

HI-MULTI R410A 42K, 20 SEER2 , -20C, 230V

Hisense
COMFORT

Submission Data: ODU: AMW5-42U3STA

5 Port 42,000 BTU/H, Wall-Mounted Heat Pump System

Job Name:	Location:		
Purchaser:	Submitted by:		
Submitted to:	Reference:	Approval:	Construction:
Engineer:	Date:	Application:	

Key Features:

- 1: Energy-Star qualified + Xtreme Heat, 100% Heating at 5°F.
- 2: NEEP Listed with ducted and ductless configurations.
- 3: Compact cabinet design is lightweight for easier moving.
- 4: Long refrigerant line set runs
- 5: Anti corrosion heat exchanger for Hassle-free operation.
- 6: Outdoor condenser base pan electric heater .
- 7: Tested and Rated to AHRI 210/240-2023.
- 8: Pair with high wall ductless, ceiling cassette and slim ducted indoor units.
- 9: Intelligent defrost & Auto Restart in power loss
- 10: Optional wired room controller.



Minimum of two Indoor Units must be connected to the AMW5-42U3STA.

Total connected capacity must not exceed 130% of outdoor unit capacity

Contact your local Hisense Partner for complete list of accessories

Performance & Efficiency		Ducted IDUs	Non-Ducted IDUs	Mixed IDUs	
Cooling at 95°F	Rated Cooling Capacity	Btu/h	41,000	42,000	41,500
	Cooling Capacity (Min-Max)	Btu/h	9,000 - 50,000		
	Rated Input-Cooling	Kw	4.10	4.00	4.05
	SEER2	Btu/w	18	20	19
	EER2	Btu/w	10.0	10.5	10.3
Heating at 47°F	Rated Heating Capacity	Btu/h	45,000	41,500	43,000
	Heating Capacity		9,000 - 52,000		
	Rated Input-Heating	Kw	3.73	3.87	3.80
	HSPF2	Btu/w	8.1	8.0	8.0
	COP (47F)		3.5	3.1	3.3
Heating at -8.3 °C (17°F AHRI)	Rated Heating Capacity		28,400	27,000	27,600
	Max Heating Capacity	Btu/h	39,887	40,000	40,031
Heating at -15 °C (5 °F)	Rated Heating Capacity		36,000	36,000	36,000
	Max Heating Capacity	Btu/h	36,000	36,000	36,000
Heating at -20 °C (-13 °F)	Max Heating Capacity	Btu/h	25,238	25,700	25,810

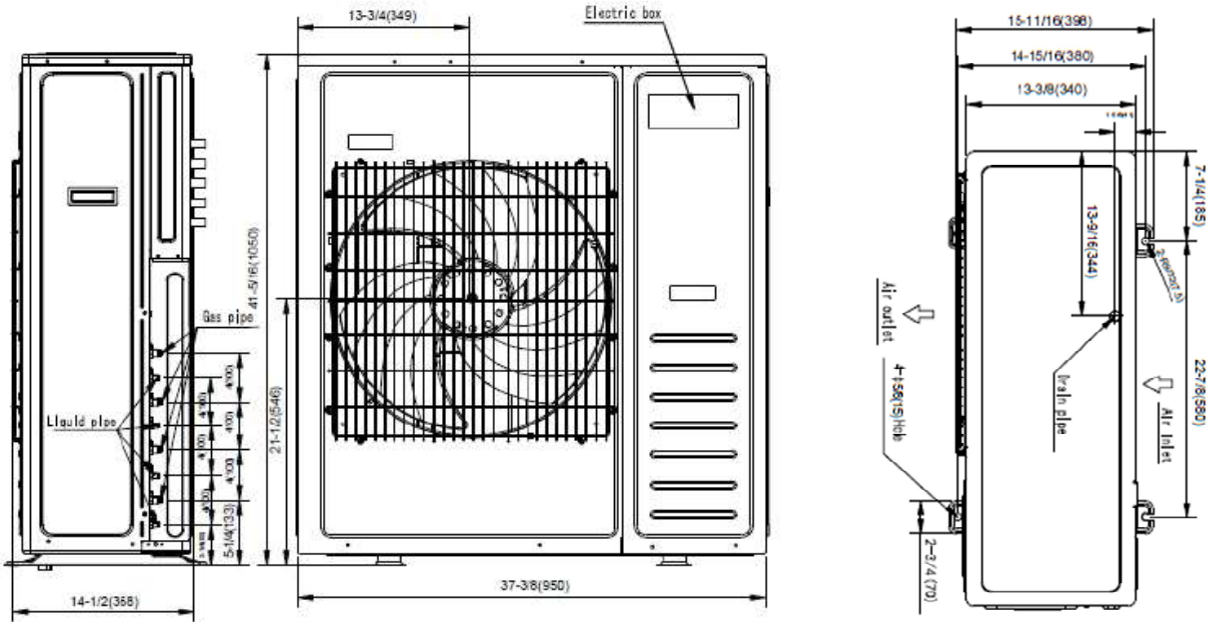
Outdoor Operating Temperature Range:	
Working Temperature Range - Cooling	(°C/°F) -10°C-46°C (14°F - 115°F)
Working Temperature Range - Heating	(°C/°F) -20°C-24°C (-4°F-75°F)

Electrical:		
Power Supply	208 - 230v/1Ph/60Hz	
Required Voltage Range	187 - 253	
Min.Circuit Ampacity	35	
Max Fuse Size/Fusible Max.	50	
Rated Current	Cooling (A)	18.2
	Heating (A)	17.6

Outdoor Unit Specifications:	
Refrigerant Type	R410A
Refrigerant charge volume	g/oz 3400/119.93
Refrigerant pre-charge	ft. 123
Additional charge per ft. over pre-charge length	oz 0.161
Liquid Pipe - 5 Ports	in. 1/4
Gas Pipe - 5 Ports	in. 3/8
Maximum Piping Length for all rooms	ft. 262
Maximum Piping Length for one indoor unit	ft. 66
Maximum height difference between indoor and outdoor unit	ft. 49
Maximum height difference between indoor units	ft. 33
Fan Motor Output	W 138
Fan Motor Speed (H/M/L)	RPM 850 / 540 / 200
Sound pressure	dB (A) 63
Net Dimensions WxHxD	mm 950 × 1050 × 340
	in. 37-3/8 x 41-3/8 x 13-3/8
Package Dimensions WxHxD	mm 1110 × 1200 x 460
	in. 43-3/4 x 47-1/4 x 18-1/8
Net/Gross Weight	kg 90/102
	lbs. 198.4/224.5

Accessories Model No. YXE-C01U1	Description: Wired Controller (Optional)
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Outdoor Unit Outline and Dimensions:



Indoor Unit Free-Match Model Numbers (Follow capacity chart and installation manuals for sizing)

Ceiling Cassette	ACT-09UR3SCA	Slim Ducted	ADT-09UX3SBL
	ACT-12UR3SCA		ADT-12UX3SBL
	ACT-18UR3SGB		ADT-18UX3SCL
	ACT-24UR3SGB		ADT-24UX3SLM



High Wall DL - Silver Bar	AST-07UW3SVE**01	High Wall TE - Finger Guard	AST-09UW3SVG**01B
	AST-09UW3SVE**01		AST-12UW3SXG**01B
	AST-12UW3SXE**01		AST-18UW3SBN**00B
	AST-18UW3SBB**00		AST-24UW3SDN**01B



Combination Table:

AMW5-42U3STA															
Model	Combination of Indoor Units	Cooling Capacity													
		A	B	C	D	E	Total Capacity (Btu/h)			Power Input(Btu/h)			(A)	SEER	EER
		Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	NOM	MIN	MAX	NOM	MIN	MAX			
7+18+24	6000	15400	20500				42000	9000	50000	4060	660	5550	17.5	18.00	3.03
9+18+24	7500	14800	19700				42000	9000	50000	4060	660	5550	17.5	17.80	3.03
12+18+24	7000	14600	18600				42000	9000	50000	4060	660	5550	17.5	17.50	3.03
7+7+7+7	7000	7000	7000	7000			28000	9000	33000	2800	660	3700	12.5	18.50	2.93
7+7+7+9	7000	7000	7000	9000			30000	9000	35700	3000	660	3950	13.0	18.50	2.93
7+7+7+12	7000	7000	7000	12000			33000	9000	39000	3190	660	4360	13.8	18.50	3.03
7+7+7+18	7000	7000	7000	18000			39000	9000	46000	3770	660	5150	16.4	18.30	3.03
7+7+7+24	6500	6500	6500	22500			42000	9000	50000	4060	660	5550	17.5	18.00	3.03
7+7+9+9	7000	7000	9000	9000			32000	9000	38000	3190	660	4200	13.8	18.50	2.94
7+7+9+12	7000	7000	9000	12000			35000	9000	41000	3380	660	4600	14.7	18.50	3.03
7+7+9+18	7000	7000	9000	18000			41000	9000	48000	3960	660	5400	17.2	18.30	3.03
7+7+9+24	6200	6200	8100	21500			42000	9000	50000	4060	660	5550	17.5	18.00	3.03
7+7+12+12	7000	7000	12000	12000			38000	9000	46000	3770	660	5150	16.4	18.50	2.95
7+7+12+18	6600	6600	11500	17200			42000	9000	50000	4060	660	5550	17.5	18.30	3.03
7+7+12+24	6600	6600	11500	23000			42000	9000	50000	4060	660	5550	17.5	18.00	3.03
7+7+18+24	5200	5200	13600	18000			42000	9000	50000	4060	660	5550	17.5	18.00	3.03
7+9+9+9	7000	9000	9000	9000			34000	9000	39000	3190	660	4360	13.8	18.50	3.12
7+9+9+12	7000	9000	9000	12000			37000	9000	46000	3770	660	5150	16.4	18.50	2.88
7+9+9+18	7000	9000	9000	17000			42000	9000	50000	4060	660	5550	17.5	18.30	3.03
7+9+9+24	6500	7700	7700	20000			42000	9000	50000	4060	660	5550	17.5	18.20	3.03
7+9+12+12	7000	9000	12000	12000			40000	9000	46000	3770	660	5150	16.4	18.50	3.11
7+9+12+18	6400	8200	11000	16500			42000	9000	50000	4060	660	5550	17.5	18.30	3.03
7+9+12+24	5600	7300	9700	19000			42000	9000	50000	4060	660	5550	17.5	18.00	3.03
7+9+18+24	5000	6500	13000	17400			42000	9000	50000	4060	660	5550	17.5	18.00	3.03
7+12+12+12	6900	11700	11700	11700			42000	9000	50000	4060	660	5550	17.5	18.50	3.03
7+12+12+18	6000	10200	10200	15500			42000	9000	50000	4060	660	5550	17.5	18.30	3.03
7+12+12+24	5300	9150	9150	18300			42000	9000	50000	4060	660	5550	17.5	18.00	3.03
7+12+18+24	4900	8200	12400	16500			42000	9000	50000	4060	660	5550	17.5	18.00	3.03
9+9+9+9	9000	9000	9000	9000			36000	9000	46000	3770	660	5150	16.4	18.50	2.80
9+9+9+12	9000	9000	9000	12000			39000	9000	46000	3770	660	5150	16.4	18.50	3.03
9+9+9+18	8400	8400	8400	16800			42000	9000	50000	4060	660	5550	17.5	18.30	3.03
9+9+9+24	7400	7400	7400	19800			42000	9000	50000	4060	660	5550	17.5	18.10	3.03
9+9+12+12	9000	9000	12000	12000			42000	9000	50000	4060	660	5550	17.5	18.50	3.03
9+9+12+18	7850	7850	10500	15800			42000	9000	50000	4060	660	5550	17.5	18.30	3.03
9+9+12+24	7000	7000	9300	18700			42000	9000	50000	4060	660	5550	17.5	18.10	3.03
9+9+18+24	6300	6300	12600	16800			42000	9000	50000	4060	660	5550	17.5	18.00	3.03
9+12+12+12	8400	11200	11200	11200			42000	9000	50000	4060	660	5550	17.5	18.50	3.03
9+12+12+18	7400	9900	9900	14800			42000	9000	50000	4060	660	5550	17.5	18.30	3.03
9+12+12+24	6500	8700	8700	17400			42000	9000	50000	4060	660	5550	17.5	18.10	3.03
9+12+18+24	6000	8000	12000	16000			42000	9000	50000	4060	660	5550	17.5	18.00	3.03
12+12+12+12	10500	10500	10500	10500			42000	9000	50000	4060	660	5550	17.5	18.50	3.03
12+12+12+18	9300	9300	9300	14000			42000	9000	50000	4060	660	5550	17.5	18.30	3.03
7+7+7+7+7	7000	7000	7000	7000	7000		35000	9000	41000	3380	660	4600	14.7	19.00	3.03
7+7+7+7+9	7000	7000	7000	7000	9000		37000	9000	46000	3770	660	5150	16.4	19.00	2.88
7+7+7+7+12	7000	7000	7000	7000	12000		41000	9000	48000	3960	660	5400	17.2	19.00	3.03
7+7+7+7+18	6400	6400	6400	6400	16400		42000	9000	50000	4060	660	5550	17.5	18.80	3.03
7+7+7+9+9	7000	7000	7000	9000	9000		39000	9000	46000	3770	660	5150	16.4	19.00	3.03
7+7+7+9+12	7000	7000	7000	9000	12000		42000	9000	50000	4060	660	5550	17.5	19.00	3.03
7+7+7+9+18	6100	6100	6100	7800	15900		42000	9000	50000	4060	660	5550	17.5	18.90	3.03
7+7+7+9+24	5500	5500	5500	7000	18500		42000	9000	50000	4060	660	5550	17.5	18.70	3.03
7+7+7+12+12	6500	6500	6500	11200	11200		42000	9000	50000	4060	660	5550	17.5	19.50	3.03
7+7+7+12+18	5750	5750	5750	9800	14800		42000	9000	50000	4060	660	5550	17.5	19.40	3.03
7+7+9+9+9	7000	7000	9000	9000	9000		41000	9000	48000	3960	660	5400	17.2	19.60	3.03
7+7+9+9+12	6700	6700	8590	8590	11450		42000	9000	50000	4060	660	5550	17.5	19.60	3.03
7+7+9+9+18	5880	5880	7560	7560	15120		42000	9000	50000	4060	660	5550	17.5	19.40	3.03
7+7+9+12+12	6250	6250	8040	10700	10700		42000	9000	50000	4060	660	5550	17.5	19.60	3.03
7+7+12+12+12	5880	5880	10080	10080	10080		42000	9000	50000	4060	660	5550	17.5	19.70	3.03
7+9+9+9+9	6830	8790	8790	8790	8790		42000	9000	50000	4060	660	5550	17.5	19.80	3.03
7+9+9+9+12	6400	8200	8200	8200	11000		42000	9000	50000	4060	660	5550	17.5	19.70	3.03
7+9+9+9+18	5650	7250	7250	7250	14530		42000	9000	50000	4060	660	5550	17.5	19.50	3.03
7+9+9+12+12	6000	7700	7700	10300	10300		42000	9000	50000	4060	660	5550	17.5	19.80	3.03
7+9+12+12+12	5650	7250	9700	9700	9700		42000	9000	50000	4060	660	5550	17.5	19.80	3.03
9+9+9+9+9	8400	8400	8400	8400	8400		8400	9000	50000	4060	660	5550	17.5	20.00	0.61
9+9+9+9+12	7875	7875	7875	7875	10500		42000	9000	50000	4060	660	5550	17.5	19.90	3.03
9+9+9+9+18	7000	7000	7000	7000	14000		42000	9000	50000	4060	660	5550	17.5	19.80	3.03
9+9+9+12+12	7400	7400	7400	9900	9900		42000	9000	50000	4060	660	5550	17.5	19.90	3.03
9+9+12+12+12	7000	7000	9330	9330	9330		42000	9000	50000	4060	660	5550	17.5	19.90	3.03

Split Indoor

Combination Table:

Model	Combination of Indoor Units	Heating Capacity											(A)	SCOP	COP
		A	B	C	D	E	Total Capacity (Btu/h)			Power Input(Btu/h)					
		Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	NOM	MIN	MAX	NOM	MIN	MAX			
7+18+24	6000	15400	20500			42000	9000	52000	3690	530	6450	16.0	9.00	2.97	
9+18+24	7500	14800	19700			42000	9000	52000	3690	530	6450	16.0	8.50	2.95	
12+18+24	7000	14600	18600			42000	9000	52000	3690	530	6450	16.0	8.40	2.93	
7+7+7+7	7000	7000	7000	7000		28000	9000	35000	2700	530	6450	12.0	8.50	3.02	
7+7+7+9	7000	7000	7000	9000		30000	9000	36000	2900	530	4600	12.5	8.50	3.02	
7+7+7+12	7000	7000	7000	12000		33000	9000	37000	2900	530	5100	12.5	8.50	3.02	
7+7+7+18	7000	7000	7000	18000		39000	9000	48000	3420	530	6000	14.8	8.60	2.99	
7+7+7+24	6500	6500	6500	22500		42000	9000	52000	3690	530	6450	16.0	8.70	2.97	
7+7+9+9	7000	7000	9000	9000		32000	9000	39000	2900	530	4900	12.5	8.50	3.02	
7+7+9+12	7000	7000	9000	12000		35000	9000	43000	3070	530	5400	13.3	8.50	3.02	
7+7+9+18	7000	7000	9000	18000		41000	9000	52000	3600	530	6300	15.6	8.60	2.98	
7+7+9+24	6200	6200	8100	21500		42000	9000	52000	3690	530	6450	16.0	8.40	2.98	
7+7+12+12	7000	7000	12000	12000		38000	9000	48000	3420	530	5800	14.8	8.50	3.02	
7+7+12+18	6600	6600	11500	17200		42000	9000	52000	3690	530	6450	16.0	8.30	2.99	
7+7+12+24	6600	6600	11500	23000		42000	9000	52000	3690	530	6450	16.0	8.90	2.98	
7+7+18+24	5200	5200	13600	18000		42000	9000	52000	3690	530	6450	16.0	8.60	2.98	
7+9+9+9	7000	9000	9000	9000		34000	9000	37000	2900	530	5200	12.5	8.50	3.02	
7+9+9+12	7000	9000	9000	12000		37000	9000	48000	3420	530	5700	14.8	8.50	3.02	
7+9+9+18	7000	9000	9000	17000		42000	9000	52000	3690	530	6450	16.0	8.60	2.98	
7+9+9+24	6500	7700	7700	20000		42000	9000	52000	3690	530	6450	16.0	8.60	2.97	
7+9+12+12	7000	9000	12000	12000		40000	9000	48000	3420	530	6150	14.8	8.50	3.02	
7+9+12+18	6400	8200	11000	16500		42000	9000	52000	3690	530	6450	16.0	8.70	2.98	
7+9+12+24	5600	7300	9700	19000		42000	9000	52000	3690	530	6450	16.0	8.70	2.97	
7+9+18+24	5000	6500	13000	17400		42000	9000	52000	3690	530	6450	16.0	8.90	2.98	
7+12+12+12	6900	11700	11700	11700		42000	9000	52000	3690	530	6450	16.0	8.50	3.02	
7+12+12+18	6000	10200	10200	15500		42000	9000	52000	3690	530	6450	16.0	8.54	22.98	
7+12+12+24	5300	9150	9150	18300		42000	9000	52000	3690	530	6450	16.0	8.50	2.97	
7+12+18+24	4900	8200	12400	16500		42000	9000	52000	3690	530	6450	16.0	8.60	2.97	
9+9+9+9	9000	9000	9000	9000		36000	9000	48000	3420	530	5700	14.8	8.50	3.02	
9+9+9+12	9000	9000	9000	12000		39000	9000	48000	3420	530	6000	14.8	8.50	3.02	
9+9+9+18	8400	8400	8400	16800		42000	9000	52000	3690	530	6450	16.0	8.60	2.99	
9+9+9+24	7400	7400	7400	19800		42000	9000	52000	3690	530	6450	16.0	8.60	2.97	
9+9+12+12	9000	9000	12000	12000		42000	9000	52000	3690	530	6450	16.0	8.50	3.02	
9+9+12+18	7850	7850	10500	15800		42000	9000	52000	3690	530	6450	16.0	8.70	2.97	
9+9+12+24	7000	7000	9300	18700		42000	9000	52000	3690	530	6450	16.0	8.75	2.97	
9+9+18+24	6300	6300	12600	16800		42000	9000	52000	3690	530	6450	16.0	8.76	2.97	
9+12+12+12	8400	11200	11200	11200		42000	9000	52000	3690	530	6450	16.0	8.60	3.02	
9+12+12+18	7400	9900	9900	14800		42000	9000	52000	3690	530	6450	16.0	8.70	2.97	
9+12+12+24	6500	8700	8700	17400		42000	9000	52000	3690	530	6450	16.0	8.60	2.97	
9+12+18+24	6000	8000	12000	16000		42000	9000	52000	3690	530	6450	16.0	8.70	2.96	
12+12+12+12	10500	10500	10500	10500		42000	9000	52000	3690	530	6450	16.0	8.50	3.02	
12+12+12+18	9300	9300	9300	14000		42000	9000	52000	3690	530	6450	16.0	8.50	2.99	
7+7+7+7+7	7000	7000	7000	7000	7000	35000	9000	43000	3070	530	5400	13.3	9.00	3.12	
7+7+7+7+9	7000	7000	7000	7000	9000	37000	9000	48000	3420	530	5700	14.8	9.00	3.12	
7+7+7+7+12	7000	7000	7000	7000	12000	41000	9000	52000	3600	530	6300	15.6	9.00	3.12	
7+7+7+7+18	6400	6400	6400	6400	16400	42000	9000	52000	3690	530	6450	16.0	8.80	3.11	
7+7+7+9+9	7000	7000	7000	9000	9000	39000	9000	48000	3420	530	6000	14.8	9.00	3.12	
7+7+7+9+12	7000	7000	7000	9000	12000	42000	9000	52000	3690	530	6450	16.0	9.00	3.12	
7+7+7+9+18	6100	6100	6100	7800	15900	42000	9000	52000	3690	530	6450	16.0	8.90	3.09	
7+7+7+9+24	5500	5500	5500	7000	18500	42000	9000	52000	3690	530	6450	16.0	8.70	3.07	
7+7+7+12+12	6500	6500	6500	11200	11200	42000	9000	52000	3690	530	6450	16.0	9.50	3.13	
7+7+7+12+18	5750	5750	5750	9800	14800	42000	9000	52000	3690	530	6450	16.0	9.40	3.11	
7+7+9+9+9	7000	7000	9000	9000	9000	41000	9000	52000	3600	530	6300	15.6	9.60	3.13	
7+7+9+9+12	6700	6700	8590	8590	11450	42000	9000	52000	3690	530	6450	16.0	9.60	3.13	
7+7+9+9+18	5880	5880	7560	7560	15120	42000	9000	52000	3690	530	6450	16.0	9.40	3.11	
7+7+9+12+12	6250	6250	8040	10700	10700	42000	9000	52000	3690	530	6450	16.0	9.60	3.13	
7+7+12+12+12	5880	5880	10080	10080	10080	42000	9000	52000	3690	530	6450	16.0	9.70	3.14	
7+9+9+9+9	6830	8790	8790	8790	8790	42000	9000	52000	3690	530	6450	16.0	9.80	3.14	
7+9+9+9+12	6400	8200	8200	8200	11000	42000	9000	52000	3690	530	6450	16.0	9.70	3.12	
7+9+9+9+18	5650	7250	7250	7250	14530	42000	9000	52000	3690	530	6450	16.0	9.50	3.07	
7+9+9+12+12	6000	7700	7700	10300	10300	42000	9000	52000	3690	530	6450	16.0	9.80	3.14	
7+9+12+12+12	5650	7250	9700	9700	9700	42000	9000	52000	3690	530	6450	16.0	9.80	3.14	
9+9+9+9+9	8400	8400	8400	8400	8400	42000	9000	52000	3690	530	6450	16.0	10.00	3.24	
9+9+9+9+12	7875	7875	7875	7875	10500	42000	9000	52000	3690	530	6450	16.0	9.90	3.17	
9+9+9+9+18	7000	7000	7000	7000	14000	42000	9000	52000	3690	530	6450	16.0	9.80	3.12	
9+9+9+12+12	7400	7400	7400	9900	9900	42000	9000	52000	3690	530	6450	16.0	9.90	3.17	
9+9+12+12+12	7000	7000	9330	9330	9330	42000	9000	52000	3690	530	6450	16.0	9.90	3.17	

Split Indoor