HVAC Advanced Products Division

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America's best-selling ductless products.



Mr. Slim[®] Systems: Redefining Comfort

Comfort is a concept many of us seem to think about only when we're either uncomfortable or extremely comfortable. At Mitsubishi Electric comfort is all we think about, and our Mr. Slim ductless heating and cooling systems reflect that thinking. At home or at work, our Mr. Slim systems are designed to make any space inviting. Maybe your home has a room that's always too hot or too cold. Or perhaps you're looking for a way to effectively control the climate in different rooms for better comfort and efficiency. No matter what your heating and cooling problems may be, Mr. Slim is the perfect way to make any room in your home or workplace more comfortable.



Mr. Slim Indoor Unit

What Is Mr. Slim[®] Ductless Technology?

For many years ductless air conditioning systems have been the quiet solution for cooling and heating problems around the world. Our popular and proven Mr. Slim systems have two basic components: an indoor and an outdoor unit. These units are easily connected by refrigerant lines running through a small 3-inch opening in the wall or ceiling. The outdoor unit cycles the refrigerant through the lines to and from the indoor unit, where the air is conditioned and distributed into the space. Installation is as simple as mounting the indoor and outdoor units, connecting the refrigerant lines, and making a few electrical connections. An easy installation for your contractor means you'll be enjoying the comfort Mr. Slim provides faster.

Why Mr. Slim?

Mitsubishi Electric is the industry leader in ductless air conditioning technology. Our innovations have defined cuttingedge technology for years. Compare, and you'll see no one surpasses Mr. Slim's performance for quiet, easy-to-use energy efficient operation. And since our ductless technology carries the Mitsubishi Electric name, you know every unit is built to last. The bottom line is that Mr. Slim delivers the ultimate control of comfort for your home or office. It's true today and will be comfortably self-evident for years to come.



Refrigerant Lines

Indoor Unit

Outdoor Unit

03

CAN'T WE JUST STICK A WINDOW UNIT IN THERE?

Mr. Slim Indoor Unit

Sure you can use a window unit. But they will block the view from just about any window. They're also an open invitation for burglars to pay you a visit. Oh, and don't forget that old window units are also ugly, sweaty, and noisy and add no significant value to your home whatsoever. On the other hand, Mr. Slim units from

Mitsubishi Electric are easy for your contractor to install; they work quietly, and they don't leave a large, easily-accessed opening in your otherwise secure home. And ductless systems like Mr. Slim also add value to your home. All in all, window units may be the easy solution, but Mr. Slim systems from Mitsubishi Electric are the smart solution. You get what you pay for when it comes to air conditioning.

Where Can Mr. Slim® Be Used?

Mitsubishi Electric Mr. Slim systems are the perfect answer for almost any spot cooling or heating situation. For example, our ductless systems can make an uncomfortably hot or cold room in an existing building comfortable. Perhaps you are remodeling or renovating an **older home** or **business** built before ducted air conditioning was available. Because there is no ductwork to run, Mr. Slim ductless systems are both plaster-wall and brickfacade friendly so there's no need to compromise the integrity of your home or office just to make each room comfortable. In addition, Mr. Slim systems are perfect for **schools**, **universities**, **nursing homes**, **hospitals**, **restaurants**, **hotels**, **equipment rooms**, **office buildings**, and **churches**. The versatility and variety of applications for Mr. Slim are virtually unlimited. If a room is too hot or cold, Mr. Slim almost always works!

To find more information about our Mr. Slim ductless product line or to find a contractor near you, please visit our web site at mrslim.com.

Features	Benefits
• Efficient, Quiet Operation	Mr. Slim is designed to be quieter and more efficient than old window units so you'll sleep more easily both literally and financially.
• No Ductwork	Mr. Slim installs without having to tear apart your walls, floors, or ceilings. Less mess means better aesthetics for your home.
• Easy to Install	Simple installation means less hassle for a contractor, and less downtime means you can enjoy the comfort of Mr. Slim sooner.
• Versatile	From living rooms to board rooms, from kitchens to cafeterias, there's a Mr. Slim system to fit any cooling or heating need.
• Wireless Remote Controller	Mr. Slim M-Series systems come with a convenient wireless remote controller that puts you in control of your own comfort.



I N D E X

M-SERIES: 9,000-30,000 Btu/h Residential & Select Commercial Air Conditioners & Heat Pumps Pages 06-07

Wireless Remote Page 07

MS/MSH WALL-MOUNT SERIES: 9,000-17,000 Btu/h Air Conditioners & Heat Pumps Pages 08-09

MSH-E WALL-MOUNT SERIES: 9,000-15,000 Btu/h Heat Pumps with Auxiliary Electric Heat Pages 08-09

MULTI WALL-MOUNT SERIES: 18,000 Btu/h Air Conditioners Pages 10-11

INVERTER TECHNOLOGY: MXZ 30,000 Btu/h Inverter Driven, Multi Heat Pump System Pages 12-15

GENERAL SPECIFICATIONS: Page 27

P-SERIES: 12,000-42,000 Btu/h Large Residential or Varied Commercial Pages 16-17

Wired Remote and Outdoor Unit Comparison Page 17

PK/PKH [FK,FL] WALL-MOUNT SERIES: 12,000-36,000 Btu/h Air Conditioners & Heat Pumps with Wired & Wireless Hand-Held Remote Controllers Pages 18-20

PC/PCH CEILING-SUSPENDED SERIES: 24,000-42,000 Btu/h Air Conditioners & Heat Pumps Pages 21-23

PL/PLH CEILING-RECESSED SERIES: 12,000-42,000 Btu/h Air Conditioners & Heat Pumps Pages 24-26

REFRIGERANT TUBING & ACCESSORIES: Page 27

GLOSSARY: Below



GLOSSARY

AIR CONDITIONER: A mechanical device used to control temperature, humidity, cleanliness, and movement of air in a confined space.

AIR HANDLER: An indoor unit of an air conditioning system which contains a heat exchange coil, filters, and fan. Provides conditioned air into the space.

Btu/h: British Thermal Units per Hour. A term that is used to measure cooling or heating capacity.

CAPACITY: A refrigerating rating system usually measured in Btu/h.

COMPRESSOR: A pump found in a refrigerating or air conditioning system which pumps refrigerant through pipes between an outdoor and an indoor unit using pressure.

HEAT PUMP: An air conditioning system that is capable of reversing the direction of refrigerant flow to provide either cooling or heating to the indoor space.

HSPF: Heating Season Performance Factor. A rating of the average efficiency of a heat pump unit when operating in the heating mode.

HVAC: A term which stands for Heating, Ventilation, and Air Conditioning.

INVERTER TECHNOLOGY: Mitsubishi Electric's new MXZ outdoor unit uses inverter compressor technology (Variable Frequency Drive) to provide exceptional indoor, high-speed cooling and heating. By responding to indoor temperature changes, these systems reduce power consumption by varying the compressor speed for extra energy savings. The system operates only at the levels needed to maintain a constant and comfortable indoor environment.

MICROPROCESSOR: An electrical component consisting of integrated circuits which may accept, store, control, and output information.

OUTDOOR UNIT: A component of an air conditioning system which contains compressor, propeller fan, circuit board, and heat exchange coil. Pumps refrigerant to/from indoor unit.

REFRIGERANT LINES: A copper tubing through which refrigerant flows to and from the indoor and outdoor units.

S.E.E.R.: Seasonal Energy Efficiency Ratio. A rating of the average efficiency of an air conditioning unit in cooling mode.

SPLIT-DUCTLESS SYSTEM: A system which is comprised of a remote outdoor condensing unit connected by refrigerant pipes to a matching, non-ducted indoor air handler. Special cases for introducing fresh air may call for limited ducting to air handler from outside.

Mr.Slim® M-SERIES RESIDENTIAL & SELECT COMMERCIAL

Small Size, Big Performance

While all of our Mr. Slim[®] units are compact and lightweight, the M-Series was designed specifically for tight spaces. But don't be fooled. The powerful M-Series delivers plenty of cool or warm air to almost any size room. And unlike window units, Mr. Slim's small size, color, and mounting position means it blends in well.

No Ductwork Needed

Mr. Slim systems need no ductwork. There's only a small, 3-inch opening connecting the indoor and outdoor units. This means easy installation, less mess, and a better looking home.

Efficient. Quiet. Secure. Pick All Three.



That's right. Mr. Slim units deliver all of these. First its small design, smart functionality, and lack of ductwork make it energyefficient. Second the

> Wireless Remote Controller



unit's fan is designed to deliver air quietly with only a gentle whoosh. (That's why Mr. Slim is the first choice for thousands of churches, schools, and libraries. Shhh!) And because each system installs with only a 3-inch opening for connecting the indoor and outdoor units, you don't have to worry about thieves seeing an inviting window unit which is easy to remove. With Mr. Slim systems you can sleep in quiet comfort and with a sense of security.

Choose The Mr. Slim[®] That's Right For You

Room Size	Performance
100 - 350 Sq. Ft.	<9,000 Вти/н
350 - 465 Sq. Fт.	9,000 - 14,000 Вти/н
465 - 525 Sq. Ft.	14,000 - 16,000 Вти/н
525 - 600 Sq. Ft.	16,000 - 18,000 Вти/н
600 - 1,050 Sq. Fт.	18,000 - 30,000 Вти/н

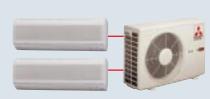
This table is for general guidance only. Additional conditions may factor into your actual cooling or heating needs. Please contact your contractor or Mitsubishi Electric for a more accurate determination of your specific cooling or heating needs.



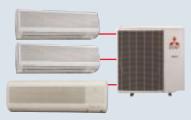
MS/MSH-T Wall-Mount Air Conditioners And Heat Pumps [pg.08]



MSH-E Wall-Mount Heat Pumps With Auxiliary Electric Heat [pg.08]



Multi Wall-Mount Air Conditioners [pg.10]



Inverter Multi Wall-Mount Heat Pumps [pg.12]

06





Standard Features All M-Series Units Offer

• QUIET OPERATION	Less noise than a window unit means you'll sleep more easily with Mr. Slim.®
• No Ductwork	No need for major construction and hassles. Mr. Slim is installed quickly and easily.
• Zone Control	Able to heat and cool only those spaces you want for maximum control and energy efficiency.
• Advanced Microprocessor Controls	Advanced controls keep you comfortable no matter what the conditions are outside.
• Convenient Wireless Remote Controller	Offers comfort control in the palm of your hand. Press a button, and superior air conditioning is yours.
• Washable Long-Life Filters	Saves money by cleaning filters instead of replacing them. Nice.





Air Conditioners & Heat Pumps



MS/MSH-T Indoor Unit 9,000 to 17,000 Btu/h Capacity



MS/MSH-T Remote



What is comfort? Comfort is the ease and sufficiency of a home that's cool and dry in the summer and cozy and warm in winter. This ease is what you get with the Mr. Slim® system, perfect year-round comfort. The MS/MSH system installs easily. Mounted on the wall, the indoor unit blends into most room environments without taking up any window space. Our MS/MSH systems are the perfect way to cool or heat any room in your home. The MSH-E-Series provides the right amount of cooling and heating to keep your home cozy year-round.

No Ductwork Needed

Mr. Slim systems need no ductwork so you don't have to tie into an existing system to steal cold or warm air for a room addition. This advanced technology means better room control and increased comfort for your home or office plus greater efficiency.

Wireless Remote Controller

Mr. Slim systems offer two remote controllers: a comprehensive remote that offers complete control and a simplified controller for use when only operation of temperature and fan speed are needed. Each runs three modes: *Cool, Heat,* and *Dry.* They control fan speed and temperature setting and have 12-hour on/off timers. With just one button you can control your comfort level according to if you're too *Hot* or too *Cold.*

Hot-Start Technology

Mr. Slim heat pumps use our Hot-Start Technology to provide warmth from the beginning so when you want warm air, you'll get it.

Mr.Slim® MSH-E WALL-MOUNT SERIES

Heat Pumps



MSH-E Indoor Unit 9,000 to 15,000 Btu/h Capacity



MSH-E Remote





SPECIFICATIONS

MS/MSH/MSH-E WALL-MOUNT AIR CONDITIONERS & HEAT PUMPS



SYSTEM		MS09TW	MS12TN	MS15TN	MS17TN	MSH09TW	MSH12TN	MSH15TN	MSH17TN	MSH09EW	MSH12EN	MSH15EN
Capacity	Cooling *Btu/h *1	8,500	12,600	14,600	16,100	8,800	12,900	14,600	16,200	8,800	12,500	14,200
Capacity	Heating 47°F Btu/h *1, *3	.,	,	,		10,500	13,500	14,800	17,200		12,500 (17,600)	
Power Consumption	Cooling W *1	840	1,130	1,400	1,600	890	1,310	1,380	1,580	890	1,260	1,430
Power Consumption	Heating W *1			,		890	1,250	1,300	1,570	920 (1,920)	1,150 (2,650)	1,340 (2,840)
E.E.R.	Cooling	10.1	11.2	10.4	10.1	9.9	9.8	10.6	10.3	9.9	9.9	9.9
S.E.E.R.		10.2	11.3	10.5	10.2	10	10.2	10.7	10.4	10	10	10
H.S.P.F.						6.8	6.8	6.8	6.8	6.8	6.8	6.8
C.O.P.	47°F *1					3.46	3.17	3.34	3.21	3.3	3.2	3.2
INDOOR UNIT		MS09TW	MS12TN	MS15TN	M\$17TN	MSH09TW	MSH12TN	MSH15TN	MSH17TN	MSH09EW	MSH12EN	MSH15EN
External Finish				I	Wi	nite					White	
Power Supply	V, Phase, Hz	115,1,60	115,1,60	115,1,60	115,1,60	115,1,60	115,1,60	115,1,60	115,1,60	115,1,60	115,1,60	115,1,60
Max. Fuse Size	(Time Delay) A	15	15	15	15	15	15	15	15	15	20	20
Min. Ampacity		0.5	0.6	0.6	0.7	0.5	0.6	0.6	0.7	12	17	17
Fan Motor	F.L.A.	0.37	0.43	0.43	0.51	0.37	0.43	0.43	0.51	0.3	0.5	0.5
Auxiliary Heater	Amps. (kW)									8.7 (1.0)	13.0 (1.5)	13.0 (1.5)
Airflow Lo-Med-Hi	Dry CFM	191-237-289	360-395-452	360-395-452	406-441-491	198-244-297	360-395-452	360-395-452	406-441-491	175-200-260	280-375-425	280-375-425
Airflow Lo-Med-Hi	Wet CFM	138-184-226	314-342-392	293-321-367	346-374-417	145-187-233	311-339-388	293-321-367	342-371-413	150-175-230	265-355-405	265-355-405
Moisture Removal	Pints/h	2.3	3.2	4.7	5.1	2.3	3.3	4.7	5.1	2.9	3.4	4.4
Sound Level	dB(A) Low-Med-High	26-31-36	36-39-42	36-39-42	40-43-45	26-31-36	36-39-42	36-39-42	40-43-45	43	48	48
Cond. Drain Connection	O.D. Inches	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
Indoor Unit Width	Inches	33-1/2	39-15/16	39-15/16	39-15/16	33-1/2	39-15/16	39-15/16	39-15/16	31-1/8	39-3/8	39-3/8
Indoor Unit Depth	Inches	7-1/2	7-1/2	7-1/2	7-1/2	7-1/2	7-1/2	7-1/2	7-1/2	5-3/8	7	7
Indoor Unit Height	Inches	10-15/16	12-5/8	12-5/8	12-5/8	10-15/16	12-5/8	12-5/8	12-5/8	14-3/16	14-3/16	14-3/16
Weight	Pounds	20	31	31	31	20	31	31	31	28	37.5	37.5
OUTDOOR UNIT		MU09TW	MU12TN	MU15TN	MU17TN	MUH09TW	MUH12TN	MUH15TN	MUH17TN	MUH09EW	MUH12EN	MUH15EN
External Finish		Munsell 5Y7/1	Munsell 5Y6.5/1	Munsell 5Y6.5/1	Munsell 5Y6.5/1							
Sound Level	dB(A)	46.0	49.0	52.0	52.0	47.0	49.0	53.0	53.0	49.0	54.0	55.0
Power Supply	V, Phase, Hz	115,1,60	208/230,1,60	208/230,1,60	208/230,1,60	115,1,60	208/230,1,60	208/230,1,60	208/230,1,60	115,1,60	208/230,1,60	208/230,1,60
Max. Fuse Size	(Time Delay) A	15.0	15.0	20.0	20.0	20.0	15.0	20.0	20.0	20.0	15.0	20.0
Min. Ampacity		11.0	12.0	14.0	15.0	16.0	14.0	14.0	15.0	16.0	12.0	14.0
Fan Motor	F.L.A.	0.6	0.42	0.52	0.52	0.6	0.42	0.52	0.75	0.7	0.5	0.5
Compressor	Model (Type)	RH130WGJT	RH167NHDT	RH207NHDT	RH231NHDT	RH140WGJT	RH189NHDT	RH207NHDT	RH231NHDT	RH140WJK	RH185NFL	RH207NFL
Compressor	R.L.A.	7.8	9.0	10.0	11.0	12.0	10.0	10.0	11.0	12.0	8.0	10.0
Compressor	L.R.A.	41.0	29.0	35.0	38.0	42.0	35.0	35.0	38.0	42.0	30.0	35.0
Refrigerant Control					Capilla	iry Tube					Capillary Tube	
Defrost Method							Revers	se Cycle			Reverse Cycle	1
Outdoor Unit Width	Inches	30-3/4	30-3/4	33-7/16	33-7/16	30-3/4	30-3/4	33-7/16	34-1/4	30-11/16	33-1/2	33-1/2
Outdoor Unit Depth	Inches	10-1/16	10-1/16	11-7/16	11-7/16	10-1/16	10-1/16	11-7/16	11-5/8	10-1/16	11-7/16	11-7/16
Outdoor Unit Height	Inches	21-1/4	21-1/4	23-13/16	23-13/16	21-1/4	21-1/4	23-13/16	33-1/2	21-1/4	23-7/8	23-7/8
Weight	Pounds	71.0	84.0	92.0	97.0	82.0	86.0	99.0	128.0	80.0	106.0	106.0
Remote Controller					Wirele	ss Type					Wireless Type	
Control Voltage	(By Built-In Transformer)	12VDC	12VDC	12VDC								
Refrigerant Piping Size	(Liquid x Gas) Inches	1/4 x 3/8	1/4 x 1/2	1/4 x 5/8	1/4 x 5/8	1/4 x 3/8	1/4 x 1/2	1/4 x 5/8	1/4 x 5/8	1/4 x 3/8	1/4 x 5/8	1/4 x 5/8
Between Indoor & Outdoor	Max. Piping; (Height x Length) Ft.	25 x 49	25 x 49	25 x 49								

*1, *2, *3 See page 27 for rating conditions.

^{+†}LIMITED WARRANTY | 6-year warranty on compressor. 1-year warranty on parts.

Mr.Slim® MSM MULTI WALL-MOUNT SYSTEM

Air Conditioners

MS-NW Indoor Unit

18,000 Btu/h Capacity (Dual MS09 Units)

Possibilities. That's what the MSM system is about. The MSM features a versatile multi-split design, meaning two MS09 indoor units can be connected to a single outdoor unit (The MUM18NW). MSM systems are adaptable so you can install just one indoor unit first and add a second unit later. And reducing the number of outdoor units reduces electrical costs and means a cleaner, better-looking exterior. The MSM system is the easy way to have efficient, zoned air conditioning.



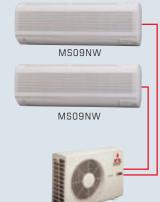


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A METROPHY REPORT

All Mr. Slim[®] systems come with a wireless remote controller that puts you in command of your comfort.

16,800 Btu/h COOLING 10.2 S.E.E.R.





By replacing those window units with Mr. Slim, you're left with a clean and pleasing exterior.

MUM18NW

SPECIFICATIONS MULTI WALL-MOUNT AIR CONDITIONERS



SYSTEM		MSM18NW
Cooling Capacity	Btu/h *1	8,400 (Single) / 16,800 (Dual)
Power Consumption	W	850 (Single) / 1700 (Dual)
E.E.R.		9.9
S.E.E.R.		10.0
INDOOR UNIT		MS09NW (each)
External Finish		White
Power Supply	V, Phase, Hz	115,1,60
Max. Fuse Size	(Time Delay) A	15
Min. Ampacity		0.5
Fan Motor	F.L.A.	0.37
Airflow Lo-Med-Hi	Dry CFM	208-265-328
Airflow Lo-Med-Hi	Wet CFM	177-226-279
Moisture Removal	Pints/h	2.3
Sound Level	dB(A)	42
Cond. Drain Connection	0.D. Inches	5/8
Indoor Unit Width	Inches	32-1/16
Indoor Unit Depth	Inches	7-3/16
Indoor Unit Height	Inches	10-13/16
Weight	Pounds	18
OUTDOOR UNIT		MUM18NW
External Finish		Munsell 5Y 6.5/1
Sound Pressure Level	dB(A)	56.5
Power Supply	V, Phase, Hz	208/230,1,60 (3-wire)
Max. Fuse Size	(Time Delay) A	15x2
Min. Ampacity		14x2
Fan Motor	F.L.A.	1.0
Compressor	Model (Type)	KH122WES x2
Compressor	R.L.A.	10x2
Compressor	L.R.A.	37x2
Refrigerant Control		Capillary Tube
Outdoor Unit Width	Inches	33-1/2
Outdoor Unit Depth	Inches	11-7/16
Outdoor Unit Height	Inches	23-7/8
Weight	Pounds	122
Remote Controller		Wireless Type
Control Voltage	(By Built-In Transformer)	12VDC
Refrigerant Piping Size	(Liquid x Gas) Inches	1/4 x 3/8

*1 See page 27 for rating conditions.

**LIMITED WARRANTY 6-year warranty on compressor. 1-year warranty on parts.

Mr.Slim® INVERTER DRIVEN, MULTI HEAT PUMP SYSTEM



MXZ30TN Outdoor Unit

INVERTER TECHNOLOGY FOR SUPERIOR YEAR-ROUND COMFORT AND PERFORMANCE

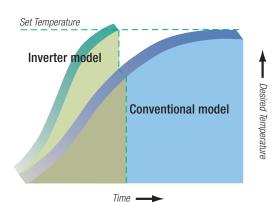
Inverter Technology

Mitsubishi Electric's new line of outdoor units use inverter compressor technology (Variable Frequency Drive) to provide exceptional indoor high-speed cooling and heating.

In response to outdoor temperature changes, the system varies the compressor speed, thereby reducing power consumption for extra energy savings. The system performs only to the level needed to maintain a constant and comfortable indoor environment.

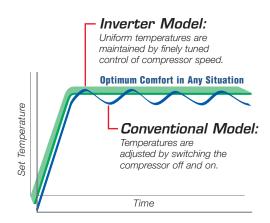


Features	Benefits
Proven Inverter Compressor Technology	Provides powerful, quiet, and energy-efficient cooling and heating, meaning your home will be pleasant year-round.
• More Efficient	Our systems use less energy under mild conditions, so you'll spend less money and get greater comfort.
Maintains Constant Temperature Levels	Inverter technology eliminates annoying swings in temperature in any room. You'll get comfortable and stay that way.
• Superior Heating Performance	You can operate just one indoor unit at a time for unparalleled heating performance.



High-Speed Heating And Cooling

Compressor speed is controlled to maximize efficiency, changing speeds according to the cooling and heating load of a room. The desired temperature is, therefore, reached much faster, saving both energy and cash.



Optimum Comfort Year-Round

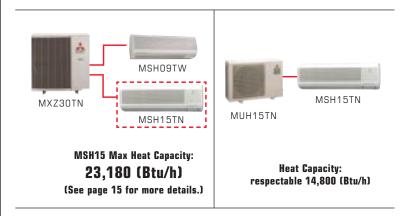
Unlike conventional units that start and stop repetitively, inverter units are able to detect subtle changes in room temperature and adjust compressor speed automatically. The result is less temperature variation and a more comfortable climate.



Extra Energy Savings

For optimum performance, inverter technology controls the electrical current to the compressor, delivering only the energy needed to match the cooling and heat load of a room, thereby reducing energy consumption.

When operating just one indoor unit at a time, the MXZ outdoor inverter unit can provide up to 50% better heating performance when compared to a standard single-speed heat pump system.



More innovative and efficient inverter-driven cooling and heating systems are on the way. Coming soon, the City Multi[®] system and Mr. Slim[®] MSZ systems will give you even greater performance capabilities and flexibility, making Mitsubishi Electric products the best choice for any of your cooling and heating applications.

Mr.Slim® MXXZ INVERTER DRIVEN MULTI-HEAT PUMP SYSTEM



4-4-440

MXZ30TN Outdoor Unit 30,000 Btu/h Capacity

Looking for superior cooling or heating in more than one room? The MXZ system is the solution. It delivers powerful cooling and heating for up to three wall-mounted indoor units with only one outdoor unit, giving you greater design flexibility and multi-zoned air conditioning. The MXZ three-to-one system provides flexibility of up to seven different indoor unit combinations. Two popular examples are shown at the lower right.



This 3:1 multi-system provides up to 30,500 Btu/h of cooling or 38,000 Btu/h of heating. MSH09TW (2) Indoor Units MSH12TN (1) Indoor Unit

This 2:1 multi-system provides up to 27,900 Btu/h of cooling or 36,890 Btu/h of heating.

MXZ30TN Outdoor Unit



Indoor Units * Requires joint piping adapter accessory

(See page 15 for more details.)

MXZ30TN Outdoor Unit



SPECIFICATIONS

MXZ30TN HEAT PUMPS

REQUIRES CONNECTION OF AT LEAST TWO INDOOR UNITS FOR PROPER OPERATION.



SYSTEM		MXZ30TN: MSH09TW(2), MSH12TN(1)	
Capacity	Cooling Btu/h *1	28,400	
Capacity	Heating 47°F Btu/h *1	28,600	
Capacity	Heating 17°F Bth/h *2	18,100	
Power Consumption	Cooling W *1	3,550	
Power Consumption	Heating W *1	2,720	
Power Consumption	Heating 17°F Bth/h *2	2,310	
S.E.E.R.	Cooling	11.0	
HSPF IV (V)	Heating	7.5	
СОР	Heating 47°F *1	3.08	
OUTDOOR UNIT		MXZ30TN	
External Finish		Munsell 5Y 8/1	
Sound Level	dB(A)	48.0	
Power Supply	V, Phase, Hz	208 / 230,1,60	
Max. Fuse Size	(Time Delay) A	30.0	
Min. Ampacity		25.0	
Fan Motor	F.L.A.	0.6	
Compressor	Model (Type)	THV-247FBA	
Compressor	Winding Resistance (@ 68°F)Ω	UV0.61 V-W0.61 W-U0.61	
Compressor	R.L.A.	10.0	
Compressor	L.R.A.	37.0	
Refrigerant Control		LEV	
Defrost Method		Reverse Cycle	
Outdoor Unit Width	Inches	35-7/16	
Outdoor Unit Depth	Inches	12-5/8(+1-3/8 w/feet)	
Dutdoor Unit Height	Inches	35-7/16	
Weight	Pounds	179.0	
Remote Controller		Wireless Type	
Control Voltage	(By Built-In Transformer)	12VDC	
Refrigerant Piping Size	(Liquid x Gas) Inches	A= 1/4 x 1/2, B= 1/4 x 3/8, C= 1/4 x 3/8	

*1, *2, See page 27 for rating conditions.

⁺⁺LIMITED WARRANTY | 6-year warranty on compressor. 1-year warranty on parts.

Model	Cooling Capacity (Btu/h)*1				Outdoor Unit	Current	(AMP.)
Combination	UNIT (1)	UNIT (2)	UNIT (3)	TOTAL (Min-Max)	Power Consumption (w)	208V	230V
MSH09TW	8,800	-	-	8,800 (4,160-9,210)	1,030 (510-1,280)	4.5	4.0
MSH12TN	12,900	-	-	12,900 (5,600-15,350)	1,250 (510-1,680)	5.4	4.9
MSH15TN	14,600	-	-	14,600 (5,600-17,010)	1,250 (510-1,780)	5.4	4.9
MSH17TN	16,200	-	-	16,200 (6,470-18,720)	2,200 (550-2,620)	9.5	8.6
MSH09TW(2)	8,800	8,800	-	17,600 (5,470-18,680)	2,200 (550-3,230)	9.5	8.6
MSH09TW+ MSH12TN	8,800	12,900	-	21,700 (6,240-22,760)	2,280 (540-3,270)	9.9	8.9
**MSH09TW+ MSH15TN	8,800	14,600	-	23,400 (6,240-24,030)	2,280 (540-3,430)	9.9	8.9
**MSH09TW+ MSH17TN	8,800	16,200	-	25,000 (6,220-27,170)	2,680 (550-4,000)	11.6	10.5
**MSH12TN(2)	12,900	12,900	-	25,800 (6,300-27,900)	2,700 (540-4,100)	11.7	10.6
**MSH09TW(3)	8,800	8,800	8,800	26,400 (9,740-29,150)	3,500 (770-4,500)	15.1	13.6
MSH09TW(2)+ MSH12TN(1)	7,370	7,370	13,660	28,400 (9,940-30,500)	3,800 (810-4,610)	16.4	14.9

Model		Heating C	apacity (Bt	u/h)*1	Outdoor Unit	Current	(AMP.)
Combination	UNIT (1)	UNIT (2)	UNIT (3)	TOTAL (Min-Max)	Power Consumption (W)	208V	230V
MSH09TW	10,500	-	-	10,500 (5,790-16,950)	1,100 (560-1,990)	4.8	4.3
MSH12TN	13,500	-	-	13,500 (6,420-22,400)	1,200 (560-2,340)	5.2	4.7
MSH15TN	14,800	-	-	14,800 (6,470-23,180)	1,400 (570-2,480)	6.1	5.5
MSH17TN	17,200	-	-	17,200 (6,520-23,550)	1,600 (600-2,710)	6.9	6.3
MSH09TW(2)	10,500	10,500	-	21,000 (6,520-26,900)	1,950 (620-2,900)	8.4	7.6
MSH09TW+ MSH12TN	10,500	13,500	-	24,000 (6,730-30,000)	2,210 (640-3,130)	9.6	8.6
**MSH09TW+ MSH15TN	10,500	14,800	-	25,300 (7,490-32,240)	2,400 (640-3,360)	10.4	9.4
**MSH09TW+ MSH17TN	10,500	17,200	-	27,700 (8,140-37,100)	2,700 (690-3,900)	11.7	10.6
**MSH12TN(2)	13,500	13,500	-	27,000 (7,660-36,890)	2,520 (650-3,850)	10.9	9.9
**MSH09TW(3)	9,530	9,530	9,530	28,590 (8,900-37,500)	2,720 (710-3,920)	11.8	10.6
MSH09TW(2)+ MSH12TN(1)	7,820	7,820	12,960	28,600 (9,040-38,000)	2,800 (710-3,970)	12.1	11.0

*1 See page 27 for rating conditions.

All models 60 Hz. Refer to the *Service Manual* for additional indoor and outdoor unit specifications. **This combination requires joint piping adapter accessory. Please refer to charts below for more details.

MXZ30TN Outdoor Unit Refrigerant Piping Size						
Circuit Liquid Suction						
A	1/4	1/2				
В	1/4	3/8				
C	1/4	3/8				

	JOINT PIPING ACCESSORIES									
		MXZ30TN Outdoor Unit Circuits								
	Α	В	C	Part #						
s	09	09	09	MAC455JP						
N N	15	09	-	MAC456JP						
OMBINATI	17	09	-	MAC456JP						
N	12	12	-	MAC454JP						
8	-	09	09	-						
	12	09		-						
C	12	09	09	-						

FLARED CONNECTIONS							
Pipe Length and Height Difference							
Limits							
Pipe Length Per Indoor Unit	82 ft.	Max.					
Total Pipe Length for Multi-System	197 ft.	Max.					
Height Difference	33 ft.	Max.					
No. of Bends Per Indoor Unit	25	Max.					
Total No. of Bends for Multi-System	60	Max.					

Mr.Slim® P-SERIES LARGE RESIDENTIAL & VARIED COMMERCIAL

The P-Series Mr. Slim[®] units deliver flexible and convenient cooling and heating solutions to almost any commercial or large residential setting. Whether in a church, an office building, a school, a nursing home, a restaurant, a retail store, or even an equipment room, the compact design of the P-Series makes cooling and heating difficult spaces a breeze. With wall-mounted, ceiling-recessed, and ceiling-suspended options, the P-Series is the perfect solution for almost any application. The P-Series provides up to 42,000 Bth/u of cooling or heating.

Flexible Control Options

Convenient and efficient zone control means you can cool or heat only the spaces that are in use. You can control each individually or up to 50 different units from a single remote controller. And the flexible control design of the P-Series means that you can have single or dual controllers connected to one system. The controller does not even have to be in the space shared with the indoor unit.





Low Ambient Operation

This feature allows for a space to be air-conditioned by the PU line of products even when it is 0° F outside (25° F for the PUG line). This feature is important when dealing with electronic equipment rooms, telecom substations, surveillance mechanical rooms, restaurant kitchens, and more. The wind baffle accessory is required when PU models are installed in low ambient applications below 25°F.

Redi-Charged Systems

P-Series outdoor units come with enough refrigerant to be installed up to 100 feet away from the indoor units. Line sets can be run to a maximum distance of 164 feet when additional charge is added. (PUG/H 150 ft.)

Hot-Start System

Mr. Slim heat pumps use our Hot-Start Technology to provide warmth from the beginning so when you want warm air, that's what you'll get.



PK/PKH (FK,FL) Wall-Mount Air Conditioners And Heat Pumps [pg.18]



PC/PCH Ceiling-Suspended Air Conditioners And Heat Pumps [pg.21]



PL/PLH Ceiling-Recessed Air Conditioners And Heat Pumps [pg.24]

Easy Controller Connections

Only two non-polar wires are needed to connect the remote controller to the indoor unit, a feature which helps avoid installation errors. The connection wires can also be extended up to 1,650 feet.

Service

All P-Series outdoor units are designed with easy service and maintenance in mind. Maintenance points are located behind easy-access panels to make installation and servicing a breeze for a trained technician. Four-way piping access allows connection in four directions: front, rear, right, and base. (all PU/PUH models) P-Series indoor units incorporate a washable filter design, meaning less filter replacement headaches.



Standard Features All P-Series Units Offer

• QUIET OPERATION	You can hold a board meeting or teach a class in the quiet comfort of Mr. Slim® P-Series.
• No Ductwork	There's no need to shutdown for major construction; Mr. Slim installs quickly and easily.
• Zone Control	Heat and cool only those spaces desired for maximum control and energy efficiency.
• Dehumidification	Drier air means healthier air and less damage to books or furniture.
• Advanced Microprocessor Controls	Built-in electronics ensure efficient operation and maximum performance for optimum comfort.

FAN SPEED INDICATOR. This feature displays the fan speed setting (HIGH or LOW).

OPERATION MODE SETTING. The desired COOL/ DRY, AUTO, or HEAT operation can be selected by pressing MODE.

TEMPERATURE SETTING. The LCD indicator displays the set temperature in units of 2°F.

MEMORY. Stores functions.



UP/DOWN button. 24-HOUR ON/OFF TIMER. Operation c be set to start and/or s

TIMER. Operation can be set to start and/or stop at specified times. This sequence may be repeated daily if desired.

ROOM TEMPERATURE DISPLAY. The room

measured at the indoor unit.

microprocessor quickly detects

malfunctions and pinpoints

shown on the LCD display.

The angle of the air outlet

vanes can be adjusted to

one of four positions by

pressing the air discharge

the location which is then

VANE CONTROL.

temperature display is

SELF-DIAGNOSTIC

DISPLAY. The LCD

Mr. Slim[®] Outdoor Unit Comparison

Choose either the High Efficiency or Slim-Line model to fit your application.



PU/PUH

PU/PUH Slim-Line Horizontal Discharge

Mr. Slim's compact, horizontal air discharge units have a small footprint and can fit into tight spaces. This feature allows for greater application freedom.

FEATURES:

- 0°F low ambient operation with optional wind baffle
- Compact, space-saving design
- Quiet operation
- Easy to service and maintain unit through front access panel
- Redi-charged refrigerant lines up to 100 ft.

PUG/PUGH High Efficiency Vertical Discharge

The vertical discharge outdoor unit – when combined with the Mr. Slim P-Series indoor units – makes for one of the most energy-efficient and cost-effective ductless systems on the market.

FEATURES:

PUG/PUGH

 cool models
Copeland-compliant scroll compressor inside

• 12 S.E.E.R. heat pumps and straight

- Solid-state control board with built-in diagnostics
- Easy access to control panel and compressor compartment
- Dual-guard coil protection
- 25°F low ambient operation standard
- Redi-charged refrigerant lines up to 100 ft.
- Optional TC Technicoat™ outdoor coil

MR.Slim® **PK/PKH (FK,FL)** WALL-MOUNT SERIES



PK/PKH Indoor Unit 12,000 to 36,000 Btu/h Capacity

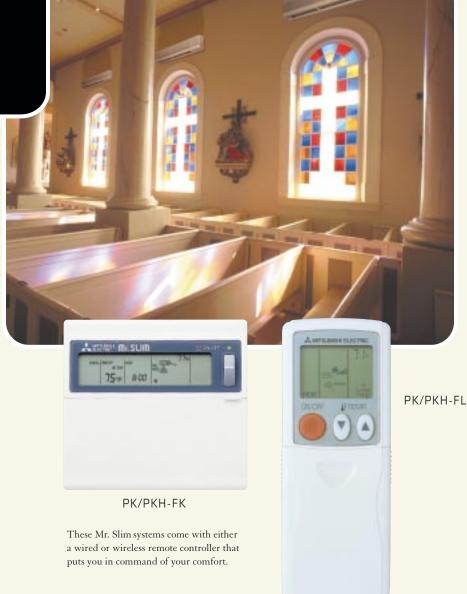
Like the MS/MSH wall-mounted models, the PK/PKH-Series fills larger spaces with substantial cooling or heating from a compact, wall-mounted package. Walk into any room where a PK system is installed, and all you'll notice is the perfectly comfortable climate. What you may not notice is the unit itself, for it mounts high on the wall and blends into the space.

Auto Flap Shutter

With a simple flip of the *Off* switch, the vane closes to cover the air outlet for a clean presentation while not in use. During operation the vane can be adjusted or will automatically adjust itself to the perfect position to direct the airflow to the floor in heating mode or horizontally in cooling mode, keeping the room temperature even and comfortable.

Slim Lightweight Indoor Unit Design

The largest PK unit measures only about 66" wide, 13" tall, and 9" deep and weighs 66 pounds. This feature allows for easy installation high on any wall and above windows and doorways. In most cases just two people can do the installation quickly.



Easy-Clean Filters

Convenient tabs enable the washable filters to be quickly and easily removed for fast cleaning. You won't need to replace the filters as often as with other systems, saving money and time.

Easy to Install

Mr. Slim[®] PK-Series models require no ductwork. They don't need a huge hole cut in a wall unlike a motel-type or window unit. In fact PK-Series systems install into the toughest spaces even in brick and block walls because only a small 3-inch round opening in the wall or ceiling is needed.

Ultimate Comfort Meets Ultimate Convenience

The hand-held Mr. Slim LCD wireless remote controller is easier to use than most TV remotes. The set-temperature display is large and easy to read. Using the 24-hour timer, operation can be set to start and stop at specified times and to repeat daily. And the convenient remote provides easy control of the *Fan Speed* as well as the *Cool, Heat*, and *Dry* modes from anywhere in the room.



SPECIFICATIONS WITH HORIZONTAL AIR SLIM-LINE OUTDOOR UNIT

PK/PKH WALL-MOUNT AIR CONDITIONERS & HEAT PUMPS 0°F LOW AMBIENT CAPABLE¹



SYSTEM		PK12FK	PK18FK/FL	PK24FK/FL	PK30FK/FL	PK36FK/FL	PKH18FK/FL	PKH24FK/FL	PKH30FK/FL	PKH36FK/FL
Capacity	Cooling Btu/h *1	12,500	18,500	24,000	30,000	34,200	18,000	24,000	30,000	34,200
Capacity	Heating Btu/h *1,*3						18,600 (24,100/25,100)	25,000 (30,500/31,500)	33,000 (39,100/40,500)	38,000 (44,100/45,500)
Capacity	Heating Btu/h *2,*3						10,700 (16,200/17,200)	14,700 (20,200/21,200)	19,000 (25,100/26,500)	19,600 (25,700/27,100)
Power Consumption	Cooling kW *1	1.21	1.75	2.34	3.06	3.47	1.79	2.36	3.12	3.44
Power Consumption	Heating kW *1,*3						1.56 (3.16/3.46)	2.37 (3.97/4.27)	3.02 (4.82/5.22)	3.54 (5.34/5.74)
Power Consumption	Heating kW *2,*3						1.34 (2.94/3.24)	1.92 (3.52/3.82)	2.48 (4.28/4.68)	2.65 (4.45/4.85)
E.E.R.	Cooling	10.3	10.6	10.3	9.8	9.9	10.1	10.2	9.6	9.9
S.E.E.R.		11.5	11.3	10.6	10.7	10.2	11.1	10.2	10.6	10.5
HSPF							7.2	6.8	7.1	6.9
COP	Heating *1						3.5	3.1	3.2	3.1
COP	Heating *2						2.3	2.2	2.2	2.2
INDOOR UNIT		PK12FK	PK18FK/FL	PK24FK/FL	PK30FK/FL	PK36FK/FL	PKH18FK/FL	PKH24FK/FL	PKH30FK/FL	PKH36FK/FL
External Finish		Munsell 3.4Y7.7/0.8	Munsell 3.4Y7.7/0.8	Munsell 3.4Y7.7/0.8	Munsell 3.4Y7.7/0.8					
Power Supply	V, Phase, Hz	115,1,60	115,1,60	115,1,60	115,1,60	115,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60
Max. Fuse Size	(Time Delay) A	15	15	15	15	15	15	15	15	15
Min. Ampacity		1	1	1	2	2	12	12	13	13
Fan Motor	F.L.A.	0.7	0.7	0.7	1	1	0.5	0.5	0.6	0.6
Auxiliary Heater	A (kW)						7.6/8.4 (1.6/1.9)	7.6/8.4 (1.6/1.9)	8.7/9.6 (1.8/2.2)	8.7/9.6 (1.8/2.2)
Airflow Lo-Hi	Dry CFM	350-490	530-710	530-710	780-990	780-990	530-710	530-710	780-990	780-990
Airflow Lo-Hi	Wet CFM	320-440	480-640	480-640	700-890	700-890	480-640	480-640	700-890	700-890
Moisture Removal	Pints/h	3.8	5.3	7.2	9.6	10.5	5.3	7	9.1	10.5
Sound Pressure Level Lo-Hi	dB(A)	38-45	41-48	41-48	44-49	44-49	41-48	41-48	44-49	46-50
Cond. Drain Connection	Inches		<u> </u>		13/16 O.D. ((1-1/16 I.D. or	7/8 I.D.)			
Indoor Unit Width	Inches	49-1/4	55-1/8	55-1/8	66-3/16	66-3/16	55-1/8	55-1/8	66-3/16	66-3/16
Indoor Unit Depth	Inches	7-7/8	9-1/4	9-1/4	9-1/4	9-1/4	9-1/4	9-1/4	9-1/4	9-1/4
Indoor Unit Height	Inches	11-13/16	13-3/8	13-3/8	13-3/8	13-3/8	13-3/8	13-3/8	13-3/8	13-3/8
Weight	Pounds	37	53	53	62	62	57	57	66	66
OUTDOOR UNIT		PU12EK	PU18EK	PU24EK	PU30EK	PU36EK	PUH18EK	PUH24EK	PUH30EK	PUH36EK
External Finish		Munsell 5Y 7/1	Munsell 5Y 7/1	Munsell 5Y 7/1	Munsell 5Y 7/1					
Sound Pressure Level	dB(A)	50.0	53.0	55.0	55.0	55.0	53.0	55.0	55.0	55.0
Power Supply	V, Phase, Hz	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60
Max. Fuse Size	(Time Delay) A	15.0	20.0	20.0	30.0	30.0	20.0	20.0	30.0	30.0
Min. Ampacity		11.0	16.0	16.0	20.0	22.0	16.0	16.0	20.0	22.0
Fan Motor	F.L.A.	0.65	0.75	0.65+0.65	0.65+0.65	0.75+0.75	0.75	0.65+0.65	0.75+0.75	0.75+0.75
Compressor	Model (Type)	RH167NAB	RH247NAB	NH33NBD	NH41NAD	NH47NAD	RH247NAB	NH33NBD	NH41NAD	NH47NAD
Compressor	R.L.A.	8.9	12.0	11.5	14.0	17.5	12.0	11.5	14.0	17.5
Compressor	L.R.A.	29.0	37.0	54.0	73.0	87.0	37.0	54.0	73.0	87.0
Crankcase Heater	A(W)	0.11/0.12 (23/28)	0.11/0.12 (23/28)	0.16/0.17 (33/39)	0.16/0.17 (33/39)	0.16/0.17 (33/39)	0.11/0.12 (23/28)	0.16/0.17 (33/39)	0.16/0.17 (33/39)	0.16/0.17 (33/39)
Refrigerant Control						Capillary Tube				· · · ·
Defrost Method								Reverse	Cycle	
Outdoor Unit Width	Inches	34-1/4	34-1/4	34-1/4	34-1/4	38-3/16	34-1/4	34-1/4	38-3/16	38-3/16
Outdoor Unit Depth	Inches	11-5/8	11-5/8	11-5/8	11-5/8	13-9/16	11-5/8	11-5/8	13-9/16	13-9/16
Outdoor Unit Height	Inches	25-9/16	33-1/2	49-9/16	49-9/16	49-9/16	33-1/2	49-9/16	49-9/16	49-9/16
Weight	Pounds	105.0	154.0	207.0	208.0	220.0	131.0	202.0	245.0	246.0
Remote Controller			-			With Indoor Uni		-		
Control Voltage	(By Built-In Transformer)	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC
Refrigerant Piping Size	(Liquid x Gas) Inches	3/8 x 5/8	3/8 x 5/8	3/8 x 5/8	1/2 x 3/4	1/2 x 3/4	3/8 x 5/8	3/8 x 5/8	1/2 x 3/4	1/2 x 3/4
Refrigerant Piping Size	(Liquid x Gas) Inches	3/8 x 5/8	3/8 x 5/8	3/8 x 5/8	1/2 x 3/4	1/2 x 3/4	3/8 x 5/8	3/8 x 5/8	1/2 x 3/4	1/2 x 3/4

*1,*2,*3 See page 27 for rating conditions.

^{+†}LIMITED WARRANTY | 6-year warranty on compressor. 1-year warranty on parts.

 $^{\dagger}0^{\circ}\text{F}$ low ambient operation possible on slim-line horizontal discharge outdoor units with optional wind baffle.



SPECIFICATIONS WITH VERTICAL AIR HIGH-EFFICIENCY OUTDOOR UNIT



PKG/PKGFL/PKGH WALL-MOUNT AIR CONDITIONERS 25°F LOW AMBIENT & HEAT PUMPS

SYSTEM		PKG18FK1/FL	PKG24FK1/FL	PKG30FK1/FL	PKG36FK1/FL	PKGH18FK1/FL	PKGH24FK1/FL	PKGH30FK1/FL	PKGH36FK1/FL
Capacity	Cooling BTU/h *1	18,000	24,000	29,600	34,200	18,000	24,000	29,600	34,200
Capacity	Heating BTU/h *1,*3					18,800 (25,300)	24,000 (30,500)	29,200 (36,700)	34,600 (42,100)
Capacity	Heating BTU/h *2,*3					11,200 (17,700)	14,800 (21,300)	18,000 (25,500)	22,000 (29,500)
Power Consumption	Cooling kW *1	1.75	2.34	3.06	3.47	1.79	2.36	3.12	3.44
Power Consumption	Heating kW *1,*3					1.56 (3.16/3.46)	2.37 (3.97/4.27)	3.02 (4.8/5.22)	3.54 (5.34/5.74)
Power Consumption	Heating kW *2,*3								
EER	Cooling	11.0	11.2	11.2	11.1	11.0	11.2	11.2	11.1
SEER	COUNTY					12.0	11.2	11.2	12.0
		12.0	12.0	12.0	12.0		-		
HSPF	11					7.0	7.0	7.0	7.0
COP	Heating *1					3.2	2.9	3.4	3.1
COP	Heating *2								
INDOOR UNIT		PK18FK1/FL	PK24FK1/FL	PK30FK1/FL	PK36FK1/FL	PKH18FK1/FL	PKH24FK1/FL	PKH30FK1/FL	PKH36FK1/FL
External Finish		Munsell 3.4Y7.7/0.8	Munsell 3.4Y7.7/0.8	Munsell 3.4Y7.7/0.8	Munsell 3.4Y7.7/0.8	Munsell 3.4Y7.7/0.8	Munsell 3.4Y7.7/0.8	Munsell 3.4Y7.7/0.8	Munsell 3.4Y7.7/0.8
Power Supply	V, Phase, Hz	115,1,60	115,1,60	115,1,60	115,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60
Max. Fuse size	(Time Delay) A	15	15	15	15	15	15	15	15
Min. Ampacity		1	1	2	2	12	12	13	13
Fan Motor	F.L.A.	0.7	0.7	1	1	0.5	0.5	0.6	0.6
Auxiliary Heater	A (kW)					7.6/8.4 (1.6/1.9)	7.6/8.4 (1.6/1.9)	8.7/9.6 (1.8/2.2)	8.7/9.6 (1.8/2.2)
Airflow Lo-Hi	Dry CFM	530-710	530-710	780-990	780-990	530-710	530-710	780-990	780-990
Airflow Lo-Hi	Wet CFM	480-640	480-640	700-890	700-890	480-640	480-640	700-890	700-890
Moisture Removal	Pints/h	5.3	7.2	9.6	10.5	5.3	7	9.1	10.5
Sound Pressure Level Lo-Hi	dB(A)	41-48	41-48	44-49	44-49	41-48	41-48	44-49	46-50
Cond. Drain Connection	Inches		10		13/16 O.D. (1-1/1				
Indoor Unit Width	Inches	55-1/8	55-1/8	66-3/16	66-3/16	55-1/8	55-1/8	66-3/16	66-3/16
	Inches	9-1/4	9-1/4	9-1/4	9-1/4	9 -1/4	9 -1/4	9-1/4	9 -1/4
Indoor Unit Depth									
Indoor Unit Height	Inches	13-3/8	13-3/8	13-3/8	13-3/8	13-3/8	13-3/8	13-3/8	13-3/8
Weight	Pounds	53	53	62	62	57	57	66	66
OUTDOOR UNIT [†]		PUG18CK	PUG24CK	PUG30CK	PUG36CK	PUGH18CK	PUGH24CK	PUGH30CK	PUGH36CK
External Finish					Baked Polyester	-			
Sound Pressure	dB(A)	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
Max. Fuse Size 208/230V 1PH		20.0	25.0	30.0	35.0	20.0	25.0	30.0	35.0
208/230V 3PH	(Time Delay) A	-	15.0	20.0	25.0	-	15.0	20.0	25.0
460V 3PH		-	15.0	15.0	15.0	-	15.0	15.0	15.0
Min. Ampacity 208/230V 1PH		13.0	16.3	17.8	21.9	13.0	16.3	17.8	21.9
208/230V 3PH		-	10.6	12.2	14.7	-	10.6	12.2	14.7
460V 3PH		-	5.3	6.1	7.3	-	5.3	6.1	7.3
Fan Motor 208/230V 1PH		1.0	1.0	1.0	1.9	1.0	1.0	1.0	1.9
208/230V 3PH	F.L.A.	-	1.0	1.0	1.9	-	1.0	1.0	1.9
460V 3PH		-	0.49	0.49	0.89	-	0.49	0.49	0.89
Compressor 208/230V 1PH		9.6	12.2	13.5	16.0	9.6	12.2	13.5	16.0
208/230V 3PH	R.L.A.	-	7.7	9.0	10.3	_	7.7	9.0	10.3
460V 3PH		_	3.8	4.5	5.1	-	3.8	4.5	5.1
Compressor 208/230V 1PH		45.0	63.0	72.5	88.0	45.0	63.0	72.5	88.0
208/230V 3PH	L.R.A.	-	55.0	63.0	77.0	-	55.0	63.0	77.0
	L.I.A.								
460V 3PH			27.0	31.0	39.0		27.0	31.0	39.0
Compressor 208/230V 1PH		5.9	9.5	10.2	11.5	5.9	9.5	10.2	11.5
208/230V 3PH	F.L.A.	-	6.2	6.6	7.5	-	6.2	6.6	7.5
460V 3PH		-	3.1	3.3	3.7	-	3.1	3.3	3.7
Unit Total 208/230V 1PH	Unit Total	6.9	10.5	11.2	13.4	6.9	10.5	11.2	13.4
208/230V 3PH	. F.L.A.	-	7.2	7.6	9.4	-	7.2	7.6	9.4
460V 3PH		-	3.6	3.8	4.6	-	3.6	3.8	4.6
Crankcase Heater						1	40.0	40.0	40.0
	Watts	40.0	40.0	40.0	40.0	40.0	40.0		
Refrigerant Control	Watts		Metering orifice insta	lled at the outdoor unit	40.0		Fixed orifice at ou	tdoor unit for cooling	oneration
-	Watts			lled at the outdoor unit		Сар	Fixed orifice at ou		operation
Defrost Method		40.0	Metering orifice insta for cooling c	lled at the outdoor unit peration	Reverse	Cap e Cycle	Fixed orifice at ou illary tube installed at the	tdoor unit for cooling e indoor unit for heating	·
Defrost Method Outdoor Unit Width	Inches	40.0	Metering orifice insta for cooling o 33-7/8	lled at the outdoor unit peration 33-7/8	Reverse 33-7/8	Cap e Cycle 33-7/8	Fixed orifice at ou illary tube installed at the 33-7/8	tdoor unit for cooling e indoor unit for heating 33-7/8	33-7/8
Defrost Method Outdoor Unit Width Outdoor Unit Depth	Inches	40.0 33-7/8 30-1/4	Metering orifice insta for cooling o 33-7/8 30-1/4	led at the outdoor unit peration 33-7/8 30-1/4	Reverso 33-7/8 30-1/4	Cap e Cycle 33-7/8 30-1/4	Fixed orifice at ou illary tube installed at the 33-7/8 30-1/4	tdoor unit for cooling e indoor unit for heating 33-7/8 30-1/4	33-7/8 30-1/4
Defrost Method Outdoor Unit Width Outdoor Unit Depth Outdoor Unit Height	Inches Inches Inches	40.0 33-7/8 30-1/4 30.0	Metering orifice insta for cooling of 33-7/8 30-1/4 30.0	led at the outdoor unit peration 33-7/8 30-1/4 30.0	Reverso 33-7/8 30-1/4 30.0	Cap e Cycle 33-7/8 30-1/4 30.0	Fixed orifice at ou illary tube installed at the 33-7/8 30-1/4 30.0	tdoor unit for cooling e indoor unit for heating 33-7/8 30-1/4 30.0	33-7/8 30-1/4 30.0
Defrost Method Outdoor Unit Width Outdoor Unit Depth Outdoor Unit Height Weight	Inches	40.0 33-7/8 30-1/4	Metering orifice insta for cooling o 33-7/8 30-1/4	led at the outdoor unit peration 33-7/8 30-1/4	Reverse 33-7/8 30-1/4 30.0 192.0	Cap 2 Cycle 33-7/8 30-1/4 30.0 163.0	Fixed orifice at ou illary tube installed at the 33-7/8 30-1/4	tdoor unit for cooling e indoor unit for heating 33-7/8 30-1/4	33-7/8 30-1/4
Defrost Method Outdoor Unit Width Outdoor Unit Depth Outdoor Unit Height Weight Remote Controller	Inches Inches Inches Pounds	40.0 33-7/8 30-1/4 30.0 161.0	Metering orifice insta for cooling c 33-7/8 30-1/4 30.0 164.0	led at the outdoor unit peration 33-7/8 30-1/4 30.0 182.0	Reverss 33-7/8 30-1/4 30.0 192.0 With Ind	Cap e Cycle 33-7/8 30-1/4 30.0 163.0 oor Unit	Fixed orifice at our Illary tube installed at the 33-7/8 30-1/4 30.0 166.0	tdoor unit for cooling indoor unit for heating 33-7/8 30-1/4 30.0 184.0	33-7/8 30-1/4 30.0 195.0
Defrost Method Outdoor Unit Width Outdoor Unit Depth Outdoor Unit Height Weight	Inches Inches Inches	40.0 33-7/8 30-1/4 30.0	Metering orifice insta for cooling of 33-7/8 30-1/4 30.0	led at the outdoor unit peration 33-7/8 30-1/4 30.0	Reverse 33-7/8 30-1/4 30.0 192.0	Cap 2 Cycle 33-7/8 30-1/4 30.0 163.0	Fixed orifice at ou illary tube installed at the 33-7/8 30-1/4 30.0	tdoor unit for cooling e indoor unit for heating 33-7/8 30-1/4 30.0	33-7/8 30-1/4 30.0

Power Supply	Electrical	[†] Outdoor Unit Suffix
Requires voltage	208/230V 1PH	CKB
indicator for complete	208/230V 3PH	CK C
model number.	460V 3PH	CKE

*1, *2,*3 See page 27 for rating conditions.

**LIMITED WARRANTY 6-year warranty on compressor. 1-year warranty on parts.

Mr.Slim® PC/PCH CEILING-SUSPENDED SERIES



PC/PCH Indoor Unit 24,000 to 42,000 Btu/h Capacity

Powerful heating and cooling performance is what the PC/PCH-Series is designed to deliver. This ceiling-suspended unit delivers enough cold or hot air to make any space more comfortable. Manually adjusted jumbo swing louvers direct the airflow left or right, covering the entire space quietly. Accessory filters are available to increase efficiency and increase the time span between service calls. The PC/PCH-Series is perfect for restaurants, kitchens, and other large commercial spaces where ovens and other equipment add to an already taxed heating or cooling load.

Auto-Angle Airflow

With the wired remote controller, four different airflow positions can be set. When using the *Autovane* mode during *Cooling*, the angle self-adjusts into a horizontal position to circulate cold air more effectively. During *Heating*, the vane forces the hot air downward toward the floor, where it will rise and circulate, keeping your room comfortable from the top to bottom.

Hot Start System

Mr. Slim[®] heat pumps use our Hot-Start Technology to provide warmth from the beginning. So when you want warm air, you'll get it.





All Mr. Slim PC/PCH-Series models come with a wired remote controller that puts you in command of your comfort.

Fresh Air Intakes

With minimal on-site work, ducting can be installed to bring in fresh outside air, creating a healthier indoor environment.

Automatic Cooling/Heating Changeover (Heat Pumps)

When set to *Auto* PCH units will automatically switch back and forth from cooling to heating to compensate for the drastic rising and falling temperature in a room. This feature means total hands-free comfort and efficient conditioning of your space.





SPECIFICATIONS WITH HORIZONTAL AIR SLIM-LINE OUTDOOR UNIT

PC/PCH CEILING SUSPENDED AIR CONDITIONERS 0°F LOW AMBIENT CAPABLE¹ & HEAT PUMPS



SYSTEM		PC24EK	PC30EK	PC36EK	PC42EK	PCH24EK	PCH30EK	PCH36EK	PCH42EK
Capacity	Cooling Btu/h *1	24,000	31,000	36,500	42,500	24,000	30,000	35,400	42,000
Capacity	Heating Btu/h *1,*3					27,000 (33,500)	33,000 (41,500)	38,000 (47,600)	45,000 (54,600)
Capacity	Heating Btu/h *2,*3					18,400 (24,900)	18,000 (26,500)	19,600 (29,200)	24,800 (34,400)
Power Consumption	Cooling kW *1	2.43	3.1	3.8	4.4	2.46	3.06	3.53	4.37
Power Consumption	Heating kW *1,*3					2.42 (4.32)	3.13 (5.63)	3.4 (6.2)	4.3 (7.1)
Power Consumption	Heating kW *2,*3					2.1 (4.0)	2.6 (5.1)	2.7 (5.5)	3.2 (6.1)
 E.E.R.	*1	9.9	10	9.6	9.7	9.8	9.8	10	9.6
S.E.E.R.		10.3	10.4	10.2	10	10.3	10	10.4	10
HSPF						7.1	7.1	7.4	7.3
COP	Heating *1					3.3	3.1	3.3	3.1
COP	Heating *2					2.6	2.4	2.1	2.3
INDOOR UNIT		PC24EK	PC30EK	PC36EK	PC42EK	PCH24EK	PCH30EK	PCH36EK	PCH42EK
External Finish			Munsell 2.5Y 8/0.3 & N2	Munsell 2.5Y 8/0.3 & N2		Munsell 2.5Y 8/0.3 & N2			
Power Supply	V, Phase, Hz	115,1,60	115,1,60	115,1,60	115,1,60	230,1,60	230,1,60	230,1,60	230,1,60
Max. Fuse Size	(Time Delay) A	15	15	15	15	20	25	25	25
Min. Ampacity		3	3	3	3	12	15	15	17
Fan Motor	F.L.A.	1.8	1.8	2.1	2.4	0.7	0.7	1.3	1.3
Auxiliary Heater	A (kW)					8.4 (1.9)	10.8 (2.5)	12 (2.8)	12 (2.8)
Airflow Lo-Hi	Dry CFM	850-1,050	850-1,050	990-1,270	990-1,270	740-920	740-920	990-1,270	990-1,270
Airflow Lo-Hi	Wet CFM	730-900	730-900	860-1,100	860-1,100	670-830	670-830	860-1,100	860-1.100
Moisture Removal	Pints/h	7.2	9.6	11.1	12.6	7	9.1	10.9	12.3
Sound Pressure Level Lo-Hi	dB(A)	43-50	43-50	44-52	44-52	43-50	43-50	45-51	45-51
Cond. Drain Connection	0.D. Inches	1	1	1	1	1	1	1	1
Indoor Unit Width	Inches	50-7/16	50-7/16	62-1/4	62-1/4	50-7/16	50-7/16	62-1/4	62-1/4
Indoor Unit Depth	Inches	26-13/16	26-13/16	26-13/16	26-13/16	26-13/16	26-13/16	26-13/16	26-13/16
Indoor Unit Height	Inches	10-1/8	10-1/8	10-1/8	10-1/8	10-1/8	10-1/8	10-1/8	10-1/8
Weight	Pounds	93	93	115	115	101	101	119	119
OUTDOOR UNIT		PU24EK	PU30EK	PU36EK	PU42EK	PUH24EK	PUH30EK	PUH36EK	PUH42EK
External Finish		Munsell 5Y 7/1	Munsell 5Y 7/1	Munsell 5Y 7/1	Munsell 5Y 7/1	Munsell 5Y 7/1	Munsell 5Y 7/1	Munsell 5Y 7/1	Munsell 5Y 7/1
Sound Pressure Level	dB(A)	55.0	55.0	55.0	56.0	55.0	55.0	55.0	56.0
Power Supply	V, Phase, Hz	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60
Max. Fuse Size	(Time Delay) A	20.0	30.0	30.0	40.0	20.0	30.0	30.0	40.0
Min. Ampacity	A	16.0	20.0	22.0	27.0	16.0	20.0	22.0	27.0
Fan Motor	F.L.A.	0.65+0.65	0.65+0.65	0.75+0.75	0.8+0.8	0.65+0.65	0.75+0.75	0.75+0.75	0.8+0.8
Compressor	Model (Type)	NH33NBD	NH41NAD	NH47NAD	NH569NXA	NH33NBD	NH41NAD	NH47NAD	NH569NXA
Compressor	R.L.A.	11.5	14.0	17.5	20.0	11.5	14.0	17.5	20.0
Compressor	L.R.A.	54.0	73.0	87.0	105.0	54.0	73.0	87.0	105.0
Crankcase Heater	A(W)	.17(39)	.17(39)	.17(39)	.17(39)	.17(39)	.17(39)	.17(39)	.17(39)
Refrigerant Control					Capillar	y Tube			L
Defrost Method							Reverse	Cycle	
Outdoor Unit Width	Inches	34-1/4	34-1/4	38-3/16	38-3/16	34-1/4	38-3/16	38-3/16	38-3/16
Outdoor Unit Depth	Inches	11-5/8	11-5/8	13-9/16	13-9/16	11-5/8	13-9/16	13-9/16	13-9/16
Outdoor Unit Height	Inches	49-9/16	49-9/16	49-9/16	49-9/16	49-9/16	49-9/16	49-9/16	49-9/16
Weight	Pounds	207.0	208.0	220.0	260.0	202.0	245.0	246.0	268.0
Remote Controller			1	1	With Inde	oor Unit		1	1
Control Voltage	(By Built-In Transformer)	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC

*1, *2, *3 See page 34 for rating conditions.

**LIMITED WARRANTY | 6-year warranty on compressor. 1-year warranty on parts.

[†]0°F low ambient operation possible on slim-line horizontal discharge outdoor units with optional wind baffle.



SPECIFICATIONS WITH VERTICAL AIR HIGH-EFFICIENCY OUTDOOR UNIT

PCG/PCGH CEILING SUSPENDED AIR CONDITIONERS & 25°F LOW AMBIENT HEAT PUMPS



SYSTEM			PCG24EK	PCG30EK	PCG36EK	PCG42EK	PCGH24EK	PCGH30EK	PCGH36EK	PCGH42EK
Capacity		Cooling Btu/h *1	24,000	28,800	35,600	42,000	24,000	28,800	35,600	42,000
Capacity		Heating Btu/h *1,*3					23,200 (29,700)	26,000 (34,500)	33,000 (42,5000)	41,000 (50,500)
Capacity		Heating Btu/h *2,*3					14,600 (21,100)	16,000 (24,500)	22,000 (31,500)	26,800 (36,300)
Power Consump	ption	Cooling kW *1	2.43	3.1	3.8	4.4	2.46	3.06	3.53	4.37
Power Consump	ption	Heating kW *1,*3					2.42 (4.32)	3.13 (5.63)	3.4 (6.2)	4.3 (7.1)
Power Consump	ption	Heating kW *2,*3					2.1 (4.0)	2.6 (5.1)	2.7 (5.5)	3.2 (6.1)
E.E.R.		*1	10.4	10.5	11.4	11.4	10.4	10.5	10.4	11.4
S.E.E.R.			12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
HSPF							7.0	6.8	7.0	7.0
COP		Heating *1					3.1	3.0	3.3	3.3
COP		Heating *2					2.2	2.0	2.3	2.5
INDOOR UNIT			PC24EK	PC30EK	PC36EK	PC42EK	PCH24EK	PCH30EK	PCH36EK	PCH42EK
External Finish			Munsell 2.5Y 8/0.3 & N2	Munsell 2.5Y 8/0.3 & N2	Munsell 2.5Y 8/0.3 & N2	Munsell 2.5Y 8/0.3 & N2	Munsell 2.5Y 8/0.3 & N2	Munsell 2.5Y 8/0.3 & N2	Munsell 2.5Y 8/0.3 & N2	Munsell 2.5Y 8/0.3 & N2
Power Supply		V, Phase, Hz	115,1,60	115,1,60	115,1,60	115,1,60	230,1,60	230,1,60	230,1,60	230,1,60
Max. Fuse Size		(Time Delay) A	15	15	15	15	20	25	25	25
Min. Ampacity			3	3	3	3	12	15	15	17
Fan Motor		F.L.A.	1.8	1.8	2.1	2.4	0.7	0.7	1.3	1.3
Auxiliary Heater	r	A (kW)					8.4 (1.9)	10.8 (2.5)	12 (2.8)	12 (2.8)
Airflow Lo-Hi		Dry CFM	850-1,050	850-1,050	990-1,270	990-1,270	740-920	740-920	990-1,270	990-1,270
Airflow Lo-Hi		Wet CFM	730-900	730-900	860-1,100	860-1,100	670-830	670-830	860-1,100	860-1,100
Moisture Remov		Pints/h	7.2	9.6	11.1	12.6	7.0	9.1	10.9	12.3
Sound Pressure	e Level Lo-Hi	dB(A)	43-50	43-50	44-52	44-52	43-50	43-50	45-51	45-51
Cond. Drain Cor	nnection	0.D. Inches	1	1	1	1	1	1	1	1
Indoor Unit Wid	dth	Inches	50-7/16	50-7/16	62-1/4	62-1/4	50-7/16	50-7/16	62-1/4	62-1/4
Indoor Unit Dep	oth	Inches	26-13/16	26-13/16	26-13/16	26-13/16	26-13/16	26-13/16	26-13/16	26-13/16
Indoor Unit Heig	ght	Inches	10-1/8	10-1/8	10-1/8	10-1/8	10-1/8	10-1/8	10-1/8	10-1/8
Weight		Pounds	93	93	115	115	101	101	119	119
OUTDOOR UN	IT [†]		PUG24CK	PUG30CK	PUG36CK	PUG42CK	PUGH24CK	PUGH30CK	PUGH36CK	PUGH42CK
External Finish						Baked Polyester	Powder Coating			
Sound Pressure		dB(A)	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
Max. Fuse Size	208/230V 1PH		25.0	30.0	35.0	40.0	25.0	30.0	35.0	40.0
	208/230V 3PH	(Time Delay) A	15.0	20.0	25.0	25.0	15.0	20.0	25.0	25.0
	460V 3PH		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Min. Ampacity 2			16.3	17.8	21.9	24.3	16.3	17.8	21.9	24.3
	208/230V 3PH		10.6	12.2	14.7	17.4	10.6	12.2	14.7	17.4
	460V 3PH		5.3	6.1	7.3	8.1	5.3	6.1	7.3	8.1
	208/230V 1PH		1.0	1.0	1.9	1.9	1.0	1.0	1.9	1.9
	208/230V 3PH	F.L.A.	1.0	1.0	1.9	1.9	1.0	1.0	1.9	1.9
	460V 3PH		0.49	0.49	0.89	0.89	0.49	0.49	0.89	0.89
	208/230V 1PH		12.2	13.5	16.0	17.9	12.2	13.5	16.0	17.9
	208/230V 3PH	R.L.A.	7.7	9.0	10.3	12.4	7.7	9.0	10.3	12.4
	460V 3PH		3.8	4.5	5.1	5.8	3.8	4.5	5.1	5.8
	208/230V 1PH		63.0	72.5	88.0	104.0	63.0	72.5	88.0	104.0
	208/230V 3PH	L.R.A.	55.0	63.0	77.0	88.0	55.0	63.0	77.0	88.0
	460V 3PH		27.0	31.0	39.0	44.0	27.0	31.0	39.0	44.0
	208/230V 1PH		9.5	10.2	11.5	14.7	9.5	10.2	11.5	14.7
2	208/230V 3PH	F.L.A.	6.2	6.6	7.5	9.6	6.2	6.6	7.5	9.6
	460V 3PH		3.1	3.3	3.7	4.8	3.1	3.3	3.7	4.8
	208/230V 1PH	I Init Tat-I	10.5	11.2	13.4	16.6	10.5	11.2	13.4	16.6
	208/230V 3PH	Unit Total F.L.A.	7.2	7.6	9.4	11.5	7.2	7.6	9.4	11.5
	460V 3PH		3.6	3.8	4.6	5.7	3.6	3.8	4.6	5.7
Crankcase Heat	ter	Watts	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Refrigerant Cont	itrol			Metering orifice instal for cooling o	lled at the outdoor unit peration		Capi	Fixed orifice at ou illary tube installed at th	tdoor unit for cooling e indoor unit for heating	operation
Defrost Method						Revers				
Outdoor Unit Wi	/idth	Inches	33-7/8	33-7/8	33-7/8	33-7/8	33-7/8	33-7/8	33-7/8	33-7/8
Outdoor Unit De	epth	Inches	30-1/4	30-1/4	30-1/4	30-1/4	30-1/4	30-1/4	30-1/4	30-1/4
Outdoor Unit He	-	Inches	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Malalat		Pounds	164.0	182.0	192.0	194.0	166.0	184.0	195.0	197.0
Weight			With Indoor Unit							
Remote Control	iller					With Indo	oor Unit			
-		(By Built-In Transformer)	12VDC	12VDC	12VDC	With Indo 12VDC	oor Unit 12VDC	12VDC	12VDC	12VDC

 *1,*2,*3 See page 27 for rating conditions.

[†] 0°F low ambient operation possible on slim-line horizontal	
discharge outdoor units with optional wind baffle.	

Mr.Slim® PL/PLH CEILING-RECESSED SERIES



PL/PLH Indoor Unit 12,000 to 42,000 Btu/h Capacity

If there's at least a foot of space above your ceiling, the PL/PLH-Series is for you. The PL/PLH-Series combines powerful cooling and heating in an elegant cassette design that recesses into the ceiling. When installed, the attractive, flush-mounted grille is all you see. With its fresh air intake capability and four-way discharge airflow, the

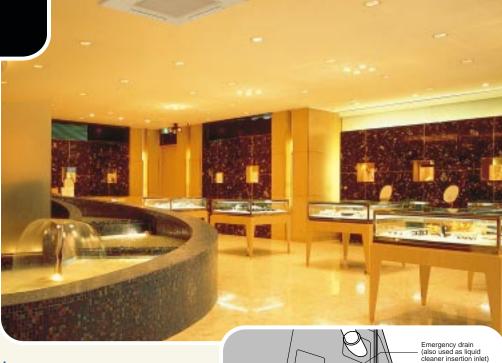


PL/PLH-Series gives you plenty of fresh, comfortable air. There are even branch duct knockouts for either a round or

a rectangular duct, allowing for the conditioning of a smaller adjacent space. All these features are in a versatile, attractive design made to disappear discreetly into the ceiling.

Easy-To-Maintain Long-Life Filter

The washable filter provides about 2,500 hours of use in a normal office environment before cleaning is needed.



Auto Cooling/Heating Changeover

PLH heat pump units will automatically switch back and forth from cooling to heating to compensate for the drastic rising and falling temperature in a room.

Customize The Airflow Pattern to Meet Your Needs

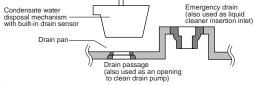
The PL/PLH offers 2, 3, or 4-way outlet selection, enabling effective air conditioning in places such as halls, showrooms, and shopping malls.*

* Optional air outlet shutter plate is necessary for 2 or 3 way airflow setting.

Easy To Install

PL/PLH units are about 40% lighter than previous models, making suspension work easier. The height can be adjusted without removing the grille through the corner pockets.

(also used as liquid cleaner insertion inlet) Drain passage (also used as an opening to clean drain pump) to clean drain pump)



Drain Lift For Condensate Water Disposal

A built-in high-performance drain pump means improved condensate water disposal. The pump lifts the water up to 33 inches above the unit to help simplify drain piping. A built-in drain sensor shuts off the indoor unit if a drain is clogged or if in the unlikely event the pump malfunctions.

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SPECIFICATIONS WITH HORIZONTAL AIR SLIM-LINE OUTDOOR UNIT PL/PLH CEILING CASSETTE AIR CONDITIONERS & HEAT PUMPS 0°F LOW AMBIENT CAPABLE'



SYSTEM		PL12AK	PL18AK	PL24AK	PL30AK	PL36AK	PL42AK	PLH18AK	PLH24AK	PLH30AK	PLH36AK	PLH42AK
Capacity	Cooling Btu/h *1	12,500	18,400	24,000	31,000	36,500	42,500	18,000	24,000	30,000	35,400	42,000
Capacity	Heating Btu/h *1,*3							19,000 (24,500/25,500)	26,000	· · ·	38,000 (45,900/47,600)	44,300 (52,200/53,900
Capacity	Heating Btu/h *2,*3							11.000	16.500	18,500	23,000	26,800
Power Consumption	Cooling kW *1	1.26	1.85	2.65	3.17	3.64	4.08	(16,500/17,500) 1.75	(22,000/23,000) 2.57	(25,000/26,700) 3.17	(30,900/32,600) 3.63	(34,700/36,400 3.98
Power Consumption	Heating kW *1,*3	1.20	1.00	2.00	0.17	0.04	00	1.59 (3.19/3.49)		3.04 (4.94/5.44)		3.82 (6.12/6.62
Power Consumption	Heating kW *2,*3							1.32 (2.92/.3.22)	2.15(3.75/4.05)		, ,	3.24 (5.54/6.04
	*1			0.1		10.0	10.4	. ,	. ,		, ,	
E.E.R.	1	9.9	9.9	9.1	9.8	10.0	10.4	10.3	9.3	9.5	9.8	10.6
S.E.E.R.		10.1	10.2	10.0	10.6	10.5	10.8	10.5	10.3	10.4	10.0	10.7
HSPF								7.2	7.0	6.9	7.1	7.0
COP	Heating *1							3.5	3.0	3.2	3.2	3.4
COP	Heating *2							2.4	2.2	2.1	2.3	2.4
INDOOR UNIT		PL12AK	PL18AK	PL24AK	PL30AK	PL36AK	PL42AK	PLH18AK	PLH24AK	PLH30AK	PLH36AK	PLH42AK
External Finish						Galvaniz	zed sheets wit	h gray heat in	sulation			
Power Supply	V, Phase, Hz	115,1,60	115,1,60	115,1,60	115,1,60	115,1,60	115,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60
Max. Fuse Size	(Time Delay) A	15.0	15.0	15.0	15.0	15.0	15.0	20.0	20.0	25.0	25.0	25.0
Min. Ampacity		2.0	2.0	3.0	3.0	3.0	3.0	15.0	15.0	17.0	17.0	17.0
Fan Motor	F.L.A.	1.2	1.2	2.6	2.6	2.6	2.6	0.7	1.2	1.2	1.4	1.4
Auxiliary Heater	A (kW)							7.7-8.3(1.6-1.9)	7.7-8.3(1.6-1.9)	9.1-10.4(1.9-2.4)	11.1-122(2.3-2.8)	11.1-122(23-2.8)
Airflow Lo-Hi	Dry CFM	420-560	530-710	710-990	780-1,060	780-1,060	780-1,060	530-710	710-990	780-1,060	780-1,060	780-1,060
Airflow Lo-Hi	Wet CFM	390-530	490-670	670-950	740-1,020	740-1,020	740-1,020	490-670	670-950	740-1,020	740-1,020	740-1,020
Moisture Removal	Pints/h	3.8	5.3	7.2	9.6	11.1	12.6	5.3	7.0	9.1	10.9	12.3
Sound Pressure Level Lo-Hi	dB(A)	27-32	31-37	33-41	43-45	37-45	37-45	31-37	33-41	35-43	37-45	37-45
Cond. Drain Connection	0.D. Inches	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
Indoor Unit Width	Inches	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16
Indoor Unit Depth	Inches	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16
Indoor Unit Height	Inches	10-3/16	10-3/16	11-3/4	11-3/4	11-3/4	11-3/4	10-3/16	11-3/4	11-3/4	11-3/4	11-3/4
-	Pounds	49.0	53.0	66.0	66.0	71.0	71.0	57.0	71.0	71.0	75.0	75.0
Weight		43.0	33.0	00.0	00.0				71.0	71.0	75.0	75.0
Decorative Indoor Grille	External Finish	07.0/0	07.0/0	07.0/0	07.0/0		nsell 0.7Y 8.5		07.0/0	07.0/0	07.0/0	07.0/0
Decorative Indoor Grille Width	Inches	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8
Decorative Indoor Grille Depth	Inches	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8
Decorative Indoor Grille Height	Inches	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16
Decorative Indoor Grille Weight	Pounds	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
OUTDOOR UNIT [®]		PU12EK	PU18EK	PU24EK	PU30EK	PU36EK	PU42EK7	PUH18EK	PUH24EK	PUH30EK	PUH36EK	PUH42EK7
External Finish			Munsell 5Y 7/1	Munsell 5Y 7/1			Munsell 5Y 7/1					
Sound Pressure Level	dB(A)	50.0	53.0	55.0	55.0	55.0	56.0	53.0	55.0	55.0	55.0	56.0
Power Supply	V, Phase, Hz	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60
Max. Fuse Size	(Time Delay) A	15.0	20.0	20.0	30.0	30.0	40.0	20.0	20.0	30.0	30.0	40.0
Min. Ampacity		11.0	16.0	16.0	20.0	22.0	28.0	16.0	16.0	20.0	22.0	27.0
Fan Motor	F.L.A.	0.65	0.75	0.65+0.65	0.65+0.65	0.75+0.75	0.8+0.8	0.75	0.65+0.65	0.75+0.75	0.75+0.75	0.8+0.8
Compressor	Model (Type)	RH167NAB	RH247NAB	NH33NBD	NH41NAD	NH47NAD	ZR42K3PFV	RH247NAB	NH33NBD	NH41NAD	NH47NAD	ZR42K3PFV
Compressor	R.L.A.	8.9	12.0	11.5	14.0	17.5	20.4	12.0	11.5	14.0	17.5	20.4
Compressor	L.R.A.	29.0	37.0	54.0	73.0	87.0	109.0	37.0	54.0	73.0	87.0	109.0
Crankcase Heater	A(W)	0.11/0.12(23/28)	0.11/0.12(23/28)	0.16/0.17(33/39)	0.16/0.17(33/39)	0.16/0.17(33/39)	0.16/0.17(33/39)	0.11/0.12(23/28)	0.16/0.17(33/39)	0.16/0.17(33/39)	0.16/0.17(33/39)	0.16/0.17(33/39
Refrigerant Control						1	Capil	lary Tube				
Defrost Method								-		Reverse Cycle)	
Outdoor Unit Width	Inches	34-1/4	34-1/4	34-1/4	34-1/4	38-3/16	38-3/16	34-1/4	34-1/4	38-3/16	38-3/16	38-3/16
Outdoor Unit Depth	Inches	11-5/8	11-5/8	11-5/8	11-5/8	13-9/16	13-9/16	11-5/8	11-5/8	13-9/16	13-9/16	13-9/16
Outdoor Unit Height	Inches	25-9/16	33-1/2	49-9/16	49-9/16	49-9/16	49-9/16	33-1/2	49-9/16	49-9/16	49-9/16	49-9/16
-												
Weight	Pounds	105.0	154.0	207.0	208.0	220.0	260.0	131.0	202.0	245.0	246.0	268.0
Remote Controller		101/00	101/00	101/00	101/00	101/00	1	rative Grille	10//50	101/00	101/00	101/00
Control Voltage	(By Built-In Transformer)	12VDC	12VDC	12VDC	12VDC	12VDC						
Refrigerant Piping Size	(Liquid x Gas) Inches	3/8 x 5/8	3/8 x 5/8	3/8 x 5/8	1/2 x 3/4	1/2 x 3/4	1/2 x 3/4	3/8 x 5/8	3/8 x 5/8	1/2 x 3/4	1/2 x 3/4	1/2 x 7/8

*1, *2, *3 See page 27 for rating conditions.

⁺⁺LIMITED WARRANTY | 6-year warranty on compressor. 1-year warranty on parts.

⁺0°F low ambient operation possible on slim-line horizontal discharge outdoor units with optional wind baffle.



SPECIFICATIONS WITH VERTICAL AIR HIGH-EFFICIENCY OUTDOOR UNIT PLG/PLGH CEILING CASSETTE AIR CONDITIONERS & HEAT PUMPS 25°F LOW AMBIENT



SYSTEM		PLG18AK	PLG24AK	PLG30AK	PLG36AK	PLG42AK	PLGH18AK	PLGH24AK	PLGH30AK	PLGH36AK	PLGH42AK
Capacity	Cooling Btu/h *1	18,000	22,200	30,000	34,200	41,000	18,000	22,200	30,000	34,200	41,000
Capacity	Heating Btu/h *1						17,400 (23,900)		28,600 (36,800)	33,000 (42,500)	
Capacity	Heating Btu/h *2						10,5600 (17,100)	, (,)	18,000 (26,200)	22,000 (31,500)	
Power Consumption	Cooling kW *1	1.88	2.48	3.1	3.76	4.4	1.77	2.42	3.2	3.53	4.27
Power Consumption	Heating kW *1						1.60(3.5)	2.48 (4.38)	2.97 (5.37)	3.40 (6.2)	4.38 (7.18)
Power Consumption	Heating kW *2					_	1.4 (3.3)	2.0 (3.9)	2.9 (5.0)	2.7 (5.5)	3.4 (6.2)
E.E.R.	*1	10.5	10.2	10.9	10.9	10.8	10.5	10.2	10.9	10.9	10.8
S.E.E.R.		12.0	11.5	12.0	12.0	12.0	12.0	11.5	12.0	12.0	12.0
HSPF							7.0	6.8	7.0	7.0	7.0
СОР	Heating *1						3.0	3.0	3.3	3.1	3.1
COP	Heating *2						2.1	2.0	2.4	2.3	2.2
INDOOR UNIT	ricating 2	PL18AK	PL24AK	PL30AK	PL36AK	PL42AK	PLH18AK	PLH24AK	PLH30AK	PLH36AK	PLH42AK
External Finish		LIDAK	I LZ4AK	LJUAK			ith Gray Heat Ins		TENSOAR	I LIIJUAN	I LII4ZAK
Power Supply	V, Phase, Hz	115,1,60	115,1,60	115,1,60	115,1,60	115,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60
Max. Fuse Size	(Time Delay) A	15.0	15.0	15.0	15.0	15.0	200/230,1,00	200/230,1,00	200/230,1,00	200/230,1,00	200/230,1,00
Min. Ampacity	(TITTE Delay) A	2.0	3.0	3.0	3.0	3.0	15.0	15.0	17.0	17.0	17.0
	FL A	2.0					0.7			-	
Fan Motor	F.L.A.	1.Z	2.6	2.6	2.6	2.6		1.2	1.2	1.4	1.4
Auxiliary Heater	A (kW)				700 4 000		7.7-8.3(1.6-1.9)	7.7-8.3(1.6-1.9)	9.1-10.4(1.9-2.4)	11.1-12.2(2.3-2.8)	11.1-12.2(2.3-2.8)
Airflow Lo-Hi	Dry CFM	530-710	710-990	780-1,060	780-1,060	780-1,060	530-710	710-990	780-1,060	780-1,060	780-1,060
Airflow Lo-Hi	Wet CFM	490-670	670-950	740-1,020	740-1,020	740-1,020	490-670	670-950	740-1,020	740-1,020	740-1,020
Moisture Removal	Pints/h	5.3	7.2	9.6	11.1	12.6	5.3	7.0	9.1	10.9	12.3
Sound Pressure Level Lo-Hi	dB(A)	31-37	33-41	43-45	37-45	37-45	31-37	33-41	35-43	37-45	37-45
Cond. Drain Connection	0.D. Inches	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
Indoor Unit Width	Inches	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16
Indoor Unit Depth	Inches	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16	33-1/16
Indoor Unit Height	Inches	10-3/16	11-3/4	11-3/4	11-3/4	11-3/4	10-3/16	11-3/4	11-3/4	11-3/4	11-3/4
Weight	Pounds	53.0	66.0	66.0	71.0	71.0	57.0	71.0	71.0	75.0	75.0
Decorative Indoor Grille	External Finish					Munsell 0.7Y	8.59/0.97				
Decorative Indoor Grille Width	Inches	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8
Decorative Indoor Grille Depth	Inches	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8	37-3/8
Decorative Indoor Grille Height	Inches	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16	1-3/16
Decorative Indoor Grille Weight	Pounds	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
OUTDOOR UNIT [†]		PUG18CK	PUG24CK	PUG30CK	PUG36CK	PUG42CK	PUGH18CK	PUGH24CK	PUGH30CK	PUGH36CK	PUGH42CK
External Finish						Baked Polyeste	r Powder Coating		1		
Sound Pressure	dB(A)	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
Max. Fuse Size 208/230V 1PH		20.0	25.0	30.0	35.0	40.0	20.0	25.0	30.0	35.0	40.0
208/230V 3PH	(Time Delay) A		15.0	20.0	25.0	25.0	-	15.0	20.0	25.0	25.0
460V 3PH			15.0	15.0	15.0	15.0	-	15.0	15.0	15.0	15.0
Min. Ampacity 208/230V 1PH		13.0	16.3	17.8	21.9	24.3	13.0	16.3	17.8	21.9	24.3
208/230V 3PH		-	10.6	12.2	14.7	17.4	-	10.6	12.2	14.7	17.4
460V 3PH		-	5.3	6.1	7.3	8.1		5.3	6.1	7.3	8.1
Fan Motor 208/230V 1PH		1.0	1.0	1.0	1.9	1.9	1.0	1.0	1.0	1.9	1.9
208/230V 3PH	F.L.A.	-	1.0	1.0	1.9	1.9	-	1.0	1.0	1.9	1.9
460V 3PH	1.L.A.	-	0.49	0.49	0.89	0.89	-	0.49	0.49	0.89	0.89
		-	0.49	0.49		0.09		0.49	0.49	0.09	
		0.6	10.0	10 5	16.0	17.0	0.6	100	105	10.0	17.0
Compressor 208/230V 1PH	DIA	9.6	12.2	13.5	16.0	17.9	9.6	12.2	13.5	16.0	17.9
208/230V 3PH	R.L.A.	-	7.7	9.0	10.3	12.4	-	7.7	9.0	10.3	12.4
208/230V 3PH 460V 3PH	R.L.A.	-	7.7 3.8	9.0 4.5	10.3 5.1	12.4 5.8	-	7.7 3.8	9.0 4.5	10.3 5.1	12.4 5.8
208/230V 3PH 460V 3PH Compressor 208/230V 1PH		- - 45.0	7.7 3.8 63.0	9.0 4.5 72.5	10.3 5.1 88.0	12.4 5.8 104.0	- - 45.0	7.7 3.8 63.0	9.0 4.5 72.5	10.3 5.1 88.0	12.4 5.8 104.0
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH	R.L.A. L.R.A.	-	7.7 3.8 63.0 55.0	9.0 4.5 72.5 63.0	10.3 5.1 88.0 77.0	12.4 5.8 104.0 88.0	-	7.7 3.8 63.0 55.0	9.0 4.5 72.5 63.0	10.3 5.1 88.0 77.0	12.4 5.8 104.0 88.0
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH		- - 45.0 - -	7.7 3.8 63.0 55.0 27.0	9.0 4.5 72.5 63.0 31.0	10.3 5.1 88.0 77.0 39.0	12.4 5.8 104.0 88.0 44.0	- - 45.0 - -	7.7 3.8 63.0 55.0 27.0	9.0 4.5 72.5 63.0 31.0	10.3 5.1 88.0 77.0 39.0	12.4 5.8 104.0 88.0 44.0
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH	L.R.A.	- 45.0 - - 5.9	7.7 3.8 63.0 55.0 27.0 9.5	9.0 4.5 72.5 63.0 31.0 10.2	10.3 5.1 88.0 77.0 39.0 11.5	12.4 5.8 104.0 88.0 44.0 14.7	- - 45.0 - - 5.9	7.7 3.8 63.0 55.0 27.0 9.5	9.0 4.5 72.5 63.0 31.0 10.2	10.3 5.1 88.0 77.0 39.0 11.5	12.4 5.8 104.0 88.0 44.0 14.7
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH		- - 45.0 - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2	9.0 4.5 72.5 63.0 31.0 10.2 6.6	10.3 5.1 88.0 77.0 39.0 11.5 7.5	12.4 5.8 104.0 88.0 44.0 14.7 9.6	- - 45.0 - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2	9.0 4.5 72.5 63.0 31.0 10.2 6.6	10.3 5.1 88.0 77.0 39.0 11.5 7.5	12.4 5.8 104.0 88.0 44.0 14.7 9.6
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH	L.R.A.	- 45.0 - - 5.9 - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8	- - 45.0 - - 5.9 - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Unit Total 208/230V 1PH	L.R.A. F.L.A.	- 45.0 - - 5.9 - - 6.9	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6	- 45.0 - 5.9 - - 6.9	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Unit Total 208/230V 1PH 208/230V 3PH	L.R.A.	- 45.0 - - 5.9 - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5	- - 45.0 - - 5.9 - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 3PH 208/230V 3PH 460V 3PH Unit Total 208/230V 1PH 208/230V 3PH 460V 3PH	L.R.A. F.L.A. Unit Total F.L.A.	- 45.0 - - 5.9 - - 6.9 - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7	- - - - 5.9 - - 6.9 - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Unit Total 208/230V 1PH 208/230V 3PH	L.R.A. F.L.A. Unit Total	- 45.0 - 5.9 - - 6.9 -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0	9.0 4.5 72.5 63.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5	- - - - 5.9 - - 6.9 -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 3PH 208/230V 3PH 460V 3PH Unit Total 208/230V 1PH 208/230V 3PH 460V 3PH	L.R.A. F.L.A. Unit Total F.L.A.	- 45.0 - - 5.9 - - 6.9 - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 rffce installed at the	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 outdorr unit	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7	- - - - - - - - - - - - - - - - - - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Fixed orfif	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 e at outdoor unit for	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 ccooling	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH Compressor 208/230V 3PH Compressor 208/230V 1PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Unit Total 208/230V 1PH 208/230V 3PH 460V 3PH Unit Total 208/230V 1PH 208/230V 3PH 460V 3PH Crankcase Heater 460V 3PH	L.R.A. F.L.A. Unit Total F.L.A.	- 45.0 - - 5.9 - - 6.9 - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0	9.0 4.5 72.5 63.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 outdorr unit	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 40.0	- - - - - - - - - - - - - - - - - - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Fixed orfif	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 ccooling	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 3PH 208/230V 3PH 208/230V 1PH 208/230V 1PH 208/230V 1PH 208/230V 3PH 460V 3PH Unit Total 208/230V 3PH 208/230V 3PH 208/230V 3PH Crankcase Heater Refrigerant Control	L.R.A. F.L.A. Unit Total F.L.A.	- 45.0 - - 5.9 - - 6.9 - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 rffce installed at the	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 outdorr unit	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 40.0	- - 45.0 - - 5.9 - - 6.9 - - - 40.0 Ca	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Fixed orfif	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 e at outdoor unit for	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 ccooling	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 3PH 208/230V 3PH 208/230V 3PH 208/230V 3PH 460V 3PH 208/230V 3PH 460V 3PH Unit Total 208/230V 3PH 208/230V 3PH 208/230V 3PH Crankcase Heater Refrigerant Control Defrost Method	L.R.A. F.L.A. Unit Total F.L.A. Watts	- - 45.0 - - 5.9 - - 6.9 - - 40.0	7.7 3.8 63.0 55.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Metering or	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 office installed at the for cooling operatio	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 outdoor unit	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 40.0 Revers	- 45.0 - 5.9 - - 6.9 - - 40.0 ca ca	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Fixed oriffic Fixed oriffic Fixed oriffic	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 2 e at outdoor unit for at the indoor unit for	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 4.6 4.0 cooling reating operation	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 40.0
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Unit Total 208/230V 1PH 208/230V 3PH 460V 3PH Crankcase Heater Refrigerant Control Defrost Method Outdoor Unit Width Outdoor Unit Depth	L.R.A. F.L.A. Unit Total F.L.A. Watts Inches Inches	- - 45.0 - - 5.9 - - - - - - - - 40.0 - - - 33-7/8 30-1/4	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Metering or 33-7/8 30-1/4	9.0 4.5 72.5 63.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 rffce installed at the for cooling operatio	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 outdoor unit n	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 40.0 Revers 33-7/8 30-1/4	- 45.0 - 5.9 - 6.9 - - 40.0 - 40.0 ca e Cycle 33-7/8 30-1/4	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Fixed orffin Fixed orffin 3.6 3.3-7/8 3.0-1/4	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 ce at outdoor unit for at the indoor unit for at the indoor unit for 33-7/8 30-1/4	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 cooling r heating operation 33-7/8 30-1/4	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 40.0 33-7/8 30-1/4
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Unit Total 208/230V 1PH 208/230V 3PH 460V 3PH Crankcase Heater Refrigerant Control Defrost Method Outdoor Unit Width Outdoor Unit Depth Outdoor Unit Height	L.R.A. F.L.A. Unit Total F.L.A. Watts Inches Inches Inches	- - 45.0 - - 5.9 - - - - - 40.0 - - 40.0 - - 33-7/8 30-1/4 30.0	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Metering or 33-7/8 30-1/4 30.0	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 rffice installed at the for cooling operatio 33-7/8 30-1/4 30.0	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 outdoor unit n 33-7/8 30-1/4 30.0	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 40.0	- - 45.0 - - 5.9 - - - - - - - - - - - - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Fixed orffit Fixed orffit 33-7/8 30-1/4 30.0	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 ce at outdoor unit for at the indoor unit for at the indoor unit for 33-7/8 30-1/4 30.0	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 cooling r heating operation 33-7/8 30-1/4 30.0	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 40.0 33-7/8 30-1/4 30.0
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 3PH 460V 3PH Compressor 208/230V 3PH 460V 3PH 460V 3PH Crankcase Heater Refrigerant Control Defrost Method 0utdoor Unit Width Outdoor Unit Depth 0utdoor Unit Height Weight 1	L.R.A. F.L.A. Unit Total F.L.A. Watts Inches Inches	- - 45.0 - - 5.9 - - - - - - - - 40.0 - - - 33-7/8 30-1/4	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Metering or 33-7/8 30-1/4	9.0 4.5 72.5 63.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 rffce installed at the for cooling operatio	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 outdoor unit n	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 4.0 40.0	- 45.0 - 5.9 - 6.9 - 40.0 Ca e Cycle 33-7/8 30-1/4 30.0 163.0	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Fixed orffin Fixed orffin 3.6 3.3-7/8 3.0-1/4	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 ce at outdoor unit for at the indoor unit for at the indoor unit for 33-7/8 30-1/4	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 cooling r heating operation 33-7/8 30-1/4	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 40.0 33-7/8 30-1/4
208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Compressor 208/230V 1PH 208/230V 3PH 460V 3PH Unit Total 208/230V 1PH 208/230V 3PH 460V 3PH Crankcase Heater Refrigerant Control Defrost Method Outdoor Unit Width Outdoor Unit Depth Outdoor Unit Height	L.R.A. F.L.A. Unit Total F.L.A. Watts Inches Inches Inches	- - 45.0 - - 5.9 - - - - - 40.0 - - 40.0 - - 33-7/8 30-1/4 30.0	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Metering or 33-7/8 30-1/4 30.0	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 rffice installed at the for cooling operatio 33-7/8 30-1/4 30.0	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 outdoor unit n 33-7/8 30-1/4 30.0	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 4.0 40.0	- - 45.0 - - 5.9 - - - - - - - - - - - - -	7.7 3.8 63.0 55.0 27.0 9.5 6.2 3.1 10.5 7.2 3.6 40.0 Fixed orffit Fixed orffit 33-7/8 30-1/4 30.0	9.0 4.5 72.5 63.0 31.0 10.2 6.6 3.3 11.2 7.6 3.8 40.0 ce at outdoor unit for at the indoor unit for at the indoor unit for 33-7/8 30-1/4 30.0	10.3 5.1 88.0 77.0 39.0 11.5 7.5 3.7 13.4 9.4 4.6 40.0 cooling r heating operation 33-7/8 30-1/4 30.0	12.4 5.8 104.0 88.0 44.0 14.7 9.6 4.8 16.6 11.5 5.7 40.0 33-7/8 30-1/4 30.0

Power Supply	Electrical	[†] Outdoor Unit Suffix
Requires voltage	208/230V 1PH	CK B
indicator for complete	208/230V 3PH	СК С
model number.	460V 3PH	CKE

*1, *2, *3 See page 27 for rating conditions.

**LIMITED WARRANTY | 6-year warranty on compressor. 1-year warranty on parts.

MS/MSH/MF/MSM/MXZ RATING CONDTIONS

MODEL		INDOOR AIR INTAKE TEMPERATURE	OUTDOOR AIR INTAKE TEMPERATURE
COOLING	Maximum	95°F DB, 71°F WB	115°F DB
	Minimum	67°F DB, 57°F WB	67°F DB
HEATING	Maximum	80°F DB, 67°F WB	75°F DB, 65°F WB
	Minimum	70°F DB, 60°F WB	17°F DB, 15°F WB

Notes: For MS/MSH, MF, MSM, MXZ

*1. Rating conditions (cooling) - Indoor: 80°F DB, 67°F WB Outdoor: 95°F DB, 75°F WB

*1. Rating conditions (heating) - Indoor: 70°F DB, 60°F WB Outdoor: 47°F DB, 43°F WB

*2. Rating conditions (heating) - Indoor: 70°F DB, 60°F WB Outdoor: 17°F DB, 15°F WB

*3. Heating capacity including auxiliary electric heater operation at 115V shown in ().

GENERAL SPECIFICATIONS

PK/PKH/PC/PCH/PL/PLH RATING CONDITIONS

MODEL		INDOOR AIR INTAKE TEMPERATURE	OUTDOOR AIR INTAKE TEMPERATURE
COOLING	Maximum	95°F DB, 71°F WB	115°F DB
	Minimum	67°F DB, 57°F WB	23°F DB or 0°F DB PU (when wind baffle installed) (PUG 25°F)
HEATING	Maximum	80°F DB, 67°F WB	75°F DB, 65°F DB
	Minimum	70°F DB, 60°F WB	17°F DB, 15°F DB

Notes: For PK/PKH, PC/PCH, PL/PLH

*1. Rating conditions (cooling) – Indoor: 80°F DB, 67°F WB Outdoor: 95°F DB, 75°F WB Rating conditions (heating) – Indoor: 70°F DB, 60°F WB Outdoor: 47°F DB, 43°F WB

*2. Rating conditions (heating) - Indoor: 70°F DB, 60°F WB Outdoor: 17°F DB, 15°F WB

*3. Heating capacity and power consumption in () include auxiliary electric heater operation at 208/230V.

OPTIONAL ACCESSORIES

PART NUMER	USE WITH	DESCRIPTION		
CWMB1	MU and PU outdoor units	condensing unit wall mounting brackets		
EE1750-115	P series A/C	mini condensation pump - 115V		
EE1750-230	P series H/P	mini condensation pump - 230V		
SI2750N-115	M series	mini condensation pump - 115V		
SI2750N-230	M series	mini condensation pump - 230V		
ICM326HM	M series (except MXZ)	low ambient head pressure controller		
ICM379M	MSM18/30	extra coil sensor needed for MUM18/30		
LLCP1	P-models with wired controller	2-system lead/lag controller		
MAC-1000FT	MS/MSH09NW only	enhanced air cleaning filter (1)		
MAC-101HRC	MSH series	simple remote controller - H/P		
MAC-102CRC	M series	simple remote controller - A/C		
MAC-454JP	MXZ & MS/MSH12 combinations	joint piping accessory		
MAC-455JP	MXZ & 3 MS/MSH09 combinations	joint piping accessory		
MAC-456JP	MXZ & MS/MSH09 & 15 combinations MXZ & MS/MSH09 & 17 combinations	joint piping accessory		
MAC-1100FT	MS/MSH12/15/17TN	enhanced air cleaning filter (1)		
MAC-1300FT	MS/MSH09TW	enhanced air cleaning filter (1)		
MAC-1500DF	MS/MSH09NW only	deodorizing filter (1)		
MAC-1600DF	MS/MSH12/15/17TN	deodorizing filter (1)		
MAC-1800DF	MS/MSH09TW	deodorizing filter (1)		
PAC-715AD	EK & FK models	timer adapter for programmable timer		
PAC-725AD	EK, FK, AK, GK models	multiple remote controller adapter & duct fan controller		
PAC-SC32PTA	FK, AK, GK models	7-day programmable timer		
PAC-SG01KF	PL-AK models	high efficiency filter: requires multi-function casement (PAC-SG03TM-E)		
PAC-SG03TM-E	PL-AK models	multi-function casement for high efficiency filter and for one additional fresh air intake		
PAC-SG06SP-E	PL-AK models	air outlet shutter plate		
PAC-SK65PT	EK models with original controllers	7-day programmable timer		
PAR-SW96A-E	PL/PLH-AK models	wireless remote controller kit: receiver and wireless remote		
PCH364201	PC/PCH36/42EK	permanent filter kit: includes (1) filter set and hardware		
PCH364202	PC/PCH36/42EK	permanent replacement filters (2)		
PCH364203	PC/PCH36/42EK	disposable filter kit: includes (1) filter set and hardware		
PCH364204	PC/PCH36/42EK	disposable replacement filter media: polyester, 12-pack or 24 pieces		
PCH364205	PC/PCH36/42EK	hardware only: frame and accessories (no filters)		
PCH364206	PC/PCH36/42EK	Odorstat replacement media sets (2): packed 24 per box or 48 pieces		
RCH-D	MS/MSH-N and PK-FL models	lockdown bracket for remote controller		
RCMKP1CB	MS/MSH-T and PKH-FL models	lockdown bracket for remote controller		
TC	PUG/PUGH outdoor units	corrosive resistant coating Please add <i>TC</i> suffix to outdoor model number when ordering		
ULTRILITE1	all outdoor models that fit	condensing unit mounting pad (in.): 16x36x3		
ULTRILITE2	all outdoor models that fit	condensing unit mounting pad (in.): 24x24x3		
SCHIEFFEE	all outdoor models that fit			
	(PLIG/PLIGH)	condensing unit mounting pad (in): 36×26×2		
ULTRILITE3 WB-PEK	(PUG/PUGH) PU12EK, PU18EK	condensing unit mounting pad (in.): 36x36x3 low ambient wind baffle		

GENERAL SPECIFICATIONS

REFRIGERANT TUBING SIZE

MODEL	OUTDOOR	MAX. HEIGHT Difference (FT.)	MAX. Tubing Length (FT.)
MS09NW(TW), MSH09NW(TW)	MU/MUH	25	49
MF12EN, MF15EN	MU	25	49
MS12TN, MSH12TN, MSH12EN, MS15TN MSH15TN, MSH15EN, MS17TN, MSH17TN	MU/MUH	25	49
PK12FK, PL12AK, PK18[FK,FL], PL18AK, PL18AK, PLH18AK, PK18[FK,FL]	PU/PUH	130	130
PKGH18[FK,FL] PKG18[FK,FL], PLG18AK, PLGH18AK, PKG18[FK,FL]	PUG/PUGH	100	150
PK24[FK,FL], PKH24[FK,FL], PC24EK, PCH24EK, PL24AK, PLH24AK, PK24[FK,FL]	PU/PUH	164	164
PKG24[FK,FL], PKGH24[FK,FL], PCG24EK, PCGH24EK, PLG24AK, PLGH24AK, PKG24[FK,FL]	PUG/PUGH	100	150
PK30[FK,FL] PK30[FK,FL], PKH30FK, PL30AK, PLH30AK, PC30EK, PCH30EK, PK36FK, PK36[FK,FL], PKH36[FK,FL], PL36AK, PLH36AK, PC36EK, PCH36EK, PL42AK, PC42EK	PU/PUH	164	164
PKG30[FK,FL], PKG30[FK,FL], PKGH30[FK,FL] PLG304K, PLGH304K, PCG30EK, PCGH30EK, PKG36[FK,FL], PKG36[FK,FL], PKGH36[FK,FL] PLG364K, PLGH364K, PCG36EK, PCGH36EK, PLG424K, PCG42EK	PUG/PUGH	100	150
PLH42AK, PCH42EK	PU/PUH	164	164
PLGH42AK, PCGH42EK	PUG/PUGH	100	150
MXZ30TN Total refrigerant tubing length of any combination of indoor units cannot exceed 197 feet.	MXZ30	33	82

RE	FRIGERANT	TUBING	SETS	
Use With	Length (Ft.)	Coupling	Order No.	Tubing Size
	16	Flare/Flare	PACSK05FS	3/8-5/8
All P Models	22	Flare/Flare	PACSK07FS	3/8-5/8
12,000-24,000 BTU	32	Flare/Flare	PACSK10FS	3/8-5/8
	49	Flare/Flare	PACSK15FS	3/8-5/8
All P Models	16	Flare/Flare	PACSK05FF	1/2-3/4
30.000- 42.000 BTU	22	Flare/Flare	PACSK07FF	1/2-3/4
(Except PLH42FK(AK)	32	Flare/Flare	PACSK10FF	1/2-3/4
and PCH42EK)	49	Flare/Flare	PACSK15FF	1/2-3/4
PLH42AK	22	Flare/Flare	PACSK07FK	1/2-7/8
PCH42EK	49	Flare/Flare	PACSK15FK	1/2-7/8
	10	Flare/Flare	MAC645P	1/4-3/8
MS09TW	16	Flare/Flare	MAC646P	1/4-3/8
MSH09TW	23	Flare/Flare	MAC647P	1/4-3/8
101010310	33	Flare/Flare	MAC648P	1/4-3/8
	49	Flare/Flare	MAC649P	1/4-3/8
	10	Flare/Flare	MAC660P	1/4-1/2
	16	Flare/Flare	MAC661P	1/4-1/2
MS12TN MSH12TN	23	Flare/Flare	MAC662P	1/4-1/2
	33	Flare/Flare	MAC663P	1/4-1/2
	49	Flare/Flare	MAC664PI	1/4-1/2
MF12EN2	10	Flare/Flare	MAC725P	1/4-5/8
MF15EN2	16	Flare/Flare	MAC726P	1/4-5/8
MS15TN	23	Flare/Flare	MAC727P	1/4-5/8
MSH15TN MS17TN	33	Flare/Flare	MAC728P	1/4-5/8
MSH17TN	49	Flare/Flare	MAC729P	1/4-5/8

**LIMITED WARRANTY

6-year warranty on compressor. 1-year warranty on parts.

* BTU/h performance rated at ARI conditions. Specifications and prices are subject to change without notice. See price guide for accessory pricing.

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tion under Series 9000 of the Internationar ranties for the production of air conditioning t system standard ISO 14001 certification. 001 certificati Quality warra

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HVAC Advanced Products Division

Mitsubishi Electric & Electronics USA, Inc. 4505-A Newpoint Place, Lawrenceville, GA 30043 Call 678-376-2900 or toll free 800-433-4822 (#3) Fax: 678-376-3540 or toll free 800-889-9904

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^{††}See complete warranty for terms, conditions, and limitations. A copy is available from Mitsubishi Electric, 4505-A Newpoint Place, Lawrenceville, GA 30043.