

SafeAIR Technology

MS Series

Mini-Split: Indoor and Outdoor Units

50 and 60 Hertz Models Available



UL484:2014Ed.9+R
CSA.222#117* UL121201:2017Ed.3
CSA CC22.2#213:2017Ed.3
CLASS 1, DIVISION 2, GROUPS BCD T3



The MS-CU/AH® Series Mini Split Condensing Units and Air Handlers are engineered and manufactured to provide superior performance in extreme and hazardous conditions. The MS-CU/AH® units are available in capacities ranging from 9,000 - 36,000 Btu/hr, and cool only or heat pump models. These units are ideal for applications where space is limited but space conditioning is required in hazardous environments. The MS-CU/AH® series units comply with the NEC / NFPA 70 Articles 500-515 and are Third Party Certified by Intertek. Our units undergo rigorous testing and extensive quality control certifications to ensure 100% reliability for our clients.

**THE MOST COST EFFECTIVE & PROVEN EQUIPMENT WITH MORE STANDARD FEATURES
IN THE INDUSTRY, SERVING IN MORE THAN 40 COUNTRIES AROUND THE WORLD.**

Offering the Keys to Success: Quality, Pricing and On Time Delivery



4112 EVAN BROOKS DRIVE
BATON ROUGE, LA 70814



+1-225-303-0007



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SafeAIR Technology

Division 2 Approved Remote Thermostat



LCD Display indication
unit mode & status.
Basic controls normally
exposed & advanced
controls easily accessible
under sliding cover.

ENGINEERED & MANUFACTURED FOR THE MOST EXTREME & HARSH ENVIROPMENTS



- **PETRO-CHEMICAL FACILITIES**
- **OFFSHORE PLATFORMS**
- **FUEL TRANSFER FACILITES**
- **HAZARDOUS MATERIAL STORAGE FACILITIES**
- **MILIATY FACILITES AND EQUIPMENT**
- **FERTILIZER STORAGE & MANUFACTURING**
- **WASTEWATER TREATMENT FACILITIES**

Standard Condenser / Outdoor Unit Details

- Available in both Explosion Proof and General-Purpose Models
- Constructed to meet NEC Standards and IEC Equivalent
- Slim housing with Horizontal Intake and Discharge
- Outdoor unit powers the indoor unit.
- INVERTER-driven compressor and LEV
- Anti-Short Cycle Timer Built in to Protect Unit Compressor
- Compressor and Overload protection Installed
- Auto reset following a power outage
- Advanced microprocessor control
- Division 2 protection installed for Voltage Fluctuations.
- Dense Insulation Installed to Block Outdoor Noise
- Reduced Operating Noise by Component Vibration Isolation
- Environmentally friendly R410-A Refrigerant

Standard Air Handler / Indoor Unit Details

- Available in both Explosion Proof and General-Purpose Models
- Constructed to meet NEC Standards and IEC Equivalent
- Slim, wall-mounted design with multiple fan speeds
- Power fed from the outdoor unit
- Division 2 approved motor with multiple fan speeds
- Auto reset following a power outage
- Washable long-life filters installed
- Division 2 protection installed for Voltage Fluctuations.
- Advanced microprocessor control
- Wireless Hand-held Controller



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60 / 50 HZ Model Unit Details

COOL ONLY CONDENSING UNITS						
MODEL NUMBER	COOLING CAPACITY (MBH)	POWER SUPPLY* (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	DIMS	WEIGHT (LBS)
CUSH1-*IRU-R9ID-*T	9.0	208-230 / 1 / 60 220-240 / 1 / 50	7	15	Y	81
CUSH1-*IRU-R12ID-*T	12.0	208-230 / 1 / 60 220-240 / 1 / 50	7	15	Y	81
CUSH1-*IRU-R15ID-*T	14.0	208-230 / 1 / 60 220-240 / 1 / 50	9	15	Y	81
CUSH1-*IRU-R18ID-*T	18.0	208-230 / 1 / 60 220-240 / 1 / 50	14	15	Z	121
CUSH1-*IRU-R24ID-*T	22.5	208-230 / 1 / 60 220-240 / 1 / 50	17.1	20	Z	119
CUSH1-*IRU-R30ID-*T	30.7	208-230 / 1 / 60 220-240 / 1 / 50	21	25	Z	126
CUSH1-*IRU-R36ID-*T	34.6	208-230 / 1 / 60 220-240 / 1 / 50	21	25	Z	126

COOL ONLY EVAPORATOR UNITS					
MODEL NUMBER	COOLING CAPACITY (MBH)	MAX AIR FLOW (CFM)	POWER SUPPLY* (VOLT / PH / HZ) SUPPLIED FROM CONDENSER	DIMS	WEIGHT (LBS)
AHSW1-*IRU-R9ID----*T	9.0	399	208-230 / 1 / 60 220-240 / 1 / 50	U	22
AHSW1-*IRU-R12ID----*T	12.0	399	208-230 / 1 / 60 220-240 / 1 / 50	U	22
AHSW1-*IRU-R15ID----*T	14.0	533	208-230 / 1 / 60 220-240 / 1 / 50	U	22
AHSW1-*IRU-R18ID----*T	18.0	646	208-230 / 1 / 60 220-240 / 1 / 50	V	28
AHSW1-*IRU-R24ID----*T	22.5	738	208-230 / 1 / 60 220-240 / 1 / 50	W	37
AHSW1-*IRU-R30ID----*T	30.7	887	208-230 / 1 / 60 220-240 / 1 / 50	X	40
AHSW1-*IRU-R36ID----*T	34.6	887	208-230 / 1 / 60 220-240 / 1 / 50	X	40

HEAT PUMP OUTDOOR UNITS							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	POWER SUPPLY* (VOLT / PH / HZ)	MCA (AMPS)	FUSE SIZE (AMPS)	DIMS	WEIGHT (LBS)
CUSH1-*IRU-H9ID-*T	9.0	10.9	208-230 / 1 / 60 220-240 / 1 / 50	9	15	Y	73
CUSH1-*IRU-H12ID-*T	12.0	12.2	208-230 / 1 / 60 220-240 / 1 / 50	9	15	Y	73
CUSH1-*IRU-H15ID-*T	14.0	18.0	208-230 / 1 / 60 220-240 / 1 / 50	10	15	Y	81
CUSH1-*IRU-H18ID-*T	17.2	18.0	208-230 / 1 / 60 220-240 / 1 / 50	10	15	Y	121
CUSH1-*IRU-H24ID-*T	22.5	26.0	208-230 / 1 / 60 220-240 / 1 / 50	14	15	Z	121
CUSH1-*IRU-H30ID-*T	30.7	32.6	208-230 / 1 / 60 220-240 / 1 / 50	21	25	Z	141
CUSH1-*IRU-H36ID-*T	33.2	35.2	208-230 / 1 / 60 220-240 / 1 / 50	21	25	Z	141

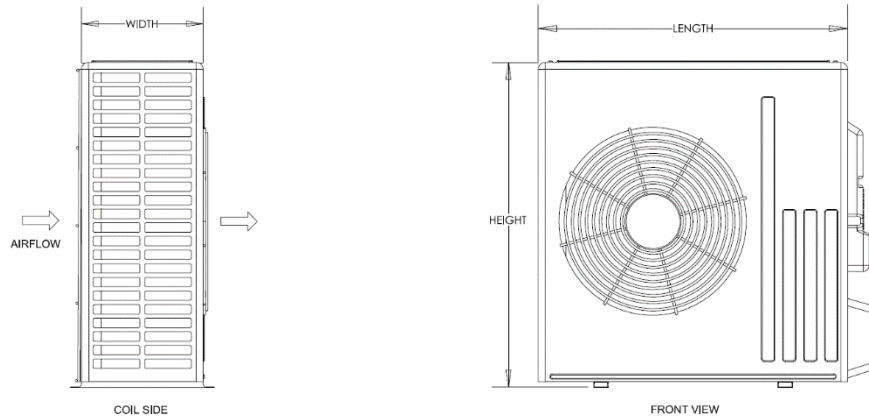
HEAT PUMP INDOOR UNITS							
MODEL NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	MAX AIR FLOW (CFM)	POWER SUPPLY* (VOLT / PH / HZ) SUPPLIED FROM OUTDOOR UNIT	DIMS	WEIGHT (LBS)	
AHSW1-*IRU-R9ID-P9-*T	9.0	10.9	399	208-230 / 1 / 60 220-240 / 1 / 50	U	22	
AHSW1-*IRU-R12ID-P12-*T	12.0	12.2	399	208-230 / 1 / 60 220-240 / 1 / 50	U	22	
AHSW1-*IRU-R15ID-P15-*T	14.0	18.0	533	208-230 / 1 / 60 220-240 / 1 / 50	U	22	
AHSW1-*IRU-R18ID-P18-*T	17.2	18.0	625	208-230 / 1 / 60 220-240 / 1 / 50	V	28	
AHSW1-*IRU-R24ID-P24-*T	22.5	26.0	702	208-230 / 1 / 60 220-240 / 1 / 50	V	28	
AHSW1-*IRU-R30ID-P30-*T	30.7	32.6	887	208-230 / 1 / 60 220-240 / 1 / 50	X	40	
AHSW1-*IRU-R36ID-P36-*T	33.2	35.2	887	208-230 / 1 / 60 220-240 / 1 / 50	X	40	

NOTES: * In model number indicated unit classification, model number nomenclature located in the back of catalog. Only classifications 3 & 5 are NRTL certified
 * For voltage code in model number – select 2 for 208-230 VAC / 1 PH / 60 Hz or select 25 for 220-240 VAC / 1 PH / 50 Hz

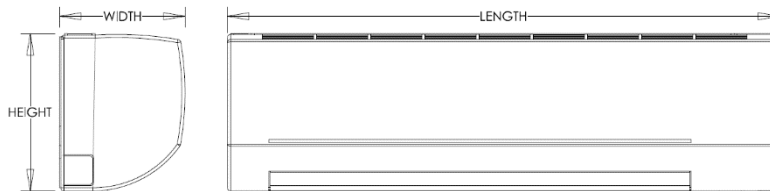


Dimensions

OUTDOOR UNIT DIMENSIONS					
DIMS	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	LENGTH BETWEEN MOUNT HOLES (INCHES)	WIDTH BETWEEN MOUNT HOLES (INCHES)
Y	31 1/4	11 1/4	21 5/8	19 11/16	12 1/2
Z	33 1/16	13	33 5/8	19 5/8	14 3/4



INDOOR UNIT DIMENSIONS			
DIMS	LENGTH (INCHES)	DEPTH (INCHES)	HEIGHT (INCHES)
U	31 7/16	9 1/8	11 5/8
V	36 5/16	9 13/16	12
W	43 5/16	9 3/8	12 13/16
X	46 1/16	11 5/8	14 3/8



NOTE: PLEASE SEE GENERAL ARRANGEMENT DRAWINGS PROVIDED WITH PROPOSAL FOR ADDITIONAL DETAILS. INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE, PLEASE CONTACT OUR SALES/ENGINEERING TEAM IF YOU HAVE ANY QUESTION, WE WILL BE GLAD TO ASSIST YOU.

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MODEL NUMBER NOMENCLATURE

CU	S	H	1		2	I	M	U		R	24	I	D		3	T
A	B	C	D		E	F	G	H		I	J	K	L		M	N

DIGIT A: PRODUCT TYPE	
CU	CONDENSING UNIT

DIGIT B: PRODUCT DESIGN	
S	STANDARD DUTY
E	EXTREME DUTY

DIGIT C: CONFIGURATION	
H	HORIZONTAL
V	VERTICAL
C	CUSTOM CONFIG.

DIGIT D: PRODUCT SERIES	
SAT ASSIGNED	

DIGIT E: POWER SUPPLY	
1	110VAC/1PH/60HZ
2	208-230VAC/1PH/60HZ
3	208-230VAC/3PH/60HZ
4	460-480VAC/3PH/60HZ
5	575-600VAC/3PH/60HZ
25	220-240VAC/1PH/50HZ
45	380-400VAC/3PH/50HZ

DIGIT F: CONTROLS TYPE	
M	MECHANICAL
P	PLC / HMI
S	SOLID STATE
I	INVERTER

DIGIT G: CONTROLS LOCATION	
M	MOUNTED ON UNIT
R	REMOTE MOUNTED

DIGIT H: CONTROLS RATING	
G	GENERAL PURPOSE
U	RATED WITH UNIT

DIGIT I: COOLING TYPE	
R	DIRECT EXPANSION
W	WATER COOLED
H	HEAT PUMP

DIGIT J: COOLING CAPACITY	
24	24 MBH
CAPACITY LISTED IN MBH (1 TON = 12 MBH)	

DIGIT K: COOLING CIRCUITS	
S	SINGLE CIRCUIT
M	MULTIPLE CIRCUITS
I	INVERTER DUTY

DIGIT L: REFRIGERANT	
C	R-407C
D	R-410A

DIGIT M: CLASSIFICATION	
1	CLASS 1, GROUPS CD, DIVISION 1, T3
2	CLASS 1, GROUPS BCD, DIVISION 1, T3
3	CLASS 1, GROUPS BCD, DIVISION 2, T3
4	ZONE 2, GROUPS IIA IIB+H2, T3
5	GENERAL PURPOSE
6	CUSTOM HAZARDOUS CLASSIFICATION *SEE UNIT DETAILS

DIGIT N: CERTIFICATION	
T	THIRD PARTY CERTIFICATE BY NRTL
C	CERTIFICATE OF CONFORMANCE

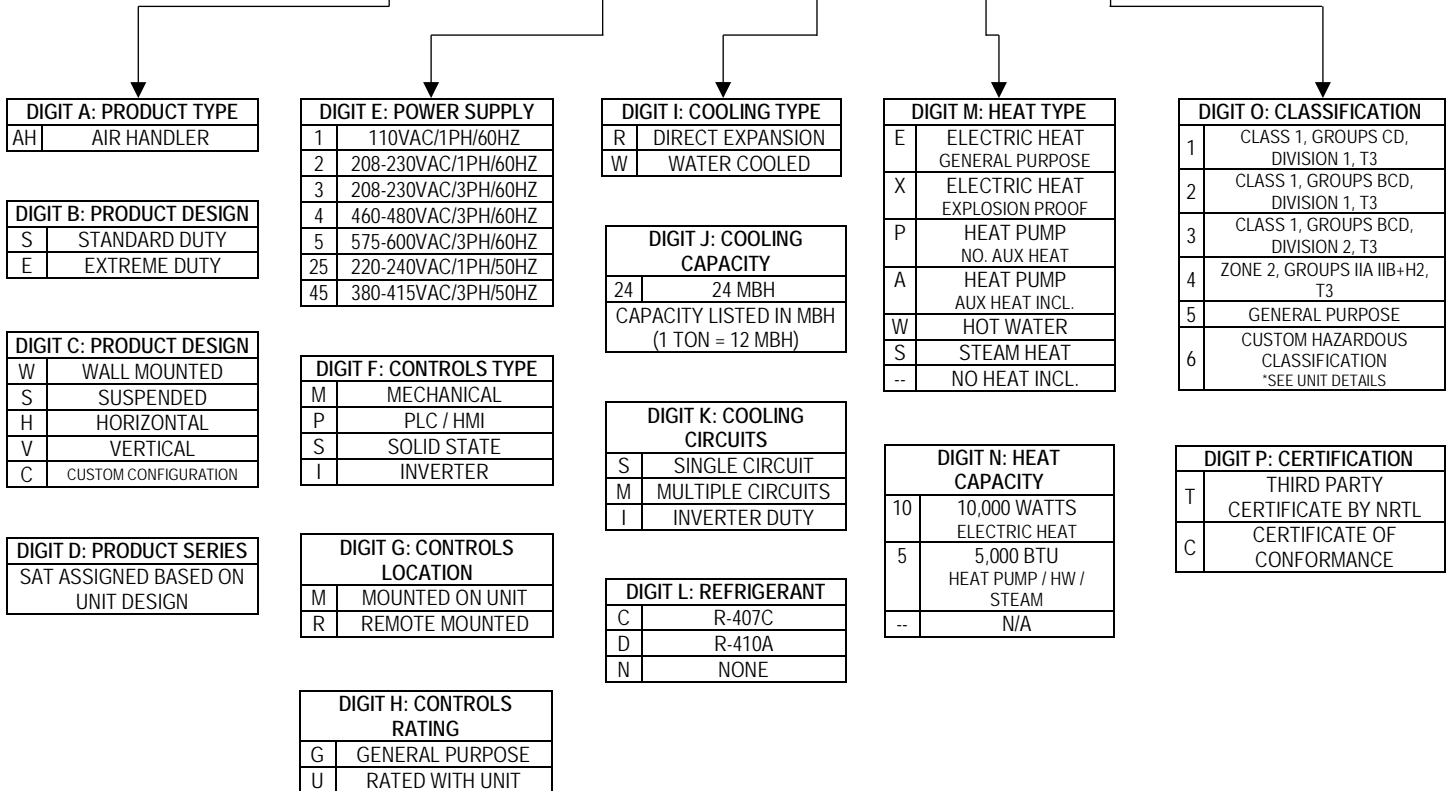
OPTIONS									
COIL COATINGS		HOUSING		REFRIGERATION		MECHANICAL		ACCESSORIES	
H	HERESITE COATED COILS	S4	304 STAINLESS STEEL	C	COPPER/COPPER COILS	HG	HOT GAS BYPASS	D	DISCONNECT
A	ADSIL COATED COILS	S6	316 STAINLESS STEEL						
		P	EPOXY COATED						
X	CUSTOM MODIFICATION -- PLEASE CONTACT OUR SALES/ENGINEERING DEPT. FOR ADDITIONAL INFORMATION								

NOTE: The nomenclature above is Safe Air Technologies standard Mini-Split HVAC system nomenclature. Not all combinations / configurations are NRTL certified as a standard. Please see the models proposed in the previous pages of this catalog for the standard MS-CU/AH® models certified. Please contact our Sales / Engineering department with any questions or request.



MODEL NUMBER NOMENCLATURE

AH	S	W	1	-	2	I	M	U	-	R	24	I	D	-	-	-	3	T	
A	B	C	D	-	E	F	G	H	-	I	J	K	L	-	M	N	-	O	P



OPTIONS									
COIL COATINGS		HOUSING		REFRIGERATION		MECHANICAL		ACCESSORIES	
H	HERESITE COATED COILS	S4	304 STAINLESS STEEL	C	COPPER/COPPER COILS	HG	HOT GAS BYPASS	RMT	RMT. MNT. CONTROLLER
A	ADSIL COATED COILS	S6	316 STAINLESS STEEL	SVI	SERVICE PORTS			D	DISCONNECT
		P	EPOXY COATED						
X	CUSTOM MODIFICATION -- PLEASE CONTACT OUR SALES/ENGINEERING DEPT. FOR ADDITIONAL INFORMATION								

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