



HYBRID HEATING & COOLING

DISCOVER A NEW LEVEL OF POWER
& VERSATILITY IN HOME COMFORT



Heating and Cooling

hybridheatingandcooling.ca

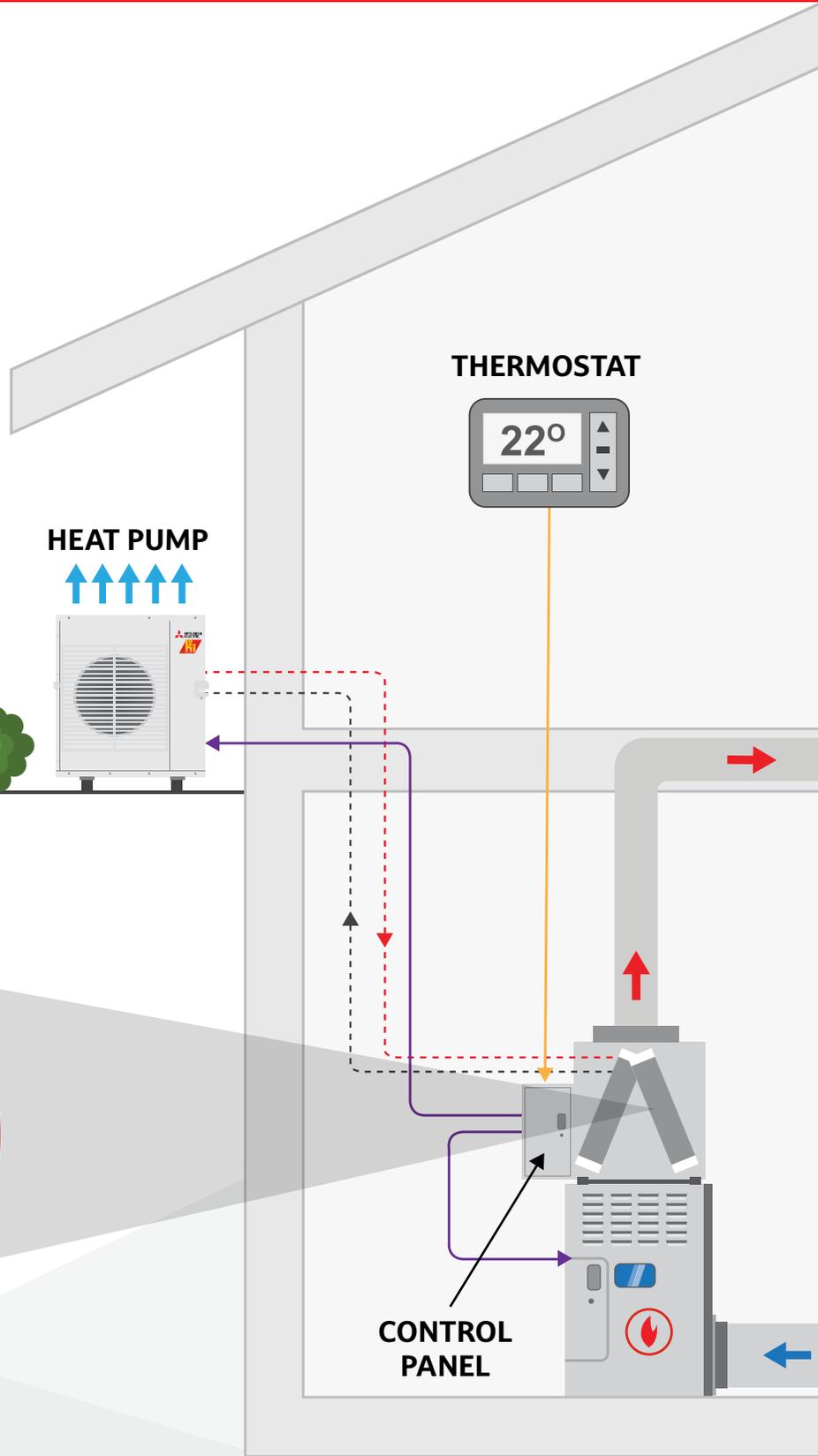


HYBRID, A POWERFULLY VERSATILE IDEA.

You've probably heard of hybrid cars before, but what is hybrid heating? Put simply, hybrid heating is an approach to heating that allows a system to choose the source of energy used to heat a home, switching between the heat pump and furnace.

ALREADY HAVE A FURNACE?

You can add an air conditioner or replace your current air conditioner with a heat pump and bolster your heating with the incredibly efficient electric power of the Mitsubishi Electric Hybrid Heating and Cooling system.



WHAT IS A HEAT-PUMP?

A heat pump is the next evolution in mainstream heating and cooling. They are known to be the most efficient and sustainable way to heat a home because they transfer more heat energy than they consume. In cooling mode, a heat pump acts similar to a standard air conditioner. In heating mode, rather than burn fossil fuels or using inefficient technology, a heat pump runs on electricity to efficiently extract heat from the air outside and move it inside.



FURNACES & HEAT PUMPS: WHAT ARE THE DIFFERENCES?

FURNACES



Heats

Provides heating only.



Lower Efficiency

Energy efficiency rate of up to 99%*.



Burns Fuel

Creates heat by burning fossil fuels like gas and propane.



Increases GHG

Furnaces running on fossil fuels like gas and propane produce carbon emissions which harms the environment.



Inconsistent Heat

Only cycles between on and off.

HEAT PUMPS



Heats and Cools

Provides both heating and cooling.



Higher Efficiency

Energy efficiency rate of up to 425%†.



Transfers Heat

In heating mode, extracts heat from outside and moves it inside. In cooling mode, the reverse occurs.



Produces No GHG

Runs on electricity instead of fossil fuels, producing zero carbon emissions.



Consistent Temperature

Adjusts to match heating needs.

* AFUE
† COP of 4.25



With Mitsubishi Electric's Hybrid Heating and Cooling System, homeowners can improve their home's comfort and sustainability with a system that delivers the best of both worlds – an electric heat pump OR furnace as their heating source.

KEY FEATURES & BENEFITS

EXPERIENCE A HYBRID REVELATION

The Mitsubishi Electric Hybrid Heating and Cooling System provides energy saving and environmentally friendly heating and cooling all-year round. But the advantages don't stop there. It also has all the benefits you see here – all while providing the perfect comfort level for your home.

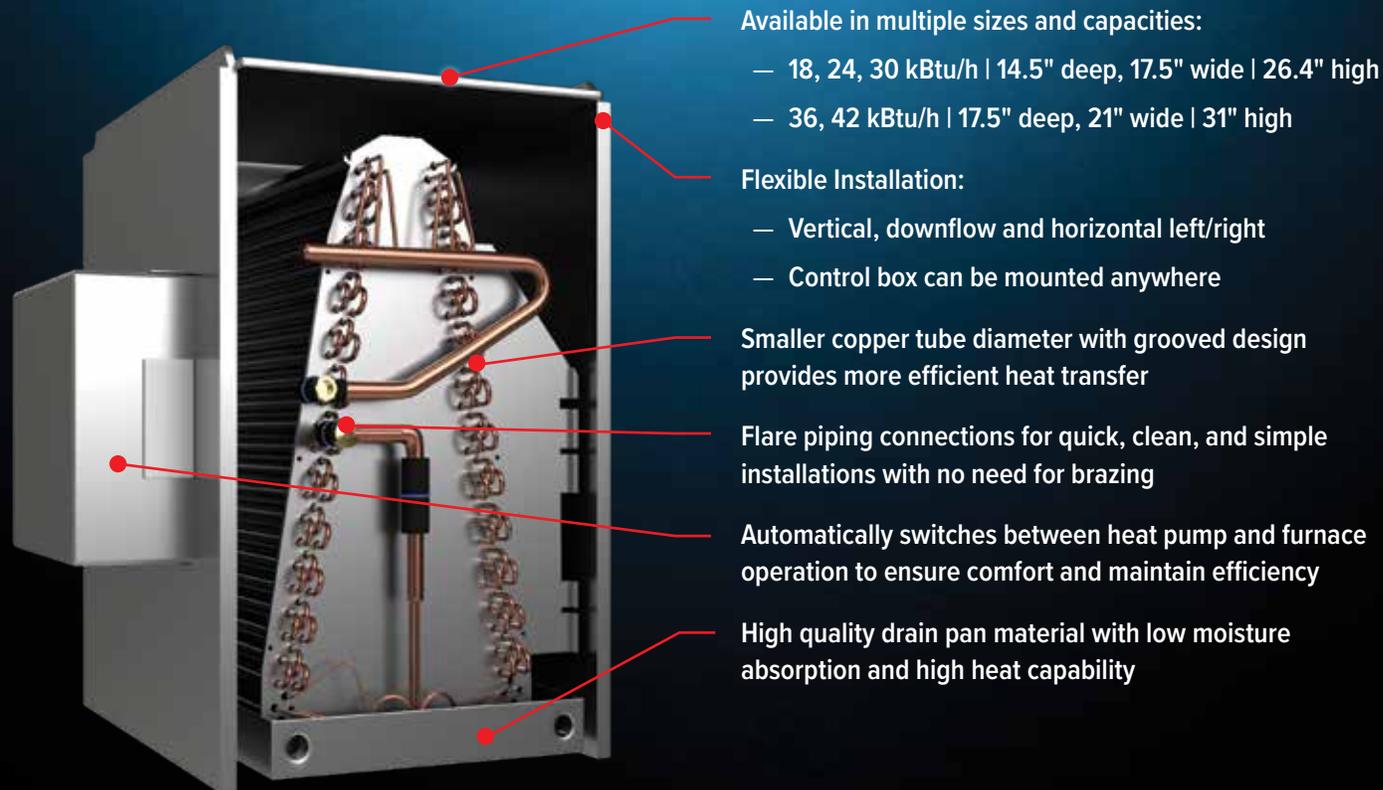
COMPATIBLE WITH YOUR EXISTING FURNACE**

Our Hybrid Heating and Cooling System stands out in the Canadian market due to its compatibility with any brand of gas, propane and electric furnace.**

BRILLIANT LOGIC

This Hybrid System goes beyond the heat pump. It's equipped with a built-in Optimum Control Logic that can be set to switch from your furnace to your heat pump (or vice versa) whenever it's most efficient. It keeps you comfortable while using the least amount of energy, reducing your CO₂ emissions and the amount you pay for your carbon tax. Now that's a bright idea.

**Furnace must comply with the ANSI Z21.47/CSA2.3 standard. Excludes Oil or Drum type furnaces. Do not install the PAA on any furnaces or applications where supply air temperature could exceed 93.3 °C / 200 °F, or where the furnace output capacity is greater than 300% of the rated PAA heating capacity. See Installation Manual for further information.



*All versions of models MXZ-4C36NAHZ, MXZ-5C42NAHZ, MXZ-8C48NAHZ, PUZ-HA24NHA, PUZ-HA30/36NKA. Includes tolerance. Units can operate down to -30°C and beyond, depending on conditions. To be installed by a trained and licensed refrigeration mechanic. Suitable for installation with an ANSI certified gas furnace (Z21.47/CSA2.3). For detailed requirements, review PAA Installation Manual at: <http://mitsubishitechinfo.ca>.

10 YEAR[†]
PARTS & COMPRESSOR
WARRANTY

With over 100 years of experience, Mitsubishi Electric is known for its exceptional quality and reliability. We are so confident in our product that each system is backed by our 10 year parts and compressor warranty[†]

SMALL SIZE. LOW NOISE.

Mitsubishi Electric's outdoor units are whisper quiet and hybrid-compatible units are only 13 inches deep – which sits perfectly alongside your exterior wall and gives you back more of your precious backyard and patio space than a traditional A/C system can.

Electric and Hybrid heating is the future of home heating.

 100% heating power at -15°C

 Available in standard or Cold Climate heat pump featuring Hyper Heat (H2i™) technology that operates down to -30°C*

 Superior efficiency AC replacement

 Blending of technologies for comfort, energy savings and environmental benefit

 Reduces fossil fuel consumption and emissions

 Compatible with multi-zone systems addressing hot or cold spots in the home

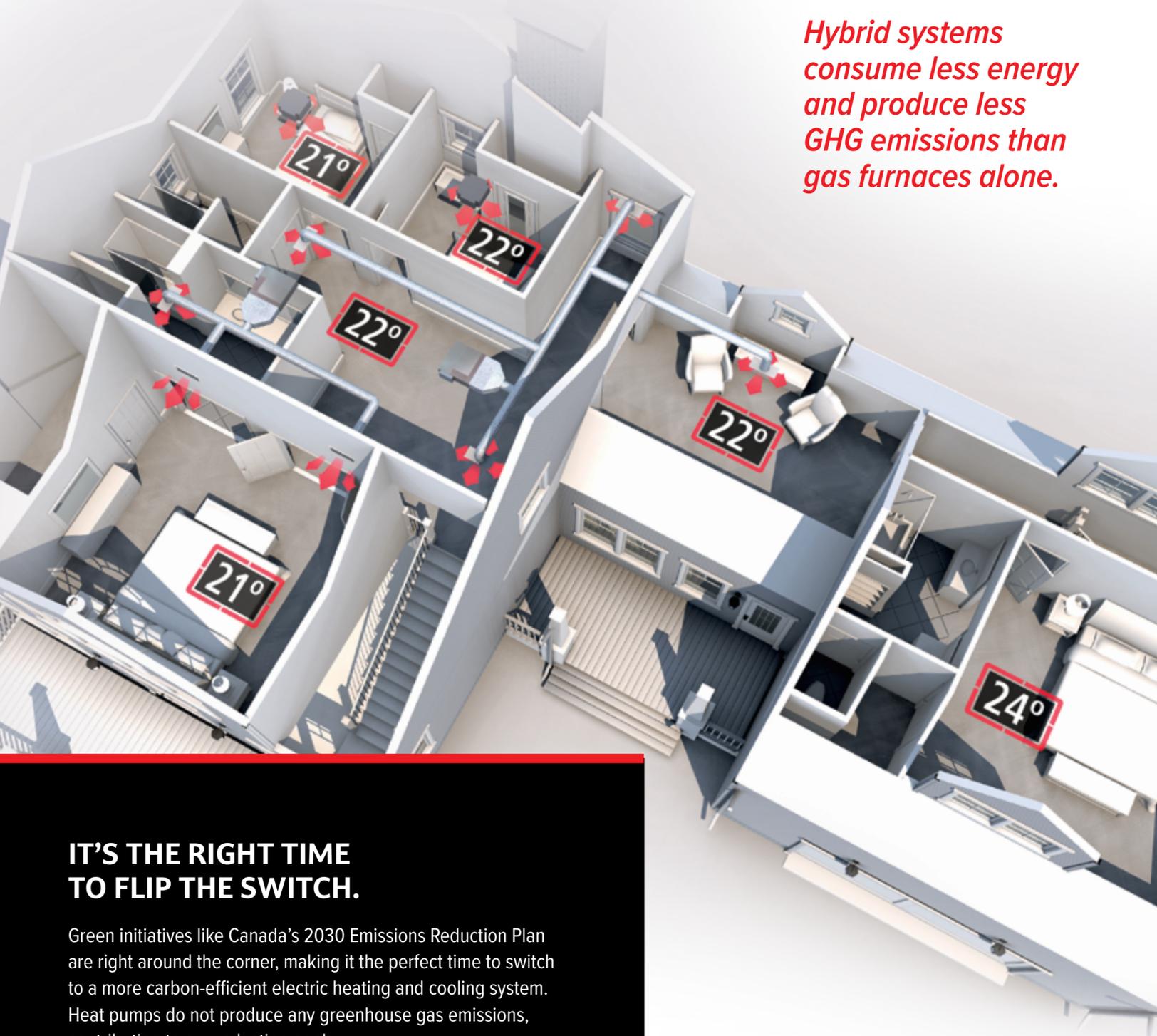
 Integration with any existing gas/ electric/propane furnace**

*When installed and registered by a MEQ certified HVAC (Heating, Ventilation, and Air Conditioning) Contractor. Certain conditions, restrictions and/or limitations apply. See warranty terms and conditions for complete details.

MULTI-ZONE COMFORT THAT GOES BEYOND

With the Hybrid Heating and Cooling System, you have the option to heat and cool specific zones to their own unique comfort levels. We call this “Multi-Zone” heating and cooling, and you can create up to 8 different zones, each with their own unique temperature. The bedroom, your children’s playroom, the kitchen, and other areas can be set to be cooler, warmer, or even off entirely for greater efficiency. With our Multi-Zone system, you can have the best of everything – both central cooling and hybrid heating as well as individual room comfort.

*Hybrid systems
consume less energy
and produce less
GHG emissions than
gas furnaces alone.*

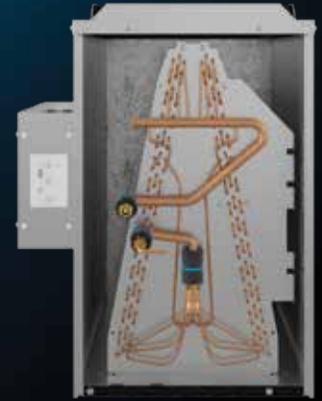


IT'S THE RIGHT TIME TO FLIP THE SWITCH.

Green initiatives like Canada’s 2030 Emissions Reduction Plan are right around the corner, making it the perfect time to switch to a more carbon-efficient electric heating and cooling system. Heat pumps do not produce any greenhouse gas emissions, contributing to our reduction goals.

A SOLUTION FOR ANY HOME

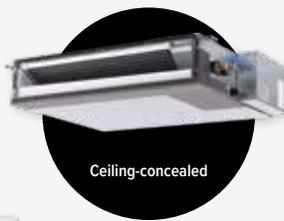
Our Hybrid Heating and Cooling System is designed to provide unparalleled levels of flexibility in home comfort. In addition to providing central heating and cooling, there is also the option of addressing hot and cold spots in your home, like that room over the garage that tends to get very hot in the summer.



Multi-zone indoor units:



Wall-mounted



Ceiling-concealed



4-Way Cassette



Floor-mounted



One-Way Cassette



Multi-Position



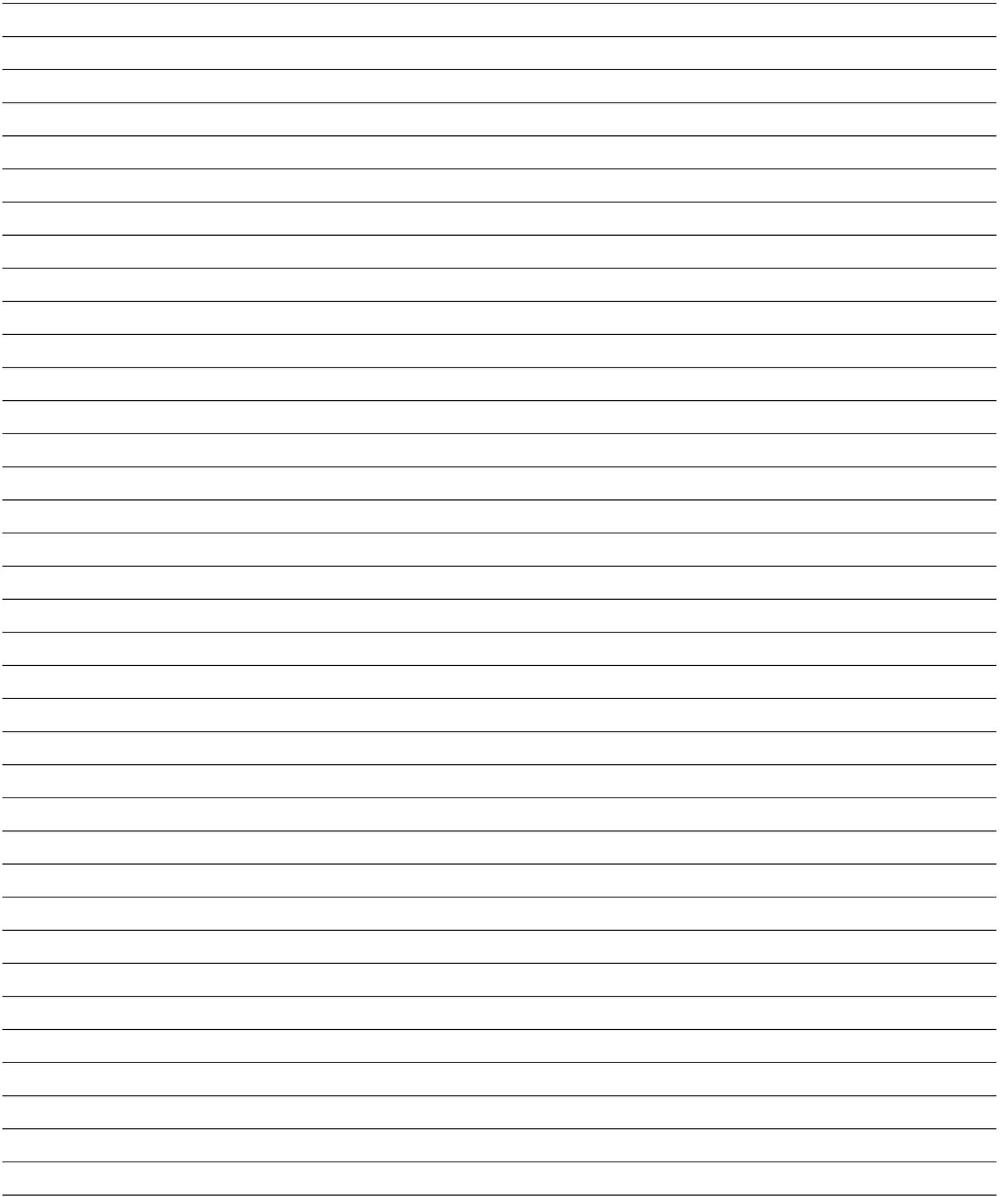
STANDARD HEAT PUMPS & AIR CONDITIONERS

INDOOR UNIT MODEL			PAA-A18AA/BA	PAA-24AA/BA	PAA-30AA/BA	PAA-36BA/CA	PAA-42BA/CA	
OUTDOOR UNIT MODEL			PUZ/PUY-A24NHA	PUZ/PUY-A24NHA	PUZ/PUY-A30NHA	PUZ/PUY-A36NKA	PUZ/PUY-A42NKA	
Capacity Rated	Cooling	Btu/h	18,000	24,000	30,000	36,000	42,000	
Capacity Rated	Heating@8°C	Btu/h	19,000	26,000	32,000	38,000	46,000	
Capacity Rated	Heating@8°C	Btu/h	13,800	15,400	20,800	29,000	32,400	
Capacity Max	Heating@-15°C	Btu/h	12,400	13,900	18,700	26,300	29,300	
Power Consumption Max	Heating@-15°C	W	1,400	1,600	2,000	2,800	3,200	
EER/EER2	Cooling		12.5 / 12	12.5 / 11.5	10 / 9.5	11 / 9.5	9.5 / 9	
SEER/SEER2	Cooling		17.5 / 15	17 / 15	16 / 14.5	16.5 / 15	15.5 / 14.3	
HSPF (IV)/HSPF (IV)2/HSPF (V) 2	Heating		9.5 / 8.5 / 6.8	9.5 / 8.5 / 6.7	10.5 / 8.8 / 7.1	9.5 / 8.5 / 7.2	10 / 8.5 / 7.1	
COP (8°C/-8°C/-15°C)	Heating		3.2 / 2.52 / 2.6	3.55 / 2.44 / 2.55	3.55 / 2.57 / 2.74	3.30 / 2.67 / 2.75	3.2 / 2.36 / 2.68	
Capacity Control	Variable Speed Compressor (VCSi)							
Refrigerant	R-410A							
Power Supply	V, Phase, Hz		1 phase, 60Hz, 208/230V					
Indoor	Dimensions	W (inches)	14-1/2 / 17/1/2	14-1/2 / 17/1/2	14-1/2 / 17/1/2	17/ 1/2 / 21	17-1/2 / 21	
		D (inches)	21-3/8	21-3/8	21-3/8	21-3/8	21-3/8	
		H (inches)	26-3/8	26-3/8	26-3/8	31	31	
	Weight -Unit+panel	lbs	66/74	66/76	66/76	85/100	85/100	
	Airflow	CFM	525	700	875	1050	1225	
Outdoor	Dimension	W (inches)	37 13/32			41 5/16		
	(H x W x D)	D (Inches)	13					
		H (Inches)	37 1/8			52 11/16		
	Unit Operating Temp. Range	Cooling Intake Air Temp. (Maximum/Minimum)	D.B. 46°C D.B. -18°C Requires ME windscreen for operation below -5°C					
		Heating Intake Air Temp. (Maximum/Minimum)	D.B. 21°C D.B. -20°C					
	Weight	lbs.	190	190	261	283		
	Airflow	CFM Dry	1940	1940	3880	3319		
	Sound	dB(A) cool/heat	52/53				49/51	
	MOCP	A	27	27	40	42	44	
	MCA	A	17	17	24	26	36	
	Pipe Size	Liq. X Gas	3/8 x 5/8					
	Max. Height Difference	Ft. (m)	100 (30)					
	Max. Pipe Length	Ft. (m)	165 (50)	165 (50)	245 (75)			

COLD CLIMATE HEAT PUMPS



INDOOR UNIT MODEL			PAA-24AA/BA	PAA-30AA/BA	PAA-36B/CA	
OUTDOOR UNIT MODEL			PUZ-HA24NHA	PUZ-HA30NKA	PUZ-HA36NKA	
Capacity Rated	Cooling	Btu/h	24,000	30,000	36,000	
Capacity Rated	Heating@8°C	Btu/h	26,000	32,000	38,000	
Capacity Rated	Heating@-8°C	Btu/h	16,000	23,000	28,200	
Capacity Max	Heating@-15°C	Btu/h	26,000	32,000	38,000	
Capacity Max	Heating@-25°C	Btu/h	20,800	25,600	30,400	
Total Input (Rated)	Cooling	W	2,180	2,400	3,270	
Power Consumption Max	Heating@-15°C	W	4,100	4,500	5,400	
EER/EER2	Cooling		11 / 14.3	12.5 / 14.5	11 / 14.3	
SEER/SEER2	Cooling		15 / 14.3	16 / 14.5	15.5 / 14.3	
HSPF (IV)/HSPF (IV)2/HSPF (V)2	Heating		9.5 / 8.5 / 7.1	10 / 8.8 / 7.2	9.8 / 8.8 / 7.3	
COP (8°C/-8°C/-15°C)	Heating		3.55 / 2.02 / 1.85	3.55 / 2.04 / 2.08	3.15 / 1.97 / 2.06	
Capacity Control	Variable Speed Compressor (VCSi)					
Refrigerant	R-410A					
Power Supply	V, Phase, Hz		208/230V, 1 phase, 60Hz			
Indoor	Dimensions	W (inches)	14 - 1/2 / 17 - 1/2	14 - 1/2 / 17 - 1/2	17 - 1/2 / 21	
		D (inches)	21 - 3/8	21 - 3/8	21 - 3/8	
		H (inches)	26 - 3/8	26-3/8	31	
	Weight	lbs	66/76	66/76	85/100	
	Airflow	CFM	700	875	1050	
Outdoor	Dimension	W (inches)	37 13/32	41 5/16		
	(H x W x D)	D (Inches)	13			
		H (Inches)	37 1/8	52 11/16		
	Unit Operating Temperature Range	Cooling Intake Air Temp. (Maximum/Minimum)	D.B. 46°C D.B. -18°C Requires ME windscreen for operation below -5°C			
		Heating Intake Air Temp. (Maximum/Minimum)	D.B. 24°C D.B. -25°C			
	Weight	lbs.	190	261		
	Airflow	CFM Dry	1940	3880		
	MOCP	A	27	40	42	
	MCA	A	17	24	26	
	Pipe Size	Liq. X Gas	3/8 x 5/8			
	Max. Height Difference	Ft. (m)	100 (30)			
	Max. Pipe Length	Ft. (m)	165 (50)	245 (75)		





Changes for the Better

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