MINI-SPLIT SYSTEMS



MS7C/MS7H

Lennox® 7 Series Single Zone - R-410A

PRODUCT SPECIFICATIONS

Bulletin No. 210612 September 2011 Supersedes August 2011



MS7-CO Air Conditioner Outdoor Unit MS7-HO Heat Pump Outdoor Unit



MS7-CI Air Conditioner Indoor Unit MS7-HI Heat Pump Indoor Unit



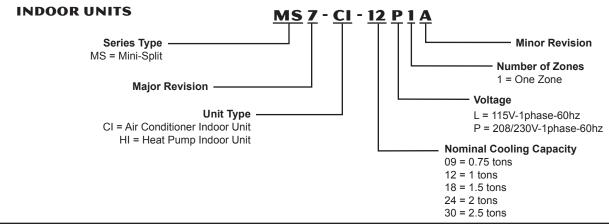
LENNOX



SEER up to 22.00 0.75 to 2.5 Tons

Cooling Capacity - 9,000 to 28,000 Btuh Heat Pump Heating Capacity - 9,500 to 28,400 Btuh

MODEL NUMBER IDENTIFICATION OUTDOOR UNITS MS 7 - CO - 12 P 1 A Series Type **Minor Revision** MS = Mini-Split **Number of Zones** 1 = One Zone Voltage **Major Revision** L = 115V-1phase-60hz P = 208/230V-1phase-60hz **Nominal Cooling Capacity** Unit Type 09 = 0.75 tonsCO = Air Conditioner Outdoor Unit 12 = 1 tonsHO = Heat Pump Outdoor Unit 18 = 1.5 tons 24 = 2 tons30 = 2.5 tons



FEATURES - OUTDOOR UNITS

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EQUIPMENT WARRANTY

Compressor - limited warranty for **five** years in residential installations and five years in non-residential installations.

All other covered components - **five** years in residential installations and one year in non-residential installations.

Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.

APPLICATIONS

SEER up to 22.00.

HSPF (Heat Pumps) up to 10.20.

0.5 through 2.5 ton.

Single phase power supply (115V and 208/230V).

Outdoor unit sound levels as low as 63 dB.

Ductless mini-split systems provide a wide range of capacities and applications and provide an alternative when a ducted system is impractical or cost prohibitive. See AHRI System Matches.

Units shipped completely factory assembled, internally piped, and wired.

Installer must set outdoor unit, hang indoor unit, connect refrigerant lines, and make electrical connections to complete job

APPROVALS

AHRI Certified to AHRI Standard 210/240-2008.

Tested in the Lennox Research Laboratory environmental test room.

Rated according to U.S. Department of Energy (DOE) test procedures.

Indoor and outdoor units and components within bonded for grounding to meet safety standards for servicing required by UL and CEC.

Units are UL and ULC listed.

Energy Star® certified units are designed to use less energy, help save money on utility bills, and help protect the environment. Many Lennox home comfort systems meet Energy Star requirements when used with matching components.

MS7C/MS7H - Mini-Split Systems / Page 2

REFRIGERATION SYSTEM

R-410A Refrigerant

Non-chlorine, ozone friendly, R-410A.

Unit pre-charged with refrigerant.



Outdoor Coil

Aluminum fins fitted to copper tubes.

Wire grille guard provided.

Outdoor Fan

Direct drive fan moves large air volumes uniformly through entire condenser coil for high refrigerant cooling capacity.

Fan guard provided.

Refrigerant Line Connections, Service Valve

Flare connection lines are located on side of unit cabinet.

Fully serviceable brass service valve prevents corrosion and provide access to refrigerant system. Shut-off valve on can be fully shut off while 2-way service valve (with service port) may be front seated to manage refrigerant charge while servicing system.

NOTE - Special Male Flare Adaptor is required to check operating pressures. See Optional Accessories table.

COMPRESSOR

Variable Frequency Rotary Compressor

Twin rotary compressor features high efficiency operation.

Balanced for reduced vibration and quiet operation.

Brushless DC motor uses powerful Neodymium magnets, which are approximately 15-20 times stronger than ferrite magnets used in conventional AC compressors.



Protects against refrigerant migration that can occur during low ambient operation.

FEATURES - OUTDOOR UNITS

CONTROLS

DC Inverter Control

Provides continuous operation, while adjusting capacity according to room temperature.

The accurate sensing of cooling or heating loads prevents frequent changes in capacity and ensures efficient, economical operation.

Outdoor Unit Microprocessor

Electronic expansion valve control (all models except MS7-HO-30P).

Automatic compressor timed-off protection (3 minutes).

Automatic fan delay in heating mode (heat pump models) after coil is warm.

Temperature sensor.

LEDs on control (09-24 models) or two-digit character display (30 model) display error codes and assist in troubleshooting.

Communication port to indoor unit.

4-way valve control (heat pump models).

Electronic Expansion Valve

Furnished on all models except MS7-HO-30P. MS7-HO-30P uses a capillary system.

Compressor Overcurrent Protection

Overcurrent protection can result due to any of the following:

- The ambient temperature is too high
- Locked rotor on the compressor
- · Outdoor air is blocked or restricted

Condenser High Temperature Protection

Condenser high temperature can occur due to any of the following conditions:

- · High outdoor ambient
- · Outdoor fan blocked
- · Outdoor coil blocked

The outdoor coil thermistor continuously monitors the temperature and communicates with the microprocessor.

Depending on the temperature measured, the compressor will be allowed to increase the frequency if needed to meet the load or is forced to run at the current or reduced frequency. If the temperature gets excessively high the compressor will be de-energized as shown below:

When the outdoor coil temperature drops to 124°F, the unit will resume normal operations

NOTE - In heating mode (heat pump models) the indoor fan is de-energized 60 seconds after the compressor is de-energized.

High Pressure Discharge Temperature Protection

The compressor discharge temperature can be high due to any of the following:

- Low refrigerant charge
- Blocked capillary

The compressor discharge line thermistor continuously monitors the temperature and communicates with the microprocessor.

Depending on the temperature measured, the compressor will be allowed to increase the frequency to meet the load or is forced to run at the current or reduced frequency. If the temperature gets excessively high, the compressor will be de-energized. When the compressor discharge temperature drops below 194°F, the unit will resume normal operations.

Intelligent Power Module (IPM) Protection

Protects the unit from any of the following conditions:

- Loss of cooling to the heat sink
- · High ambient temperature
- Low voltage

Low Voltage Protection

If the incoming voltage is below the minimum allowed, E5 will be displayed on the front panel of the indoor unit.

Terminal Strip

Furnished for easy wiring connections.

Defrost Control (Heat Pump Models)

Defrost cycle is automatically enabled if there is a buildup of frost on the outdoor coil. Outdoor fan and indoor blower operation is terminated during the defrost cycle.

H1 is displayed on the indoor unit panel on the front cover during a defrost cycle.

Reversing Valve (Heat Pump Models)

4-way interchange reversing valve effects a rapid change in direction of refrigerant flow resulting in quick changeover from cooling to heating and vice versa.

Valve operates on pressure differential between outdoor unit and indoor unit of the system.

CABINET

Constructed of heavy gauge steel.

Tabs on unit base allow secure mounting to slab.

Condensate drain outlets furnished on unit base (heat pump models only). Drain must be field furnished.

Access cover for power and control wiring connections.

Access cover for service valves (-18, -24 and -30 models only).

FEATURES - INDOOR UNITS

CABINET (CONTINUED)

High impact plastic cabinet.

Unit Display Panel (on Indoor Unit)

- Heat Indicator
- Cool Indicator
- Temperature/Error Code
- Power/Run

control.

- · Dehumidify Mode
- Infrared Signal Receptor (for wireless remote control)
 Unit display can be turned off using the wireless remote

Wall Mounting Plate

Furnished for easy wall mounting of the indoor unit. See dimension drawing.

Air Deflection Louvers

Horizontal Louvers default to the cooling or heating position when the unit is operating.

Horizontal louvers can be set to a preset oscillating range or fixed position by pushing the "LOUVER SETTING" button () on the wireless remote control.

Four oscillating settings and five fixed position settings. Full oscillating is the default setting when button pushed.

Vertical louvers can be manually adjusted to direct the airflow for optimal comfort.

Easy filter access.

INDOOR COIL

Copper tubes fitted to aluminum fins.

High efficiency wraparound design.

Condensate drain line furnished.

Drain line can be located on left side, right side, left rear, right rear (recommended) or bottom of unit.

BLOWER

Dual cross flow centrifugal blower.

Aerodynamic spiralled blades for increased airflow and reduced sound levels.

Turbo Function

Unit runs at maximum speed to cool or heat the area quickly.

Cold Blow Prevention (Heat Pump Models)

Prevents cold air from blowing into a conditioned space during heating mode if the following occurs:

- If coil temperature is less than 106°F and indoor air temperature is less than 75°F there is a three-minute time delay before blower runs at low speed for five minutes.
- If coil temperature is equal to or more than 106°F and room temperature is equal to or more than 75°F blower runs at low speed for five minutes.

FILTER

Cleanable filter furnished as standard.

CONTROLS

Indoor Unit Microprocessor

Contains all necessary components to control system.

Terminal Strip

Furnished for easy wiring connections.

Indoor Coil Freeze Protection

When the unit is operating in the COOL or DEHUMIDIFICATION MODE, the indoor coil may freeze due to any of the following:

- · Low system charge
- · Reduced indoor airflow
- · Restricted refrigerant flow
- Low ambient temperature (outdoor)
- · Low load (indoor)

The indoor coil thermistor monitors the coil temperature continuously. Any time the coil temperature drops below 30°F, the compressor and the outdoor fan (30 seconds later) will be switched off until the coil temperature rises above 43°F and the compressor was off for a minimum of 3 minutes.

Auto Button Operation

If the wireless remote control is lost, damaged, or the batteries are exhausted, the AUTO button located inside the front cover on the indoor unit can be used to run the unit.

Auto Settings:

- Cooling Mode (setpoint 77°F)
- Heating Mode (setpoint 68°F)
- Fan Only Mode (runs continuously)
- Fan Speed (Auto)
- · Oscillate (On)

WIRELESS REMOTE CONTROL (FURNISHED)

Complete remote control of system. Maximum operating range is 25 ft.



- ON/OFF Turns system on and off. Also overrides SLEEP function.
- MODE Select system operation modes (AUTO/ COOL/DEHUMIDIFICATION/FAN/HEAT). Default setting is AUTO. HEAT only available on heat pump models.
- +/- (Plus/Minus) Buttons Increase or decrease temperature in one degree increments.

NOTE - Temperature cannot be adjusted in AUTO mode.

FAN - Select fan speed (AUTO/LOW/MEDIUM/HIGH).
 Default setting is AUTO. Fan speed is displayed at the top of the control display.

Note - Not adjustable during Dehumidification mode.

• > LOUVER SETTING - Sets the angle of the horizontal louvers. Four oscillating settings and five fixed position settings. Full oscillating is the default setting when button is first pushed.

- CLOCK (24 Hour) Set time on display. + and buttons adjust time up or down.
- TEMP Set temperature and display current indoor ambient temperature or outdoor ambient temperature.

TIMER ON / TIMER OFF

TIMER ON (to start the unit at a preset time) and TIMER OFF (to stop the unit at a preset time) can be used separately or together. The clock on the wireless remote control must be set before using this function.

Pressing the + (plus) or - (minus) buttons sets time in one-minute increments. Press continuously for tenminute increments.

Press TIMER ON or TIMER OFF again to cancel setting.

X-FAN

Operates the indoor blower in COOL or DEHUMIDIFICATION mode for ten minutes to dry the indoor unit when unit is not operating.

Not available in AUTO, FAN or HEAT mode.

SLEEP

Used to conserve energy.

Cool Mode

After one hour of operation setpoint will be increased by 2°F.

After two hours setpoint will be increased by another 2°F and fan will operate on low speed.

Canceled by pushing the "SLEEP" button again.

Heat Mode (Heat Pump Models Only)

After one hour of operation setpoint will be decreased by 2°F.

After two hours setpoint will be decreased by another 2°F and fan will operate on low speed.

Canceled by pushing the "SLEEP" button again.

Note - SLEEP function is only available when the unit is in COOL or HEAT mode.

TURBO

Turns on blower to the maximum speed setting.

Canceled when switching modes or changing blower speeds.

LIGHT

Turns the LCD display backlight on or off.

Additional Features

Pressing the + (plus) and – (minus) buttons simultaneously locks or unlocks the keypad to prevent tampering.

Fahrenheit or Celsius temperature display. When system is off press MODE and - (minus) buttons simultaneously to switch between Fahrenheit and Celsius

Operates on two AAA 1.5V batteries (furnished).

OPTIONAL ACCESSORIES - ORDER SEPARATELY

OUTDOOR UNITS

Condenser Pad

Provides permanent foundation for outdoor units.

One-piece lightweight structural foam and molded from high-density polyethylene (HDPE), which makes them lightweight and easy to carry and install. The textured finish provides a non-skid surface so that the outdoor unit sits securely in one place. UV stable.

Disconnects

Positive unit disconnect. Single door enclosure. Fused and non-fused models available.

Fuses

30 and 60 amp fuses available.

Indoor/Outdoor Wiring Cable (09 through 24 models only)

14-gauge, 4-conductor wire. THHN (Thermoplastic High Heat-resistant Nylon-coated) wire. Suitable for wet or dry locations. Rated up to 600V.

Refrigerant Line Sets

Refrigerant lines are shipped refrigeration clean. Lines are cleaned, dried, pressurized and sealed at factory.

Wall Brackets

Used for supporting outdoor units, Type-2 bracket features a cross bar that is attached to a wall, and two L-shaped brackets that are hooked and bolted into place on the cross bar. The outdoor unit is mounted onto the L-shaped brackets, and fastened using the bolts and anti-vibration washers provided.

Whips

Heavy duty electrical whips are available in 8 and 10 gauge sizes. 6 ft. lengths. Weatherproof metal conduit.

Universal Mini-Split Installation Kit



Kit includes two-valve service manifold, premium 5 ft. hoses with ball valve, clutch type flaring tool, 6-in-1 metric torque wrench, imperial/metric hex tool, valve core tool, brass adaptors and brass caps, tool bag.

INDOOR UNITS

Condensate Mini-Split Drain Line

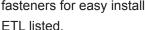
Constructed of flexible reinforced polypropylene, 160 ft. roll.

Condensate Pump

Quietly and efficiently removes condensate.

Designed to be installed above a false ceiling, behind wall-mounted evaporators or in plastic conduit.

Includes direct connect reservoir, submersible reservoir (for condensate tray), inlet tube, drain tray connector, cable ties and hook and loop fasteners for easy installation.

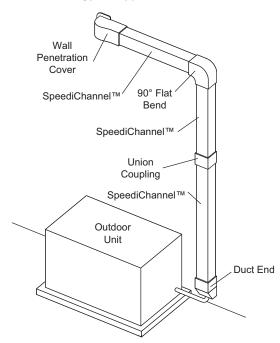


SPEEDICHANNEL™ SYSTEM



SpeediChannel™ is a channel system used to cover system line sets. The two-part system has a base and a cover. The base is fastened to a wall or ceiling with plastic clips (SpeediClip™) that snap into a channel already molded into the base. The cover fits on top of the base. SpeediChannel is manufactured from rigid PVC, which is UL rated and resistant to UV light. The system is a natural color that closely matches typical mini-split outdoor units. However, it can be painted as desired to match any wall color.

Typical Application



OPTIONAL ACCESSORIES - ORDER SEPARATELY

SPEEDICHANNEL™ SYSTEM (CONTINUED)

SpeediChannel™ Starter Kit

The starter kit includes (1) Coupling, (1) Wall Penetration, (1) Inside Elbow, (1) Long Radius Flat Bend, (10) Speediclips™, (10) 11 in. Cable Ties, and (1) SpeediChannel Instruction Booklet.

Duct End

Duct Ends are used to terminate a run of SpeediChannel™ to a small opening just large enough for



the line set and condensate drain line to pass through.

Flat Wall Escutcheon

Flat Wall Escutcheons are used to cover a rough opening in a soffit, wall, or ceiling penetration. One side of the escutcheon



is flat to allow for a SpeediChannel™ to run along a wall and to penetrate through an adjacent wall or ceiling. This is the most common type of wall penetration. Furnished in two parts, the escutcheon easily snaps onto the SpeediChannel™.

Flex Joint

A Flex Joint is an accordion-style piece of SpeediChannel™. The flex joint can be extremely flexible when routing a SpeediChannel™ system around an obstacle. Each joint is 20 in. long and can be combined together for longer flex runs. The flex joint does not require the use of a union coupling. The flex joint slides tightly inside the SpeediChannel™ system.

T-Joint

T-Joints are used for creating a tee connection between three pieces of SpeediChannel™. Each tee is individually packed and furnished with stainless steel screws.



Union Coupling

Union Couplings are used for joining two pieces of SpeediChannel™. Each coupling is individually packed and furnished with stainless steel screws.





Wall Penetration Cover

Wall penetration covers are used to transition from the SpeediChannel™ system to a through wall penetration. Wall covers are designed to allow for easy installation, even after the line set has been installed. A hooking and fastening arrangement allows for quick installation. Each wall cover is individually packed, and furnished with stainless steel screws to attach the wall cover to the base. Three screws are necessary to fasten the wall cover to the wall construction, regardless of the type of installed system.



45° and 90° Flat Bend Elbows

45° Flat Bends are used to route the SpeediChannel™ around obstacles. Each bend is individually packed and furnished with stainless steel screws.







90° Inside Elbow

90° Inside Elbows are used to route the SpeediChannel[™] around an inside corner. Each elbow is individually packed and furnished with stainless steel screws.





Mount Block White Qty. (2) 14 in. and (2) 36 in.

Mount Blocks are used as mounting bases when outdoor units must be bolted down. End caps (for aesthetics) come furnished with mounting bolts. Maximum load capacity is 900 pounds per mounting block. Installation temperatures range from -4°F to 140°F. Mount blocks fit all mini-split outdoor units with a sliding rail feature.

SPECIFICATIONS - AIR CONDITIONER SYSTEMS										
		OU	TDOOR UNIT							
	Nominal Tonnage	0.75	0.75	1	1	1.5	2			
	Outdoor Unit Model No.	MS7-CO-09L	MS7-CO-09P	MS7-CO-12L	MS7-CO-12P	MS7-CO-18P	MS7-CO-24P			
Cooling	High	10,600	10,600	14,000	14,000	22,350	25,000			
Capacity (Btuh)	Standard	9,000	9,000	12,000	12,000	18,000	21,500			
	Low	4,435	4,435	4,500	4,500	6,000	9,600			
Connections	Small line o.d flare	1/4	1/4	1/4	1/4	1/4	1/4			
(in.)	Large line o.d flare	3/8	3/8	3/8	3/8	1/2	5/8			
¹ Refrigerant (R-410	A) furnished	2 lbs. 6 oz.	2 lbs. 6 oz.	2 lbs. 9 oz.	2 lbs. 9 oz.	3 lbs. 2 oz.	3 lbs. 10 oz.			
Outdoor	Net face area - sq. ft.	3.95	3.95	4.08	4.08	5.94	7.77			
Coil	Tube diameter - mm	7	7	9	9	7	7			
	Number of rows	2	2	2	2	2	2			
	Fins per inch	18	18	18	18	18	18			
Outdoor	Diameter - in.	15-5/8	15-5/8	15-5/8	15-5/8	20	22			
Fan Motor	No. of blades	3	3	3	3	3	3			
	Cfm	1120	1120	1120	1120	1885	2470			
	Rpm	900/650	900/650	900/680	900/680	690/500	780/500			
	Watts	40	40	40	40	60	90			
Shipping Data - Ibs.	. Outdoor Unit	91	91	97	97	121	132			
ELECTRICAL DAT							·			
	voltage data - 60 hz - 1ph	115V	208/230V	115V	208/230V	208/230V	208/230V			
	current protection (amps)	25	15	25	15	25	25			
	Minimum circuit ampacity	15	6.1	15	6.1	14	14			
Compressor	Locked rotor amps	33	33	33	33	41	41			
	Rated load amps	4.6	4.6	4.6	4.6	8.4	8.4			
Compressor Inverte		70	70	80	80					
Frequency (hz)	Standard	41	41	57	57					
	Low	15	15	15	15					
Compressor	³ High	1050	1050	1450	1450					
Power Input (W)	³ Standard	640	640	980	980	1640	1640			
1 Ower input (W)	Low	180	180	120	120					
Outdoor	Rated load amps	0.17	0.17	0.17	0.17	0.62	0.90			
Fan Motor		40	-			1	<u> </u>			
	Output (W)		40	40	40	60	90			
Rated Amps	High	16.8	6.5 3.2	17.0	7.0					
	Standard	7.0		11.0	5.2	12	12			
	1. 1		ING INDOOR		MOT 01 40D	MOT 01 40D	MOT 01 04D			
Compositions	Indoor Unit Model No.	+				MS7-CI-18P				
Connections	Small line o.d flare	1/4	1/4	1/4	1/4	1/4	1/4			
(in.)	Large line o.d flare	3/8	3/8	3/8	3/8	1/2	5/8			
Indoor Blower	Turbo	330	330	300	300	500	560			
Air Volume	High	295	295	275	275	460	470			
(cfm)	Medium	255	255	255	255	380	410			
Indeer Die	Low	220	220	215	215	325	355			
Indoor Blower	Turbo	1260	1260	1260	1260	1350	1400			
RPM	High	1050	1050	1070	1070	1200	1150			
	Medium	920	920	900	900	1050	1100			
la de es	Low	730	730	730	730	900	850			
Indoor	Net face area - sq. ft.	1.85	1.85	1.85	1.85	2.34	2.82			
Coil	Tube diameter - mm	7	7	7	7	7	7			
	Number of rows	2	2	2	2	2	2			
	Fins per inch	18	18	18	18	18	18			
Indoor	Diameter x Length	3.6 x 25.4	3.6 x 25.4	3.6 x 25.4	3.6 x 25.4	3.9 x 28	3.9 x 30			
Blower	Туре	Cross flow								
Shipping Data - Ibs.		31	31	31	31	31	46			
ELECTRICAL DA										
Line	voltage data - 60 hz - 1ph		208/230V	115V	208/230V	208/230V	208/230V			
	Rated Load Amps		0.20	0.38	0.20	0.25	0.45			
	Output (W)	20	20	20	20	20	35			

NOTE - Extremes of operating range are plus 10% and minus 5% of line voltage.

1 HACR type circuit breaker or fuse.

2 Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

³ Rated Input

			OUTD	OOR UNIT				
No.	ominal Tonnage	0.75	0.75	1	1	1.5	2	2.5
	Unit Model No.		MS7-HO-09P					MS7-HO-30F
Cooling	High	10,600	10,600	14,000	14,000	22,350	25,000	30,000
Capacity (Btuh)	Standard	9,000	9,000	12,000	12,000	18,000	21,500	28,000
,	Low	4,435	4435	4,500	4,500	6,000	9,600	9,500
Heating	High	11,100	11,100	14,500	14,500	25,000	26,000	33,000
Capacity (Btuh)	Standard	9,500	9,500	13,000	13,000	25,000	26,000	28,500
, ,	Low	3,200	3,200	3,250	3,250	4,100	4,300	10,000
Connections Sma	all line o.d flare	1/4	1/4	1/4	1/4	1/4	1/4	1/4
(in.) Lar	ge line o.d flare	3/8	3/8	3/8	3/8	1/2	5/8	5/8
1 Refrigerant (R-41		2 lbs. 6 oz.	2 lbs. 6 oz.	2 lbs. 9 oz.	2 lbs. 9 oz.	3 lbs. 2 oz.	3 lbs. 10 oz.	5 lbs. 7 oz.
	face area - sq. ft.	3.95	3.95	4.08	4.08	5.94	7.77	7.66
	e diameter - mm	7	7	9	9	7	7	9
	Number of rows	2	2	2	2	2	2	2
	Fins per inch	18	18	18	18	18	18	18
Outdoor	Diameter - in.	15-5/8	15-5/8	15-5/8	15-5/8	20	22	21-3/4
Fan Motor	No. of blades	3	3	3	3	3	3	3
	Cfm	1120	1120	1120	1120	1885	2470	2355
Rpm - (Cooling (Heating)					690/500	780/500	830/830
•	Watts	40	40	40	40	60	90	90
Shipping Data - Ib			110	119	119	148	161	163
ELECTRICAL DA		1	·		'			1
	lata - 60 hz - 1ph	115V	208/230V	115V	208/230V	208/230V	208/230V	208/230V
¹ Max. overcurrent			15	25	15	25	25	25
	circuit ampacity	15	6.1	15	6.1	14	14	13
	ocked rotor amps	33	33	33	33	41	41	45
•	Rated load amps	4.6	4.6	4.6	4.6	8.4	8.4	9.7
Compressor Inver		70/63	70/63	80/75	80/75			
Frequency (hz)	Standard	41/44	41/44	57/65	57/65			
(Heating/Cooling)	Low	15/15	15/15	15/15	15/15			
Compressor	³ High	1050/1100	1050/1100	1450/1500	1450/1500			3450/3500
Power Input (W)	•							0-100/0000
	3 Standard		hhii//iii	1000/1200	980/1200	1640	1640	2780/2870
• • •	³ Standard	660/700 180/220	660/700 180/220	1000/1200	980/1200	1640	1640	2780/2870 550/700
(Cooling/Heating)	Low	180/220	180/220	120/220	120/220			550/700
(Cooling/Heating) Outdoor	Low Rated load amps	180/220 0.17	180/220 0.17	120/220 0.17	120/220 0.17	0.62	0.90	550/700 0.45
(Cooling/Heating) Outdoor Fan Motor	Low Rated load amps Output (W)	180/220 0.17 40	180/220 0.17 40	120/220 0.17 40	120/220 0.17 40	 0.62 60	 0.90 90	550/700 0.45 120
(Cooling/Heating) Outdoor Fan Motor Rated Amps	Low Rated load amps Output (W) High	180/220 0.17 40 16.8/17.0	180/220 0.17 40 6.5/6.8	120/220 0.17 40 17.0/18.2	120/220 0.17 40 7.0/7.5	0.62 60	0.90 90	550/700 0.45 120
(Cooling/Heating) Outdoor Fan Motor	Low Rated load amps Output (W)	180/220 0.17 40	180/220 0.17 40 6.5/6.8 3.2/3.5	120/220 0.17 40 17.0/18.2 11.0/12.5	120/220 0.17 40 7.0/7.5 5.2/6.0	 0.62 60	 0.90 90	550/700 0.45 120
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating)	Low Rated load amps Output (W) High Standard	180/220 0.17 40 16.8/17.0 7.0/7.5	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN	120/220 0.17 40 7.0/7.5 5.2/6.0	0.62 60 12/12.6	0.90 90 12/12.5	550/700 0.45 120 17/17
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating)	Low Rated load amps Output (W) High Standard	180/220 0.17 40 16.8/17.0 7.0/7.5	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P	0.62 60 12/12.6 MS7-HI-18P	0.90 90 12/12.5 MS7-HI-24P	550/700 0.45 120 17/17 MS7-HI-30P
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4	0.62 60 12/12.6 MS7-HI-18P 1/4	0.90 90 12/12.5 MS7-HI-24P 1/4	550/700 0.45 120 17/17 MS7-HI-30P
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.)	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lare	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare Turbo	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare Turbo High	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Larger	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare Turbo High Medium	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lar Indoor Blower Air Volume (cfm)	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare Turbo High Medium Low	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume (cfm) Indoor Blower	Low Rated load amps Output (W) High Standard * Unit Model No. all line o.d flare ge line o.d flare Turbo High Medium Low Turbo	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume (cfm) Indoor Blower RPM	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare Turbo High Medium Low Turbo High	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume (cfm) Indoor Blower	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare Turbo High Medium Low Turbo High Medium Medium	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980	 0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume (cfm) Indoor Blower RPM (Heating/Cooling)	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare High Medium Low Turbo High Medium Low Medium Low Medium Low	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150 900/1050	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100 850/900	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300 1200/1200
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume (cfm) Indoor Blower RPM (Heating/Cooling)	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare Turbo High Medium Low Turbo High Medium Low face area - sq. ft.	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150 900/1050 2.34	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100 850/900 2.82	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300 1200/1200 4.41
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume (cfm) Indoor Blower RPM (Heating/Cooling)	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare High Medium Low Turbo High Medium Low face area - sq. ft. be diameter - mm	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150 900/1050 2.34 7	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100 850/900 2.82 7	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300 1200/1200 4.41 7
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume (cfm) Indoor Blower RPM (Heating/Cooling)	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare Turbo High Medium Low Turbo High Medium Low face area - sq. ft. se diameter - mm Number of rows	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2	 0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150 900/1050 2.34 7 2	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100 850/900 2.82 7	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300 1200/1200 4.41 7
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Larg Indoor Blower Air Volume (cfm) Indoor Blower RPM (Heating/Cooling) Indoor Net Coil Tub	Low Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare Turbo High Medium Low Turbo High Medium Low face area - sq. ft. le diameter - mm Number of rows Fins per inch	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150 900/1050 2.34 7 2	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100 850/900 2.82 7 2 18	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300 1200/1200 4.41 7 2 18
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Larg Indoor Blower Air Volume (cfm) Indoor Blower RPM (Heating/Cooling) Indoor Net Coil Tub	Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare Turbo High Medium Low Turbo High Medium Low face area - sq. ft. te diameter - mm Number of rows Fins per inch tiameter x Length	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150 900/1050 2.34 7 2 18 3.9 x 28	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100 850/900 2.82 7 2 18 3.9 x 30	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300 1200/1200 4.41 7 2 18 4.25 x 20.5
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Larg Indoor Blower Air Volume (cfm) Indoor Blower RPM (Heating/Cooling) Indoor Net Coil Tub Indoor D Blower	Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare High Medium Low Turbo High Medium Low face area - sq. ft. te diameter - mm Number of rows Fins per inch iameter x Length Type	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4 Cross flow	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4 Cross flow	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4 Cross flow	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4 Cross flow	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150 900/1050 2.34 7 2 18 3.9 x 28 Cross flow	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100 850/900 2.82 7 2 18 3.9 x 30 Cross flow	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300 1200/1200 4.41 7 2 18 4.25 x 20.5 Cross flow
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume (cfm) Indoor Blower RPM (Heating/Cooling) Indoor Net Coil Tub Indoor D Blower Shipping Data - Ibs	Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare ge line o.d flare Turbo High Medium Low Turbo High Medium Low face area - sq. ft. re diameter - mm Number of rows Fins per inch iameter x Length Type s. Indoor Unit	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4 Cross flow	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150 900/1050 2.34 7 2 18 3.9 x 28	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100 850/900 2.82 7 2 18 3.9 x 30	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300 1200/1200 4.41 7 2 18 4.25 x 20.5
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume (cfm) Indoor Blower RPM (Heating/Cooling) Indoor Net Coil Tub Indoor D Blower Shipping Data - Ibs ELECTRICAL DA	Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare ge line o.d flare Turbo High Medium Low Turbo High Medium Low face area - sq. ft. re diameter - mm Number of rows Fins per inch iameter x Length Type s. Indoor Unit	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4 Cross flow	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4 Cross flow 37	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4 Cross flow 37	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4 Cross flow	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150 900/1050 2.34 7 2 18 3.9 x 28 Cross flow	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100 850/900 2.82 7 2 18 3.9 x 30 Cross flow 56	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300 1200/1200 4.41 7 2 18 4.25 x 20.5 Cross flow 60
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume (cfm) Indoor Blower RPM (Heating/Cooling) Indoor Net Coil Tub Indoor D Blower Shipping Data - Ibs Line voltage of	Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare ge line o.d flare Turbo High Medium Low Turbo High Medium Low face area - sq. ft. be diameter - mm Number of rows Fins per inch iameter x Length Type s. Indoor Unit	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4 Cross flow 37	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4 Cross flow 37	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4 Cross flow 37	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4 Cross flow 37	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150 900/1050 2.34 7 2 18 3.9 x 28 Cross flow 46	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100 850/900 2.82 7 2 18 3.9 x 30 Cross flow 56	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300 1200/1200 4.41 7 2 18 4.25 x 20.5 Cross flow 60
(Cooling/Heating) Outdoor Fan Motor Rated Amps (Cooling/Heating) Indoor Connections Sma (in.) Lan Indoor Blower Air Volume (cfm) Indoor Blower RPM (Heating/Cooling) Indoor Net Coil Tub Indoor D Blower Shipping Data - Ibs Line voltage of	Rated load amps Output (W) High Standard Unit Model No. all line o.d flare ge line o.d flare ge line o.d flare Turbo High Medium Low Turbo High Medium Low face area - sq. ft. re diameter - mm Number of rows Fins per inch iameter x Length Type s. Indoor Unit	180/220 0.17 40 16.8/17.0 7.0/7.5 MS7-HI-09L 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4 Cross flow	180/220 0.17 40 6.5/6.8 3.2/3.5 MATCHING MS7-HI-09P 1/4 3/8 330 295 255 220 1260/1320 1050/1200 920/1100 730/950 1.85 7 2 18 3.6 x 25.4 Cross flow 37	120/220 0.17 40 17.0/18.2 11.0/12.5 INDOOR UN MS7-HI-12L 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4 Cross flow 37	120/220 0.17 40 7.0/7.5 5.2/6.0 IT MS7-HI-12P 1/4 3/8 300 275 255 215 1260/1280 1070/1050 900/980 730/920 1.85 7 2 18 3.6 x 25.4 Cross flow	0.62 60 12/12.6 MS7-HI-18P 1/4 1/2 500 460 380 325 1350/1420 1200/1250 1050/1150 900/1050 2.34 7 2 18 3.9 x 28 Cross flow	0.90 90 12/12.5 MS7-HI-24P 1/4 5/8 560 470 410 355 1400/1400 1150/1150 1100/1100 850/900 2.82 7 2 18 3.9 x 30 Cross flow 56	550/700 0.45 120 17/17 MS7-HI-30P 1/4 5/8 735 675 645 1400/1400 1300/1300 1200/1200 4.41 7 2 18 4.25 x 20.5 Cross flow 60

NOTE - Extremes of operating range are plus 10% and minus 5% of line voltage.

¹ HACR type circuit breaker or fuse.

² Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

³ Rated Input

SYSTEM OPTIMAL OPERATING RANGES Indoor Temperature Outdoor Temperature System Optimal Operating Ranges Optimal Operating Ranges Unit Type Size Cooling Heating Cooling Heating **Air Conditioner** 09 to 24 41°F to 115°F 64°F to 90°F 41°F to 115°F 64°F to 90°F 09 to 24 5°F to 86°F 50°F to 86°F **Heat Pump** 30 64°F to 109°F 19°F to 75°F 64°F to 90°F 50°F to 86°F

NOTES:

See MS7 Unit Information Manual for system performance outside of the optimal operating ranges shown.

Decemention		Catalog			Size		
Description		No.	09	12	18	24	30
	OUTDOOR UNIT						
Condenser Pad (18 x 36 x 2)		48X92	•	•	•	•	•
Disconnects	30 amp, fused, 1 ph	27P37	•	•	•	•	•
	60 amp, non-fused, 1 ph	27P39	•	•	•	•	•
Fuses	30A	83P75	•	•	•	•	•
	60A	83P77	•	•	•	•	•
Line Sets	1/4 in. x 3/8 in. x 50 ft.	X0258	•	•			
	1/4 in. x 1/2 in. x 25 ft.	90X52			•		
	1/4 in. x 1/2 in. x 50 ft.	X0259			•		
	1/4 in. x 5/8 in. x 25 ft.	90X51				•	•
	1/4 in. x 5/8 in. x 50 ft.	X0260				•	•
Male Flare Adaptor	5/16 in. quick connect x 1/4 in. MF	Y0576	•	•	•	•	•
Wall Bracket	Type 2 - Up to 220 lbs.	Y3400	•	•	•	•	•
Whips	10 Gauge - 1/2 in. x 6 ft.	29P54	•	•	•	•	•
	8 Gauge - 3/4 in. x 6 ft.	27P44	•	•	•	•	•
	INDOOR UNIT						
Condensate Pump, 3.70 US gall	ons per hour, 33 ft. lift 115V	X8250	•	•	•	•	•
	230V	X8251	•	•	•	•	•
Condensate Mini-Split Drain Line	e - 5/8 in. I.D. 160 ft.	Y3401	•	•	•	•	•
Indoor/Outdoor Wiring Cable - 1	4 Gauge, 4 conductor wire, THHN, 250 ft.	Y2067	•	•	•	•	
	INSTALLATION KI	T					
Universal Mini-Split Installation h	Kit	Y3247	•	•	•	•	•
	SPEEDICHANNEL™ S\	STEM					
SpeediChannel™ Starter Kit - 4	in.	Y3387	•	•	•	•	•
SpeediChannel - 4 in. x 6-1/2 ft.		Y3388	•	•	•	•	•
Union Coupling - 4 in.		Y3389	•	•	•	•	•
90° Flat Bend Elbow - 4 in.		Y3390	•	•	•	•	•
90° Inside Elbow - 4 in.		Y3391	•	•	•	•	•
45° Flat Bend Elbow - 4 in.		Y3392	•	•	•	•	•
Flex Joint - 4 in.		Y3393	•	•	•	•	•
T-Joint - 4 in.		Y3394	•	•	•	•	•
Duct End - 4 in.		Y3395	•	•	•	•	•
Flat Wall Escutcheon - 4 in.		Y3396	•	•	•	•	•
Wall Penetration Cover - 4 in.		Y3399	•	•	•	•	•
Mount Block (White) Qty, 2 - 14	n.	Y3397	•	•	•	•	•
Mount Block (White) Qty, 2 - 36	·	Y3398	•	•	•	•	

¹⁸ and 24 Models Only - If the outdoor temperature is above 50°F, the system will operate in the cooling mode if the room temperature is 61°F or above. If the outdoor temperature is below 50°F, the system will not operate unless the room temperature is 77°F or above.

SYSTEM MATCHES - AIR CONDITIONERS

NOTE - For the latest up-to-date system matches please visit the AHRI web site at http://www.ahridirectory.org

Outdoor Model	Capacity	SEER	EER	Indoor Model	AHRI Reference
MS7-CO-09L	9,000	22.00	14.20	MS7-CI-09L	4733645
MS7-CO-09P	9,000	22.00	14.20	MS7-CI-09P	4733646
MS7-CO-12L	12,000	20.00	12.50	MS7-CI-12L	4733647
MS7-CO-12P	12,000	20.00	12.50	MS7-CI-12P	4733648
MS7-CO-18P	18,000	18.00	12.00	MS7-CI-18P	4733649
MS7-CO-24P	22,000	18.00	12.00	MS7-CI-24P	4733650

NOTES:

Ratings are AHRI certified to AHRI Standard 210/240; 95°F outdoor air temperature, 80°F db / 67°F wb entering evaporator air.

SYSTEM MATCHES - HEAT PUMPS

NOTE - For the latest up-to-date system matches please visit the AHRI web site at http://www.ahridirectory.org

Outdoor Model	Capacity	SEER	EER	Heat Capacity		HSPF	Indoor Model	AHRI	
Outdoor Model	Сараспу	SEEK	LEK	` High Low Regi		Region IV	ilidool wodel	Reference	
MS7-HO-09L	9,000	22.00	14.20	9,500	5,400	9.80	MS7-HI-09L	4733651	
MS7-HO-09P	9,000	22.00	14.20	9,500	5,400	9.80	MS7-HI-09P	4733653	
MS7-HO-12L	12,000	20.00	12.50	13,000	7,500	9.60	MS7-HI-12L	4733652	
MS7-HO-12P	12,000	20.00	12.50	13,000	7,500	9.60	MS7-HI-12P	4733654	
MS7-HO-18P	18,000	18.00	12.00	25,000	16,300	10.20	MS7-HI-18P	4733655	
MS7-HO-24P	21,000	18.00	12.00	26,000	16,000	10.20	MS7-HI-24P	4733656	
MS7-HO-30P	28,000	16.00	10.05	28,400	17,000	8.20	MS7-HI-30P	4733657	

NOTES:

Ratings are AHRI certified to AHRI Standard 210/240;

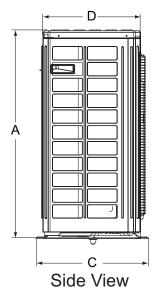
- Cooling Ratings 95°F outdoor air temperature and 80 °F db/67° F wb entering indoor coil air.
 High Temperature Heating Ratings 47° F db/43° F wb outdoor air temperature and 70 °F db entering indoor coil air.
 Low Temperature Heating Ratings 17 °F db/15° F wb outdoor air temperature and 70 °F db entering indoor coil air.

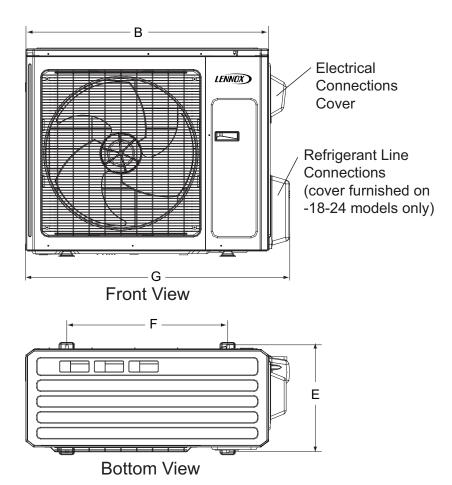
To convert HSPF from Region IV to Region V - Divide by 1.15.

INDOOR UNIT AIR THROW DATA										
Indoor Unit			Effective Throw - ft.							
indoor Unit	09 12 18 24 30									
Low Speed	18	19	25	23	N/A					
Medium Speed	20	21	30	27	N/A					
High Speed	23	25	32	30	N/A					
Turbo Speed	N/A	N/A	35	37	N/A					

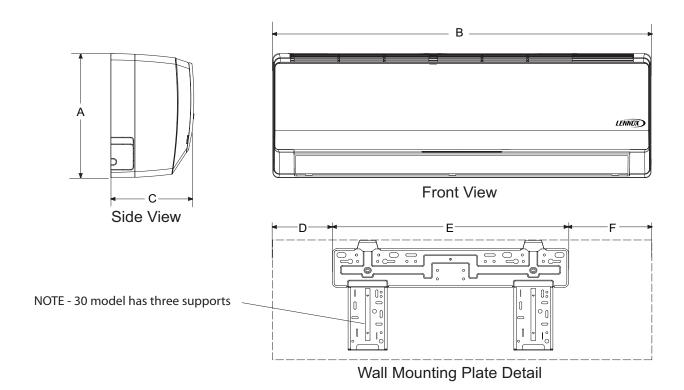
SOUND DATA - OUTDOOR			SOUND DATA - INDOOR									
	Outdoor Unit	Sound Rating			Indoor Unit	Sound Rating Number (dBA)						
Unit Type	Model No.	Numbe	r (dBA)	Unit Type	Model No.	Lov	V	Medi	um	Higl	h	
	model No.	Pressure	Power			Pressure	Power	Pressure	Power	Pressure	Power	
	MS7-CI-09L	53	63		MS7-CI-09L	26	36	30	40	34	44	
	MS7-CO-09P	53	63		MS7-CI-09P	26	36	30	40	34	44	
Air	MS7-CO-12L	55	65	Air	MS7-CI-12L	26	36	32	42	36	46	
Conditioner	MS7-CO-12P	55	65	Conditioner	MS7-CI-12P	26	36	32	42	36	46	
	MS7-CO-18P	54	64		MS7-CI-18P	35	45	40	50	44	54	
	MS7-CO-24P	56	66		MS7-CI-24P	35	45	40	50	44	54	
	MS7-HO-09L	53	63		MS7-HI-09L	26	36	30	40	34	44	
	MS7-HO-09P	53	63		MS7-HI-09P	26	36	30	40	34	44	
	MS7-HO-12L	55	65		MS7-HI-12L	26	36	32	42	36	46	
Heat Pump	MS7-HO-12P	55	65	Heat Pump	MS7-HI-12P	26	36	32	42	36	46	
	MS7-HO-18P	54	64		MS7-HI-18P	35	45	40	50	44	54	
	MS7-HO-24P	56	66		MS7-HI-24P	35	45	40	50	44	54	
	MS7-HO-30P	58	68		MS7-HI-30P	48	58	50	60	52	62	

DIMENSIONS - INCHES (MM) OUTDOOR UNITS





Model No.	_ A	A	E	3		;	[)	E	Ē	F	•	0	;
woder No.	in.	mm												
-09	21	533	30	762	12-5/8	320	10-1/8	257	11-1/4	286	21-1/4	540	33-3/8	848
-12	21	533	30	762	12-5/8	320	10-1/8	257	11-1/4	286	21-1/4	540	33-3/8	848
-18	27-1/2	701	35	890	13-3/8	340	13-3/8	340	14-1/2	368	22	560	37-1/2	955
-24	31-1/8	790	36-1/4	920	16-7/8	427	14-1/2	370	15-3/4	399	24	610	39-3/8	1000
-30	31-1/8	790	36-1/4	920	16-7/8	427	14-1/2	370	15-1/2	395	24	610	38-1/2	980



Model No.	Α		В		С		D		E		F	
woder No.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
-09	10-7/8	275	33	838	7	180	5-3/8	135	21-3/8	542	6-5/8	169
-12	10-7/8	275	33	838	7	180	5-3/8	135	21-3/8	542	6-5/8	169
-18	12	305	37	940	8	203	4-5/8	118	27-3/8	694	5-7/8	148
-24	12-3/8	315	39-3/4	1008	8-1/2	218	8-1/2	215	27	685	7-1/2	190
-30	12-7/8	326	53	1350	10	253	10	253	29-3/8	746	13-7/8	351

INSTALLATION CLEARANCES	INCHES (MM	1)
OUTDOOR UNITS	ln.	mm
Left Side	12	305
Right Side	12	305
Front	84	2133
Rear	12	305
Тор	24	510
INDOOR UNITS	In.	mm
Left Side	6	152
Right Side	6	152
Тор	6	152
Bottom	96	2438

NOTES:

If outdoor unit is mounted on a flat rooftop allow a minimum of 4 in. (102 mm) above the roof surface. Locate the unit above a load bearing wall or area of the roof that can adequately support the unit. Consult local codes for rooftop applications.

REVISIONS		
Sections	Description of Change	
Optional Accessories	Catalog numbers revised for Wall bracket and Male Flare Adaptor.	
Sound Data	Revised.	











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