



**EASY INSTALLATION**

# PRODUCT CATALOG

# **QUICK CONNECT**

# **MINI-SPLITS**



SINGLE-ZONE | MULTI-ZONE

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**1 YEAR**

FULL REPLACEMENT  
WARRANTY

## **1 YEAR FULL REPLACEMENT WARRANTY**

### *Quick Connect Mini-Splits*

We stand behind the quality of our products and their performance with a full replacement warranty. The warranty covers all defects in workmanship and the internal parts of your quick connect mini-split for 1 year from the date of purchase.

**SCAN QR CODE**  
TO VIEW FULL WARRANTY



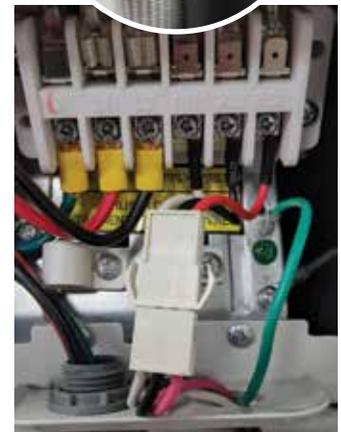
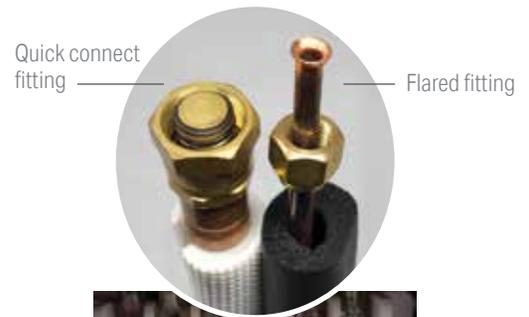
# PERFECT AIRE QUICK CONNECT MINI-SPLIT SYSTEMS

Mini-splits are the most energy efficient alternative to window or portable air conditioners, and are easier to install than traditional central air conditioning units that require ductwork. The self-contained system is perfect for home additions, garages, sun rooms, or any space that would benefit from supplemental cooling and heating. However, standard mini-split systems require an experienced HVAC professional to handle refrigerant and flared connections that are notorious for leaking. **Enter the Quick Connect.**

Perfect Aire Quick Connect mini-splits were specifically developed to simplify the installation process, and eliminate the need to flare and vacuum refrigerant lines. Although designed with the experienced

DIY-er in mind, even seasoned professionals can benefit from Quick Connects by drastically shortening your installation time.

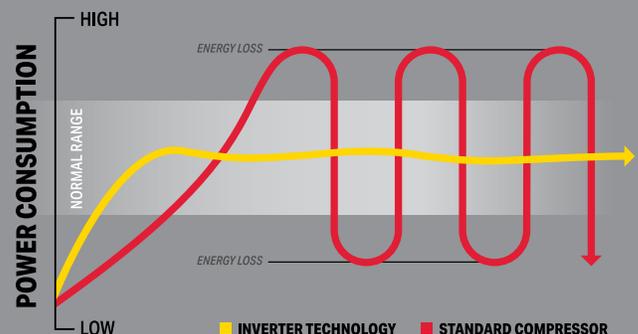
Quick Connect systems use a pre-vacuumed and charged line set that connects with mechanical connections instead of a standard flare connection. This connection prevents refrigerant leaks that are common with flared connections. The pre-charged line sets also eliminate the need to vacuum and charge the refrigerant on-site. Perfect Aire Quick Connect systems also include a pre-wired indoor head that simply plugs into the outdoor condenser, alleviating cross-wiring issues. Just connect the indoor unit and outdoor condenser, and you're ready to go!



Easy plug-in wiring

## THE BENEFIT OF INVERTER TECHNOLOGY

To control room temperatures and maintain desired settings, the inverter compressor only uses energy required rather than full power like a standard compressor. Once it turns on and reaches the desired setting, the inverter compressor will remain at that setting until more supply is needed. This prevents the unit from turning on and off frequently and uses different rotation speed to save energy and operate more quietly than standard compressors.



# SYSTEM FEATURES



**A. INDOOR AIR HANDLER**

- Indoor unit with digital display, remote control, and vertical/horizontal auto swing. Includes easy-to-attach wall bracket and side knock-outs to allow piping installation from right side, left side and rear
- Pre-wired 25' foot communication cable connects indoor and outdoor units
- Each indoor unit includes an accessory kit with a 15' drain tube, collar, 1 duct seal, and 2 rolls of vinyl tape

**B. Wi-Fi ENABLED THROUGH SMART HOME APP**

- Allows you to use your smartphone\* to control the unit with a multi-platform compatible app. \*Smartphone not included.

**C. iFEEL REMOTE CONTROL**

- Built-in remote control sensor (use remote as a thermostat anywhere in the room)

**D. OUTDOOR CONDENSER**

- HyperTek technology allows the system to run in extreme temperatures down to -13°F (Multi-zone only)
- GOLDEN FIN corrosion coated coils withstand corrosive outdoor elements

**E. QUICK CONNECT LINE SET**

(25' included with Single-Zone Systems; sold separately for Multi-Zone Systems)

- Quick connect fittings provide secure mechanical connection of the liquid and gas refrigerant lines
- Standard line sets available in 15' and 25' lengths. Line set extensions can be used for longer runs up to 70'

**F. WIRED THERMOSTAT** (optional accessory)

- Traditional wall thermostat places your control at a central location



Ultra-easy installation



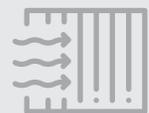
High performance inverter heat pump



7 indoor fan speeds and 3 intelligent modes: Smart, Super and Auto



Includes temperature sensing remote control and mobile app access



Eco-friendly, reusable filter

# SINGLE-ZONE

## DUCTLESS HEATING & COOLING IN ONE SYSTEM

Single-zone ductless mini-split systems provide year-round comfort. A great heating or cooling solution for any room that is otherwise too hot or cold.



# MULTI-ZONE

## FLEXIBILITY OF MULTI-ZONE SYSTEMS

Operate up to 3 rooms at different temperatures for comfort and efficiency.



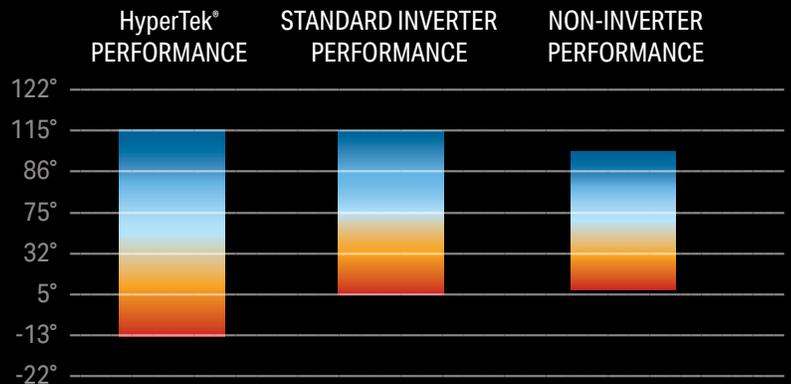
# HyperTek® Heat

(MULTI-ZONE)

## COLD CLIMATE CONTROL IDEAL FOR NORTHERN CLIMATES

HyperTek® Heat technology allows for heating down to -13°F outdoor temperature, making it an excellent supplemental heat source.

### OUTDOOR OPERATIONAL TEMPERATURES



# SINGLE-ZONE SYSTEMS

## No ducts? No problem!

Perfect Aire Quick Connect Single-Zone Mini-Splits provide maximum comfort, efficiency and control for single space environments. Systems range from 9,000 BTU up to 36,000 BTU for use as a primary cooling source or as a supplemental cooling and heating solution to more challenging applications.



### 25' PRE-CHARGED LINE SET INCLUDED!

**Installation kit includes:** mounting bracket and hardware; insulation; drain joint and rubber seal; (4) flare nuts; remote control wall bracket; drain tube; duct seal; vinyl wrap; wall collar; (4) anti-vibration pads; (2) condenser couplers.

#### YEAR-ROUND USE

All-in-one solution provides efficient cooling and supplemental heating for use throughout every season.

#### DUCTLESS INSTALLATION

Connect the indoor unit to the outdoor condenser with a line set to provide climate control in spaces where ductwork isn't an option.

#### AUTO-SWING LOUVERS

Direct the air where you want it, or activate the auto-swing for a soft, constantly moving breeze.

#### iFEEL REMOTE CONTROL

Includes a full-function remote control with a built-in thermostat that puts you in control of your comfort from anywhere in the room.

#### LINE SET EXTENSIONS

Add length to the included 25' line set with one of our 15' line set extensions, shown on page 14.

#### SMART HOME COMPATIBLE

Connect your system to Wi-Fi and control it with voice commands or use the wireless app.

#### 24-HOUR TIMER

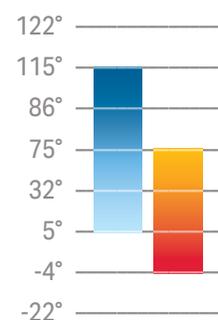
Programmable timer allows you to automatically set when your system turns on and off.

#### ADDITIONAL FEATURES

- Inverter compressor for quieter more efficient operation
- Golden-fin anti-corrosive coating
- Condenser auto-defrost
- Auto-restart if power has been interrupted
- Leak detection monitoring
- Compressor/base pan heater for extreme cold
- Cool, Heat, Dry, and Fan modes
- 7 fan speeds
- Timer and Sleep mode
- Reusable, washable filter
- Wireless app & smart home control

#### OPERATING RANGE (°F)

COOLING | HEATING



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TO VIEW SUBMITTAL SHEETS





# SPECIFICATIONS

	3PAMSHQC09	3PAMSHQC12	3PAMSHQC18	3PAMSHQC24	3PAMSHQC36-2
<b>INDOOR UNIT</b>	3PAMSHQCW09	3PAMSHQCW12	3PAMSHQCW18	3PAMSHQCW24	3PAMSHQCW36-2
<b>OUTDOOR UNIT</b>	3PAMSHQCO09	3PAMSHQCO12	3PAMSHQCO18	3PAMSHQCO24	3PAMSHQCO36-2
Energy Star Certified					—
Coverage Area (Sq. Ft.)	375	500	750	1,000	1,500
<b>POWER REQUIREMENTS</b>					
Power Supply (V, Ph, Hz)	115,60,1	115,60,1	208-230,60,1	208-230,60,1	208-230,60,1
Minimum Circuit Ampacity (A)	15	20	15	25	30
Maximum Fuse Size (A)	20	25	20	30	35
<b>COOLING</b>					
Rated Capacity (BTU/h)	9000	12000	18000	234000	35000
Input Power (W)	700	950	1385	1880	4200
SEER/EER	19.5 / 12.8	22.0 / 12.6	23.3 / 13	21 / 12.45	16.4 / 8.33
<b>HEATING</b>					
Rated Capacity (BTU/h)	9500	13000	19000	26000	35000
Input Power (W)	780	1100	1638	2500	3500
COP	3.56	3.46	3.4	3.05	2.93
HSPF4 /5	10 / 8.0	10.5 / 8.4	11.6 / 9.5	10.5 / 8.3	8.8 / 6.8
<b>OUTDOOR UNIT</b>					
Dimension (W×D×H) (in)	28.25 × 9.5 × 19	32 × 11 × 23	34 × 12.25 × 25.75	41.5 × 19.75 × 31.5	35 × 14.5 × 31.5
Dimension (W×D×H) (mm)	718 × 242 × 483	813 × 280 × 585	864 × 312 × 655	1055 × 502 × 801	889 × 369 × 801
Net Weight (lb/kg)	65.25 / 30	78.5 / 36	99.25 / 46	134.5 / 62	132.25 / 60
Outdoor Noise Level (dBA)	53	53	55	58	60
Min. In/Outdoor Connect Cable	Cable Included				
<b>INDOOR UNIT</b>					
Indoor Air Flow (Hi/Mi/Lo) (CFM)	343 / 296 / 249	367 / 314 / 255	647 / 589 / 483	651 / 562 / 444	858 / 710 / 592
Indoor Noise Level (Hi/Mi/Lo/Silent) (dBA)	39 / 32 / 29 / 26	39 / 32 / 29 / 26	45 / 41 / 37 / 34	47 / 42 / 36 / 33	52 / 50 / 45 / 40 / 38
Dimension (W×D×H) (in)	33 × 8.75 × 11	33 × 8.75 × 11	43.5 × 9.75 × 13	43.5 × 9.75 × 13	53.25 × 10.5 × 14.5
Dimension (W×D×H) (mm)	838 × 222 × 279	839 × 223 × 280	1105 × 248 × 331	1105 × 248 × 331	1353 × 267 × 369
Net Weight (lb/kg)	20 / 9	20 / 10	32 / 15	32 / 15	39.75 / 19
<b>REFRIGERANT &amp; PIPING (R410A)</b>					
Factory Charge (oz/g)	33 / 950	41 / 1160	55 / 1550	76 / 2150	81 / 2300
Included Pre-Charge Line Set Length (ft.)/(m.)	25 / 5	25 / 5	25 / 5	25 / 5	25 / 5
Included Pre-Charge Line Set Model Number	1DALS14-38-25	1DALS14-38-25	1DALS14-12-25	1DALS38-58-25	1DALS38-58-25
Liquid Side (in/mm)	1/4	1/4	1/4	3/8	3/8
Gas Side (in/mm)	3/8	3/8	1/2	5/8	5/8
Max. Length (ft/m)	65/19.8	65/19.8	65/19.8	65/19.8	65/19.8
Max. Difference in Height (IDU+ODU) (ft/m)	16.5 / 5	16.5 / 5	16.5 / 5	16.5 / 5	33 / 10
<b>SYSTEM SHIPPING DIMENSIONS</b>					
Shipping Dimension (W×D×H) (in)	24 × 40 × 44	24 × 40 × 44	24 × 48 × 47	24 × 48 × 52	48 × 40 × 62
Shipping Dimension (W×D×H) (mm)	610 × 1016 × 1118	610 × 1016 × 1118	610 × 1220 × 1194	610 × 1220 × 1321	1220 × 1016 × 1575
Shipping Weight (lb/kg)	131 / 60	144 / 66	188 / 86	225 / 103	254 / 116
<b>Wi-Fi® CONNECTION</b>					
Wi-Fi® Kit Available	Built-in Wi-Fi®				
<b>OPTIONAL ACCESSORIES</b>					
Line Set Extension (Model Number)	1DALS14-38-15-75G	1DALS14-38-15-75G	1DALS14-12-15-75G	1DALS38-58-15-75G	1DALS38-58-15-75G
7-Day Wired Controller (Model Numbers)	QC-WIRE-CON-HA04	QC-WIRE-CON-HA04	QC-WIRE-CON-HA04 QC-WIRE-CON-HC01	QC-WIRE-CON-HA04 QC-WIRE-CON-HC01	QC-WIRE-CON-HA04

# MULTI-ZONE SYSTEMS

Zoned heating and cooling is easier than you think with a Perfect Aire Quick Connect Multi-Zone Mini-Split. Each system uses one outdoor condenser unit connected to up to three independently-controlled indoor air handlers. Hyper Heat performance offers consistent warmth in extremely cold environments, down to -13°F.

Multi-zone system components are sold separately to give you the most flexibility for installation. Choose the indoor units, condenser, and line set kit that work best for your unique needs.



**Installation kit includes:** mounting bracket and hardware; insulation; drain joint and rubber seal; (4) flare nuts; waterproof cord connector; remote control wall bracket; drain tube; duct seal; vinyl wrap; wall collar; (4) anti-vibration pads; FA09 adaptor (18k indoor model only).

## YEAR-ROUND USE

All-in-one solution provides efficient cooling and supplemental heating for use throughout every season.

## DUCTLESS INSTALLATION

Connect the indoor units to the outdoor condenser with a line set (sold separately) to provide climate control in spaces where ductwork isn't an option.

## AUTO-SWING LOUVERS

Direct the air where you want it, or activate the auto-swing for a soft, constantly moving breeze.

## iFEEL REMOTE CONTROL

Includes a full-function remote control with a built-in thermostat that puts you in control of your comfort from anywhere in the room.

## LINE SETS SOLD SEPARATELY

Customize your system with one of our line set kits, shown on page 14.

## SMART HOME COMPATIBLE

Connect your system to Wi-Fi and control it with voice commands or use the wireless app.

## 24-HOUR TIMER

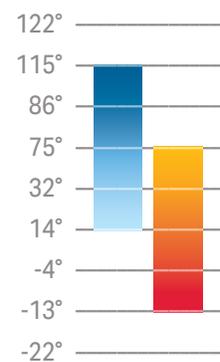
Programmable timer allows you to automatically set when your system turns on and off.

## ADDITIONAL FEATURES

- Inverter compressor for quieter more efficient operation
- Golden-fin anti-corrosive coating
- Condenser auto-defrost
- Auto-restart if power has been interrupted
- Leak detection monitoring
- Compressor/base pan heater for extreme cold
- Cool, Heat, Dry, and Fan modes
- 7 fan speeds
- Timer and Sleep mode
- Reusable, washable filter
- Wireless app & smart home control

## OPERATING RANGE (°F)

COOLING | HEATING



SCAN QR CODE  
TO VIEW SUBMITTAL SHEETS





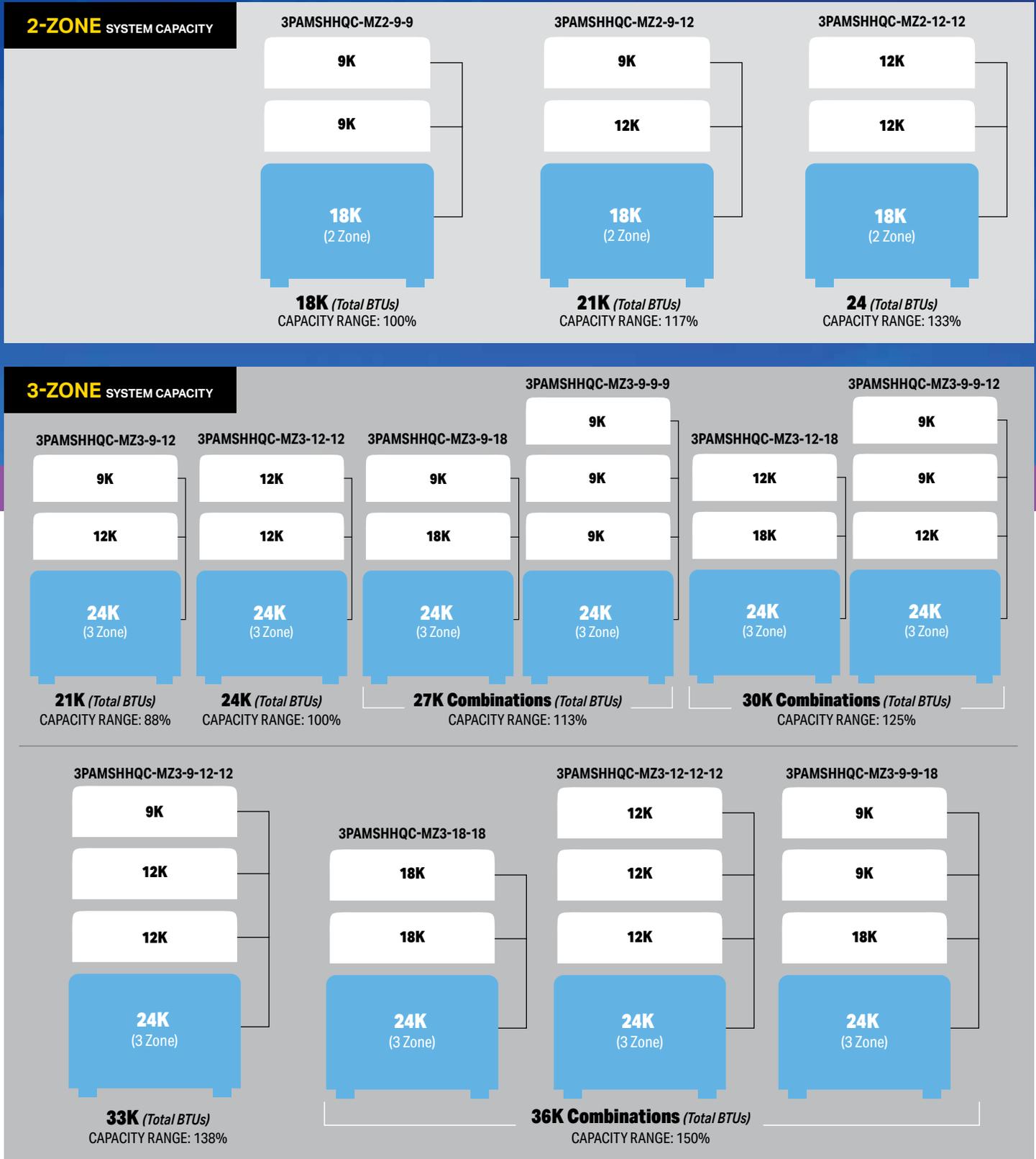
# SPECIFICATIONS

	3PAMSHHC18-MZ02	3PAMSHHC24-MZ03
<b>OUTDOOR UNIT</b>		
Coverage Area (Sq. Ft.)	—	—
<b>POWER REQUIREMENTS</b>		
Power Supply (V, Ph, Hz)	208/230, 50/60, 1	208/230, 50/60, 1
Minimum Circuit Ampacity (A)	21	25
Maximum Fuse Size (A)	30	30
<b>COOLING</b>		
Rated Capacity (BTU/h)	18000	24000
Input Power (W)	1440	1920
SEER/EER	22/12.5	22/12.5
<b>HEATING</b>		
Rated Capacity at 47°F (BTU/h)	18000	24000
Input Power (W)	1530	1920
COP	3.45	3.66
HSPF4 /5 (outdoor) / HSPF (indoor)	11 / 9	11 / 8.9
Rated Capacity at 17°F (BTU/h)	12200	15400
<b>OUTDOOR UNIT</b>		
Dimension (W×D×H) (in)	34 × 12.25 × 26.5	37.5 × 13.5 × 33
Dimension (W×D×H) (mm)	860 × 310 × 670	950 × 340 × 840
Net Weight (lb/kg)	117/53	158.75/72
Outdoor Noise Level (dBA)	55	59
Min. In/Outdoor Connect Cable	Stranded - per local code	
<b>INDOOR UNIT</b>		
Indoor Air Flow (Hi/Mi/Lo) (CFM)	—	—
Indoor Noise Level (Hi/Mi/Lo/Silent) (dBA)	—	—
Dimension (W×D×H) (in)	—	—
Dimension (W×D×H) (mm)	—	—
Net Weight (lb/kg)	—	—
<b>REFRIGERANT &amp; PIPING (R410A)</b>		
Factory Charge per 25ft/5m (oz/g)	63.5/1800	81/2300
Additional Charge per Foot (oz/g)	0.161/4.56	0.161/4.56
Liquid Side (in/mm)	1/4 / 6.35	1/4 / 6.35
Gas Side (in/mm)	3/8 / 9.52	3/8 / 9.52
Max. Length All Zones (ft/m)	164/50	197/60
Max. Length Per Zone (ft/m)	82/25	66/20
Max. Difference in Height (IDU+ODU) (ft/m)	49/14.9	49/14.9
Max. Difference in Height (IDU+IDU) (ft/m)	16.5/5	16.5/5
<b>Wi-Fi CONNECTION</b>		
Wi-Fi Kit Available	—	—
<b>OPTIONAL ACCESSORIES</b>		
7-Day Wired Controller (Model Numbers)	—	—

3PAMSHQCW09-U230	3PAMSHQCW12-U230	3PAMSHQCW18-U230
<b>INDOOR UNIT</b>		
375	500	750
208-230,60,1	208-230,60,1	208-230,60,1
—	—	—
—	—	—
9000	12000	18000
655	960	1385
22.5/13.7	20/12.5	23.3/13
9500	13000	19000
720	1110	1638
3.88	3.42	3.4
10.7	11	11.6
—	—	—
—	—	—
—	—	—
—	—	—
343 / 296 / 249	367 / 314 / 255	647 / 589 / 483
39 / 32 / 29 / 26	39 / 32 / 29 / 26	45 / 41 / 37 / 34
33 x 8.75 x 11	33 × 8.75 × 11	43.5 × 9.75 × 13
838 x 222 x 279	839 × 223 × 280	1105 × 248 × 331
20 / 9	20 / 10	32 / 15
—	—	—
.22 / 6.23	.22 / 6.23	.22 / 6.23
1/4 / 6.35	1/4 / 6.35	1/4 / 6.35
3/8 / 9.52	3/8 / 9.52	1/2 / 12.7
—	—	—
—	—	—
—	—	—
—	—	—
Built-in Wi-Fi®		
QC-WIRE-CON-HA04 QC-WIRE-CON-HC01	QC-WIRE-CON-HA04 QC-WIRE-CON-HC01	QC-WIRE-CON-HA04 QC-WIRE-CON-HC01

# QUICK CONNECT MULTI-ZONE SYSTEM COMBINATIONS

Allowable connected indoor unit capacity is 80–150%. **Connecting one indoor unit is not allowed**—even within 80–150% capacity. Refer to the combination and capacity chart on the next page for actual capacity output.



2-ZONE SYSTEM CAPACITY	COOLING CAPACITY										
	Capacity per indoor unit		Total Capacity (Btu/h)			Power Input(W)			(A)	SEER	EER
	A	B	NOM	MIN	MAX	NOM	MIN	MAX			W/W
<i>MODEL NUMBERS</i>	Btu/h	Btu/h									
3PAMSHHC-MZ2-9-9	9,000	9,000	18,000	7,500	24,000	1,440	510	2,610	6.5	22.0	3.66
3PAMSHHC-MZ2-9-12	8,500	9,500	18,000	7,500	24,000	1,440	510	2,610	6.5	22.0	3.66
3PAMSHHC-MZ2-12-12	9,000	9,000	18,000	7,500	24,000	1,440	510	2,610	6.5	22.0	3.66

2-ZONE SYSTEM CAPACITY	HEATING CAPACITY										
	Capacity per indoor unit		Total Capacity (Btu/h)			Power Input(Btu/h)			(A)	HSPF4	COP
	A	B	NOM	MIN	MAX	NOM	MIN	MAX			W/W
<i>MODEL NUMBERS</i>	Btu/h	Btu/h									
3PAMSHHC-MZ2-9-9	9,000	9,000	18,000	5,800	28,700	1530	450	3,150	6.9	11.0	3.45
3PAMSHHC-MZ2-9-12	8,500	9,500	18,000	5,800	28,700	1530	450	3,150	6.9	11.0	3.45
3PAMSHHC-MZ2-12-12	9,000	9,000	18,000	5,800	28,700	1530	450	3,150	6.9	11.0	3.45

3-ZONE SYSTEM CAPACITY	COOLING CAPACITY											
	Capacity per indoor unit			Total Capacity (Btu/h)			Power Input(W)			(A)	SEER	EER
	A	B	C	NOM	MIN	MAX	NOM	MIN	MAX			W/W
<i>MODEL NUMBERS</i>	Btu/h	Btu/h										
3PAMSHHC-MZ3-9-12	8,900	12,000		20,900	7,400	27,000	1,815	400	2,640	8.3	18.00	3.37
3PAMSHHC-MZ3-9-18	8,500	15,000		23,500	7,600	28,600	1,920	420	2,640	8.7	19.00	3.59
3PAMSHHC-MZ3-12-12	11,000	11,000		22,000	7,600	28,600	1,915	400	2,640	8.7	18.00	3.37
3PAMSHHC-MZ3-12-18	9,500	14,500		24,000	7,800	29,500	1,920	420	2,640	8.7	19.00	3.66
3PAMSHHC-MZ3-18-18	12,000	12,000		24,000	8,000	30,200	1,940	440	2,640	8.8	20.00	3.62
3PAMSHHC-MZ3-9-9-9	8,000	8,000	8,000	24,000	8,000	30,200	1,920	420	2,640	8.7	22.00	3.66
3PAMSHHC-MZ3-9-9-12	7,400	7,400	9,200	24,000	8,000	30,200	1,920	420	2,640	8.7	22.00	3.66
3PAMSHHC-MZ3-9-9-18	6,200	6,200	11,600	24,000	8,000	30,200	1,920	440	2,640	8.7	22.00	3.66
3PAMSHHC-MZ3-9-12-12	7,000	8,500	8,500	24,000	8,000	30,200	1,920	420	2,640	8.7	22.00	3.66
3PAMSHHC-MZ3-12-12-12	8,000	8,000	8,000	24,000	8,000	30,200	1,920	420	2,640	8.7	22.00	3.66

3-ZONE SYSTEM CAPACITY	HEATING CAPACITY											
	Capacity per indoor unit			Total Capacity (Btu/h)			Power Input(Btu/h)			(A)	HSPF4	COP
	A	B	C	NOM	MIN	MAX	NOM	MIN	MAX			W/W
<i>MODEL NUMBERS</i>	Btu/h	Btu/h										
3PAMSHHC-MZ3-9-12	8,900	12,000		20,900	4,400	27,000	1,830	400	3,600	8.4	9.50	3.35
3PAMSHHC-MZ3-9-18	8,700	15,300		24,000	4,600	30,000	1,930	420	4,020	8.8	10.00	3.64
3PAMSHHC-MZ3-12-12	11,000	11,000		22,000	4,400	28,000	1,910	400	3,700	8.7	9.50	3.38
3PAMSHHC-MZ3-12-18	9,500	14,500		24,000	4,600	32,000	1,930	420	4,020	8.8	10.00	3.64
3PAMSHHC-MZ3-18-18	12,000	12,000		24,000	4,800	34,000	1,950	440	4,020	8.9	10.00	3.61
3PAMSHHC-MZ3-9-9-9	8,000	8,000	8,000	24,000	5,200	37,000	1,920	420	4,020	8.7	11.00	3.66
3PAMSHHC-MZ3-9-9-12	7,400	7,400	9,200	24,000	5,200	37,000	1,920	420	4,020	8.7	11.00	3.66
3PAMSHHC-MZ3-9-9-18	6,200	6,200	11,600	24,000	5,200	37,000	1,920	440	4,020	8.7	11.00	3.66
3PAMSHHC-MZ3-9-12-12	7,000	8,500	8,500	24,000	5,200	37,000	1,920	420	4,020	8.7	11.00	3.66
3PAMSHHC-MZ3-12-12-12	8,000	8,000	8,000	24,000	5,200	37,000	1,920	420	4,020	8.7	11.00	3.66

# PLANNING YOUR QUICK CONNECT MULTI-ZONE SYSTEM

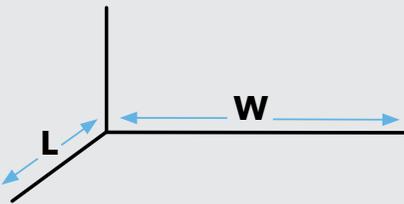
1. Make sure you have adequate power to run the mini split system. Your Multi-zone system requires a 230V dual pole 30-amp breaker.
2. Determine the square foot of reach room and pick the appropriate indoor unit for that room. Oversizing is not always better. If the room is too small and the head is too large, the unit will short cycle and not remove the humidity from the room.



## HOW TO CHOOSE THE RIGHT INDOOR UNIT:

### MEASURE AREA OF THE ROOM

CALCULATE ROOM SIZE:  
room length x room width = sq. ft.



### MATCH ROOM SIZE WITH CORRECT BTUs

ROOM SIZE	BTU SIZE
375 SQ. FT. →	9,000 BTU
500 SQ. FT. →	12,000 BTU
750 SQ. FT. →	18,000 BTU

### MAKE ANY ADJUSTMENTS

- Increase BTU 10% for sunny rooms. Decrease BTU 10% for shaded rooms
- Add 600 BTUs for each additional person over two
- Add 4,000 BTUs if unit is used in a kitchen

3. Determine where to install the indoor head in each room. An exterior wall works best. If it must be on an interior wall you may need a condensate pump to remove the condensation in the summer. This is sold separately.
4. Determine where the outdoor unit will be placed.
  - Try to place the outdoor unit centrally to all the indoor units.
  - Keep in mind you will need to run 230v power to the unit, so try to keep it close to your electrical panel in the house.
5. Calculate your line set length for each unit. Measure from the indoor unit down the wall and over to the outdoor unit. Make sure you measure the exact route you plan on running the line set from the indoor unit to the outdoor unit. For your convenience, we sell 15' and 25' line sets. Line set lengths can be extended in 15' increments totaling 40', 60', and 70' with our line set kits, which also include longer communication cabling. See page 14 for details.

## PROJECT CALCULATOR:

### How to use this calculator:

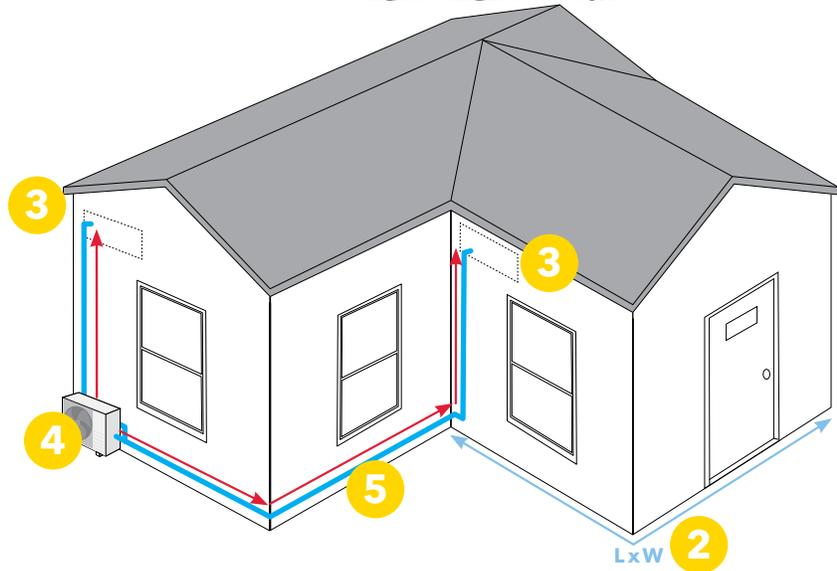
1. Follow steps 1-5 on page 12 and fill in the location of your indoor and outdoor units, the square footage of each room, and the distance from each indoor unit to the outdoor condenser.

2. Use the chart on page 12 to choose your indoor unit BTU size.

3. Choose the line set length closest to the distance between the indoor and outdoor units.

Use the chart on page 14 to find your line set model number. Distances over 25' will need a line set extension kit. Make sure the line set you choose matches the indoor unit BTU size.

4. Find the system combination on page 10 that matches your chosen indoor units and record the system model number below. *NOTE: Your actual BTU output will vary depending on your system and the number of units running at any given time. See the capacity chart on page 11 for more details.*



	ROOM LOCATION	SQUARE FOOTAGE	INDOOR HEAD SIZE (circle one)	DISTANCE FROM CONDENSER	LINE SET LENGTH (circle one)	LINE SET MODEL #
INDOOR UNIT #1			9   12   18		15   25   40   60   70	
INDOOR UNIT #2			9   12   18		15   25   40   60   70	
INDOOR UNIT #3			9   12   18		15   25   40   60   70	
SYSTEM MODEL #						

## LINE SETS & COMMUNICATION CABLES

RUN LINE SETS UP TO 70' BETWEEN INDOOR AND OUTDOOR UNITS WITH LINE SET AND COMMUNICATION CABLE EXTENSIONS.

LINE SETS	15' STANDARD			25' STANDARD			15' EXTENSION		
	1DALS14-38-15	1DALS14-12-15	1DALS38-58-15	1DALS14-38-25	1DALS14-12-25	1DALS38-58-25	1DALS14-38-15-75G	1DALS14-12-15-75G	1DALS38-58-15-75G
Liquid Connection (Flare) (in.)	1/4	1/4	3/8	1/4	1/4	3/8	1/4	1/4	3/8
Gas Connection (Flare) (in.)	3/8	1/2	5/8	3/8	1/2	5/8	3/8	1/2	5/8
Line Set Length (ft.)	15	15	15	25	25	25	15	15	15
Refrigerant Charge (g)	35	35	35	35	35	35	75	75	75
Connection Type	Condenser Flare	Extension Coupler	Extension Coupler	Extension Coupler					
Compatible Indoor Units	9K & 12K	18K	24K & 36K	9K & 12K	18K	24K & 36K	9K & 12K	18K	24K & 36K

### COMMUNICATION CABLES

1PRCOM70	70' Communication Cable for Multi-Zone Quick Connect Mini-Split
1PRCOM85	85' Communication Cable for Multi-Zone Quick Connect Mini-Split



### HOW TO CHOOSE A LINE SET:

1. Determine where to install the indoor head in each room.
2. Determine where the outdoor unit will be placed.
3. Measure the distance between the two units to determine your overall line set length, keeping in mind any bends and turns the line set may make.
  - **Shorter runs under 15'** Use one of our pre-charged 15' line sets.
  - **Runs between 15-25'** Use one of our pre-charged 25' line sets.
  - **Longer runs over 25'** You will need a line set extension kit, which includes a longer communication cable (the indoor head comes with a 25' cable attached by default). See 40', 60', and 70' options below.

LINE SET KITS	INDOOR HEAD BTU	LINE SET	LINE SET EXTENSION	COMMUNICATION CABLE
<a href="#">1DALS14-38-40KIT</a>	9K & 12K	1 × 25'	1 × 15'	1 × 70'
<a href="#">1DALS14-38-60KIT</a>	9K & 12K	1 × 15'	3 × 15'	1 × 70'
<a href="#">1DALS14-38-70KIT</a>	9K & 12K	1 × 25'	3 × 15'	1 × 85'
<a href="#">1DALS14-12-40KIT</a>	18K	1 × 25'	1 × 15'	1 × 70'
<a href="#">1DALS14-12-60KIT</a>	18K	1 × 15'	3 × 15'	1 × 70'
<a href="#">1DALS14-12-70KIT</a>	18K	1 × 25'	3 × 15'	1 × 85'

# COMPATIBILITY CHART

- ✓ Compatible
- ✗ Not Compatible

		3PAMSHQCW09	3PAMSHQCW12	3PAMSHQCW18	3PAMSHQCW24	3PAMSHQCW36-2	3PAMSHHCW09-U230	3PAMSHHCW12-U230	3PAMSHHCW18-U230
<b>SINGLE-ZONE</b>	3PAMSHQC009	✓	✗	✗	✗	✗	✗	✗	✗
	3PAMSHQC012	✗	✓	✗	✗	✗	✗	✗	✗
	3PAMSHQC018	✗	✗	✓	✗	✗	✗	✗	✗
	3PAMSHQC024	✗	✗	✗	✓	✗	✗	✗	✗
	3PAMSHQC036-2	✗	✗	✗	✗	✓	✗	✗	✗
<b>MULTI-ZONE</b>	3PAMSHHC18-MZ02	✗	✗	✗	✗	✗	✓	✓	✗
	3PAMSHHC24-MZ03	✗	✗	✗	✗	✗	✓	✓	✓



# LINE SET COVER KITS

## 12' LINE SET COVER KIT | PROLSKIT-12

Typically used with 15' line set installations



### 12' KIT INCLUDES:

- 3 × Ducts (47.25" Ea.)
- 1 × Wall Outlet
- 1 × Flat Elbow
- 1 × End Cap
- 2 × Couplers
- 1 × Accessory Parts



### FEATURES

- Protect and hide mini-split system refrigerant lines
- Ultra-durable, easy to install, lightweight, and weatherproof
- Can be installed over existing pre-installed pipes
- Color - white (paintable)

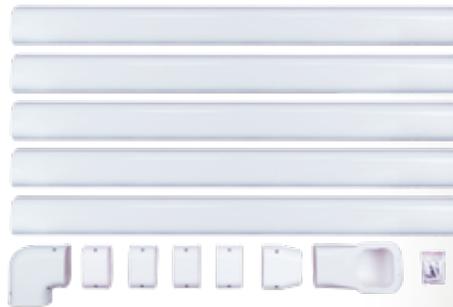
## 20' LINE SET COVER KIT | PROLSKIT-20

Typically used with 25' line set installations



### 20' KIT INCLUDES:

- 5 × Ducts (47.25" Ea.)
- 1 × Wall Outlet
- 1 × Flat Elbow
- 1 × End Cap
- 4 × Couplers
- 1 × Accessory Parts



# LINE SET ACCESSORIES



ACCESSORIES	PROLSDUCT47-3	PROLSOUTLET-3	PROLSELBOW-3	PROLSBEND-3	PROLSCAP-3	PROLSCOUPLING-3	PROLST-3	PROLSFLEX -3
PKG. DIMENSIONS (W×H×D) (in.)	4 × 2.75 × 47.25	4.5-5 × 3-3.25 × 9	4 × 3 × 6	3 × 4.25 × 4.5	2.25 × 3 × 4.5	4.5 × 3 × 2.5	3 × 4.5 × 9.25	3.5 × 4 × 2.5
MASTER PACK QUANTITY	6	50	63	78	150	180	42	24

# QUICK START INSTALLATION KIT

- For Single-Zone and Multi-Zone Condensers
- Surge protection

*Sold as kit only - products not sold separately.*

	<b>MSK001</b>
<b>PKG. DIMENSIONS (W×H×D) (in.)</b>	11.5 × 11.5 × 7
<b>MASTER PACK QUANTITY</b>	1



### DISCONNECT BOX

- 60 amp non-fused metallic
- Non-fused pullout
- Rated NEMA 3R for outdoor use
- Line, load, and ground terminals aligned for easy hook up with heavy wires
- Full dead front
- Rear, bottom and side entry knockouts
- Heavy gauge steel case
- Large internal wiring space



### DITEK SURGE PROTECTOR

- Weatherproof enclosure
- Parallel connection for easy installation
- Diagnostic LED provides positive indication of power, ground presence, and surge protection
- Auto-resets to handle multiple surge events
- Typical applications: A/C disconnect, small electrical panels, pool/well pumps
- Half the response time as similar models



### ELECTRICAL WHIP

- One 1/2" diameter × 4' long liquid tight conduit
- Three #10 THHN conductors
- One straight and one 90° non-metallic connector
- Two 3/4" and 1/2" reducing washers



### WALL SLEEVE

- Telescopic from 5" to 7 3/4" long
- 3" outside diameter
- 2 7/8" interior diameter



### VALVE ADAPTER

- Converts the 5/16" SAE charging vacuum ports to accept 1/4" SAE gauge hose set

#### KIT INCLUDES:



# INSTALLATION ACCESSORIES



### ECOPAD™ PLASTIC EQUIPMENT PAD

**EP1838-3**



### 17" HEF-T-BLOCK MOUNTING BLOCKS *(Quantity of 2 per box)*

**230-MB17W**



### MINI-SPLIT STAND *(Holds up to 400 lbs.)*

**QSMS1801**



### MINI-SPLIT CONDENSER MOUNTING BRACKET

**MA-SB35**

#### ADDITIONAL ACCESSORIES

<b>PKG. DIMENSIONS (W×H×D) (in.)</b>	38 × 3 × 18	5 × 19 × 8.5	19 × 3 × 34	33.25 × 2.75 × 3.25
<b>MASTER PACK QUANTITY</b>	1	1	1	1

# WIRELESS & WIRED FEATURES



Control your Perfect Aire Quick Connect mini split system via your smart phone or with an LCD display wired controller! All indoor units come equipped with a Wi-Fi® adaptor to control your system with the smart phone app, or connect to your existing smart home system to use voice commands.

## WIRELESS (Android & iOS)

- Daily & Weekly Schedules
- Operation Mode
- Temperature
- Fan Speed
- Running Status
- Control multiple devices in the same app



## BASIC WIRED CONTROLLER (optional accessory)

- Blue LCD display
- Timer
- Temperature
- Mode Selection
- Fan Speed

## 7-DAY WIRED CONTROLLER (optional accessory)

- Blue LCD display
- Timer
- Temperature
- Mode Selection
- Fan Speed
- Weekly Schedule and Error Code Display

Basic Wired Controller	7-day Wired Controller
QC-WIRE-CON-HA04	QC-WIRE-CON-HC01
COMPATIBLE INDOOR MODELS	
<ul style="list-style-type: none"> <li>• 3PAMSHQCW09</li> <li>• 3PAMSHQCW12</li> <li>• 3PAMSHQCW09-U230</li> <li>• 3PAMSHQCW12-U230</li> <li>• 3PAMSHQCW18-U230</li> <li>• 3PAMSHQCW18</li> <li>• 3PAMSHQCW24</li> <li>• 3PAMSHQCW36-2</li> </ul>	<ul style="list-style-type: none"> <li>• 3PAMSHQCW09-U230</li> <li>• 3PAMSHQCW12-U230</li> <li>• 3PAMSHQCW18-U230</li> <li>• 3PAMSHQCW18</li> <li>• 3PAMSHQCW24</li> </ul>

Wi-Fi® is a registered trademark of Wi-Fi Alliance®

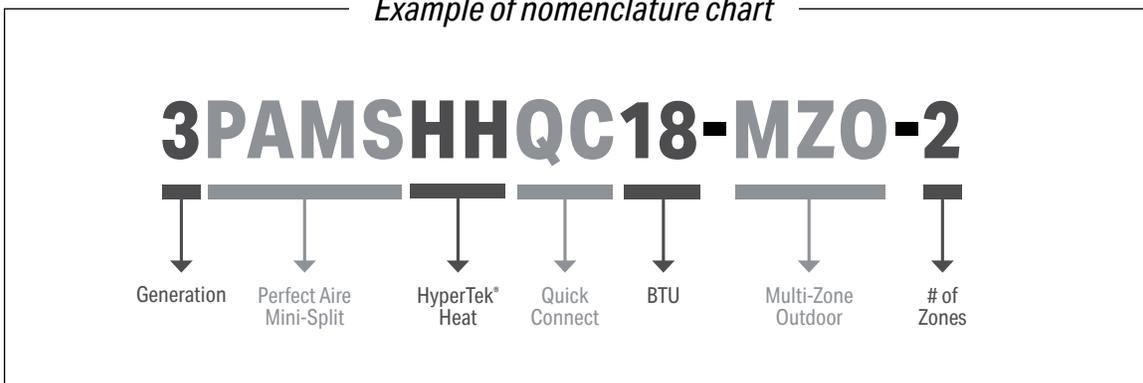
# MODEL # KEY *(per series)*

SINGLE-ZONE SYSTEMS	
Example: <b>3PAMSHQCW09</b>	
<b>3</b>	Generation
<b>PAMS</b>	Perfect Aire Mini-Split
<b>H</b>	Heat
<b>QC</b>	Quick Connect
<b>O / W</b>	Outdoor / Wall Unit
<b>09</b>	BTU

UNIVERSAL INDOOR UNITS	
Example: <b>3PAMSHQCW09-U230</b>	
<b>3</b>	Generation
<b>PAMS</b>	Perfect Aire Mini-Split
<b>H</b>	Heat
<b>QC</b>	Quick Connect
<b>W</b>	Wall Unit
<b>09</b>	BTU
<b>U</b>	Universal
<b>230</b>	230V

MULTI-ZONE CONDENSERS	
Example: <b>3PAMSHHC18-MZO2</b>	
<b>3</b>	Generation
<b>PAMS</b>	Perfect Aire Mini-Split
<b>HH</b>	HyperTek® Heat
<b>QC</b>	Quick Connect
<b>18</b>	BTU
<b>MZO</b>	Multi-Zone Outdoor
<b>2</b>	# of Zones (2-5)

*Example of nomenclature chart*





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