligned with Industry standard sizes



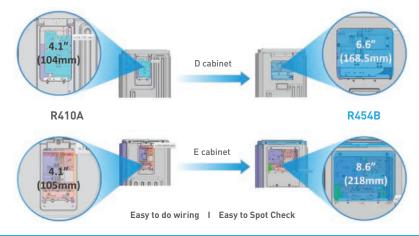
With a smaller diameter, it's easier for the installer to bend the gas pipe when they are handling the pipe connection.



The industry standard size pipes are easier to source and helps to reduce the pipe inventory required by installers.

Enlarged Access Panel

Significantly larger access panel for installation and service



Cold Climate Capabilities

There is a solution for any climate condition

100%

HEATING OUTPUT

down to -20°C (-4°F)

-30°C (-22°F)

CONTINUOUS OPERATION as Cold as -30°C (-22°F)



Extreme Heat Pump

Panasonic Extreme Heat Pumps are able to deliver 100% heating output at -15°C (5°F), ensuring uninterrupted warmth for moderate winters. For areas that experience extreme cold, Panasonic offers a top-notch solution, The Panasonic Extreme

condenser unit is capable of delivering 100% or more heating output down to -20°C (-4°F), also offering superior heating performance down to -30°C (-22°F), outdoor temperatures.



Auxiliary Heat Kit Combinations

Auxiliary heat kits can be added to the heat pump system, so both the fast and intense heat from the electric heater, and the efficient and stable heat generated by the heat pump can be offered. Programmable control enables customized heat pump to electric heat switch over temperatures, that means customers can choose the best heating combination for the climate they live in.

Other Core Features

Real Inverter Benefits For All







Inverter Heat Pump Condenser







UP TO 30% ENERGY SAVINGHigh efficiency Inverter compressor that ensures both energy saving & comfort.





QUIET OPERATIONAs low as 59 dBA with a 1.5 ton inverter heat numb.





FAST HEATING AND COOLINGFaster comfort with our advanced compressor activation technology.



Exclusive ${f BI-COMM}$ Technology

Compatible with 485 & 24V



COMMUNICATION MODE

The Panasonic heat pump unit is able to precisely receive and process signals from the communicating air handler to manage the air temperature and airflow inside a home and maintain them at the most comfortable level.



SELF-ADAPT MODE

The Panasonic inverter heat pump has the ability to analyze the temperature and pressure change of the unit to adjust system operation. When matching the heat pump to existing equipment, even non-communicating, the system can function effectively as a communicating inverter combination so that homeowners can enjoy the benefits of inverter technology.

Regular Heat Series

	SERIES	18K				24K			30K			36K			48K		60K				
	INDOOR UNIT		CS-HM18BAHU			CS-HM24BAHU			CS-HM30BAHU			CS-	CS-HM36BAHU			CS-HM48BAHU			CS-HM60BAHU		
MODEL	OUTDO	CU-M18BAHU			CU-M24BAHU			CU-M30BAHU				-M36BA		CU-M48BAHU			CU-M60BAHU				
Power Supply	INDOOR UNIT	V, Phase, Hz	115/208/230V, 1PH, 60Hz			115/208/230V, 1PH, 60Hz			115/208/230V, 1PH, 60Hz			115/208/230V, 1PH, 60Hz			115/208/230V, 1PH, 60Hz			115/208/230V, 1PH, 60Hz			
	OUTDOOR UNIT	V, Phase, 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				
			MIN	RATED	MAX	MIN	RATED	MAX	MIN	RATED	MAX	MIN	RATED	MAX	MIN	RATED	MAX	MIN	RATED	MAX	
Cooling	Capacity	Btu/h	5350	18000	20000	7200	24000	27000	10400	30000	34000	8300	36000	38900	16600	48000	49900	21000	54000	55000	
Cooting	Input Power	W	400	1635	1900	530	2181	2870	735	2778	3230	710	3600	4500	1400	4800	5350	1800	6200	6410	
Heating	Capacity	Btu/h	5600	18000	19000	7100	26000	30000	6400	31000	32000	6700	36000	41300	15300	48000	49500	26000	54000	55000	
	Input Power	W	340	1675	1650	440	2396	2730	455	2595	2550	460	3100	3550	1025	4085	4650	975	4650	4810	
Noise	Indoor	dB-A (H/M/L)	43	41	33	44	42	28	46	42	29	48	45	28	53	50	44	52	49	34.5	
	Outdoor	dB-A (H)	55			60			60			63			65			65			
EER2			11.0		11.0			10.7			10.0			10.0			8.6				
SEER2			18.8		18.1			17.0			16.1			16.0			15.2				
СОР			3.15		3.18			3.50			3.40			3.45			3.37				
HSPF2	Region IV		9.1		9.7			8.5			8.7			8.5			8.4				
HSPF2	Region V		7.0			7.7			6.6			7.0			7.2			6.8			
Amnacity	Indoor	A [115V / 208/230V]	5.5 / 4.0		5.5 / 4.0			8.0 / 6.0			8.0 / 6.0			14.5 / 11.0				14.5 / 11.0			
	Outdoor	A	16.0		19.0			22.5			24.0			36.0			39.0				
Max Fuse	Indoor	A	15		15				15			15			15			15			
	Outdoor	А	20		20			25			30			40			40				
Fan Motor RLA	Indoor	А	2.0			3.0			4.5			4.5			7.8			8.3			
	Outdoor	A		0.8			1.0			1.1			1.5			2.0		1.2			
Air Flow	Indoor	CFM (Turbo/H/M/L)	618	577 530	489	824	759 695	630	989	895 80	712	1189	1083 97	1 865	1601 1	1472 128	3 1095	1807 1	136	0 1136	
	Outdoor	CFM		1451			1766			3002			2413			3037			3037		
	Cooling	Indoor								16'	°C to 32°C	/ 60°F to 9	0°F								
Operation Condition		Outdoor		-25°C to 50°C / -13°F to 122°F																	
Condition	Heating	Indoor		0°C to 30°C / 32°F to 86°F																	
		Outdoor				D/F/D			1	-25°C to 24°C /					D/F/D						
Refrigerant Type			R454B		R454B			R454B			R454B			R454B			R454B				
Refrigerant Amount		OZ	51.15		74.08			91.71			116.40			134.04			134.04				
Refrigerant Piping	Diameter	in (Liquid/Gas)	3/8 / 3/4			3/8 / 3/4			3/8 / 3/4				3/8 / 3/4			3/8 / 3/4			3/8 / 3/4		
	Max Length	ft	98.4		164			164			246			246			246				
Indoor & Outdoor Unit Height Difference		ft oz/ft	65.6		82			82			98.4			98.4			98.4				
Additional Gas Amo Unit Dimensions	l	in (W/D/H)	21.02	0.7 17.52	45.00	21.02	0.7 17.52	45.00	21.02	0.7	49.02	21.02	0.7 21.02	49.02	21.02	0.7	52.99	21.02	24.49	52.99	
	Indoor	in (W/D/H)	31.69	12.99	21.81	35.04	13.46	26.50	37.24	16.14	31.89	37.24	16.14	31.89	38.58	16.34	38.39	38.58	16.34	38.39	
Unit Weight	Outdoor	lb	31.07	105.82	21.01	33.04	105.60	20.00	31.24	128.97	31.07	31.24	129.41	31.07	30.30	162.92	30.37	30.30	162.92	30.37	
	Indoor	lb	77.16		102.29		141.76		153.22			192.90			192.90						
Carton Dimensions		in (W/D/H)	26.57	20.87	48.62	26.57	20.87	48.62	26.57	24.41	52.56	26.57	24.41	52.56	27.95	26.77	56.50	27.95	26.77	56.50	
	Indoor Outdoor	in (W/D/H)	36.02	14.57	24.21	39.17	15.67	29.13	42.91	19.68	34.84	42.91	19.68	34.84	45.08	19.68	42.52	45.08	19.68	42.52	
	Indoor	lb	50.02	126.76		127.43		153.44			153.88			190.92			190.92				
Carton Weight	Outdoor	lb	83.77		109.13			152.34			163.58			224.21			224.21				
	Juluool		00.77		107.13			102,04			100.00			224.21			LL7.L1				

Extreme Heat Series

	SERIES	18K			24K			30K			36K				48K		60K				
	INDOOR UNIT		CS-HM18BAHU			CS-HM24BAHU			CS-HM30BAHU			CS-HM36BAHU			CS-HM48BAHU			CS-HM60BAHU			
MODEL	OUTDOOR UNIT		CU-HM18BAHU			CU-HM24BAHU			CU-HM30BAHU			CU-	CU-HM36BAHU			НМ48В	AHU	CU-HM55BAHU			
Power Supply	INDOOR UNIT			115/208/230V, 1PH, 60Hz			115/208/230V, 1PH, 60Hz			115/208/230V, 1PH, 60Hz			115/208/230V, 1PH, 60Hz			115/208/230V, 1PH, 60Hz			115/208/230V, 1PH, 60Hz		
	OUTDOOR UNIT			208/230V, 1PH, 60Hz			208/230V, 1PH, 60Hz			208/230V, 1PH, 60Hz			208/230V, 1PH, 60Hz			208/230V, 1PH, 60Hz			208/230V, 1PH, 60Hz		
			MIN RATED MAX		MIN RATED MAX		MIN RATED MAX		MIN RATED MAX		MIN RATED MAX		MIN RATED MAX								
Cooling	Capacity	Btu/h	5600	18000	22000	7200	23000	27000	12800	30000	39000	9700	36000	42000	15600	48000	51000	11400	54000	56300	
	Input Power	W	440	1445	1950	530	1965	2870	850	2567	3620	820	3076	4440	1345	4690	5180	1540	5400	6430	
Heating	Capacity	Btu/h	6000	19000	22000	7100	24000	30000	10300	34000	38500	11000	37000	48000	15500	50000	57300	8100	56000	64500	
	Input Power	W	500	1740	1950	440	2112	2730	655	2790	3020	665	3012	4370	1045	4750	5200	725	5300	5970	
Noise	Indoor	dB-A (H/M/L)	41	39	33	44	42	28	46	43	27.5	48	45.5	25.5	52	50	34	52	49.5	34.5	
110.00	Outdoor	dB-A (H)	59		60			60.5			62.5			65			65				
EER2		12.5			11.7			11.7			11.7			10.5			10.0				
SEER2			19.0			18.3			16.8			17.4			16.5			16.0			
COP			3.20		3.33			3.65			3.60			3.40			3.10				
HSPF2	Region IV		9.7		10.0			10.0			10.2			9.5			9.0				
HSPF2	Region V		8.0			8.0			8.3			8.6			8.0			8.0			
Min Circuit	Indoor	A (115V / 208/230V)	5.5 / 4.0			5.5 / 4.0			8.0 / 6.0			8.0 / 6.0			14.5 / 11.0			14.5 / 11.0			
Ampacity	Outdoor	А	16.0		19.0			29.5			29.0			38.0			40.0				
Max Fuse	Indoor	А	15			15			15				15			15			15		
Outdoor		А	20		20			30			30			40			40				
Fan Motor RLA	Indoor	А	2.0			3.0			4.5			4.5			7.8				8.3		
	Outdoor	А		0.9	_		1.0	_		1.5	_		2.4			2.0			1.2		
Air Flow	Indoor	CFM (Turbo/H/M/L)	618	577 530	489	824	759 695	630	989	895 80	6 712	1189	1083 97	1 865	1601 1	1472 128	3 1095	1807 1	583 136	1136	
	Outdoor	CFM		1766			1766			3002			3002			3037			2649		
	Cooling	Indoor								16	°C to 32°C	/ 60°F to 9	0°F								
Operation Condition		Outdoor		-30°C to 50°C / -22°F to 122°F																	
Condition	Heating	Indoor		0°C to 30°C / 32°F to 86°F																	
		Outdoor	2/5/2			D/E/D					°C to 24°C	/ -22°F to									
Refrigerant Type			R454B		R454B			R454B				R454B			R454B			R454B			
Refrigerant Amount		0Z	74.08		74.08			105.82			126.99			134.04			183.42				
Refrigerant Piping	Diameter	in (Liquid/Gas)	3/8 / 3/4			3/8 / 3/4			3/8 / 3/4			3/8 / 3/4			3/8 / 3/4			3/8 / 3/4			
I. I	Max Length	ft	98.4		164			164			246 98.4			246			98.4				
Indoor & Outdoor Unit Height Difference Additional Gas Amount		oz/ft	65.6		82.0 0.7			82.0			0.7			98.4			0.7				
Unit Dimensions	Indoor	in (W/D/H)	21.02	0.7 17.52	45.00	21.02	17.52	45.00	21.02	0.7	49.02	21.02	21.02	49.02	21.02	0.7	52.99	21.02	24.49	52.99	
	Outdoor	in (W/D/H)	35.04	13.46	26.50	35.04	13.46	26.50	37.24	16.14	31.89	38.58	16.34	38.39	38.58	16.34	38.39	37.48	16.34	52.48	
	Indoor	lb	JJ.U4	105.82	20.00	JJ.U4	105.60	20.30	31.24	128.97	J1.07	30.30	129.41	30.37	30.30	162.92	30.37	37.40	162.92	JL.40	
Unit Weight	Outdoor	lb	101.40			102.29		164.02			204.15			201.06			242.95				
Carton Dimensions	Indoor	in (W/D/H)	26.57	20.87	48.62	26.57	20.87	48.62	26.57	24.41	52.56	26.57	24.41	52.56	27.95	26.77	56.50	27.95	26.77	56.50	
	Outdoor	in (W/D/H)	39.17	15.67	29.13	39.17	15.67	29.13	42.91	19.68	34.84	45.08	19.68	42.52	45.08	19.68	42.52	43.11	19.49	58.27	
	Indoor	lb		126.76		127.43		153.44				153.88			190.92			190.92			
Carton Weight	Outdoor	lb	109.13		109.13			174.60			235.23			232.36			275.13				
	0010001	-	107.10		107.10			174,00			233.23			202.00			270.10				

breathe well

The Only Complete Air Quality Solution™

Panasonic



SWIDGET SMART OUTLET WITH WI-FI CONTROL + AIR OUALITY SENSOR

wirelessly communicates

temperature, humidity, WALL-MOUNTED air pressure and total HEAT PUMP volatile organic offers low ambient compounds which are heating operation used to calculate air down to -26°C (-15°F). quality and CO₂ levels. The ClimaPure™ XE Set rules and receive models are equipped notifications when your with built-in air and air quality declines.

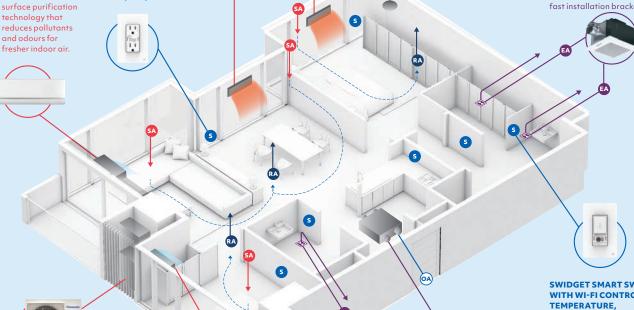
COLD CLIMATE

INTERIOS™ CENTRAL HEAT PUMPS

are centrally ducted, whole-home heating and cooling systems available in all-electric and hybrid-heating models. Cold Climate capabilities allow these systems to heat down to -30°C (-22°F). The Air Handling Unit adapts to existing ductwork design and intelligently monitors pressure changes inside the ductwork to ensure constant and optimal airflow

VENTILATION FAN

with built-in Pick-A-Flow® speed selector switch allows you to select your required airflow. Features a DC Motor with SmartFlow® technology and a Flex-Z fast installation bracket



levels of comfort and operational efficiency.

INVERTER HEAT PUMP OUTDOOR UNIT

is capable of delivering heating and cooling to

a single or multiple zones, providing excellent

Outside Air

LEGEND

EA Exhaust Air

🔼 Supply Air

RA Return Air

Swidget Smart Controls

MULTI-ZONE WALL-MOUNTED A/C allows

you to control the temperature independently in multiple areas around the home, providing optimal year-round comfort along with the reduced energy consumption.

ENERGY RECOVERY

VENTILATION FAN

VENTILATOR (ERV) is a ceiling, floor or wall mount unit that's ideal for meeting your ventilation needs. The multi-speed selector provides customizable supply and exhaust airflow to create balanced, positive or negative pressure within your space.

WHISPERAIR REPAIR® Ceiling Mount nanoe™ X Generator inhibits

contaminants with silent

operation. With a compact design, it deodorizes air

and hydrates skin and hair.

SWIDGET SMART SWITCH WITH WI-FI CONTROL + **HUMIDITY AND MOTION**

SENSOR wirelessly communicates temperature, humidity, and motion. Installed in your bathroom you can set it to automatically turn on the fan when the humidity increases during a shower or turn the lights off when the bathroom becomes vacant.

