



MHW-SYS

High Wall Mini Split Heat Pump System



High Efficiency Mini Split System, with Inverter Technology

3/4 Ton - 3 Ton, with Efficiencies up to 21.70 SEER2 and 12.6 EER2



The MHW-SYS is a highly efficient split system, with a high wall mini split fan coil and an outdoor side discharge heat pump unit. The indoor fan coil can be installed in various locations. This high efficient system supplies comfortable cooling and heating performance at low sound levels.

Typical installations for the MHW-SYS include:

- Apartments
- Condominiums
- Independent Care Facilities
- Pre Manufactured Homes
- Single Family Home Additions
- Modular Buildings
- Student Housing
- Offices
- Stores



Features

Highly Efficient / High Performance

- Highly Efficient Inverter Compressor, with Efficiencies up to 21.70 SEER2
- Low Amp Draw DC motor in Outdoor HP

Quiet Operation, Inside and Outside

- Low Sone DC motor in MHW Fan Coil
- Quiet Inverter Compressor in Outdoor Heat Pump, with low Sound Levels

Heating at Low Ambient Conditions

- Standard Base Pan Heaters

Controls

- Standard Wireless Remote or Optional Wired Wall Controller
- Optional WiFi Module available

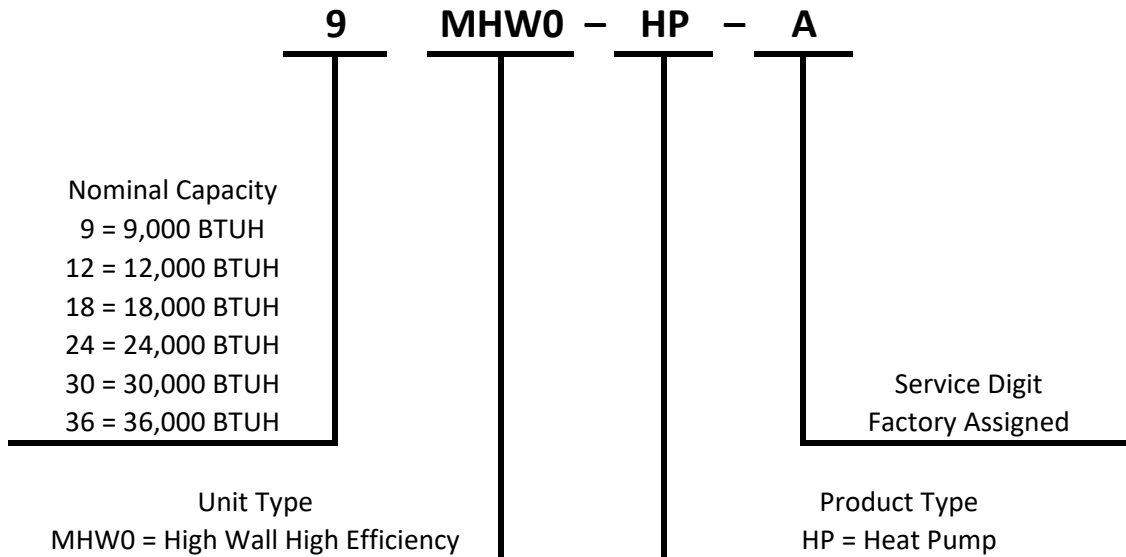
Design

- Gold Fin Coil Protection on Indoor Fan Coil and Outdoor Heat Pump
- Automatic Restart Function
- Follow Me Function with Wireless Remote Control
- Turbo Mode
- Low Refrigerant Pressure Notification

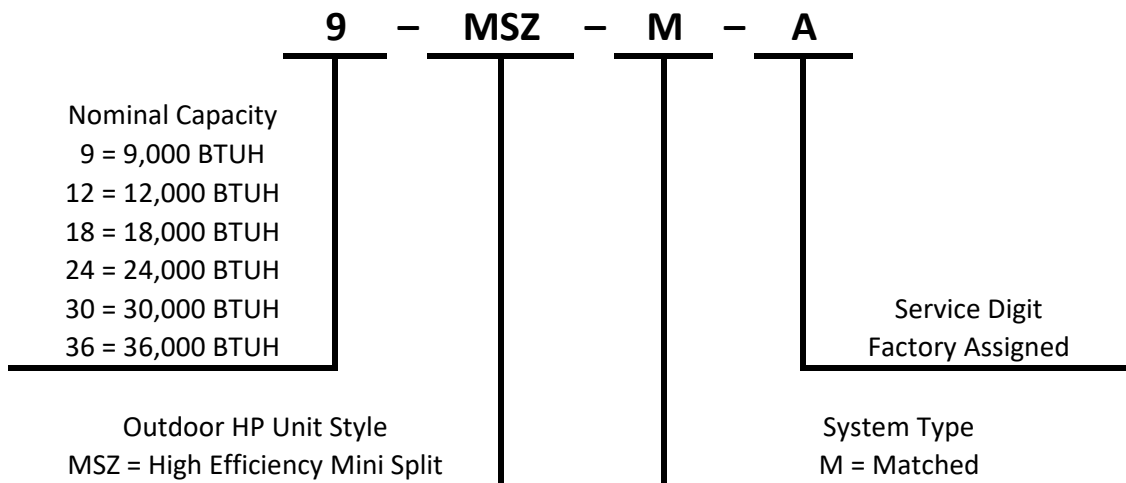


Nomenclature

Indoor Unit



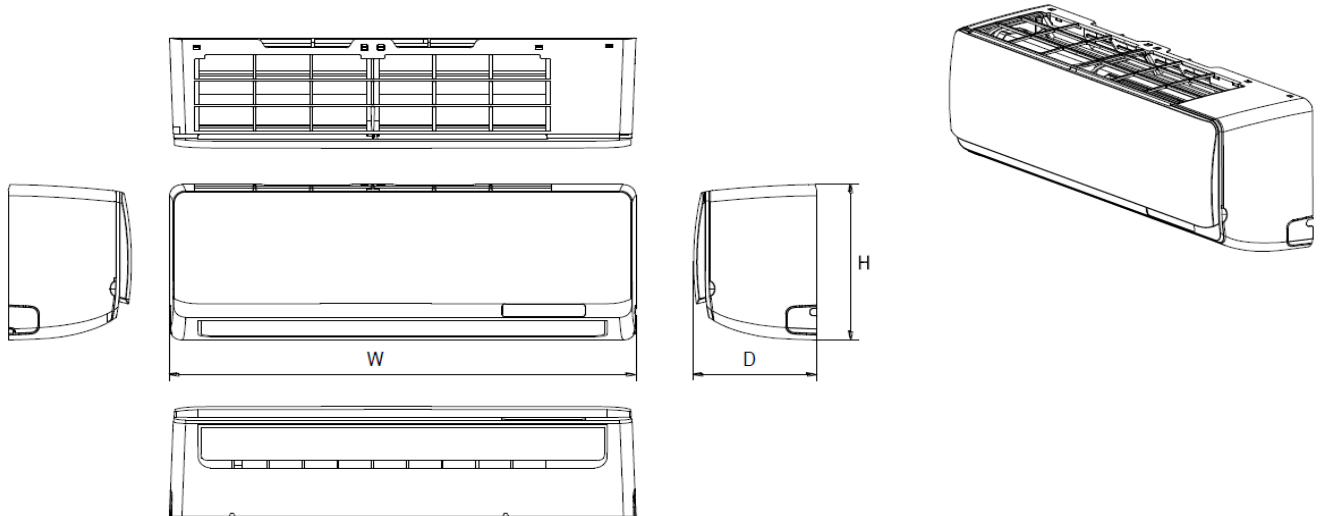
Outdoor Unit



System

System Model Number	Indoor Unit	Outdoor Unit
9MHW0-115-SYS	9MHW0-115-HP-A	9MSZ-115-M-A
9MHW0-SYS	9MHW0-HP-A	9MSZ-M-A
12MHW0-115-SYS	12MHW0-115-HP-A	12MSZ-115-M-A
12MHW0-SYS	12MHW0-HP-A	12MSZ-M-A
18MHW0-SYS	18MHW0-HP-A	18MSZ-M-A
24MHW0-SYS	24MHW0-HP-A	24MSZ-M-A
30MHW0-SYS	30MHW0-HP-A	30MSZ-M-A
36MHW0-SYS	36MHW0-HP-A	36MSZ-M-A

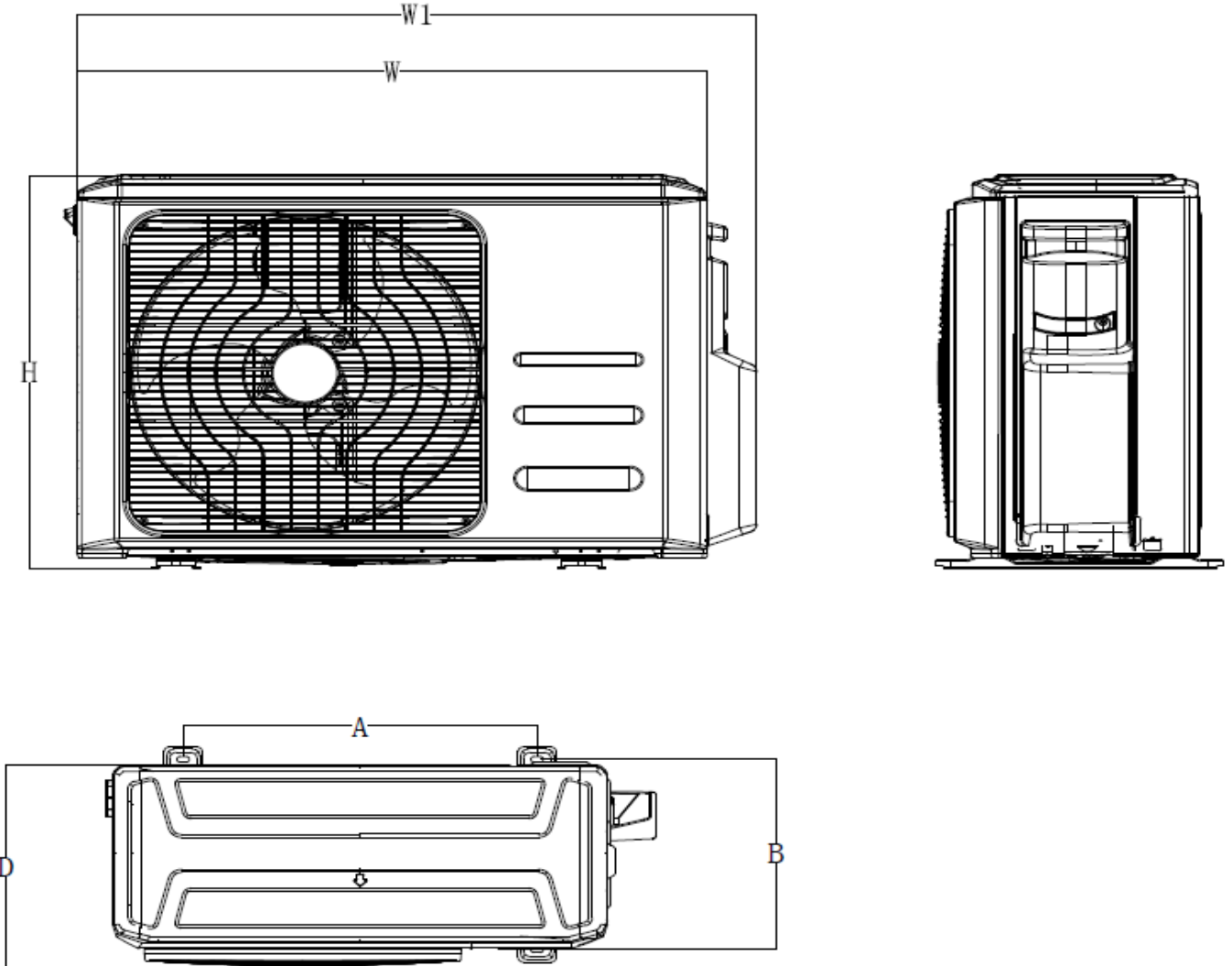
Dimensional Data



Unit	H	W	D	Weight
9MHW0-115-HP-A	11.5	28.7	7.87	17.6
9MHW0-HP-A	11.61	28.7	7.87	17.6
12MHW0-115-HP-A	11.61	31.57	7.87	18.5
12MHW0-HP-A	13.27	31.57	7.87	18.5
18MHW0-HP-A	12.64	38.23	8.98	24.5
24MHW0-HP-A	13.27	42.6	9.21	30.0
30MHW0-HP-A	14.25	49.57	11.14	43.2
36MHW0-HP-A	14.25	49.57	11.14	43.2
Dimensions shown are in Inches				
Weights shown are in lbs				



Dimensional Data



Unit	Unit Width (W)	Unit Depth (D)	Unit Height (H)	W1	Bracket Width (A)	Bracket Depth (B)	Weight
9MSZ-115-M-A	30.87	11.93	21.85	32.87	17.8	12.36	64
9MSZ-M-A	30.87	13.0	21.8	34.4	20.1	13.6	74
12MSZ-115-M-A	31.69	13.0	21.8	34.4	20.1	13.6	74
12MSZ-M-A	35.04	13.46	26.5	37.6	26.1	14.96	101
18MSZ-M-A	37.24	16.14	31.89	40.55	26.5	17.9	135
24MSZ-M-A	38.24	17.14	32.89	41.55	27.5	18.9	136
30MSZ-M-A	39.24	18.14	33.89	42.55	28.5	19.9	137
36MSZ-M-A	40.24	19.14	34.89	43.55	29.5	20.9	138

Dimensions shown are in Inches | Weights shown are in lbs

MHW0-SYS

3/4 ton - 2 ton Systems

System Specifications

System Model			9MHW0-SYS	12MHW0-SYS	18MHW0-SYS	24MHW0-SYS
Indoor Model			9MHW0-HP-A	12MHW0-HP-A	18MHW0-HP-A	24MHW0-HP-A
Outdoor Model			9MSZ-M-A	12MSZ-M-A	18MSZ-M-A	24MSZ-M-A
Power supply		V/Hz/Ph	208/230/60/1	208/230/60/1	208/230/60/1	208/230/60/1
Cooling	Capacity	Btu/h	9000	12000	18000	24000
	Input	W	715	1111	1638	2520
	Rated current	A	3.1	4.9	7.5	11.2
	EER2	Btu/W	12.6	10.8	11.0	9.5
	SEER2		21.70	21.40	19.50	18.50
Heating	Capacity	Btu/h	10000	12000	18800	24000
	Input	W	905	1039	1806	2320
	Rated current	A	3.94	4.6	8.01	10.3
	COP	W/W	3.2	3.4	3.1	3.0
	HSPF2		9.4	9.2	8.7	8.6
Fan Coil Power Supply		Fan Coil Powered from Outdoor Heat Pump				
Minimum Circuit Ampacity		A	15	15	15	19
MAX.FUSE		A	15	15	20	30
Indoor air flow (Hi/Med/Lo)		CFM	247 / 177 / 141	291 / 197 / 156	459 / 329 / 271	547 / 402 / 331
Indoor noise level (Hi/Med/Lo)		dB(A)	37 / 28 / 20	41 / 35 / 24	45 / 38 / 30	45 / 39.5 / 36
Outdoor air flow		CFM	1294	1235	1235	60
Outdoor noise level		dB(A)	54.5	53.5	57.0	59
Refrigerant / Precharge Amt		oz	R410A / 25.4	R410A / 28.6	R410A / 47.6	R410A / 62.8
Refrigerant precharge		ft	25	25	25	25
Additional charge for each ft		oz	0.16	0.16	0.16	0.16
Design pressure		PSIG	550 / 340	550 / 340	550 / 340	550 / 340
Drain Line Diameter		inch	ODΦ1	ODΦ1	ODΦ1	ODΦ1
Refrigerant Piping	Liquid / Suction	inch	1/4 / 3/8	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8
	Max. Pipe Length	ft	82	82	98	164
	Max. Pipe Lift	ft	33	33	66	82
Connection wiring		16AWG*4 Stranded, unshielded				
Thermostat Type		Wireless Remote Control or Wired Wall Controller				
Room Temperature	Indoor Cooling	°F	60 ~ 90	60 ~ 90	60 ~ 90	60 ~ 90
	Indoor Heating	°F	32 ~ 86	32 ~ 86	32 ~ 86	32 ~ 86
	Outdoor Cooling	°F	5 ~ 122	5 ~ 122	5 ~ 122	5 ~ 122
	Outdoor Heating	°F	5 ~ 75	5 ~ 75	5 ~ 75	5 ~ 75

MHW0-115-SYS

0.75 ton - 1 ton Systems
(115/1)

System Specifications

System Model			9MHW0-115-SYS	12MHW0-115-SYS
Indoor Model			9MHW0-115-HP-A	12MHW0-115-HP-A
Outdoor Model			9MSZ-115-M-A	12MSZ-115-M-A
Power supply		V/Hz/Ph	115/60/1	115/60/1
Cooling	Capacity	Btu/h	9000	12000
	Input	W	725	1165
	Rated current	A	6.3	10.1
	EER2	Btu/W	12.5	10.3
	SEER2		21.50	20.80
Heating	Capacity	Btu/h	10000	12000
	Input	W	900	1154
	Rated current	A	7.82	10.1
	COP	W/W	3.3	3.1
	HSPF2		9.1	8.7
Fan Coil Power Supply		Fan Coil Powered from Outdoor Heat Pump		
Minimum Circuit Ampacity		A	20	19
MAX.FUSE		A	30	25
Indoor air flow (Hi/Med/Lo)		CFM	239 / 170 / 137	300 / 241 / 176
Indoor noise level (Hi/Med/Lo)		dB(A)	37.5 / 28 / 20	41 / 35 / 26.5
Outdoor air flow		CFM	1294	1235
Outdoor noise level		dB(A)	55	53.5
Refrigerant / Precharge Amt		oz	R410A / 25.4	R410A / 28.6
Refrigerant precharge		ft	25	25
Additional charge for each ft		oz	0.16	0.16
Design pressure		PSIG	550 / 340	550 / 340
Drain Line Diameter		inch	ODΦ1	ODΦ1
Refrigerant Piping	Liquid / Suction	inch	1/4 / 3/8	1/4 / 1/2
	Max. Pipe Length	ft	82	82
	Max. Pipe Lift	ft	33	33
Connection wiring		16AWG*4 Stranded, unshielded		
Thermostat Type		Wireless Remote Control or Wired Wall Controller		
Room Temperature	Indoor Cooling	°F	60 ~ 90	60 ~ 90
	Indoor Heating	°F	32 ~ 86	32 ~ 86
	Outdoor Cooling	°F	5 ~ 122	5 ~ 122
	Outdoor Heating	°F	5 ~ 75	5 ~ 75

MHW0-SYS

2.5 ton - 3 ton Systems

System Specifications

System Model			30MHW0-SYS	36MHW0-SYS
Indoor Model			30MHW0-HP-A	36MHW0-HP-A
Outdoor Model			30MSZ-M-A	36MSZ-M-A
Power supply		V/Hz/Ph	208/230/60/1	208/230/60/1
Cooling	Capacity	Btu/h	30000	36000
	Input	W	2855	3790
	Rated current	A	12.4	16.8
	EER2	Btu/W	12.2	9.5
	SEER2		20.00	18.00
Heating	Capacity	Btu/h	30000	36000
	Input	W	2750	3790
	Rated current	A	12.46	16.8
	COP	W/W	3.2	2.8
	HSPF2		8.2	7.8
Fan Coil Power Supply		Fan Coil Powered from Outdoor Heat Pump		
Minimum Circuit Ampacity		A	23	28
MAX.FUSE		A	30	35
Indoor air flow (Hi/Med/Lo)		CFM	702 / 536 / 380	653 / 447 / 329
Indoor noise level (Hi/Med/Lo)		dB(A)	49.5 / 43.5 / 39.5	54 / 45 / 40
Outdoor air flow		CFM	2235	2235
Outdoor noise level		dB(A)	61.5	61.5
Refrigerant / Precharge Amt		oz	R410A / 97	R410A / 119.9
Refrigerant precharge		ft	25	25
Additional charge for each ft		oz	0.32	0.3
Design pressure		PSIG	550 / 340	550 / 340
Drain Line Diameter		inch	ODΦ1	ODΦ1
Refrigerant Piping	Liquid / Suction	inch	3/8 / 5/8	3/8 / 5/8
	Max. Pipe Length	ft	164	213
	Max. Pipe Lift	ft	82	98
Connection wiring		16AWG*4 Stranded, unshielded		
Thermostat Type		Wireless Remote Control or Wired Wall Controller		
Room Temperature	Indoor Cooling	°F	60 ~ 90	60 ~ 90
	Indoor Heating	°F	32 ~ 86	32 ~ 86
	Outdoor Cooling	°F	5 ~ 122	5 ~ 122
	Outdoor Heating	°F	5 ~ 75	5 ~ 75

Control Options

Part Number	Description
MWRC	Wireless infrared remote controller with timer, sleep function, follow me and turbo function. (Included with each HWMS-HH system.)
SWC12BST	Standard wired wall controller with operation mode control, timer and follow me functions.
DWC120X2	Deluxe wired wall controller with programmable weekly timer, auto-restart, child lock, and follow me functions. The DWC120X2 also functions as a receiver for the MWRC remote controller.
WFI-MS1	Wifi Smart Kit that will allow the system to connect to WiFi.



MWRC
Wireless Remote



SWC12BST
Standard Wired



DWC120X2
Deluxe Wired Wall



WFI-MS1
WiFi Interface
Module



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