

TECHNICAL SPECIFICATIONS

HSA4MD Series

High Efficiency Air Conditioner 13.4 SEER2 Manufactured Housing System 2 – 4 Ton Capacity

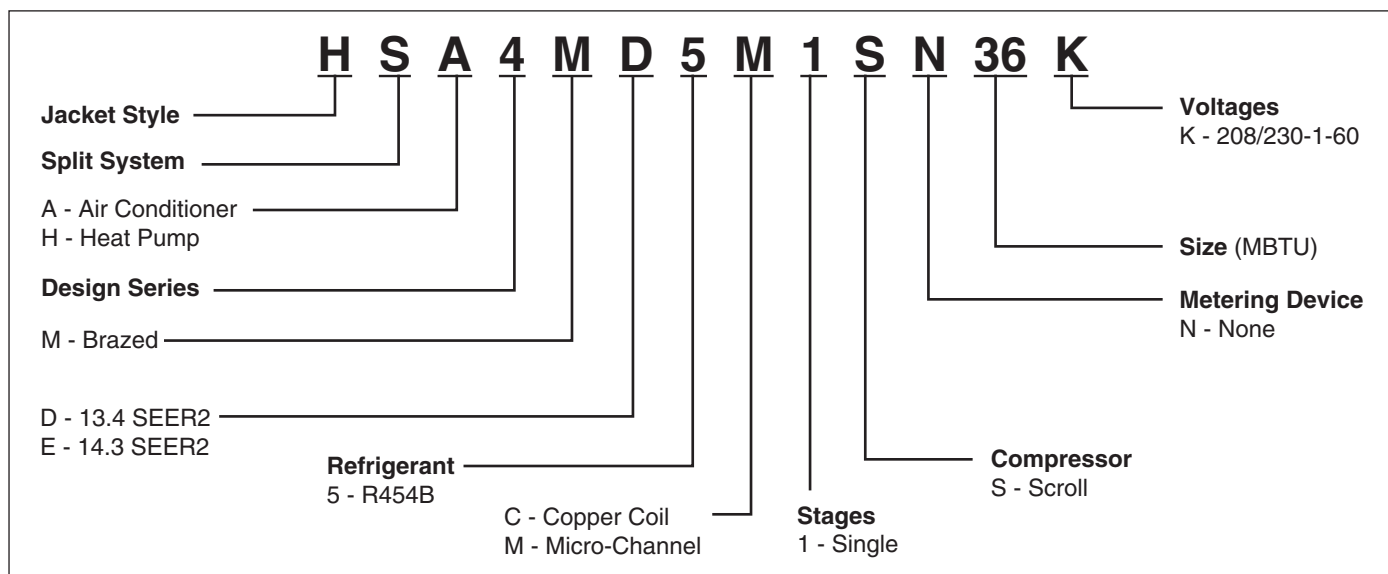
The HSA4MD Series of air conditioners offer exceptional performance. The unit, when combined with our engineered coils or air handlers, offers a full line of quality, split system cooling equipment.—



FEATURES and BENEFITS

- **Full Service Valves:** These brass valves are easily accessible and simplify servicing of the refrigeration system. Charged with refrigerant for 20 feet of lineset.
- **Quality Compressor:** State-of-the-art Scroll compressor is standard equipment offering superior comfort and efficiency.
- **Designed Using Galvanized Steel:** A powder-coated paint that eliminates sharp edges and reduces corrosion, fading, chipping and scratching. It passes 950 hours of salt spray per ASTM Std. B117.
- **Composite Base Pan:** Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **Powder Coated Full Metal Jacket:** Will never rust and protects the coil from being damaged by balls, lawnmowers, hail etc.
- **Permanently Lubricated Motor:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Removable Top Grille Assembly:** Allows ease of service from the top without disconnecting fan motor leads.
- **High Pressure Switch:** Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service visits.
- **Liquid Line Filter Drier:** Included with unit, factory installed on QD and field installed on MD models.
- **One Piece Top/Orifice:** Designed for maximum airflow and quiet operation.
- **Easy Compressor and Control Access:** Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.
- **All-Aluminum coils:** Aluminum coils in all models which provides high corrosion resistance.
- **Servicer-Friendly Jacket:** Side panels can be easily removed and replaced without removing the top grill.

MODEL IDENTIFICATION CODES



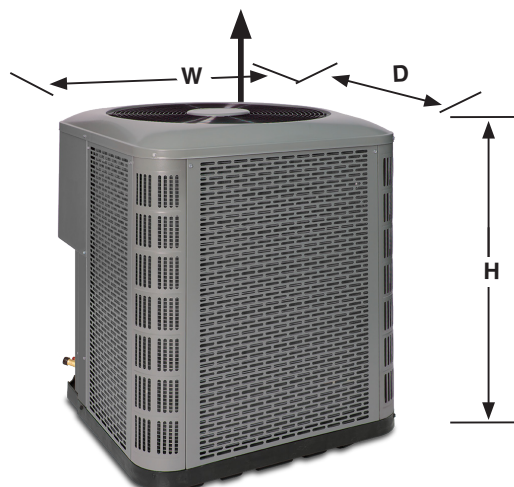
DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

	Unit with Packaging				
HSA4MD	24K	30K	36K	42K	48K
Height (in)	30.75	34.75	38.75	34.75	38.75
Width (in)	27.5	27.5	27.5	35.5	35.5
Depth (in)	27.5	27.5	27.5	35.5	35.5
Weight (lbs)	131	136	147	165	206

	Unit without Packaging				
HSA4MD	24K	30K	36K	42K	48K
Height (in)	28.5	33	37	33	37
Width (in)	23.75	23.75	23.75	31.75	31.75
Depth (in)	23.75	23.75	23.75	31.75	31.75
Weight (lbs)	117	121	131	143	183

Air Discharge
Allow Adequate Clearance for Airflow



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13.4 SEER2 — High Efficiency — Single Phase

Model Number SA4MD5M		1SN24K	1SN30K	1SN36K	1SN42K	1SN48K	
Electrical Data	Volts-Cycles-Phase (1)	208/230-60-1					
	Delay Fuse Max. (2)	20	25	30	35	40	
	Min. Circuit Ampacity	12	16.4	19.4	21.1	25.6	
	Fan Motor HP	1/8	1/8	1/4	1/4	1/4	
	Compressor LRA	63	67	86	96	102	
Refrigerant suction line O.D. NOTE: Liquid line is 3/8" O.D. for entire length.		0 - 24 ft.	3/4"	3/4"	3/4"	7/8"	7/8"
		25 - 39 ft.	3/4"	3/4"	7/8" (3)	7/8"	7/8"
		40 - 75 ft.	3/4"	3/4"	7/8" (3)	7/8"	7/8"
Approximate Shipping Weight (lbs.)			131	136	147	165	206
Sound Rating dBA			73	77	74	76	78

Rated for 10,000 ft maximum elevation

(1) Operating Voltage Range: 187v min. - 253v max.

(2) HACR Type Circuit Breakers may be used.

(3) Requires 7/8" to 3/4" reducer from line to unit.

(4) Requires 7/8" to 1-1/8" reducer from line to unit.

ACCESSORIES - Condensing Unit

Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

Low Ambient Kit - 918837

SYSTEM COOLING CAPACITIES

13.4 SEER2 — High Efficiency — Single Phase

AHRI Ratings						
Outdoor Unit	Indoor Unit	Coil Height	Cooling Capacity @ 95° F	SEER	EER @ 95° F	CFM
HSA4MD5M1SN24K	C85DAMX24U-B	18"	23,200	13.4	11.0	850
HSA4MD5M1SN30K	C85DAMX3036U-B	18"	29,000	13.4	11.0	1000
HSA4MD5M1SN36K	C85DAMX3036U-B	18"	34,800	13.4	11.0	1120
HSA4MD5M1SN42K	C85DAMX42U-B	18"	40,000	13.4	11.0	1190
HSA4MD5M1SN48K	C85DAMX48U-B	24"	46,000	13.4	11.0	1400

See current AHRI Directory for certified combinations and ratings. All ratings are with time delay relay.

www.ahridirectory.org

COOLING EXPANDED RATINGS WITH COIL

*SA4MD5M1SN24K + C85DAMX24U-B

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
700	80	62	26.6	22	1.51	25.5	21.5	1.67	24.3	20.9	1.85	23.1	20.3	2.05	21.8	19.6	2.28	20.5	18.9	2.55
	80	67	28.9	18.6	1.5	27.7	18	1.67	26.4	17.4	1.85	25.2	16.8	2.06	23.9	16.4	2.29	22.5	15.8	2.56
	80	72	31.3	15.3	1.49	29.9	14.7	1.66	28.7	14.2	1.85	27.4	13.7	2.06	26.1	13.1	2.31	24.6	12.5	2.59
	75	62	26.6	18.7	1.51	25.2	17.8	1.67	24.2	17.6	1.85	23	17.1	2.05	21.7	16.4	2.28	20.4	15.8	2.55
	75	67	28.8	15.4	1.5	27.5	14.9	1.67	26.3	14.3	1.85	25.1	13.8	2.06	23.7	13.1	2.29	22.3	12.5	2.56
850	80	62	27.5	24.2	1.57	26.2	23.5	1.73	25	22.8	1.91	23.7	22	2.11	22.4	21.5	2.35	21	20.7	2.61
	80	67	29.9	20	1.56	28.4	19.5	1.73	27.1	19	1.91	25.8	18.4	2.12	24.5	17.8	2.36	23	17.1	2.63
	80	72	32.2	16.1	1.54	30.8	15.6	1.72	29.4	15	1.91	28.1	14.5	2.13	26.7	13.9	2.37	25.1	13.2	2.66
	75	62	27.4	20.3	1.57	26.1	19.6	1.73	24.7	18.5	1.91	23.4	17.8	2.11	22.2	17.7	2.35	20.8	17.2	2.62
	75	67	29.7	16.3	1.56	28.4	15.7	1.73	27	15.1	1.91	25.7	14.6	2.12	24.3	14	2.36	22.8	13.3	2.63
900	80	62	27.8	24.8	1.59	26.2	22.8	1.75	25.2	23.4	1.93	23.9	22.7	2.13	22.6	22	2.37	21.2	20.9	2.63
	80	67	30	20.6	1.58	28.6	20	1.75	27.3	19.4	1.93	26	18.9	2.14	24.6	18.2	2.38	23.1	17.6	2.65
	80	72	32.5	16.4	1.56	31	15.8	1.74	29.7	15.3	1.93	28.3	14.7	2.15	26.8	14.1	2.39	25.2	13.5	2.68
	75	62	27.5	20.2	1.59	26.1	19.5	1.75	24.8	18.8	1.93	23.7	18.8	2.13	22.3	18.1	2.37	20.9	17.6	2.64
	75	67	29.9	16.6	1.58	28.5	15.9	1.75	27.2	15.3	1.93	25.9	14.8	2.14	24.5	14.2	2.38	22.9	13.5	2.65

*SA4MD5M1SN30K + C85DAMX30U-B

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
875	80	62	31.4	25.6	1.8	30.1	25	1.99	28.8	24.5	2.19	27.3	23.7	2.42	25.8	23	2.69	24.4	22.4	3.02
	80	67	34.1	21.8	1.81	32.8	21.1	2	31.3	20.4	2.2	29.8	19.8	2.44	28.3	19.1	2.71	26.8	18.4	3.04
	80	72	37.1	17.8	1.82	35.6	17.1	2.01	34.1	16.5	2.22	32.5	15.9	2.45	31	15.3	2.72	29.3	14.7	3.06
	75	62	31.3	21.9	1.8	30	21.2	1.99	28.7	20.6	2.19	27.3	19.9	2.42	25.8	19.2	2.69	24.3	18.5	3.02
	75	67	34	18	1.81	32.7	17.4	2	31.3	16.8	2.2	29.7	16.1	2.43	28.2	15.4	2.71	26.7	14.7	3.03
1000	80	62	32.1	27.1	1.85	30.7	26.5	2.04	29.3	25.9	2.25	27.8	24.9	2.48	26.3	24.5	2.75	24.8	23.8	3.07
	80	67	34.9	22.8	1.86	33.4	22.1	2.06	31.9	21.5	2.26	30.4	20.8	2.49	28.8	20.1	2.76	27.2	19.5	3.09
	80	72	37.9	18.4	1.88	36.3	17.8	2.07	34.8	17.2	2.27	33.1	16.5	2.5	31.5	15.9	2.78	29.8	15.2	3.12
	75	62	32	22.9	1.85	30.7	22.3	2.04	29.3	21.6	2.25	27.8	21	2.48	26.2	20.3	2.75	24.7	19.6	3.07
	75	67	34.8	18.6	1.86	33.4	18	2.05	31.9	17.4	2.26	30.3	16.7	2.49	28.7	16	2.76	27.1	15.3	3.09
1120	80	62	32.6	28.6	1.9	31.2	28	2.1	29.7	26.9	2.3	28.2	26.5	2.53	26.7	25.7	2.8	25.2	24.8	3.12
	80	67	35.5	23.7	1.92	34	23.1	2.11	32.4	22.4	2.31	30.8	21.7	2.54	29.2	21.1	2.82	27.5	20.5	3.14
	80	72	38.5	19	1.93	36.9	18.3	2.12	35.2	17.7	2.32	33.6	17	2.55	31.9	16.4	2.83	30.1	15.7	3.17
	75	62	32.5	23.9	1.9	31.1	23.3	2.1	29.6	22.6	2.3	28.1	22	2.53	26.6	21.3	2.8	25	20.5	3.13
	75	67	35.4	19.2	1.92	33.8	18.5	2.11	32.3	17.9	2.31	30.7	17.2	2.54	29.1	16.5	2.81	27.5	15.8	3.14

*SA4MD5M1SN36K + C85DAMX36U-B

O.D.T			65°F			75°F			85°F			95°F			105°F			115°F		
CFM	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1050	80	62	37	30.5	2.21	35.2	30	2.42	33.5	29.1	2.65	31.8	28.2	2.92	29.8	27.3	3.22	27.3	26.1	3.53
	80	67	34.8	23.4	2.93	37	24.4	2.59	36.5	24.1	2.66	34.8	23.4	2.93	32.7	22.5	3.22	30	21.3	3.52
	80	72	42.6	20.6	2.23	40.8	19.8	2.43	39.1	19.2	2.66	37.4	18.6	2.92	35.3	17.7	3.21	32.4	16.5	3.51
	75	62	36.9	26.1	2.21	35.2	25.3	2.42	33.4	24.5	2.65	31.7	23.7	2.92	29.8	22.5	3.21	27.1	21.1	3.52
	75	67	39.7	21.2	2.22	38	20.4	2.43	36.4	19.7	2.66	34.7	18.9	2.93	32.6	18	3.22	29.8	16.8	3.52
1120	80	62	37.4	31.3	2.24	35.5	30.6	2.45	33.8	29.9	2.68	32.1	29	2.95	30.1	28.2	3.25	27.5	26.8	3.56
	80	67	35.1	24	2.96	37.3	24.9	2.62	36.8	24.7	2.7	35.1	24	2.96	33	23	3.25	30.2	21.9	3.55
	80	72	43.1	21	2.26	41.1	20.2	2.46	39.5	19.6	2.69	37.8	18.9	2.95	35.5	18	3.24	32.7	16.8	3.54
	75	62	37.1	26.3	2.24	35.5	25.9	2.45	33.7	25.1	2.68	32	24.2	2.95	30	23.1	3.24	27.3	21.6	3.54
	75	67	40.2	21.6	2.25	38.4	20.7	2.46	36.7	20	2.69	34.9	19.2	2.96	32.8	18.3	3.25	30	17.1	3.55
1350	80	62	38.5	34.2	2.35	36.4	32.9	2.55	34.6	32.6	2.78	32.8	31.6	3.05	30.8	30.3	3.34	28.5	28.5	3.65
	80	67	35.8	25.6	3.06	38.2	26.7	2.72	37.7	26.5	2.8	35.8	25.8	3.06	33.6	24.7	3.35	30.7	23.5	3.64
	80	72	44.1	22	2.36	42.1	21.2	2.56	40.2	20.4	2.78	38.5	19.8	3.04	36.1	18.9	3.33	33.1	17.8	3.63
	75	62	38.1	28	2.35	36.3	27.9	2.55	34.5	27	2.78	32.7	26.1	3.05	30.6	24.8	3.34	27.7	23.3	3.64
	75	67	41.2	22.6	2.35	39.3	21.8	2.56	37.5	21	2.79	35.4	20.1	3.06	33.5	19.2	3.34	30.5	17.9	3.64

COOLING EXPANDED RATINGS WITH COIL (CONTINUED)

*SA4MD5M1SN42K + C85DAMX42U-B

CFM	O.D.T		65°F			75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1190 Rate	80	62	42.6	35	2.54	40.9	34.4	2.86	38.9	33.5	3.15	36.9	32.4	3.45	34.8	31	3.78	32.7	30.4	4.15
	80	67	46.3	29.8	2.53	44.5	28.9	2.83	43.1	28.2	3.04	40.3	26.9	3.44	38.1	25.9	3.77	35.8	24.9	4.15
	80	72	50.4	24.4	2.5	48.1	23.4	2.81	46.1	22.5	3.1	43.7	21.6	3.41	41.6	20.7	3.76	39.2	19.7	4.15
	75	62	42.4	29.9	2.54	40.7	29.2	2.86	38.7	28.1	3.15	36.8	27	3.45	34.6	25.9	3.77	32.5	24.9	4.14
	75	67	46.1	24.6	2.53	44.3	23.8	2.83	42.2	22.8	3.13	40.1	21.8	3.44	37.9	20.8	3.77	35.4	19.7	4.15
1400	80	62	43.7	37.6	2.62	41.9	37	2.93	39.8	35.8	3.23	37.7	35	3.53	35.5	33.9	3.86	33.3	32.4	4.24
	80	67	47.5	31.5	2.6	45.6	30.6	2.91	44.1	29.9	3.12	41.2	28.6	3.52	38.9	27.5	3.85	36.5	26.5	4.24
	80	72	51.3	25.3	2.57	49.4	24.5	2.88	47.2	23.6	3.18	44.8	22.6	3.49	42.5	21.6	3.84	39.8	20.5	4.23
	75	62	43.1	31.1	2.63	41.3	30.2	2.94	39.7	30	3.23	37.6	28.7	3.53	35.4	27.9	3.86	33.1	26.5	4.23
	75	67	47.3	25.7	2.61	45.3	24.8	2.91	43.2	23.8	3.21	40.9	22.8	3.52	38.6	21.8	3.85	36.2	20.7	4.23
1575	80	62	44.5	39.8	2.69	42.6	38.3	3	40.4	38	3.3	38.2	36.8	3.6	36.1	35.4	3.93	34.1	34.1	4.31
	80	67	48.3	32.9	2.67	46.3	32	2.98	44.7	31.2	3.19	41.7	30	3.59	39.3	28.8	3.92	36.9	27.8	4.31
	80	72	52.3	26.2	2.63	50.2	25.1	2.94	47.8	24.3	3.24	45.3	23.3	3.56	42.8	22.3	3.91	40.2	21.3	4.3
	75	62	44.2	33.3	2.69	41.9	31.4	3	40.2	31.4	3.3	38	30.3	3.6	35.7	29	3.93	33.5	27.7	4.3
	75	67	48.1	26.5	2.67	46	25.6	2.98	43.8	24.6	3.28	41.4	23.5	3.58	38.7	22.3	3.92	36.6	21.3	4.31

*SA4MD5M1SN48K + C85DAMX48U-B

CFM	O.D.T		65°F			75°F			85°F			95°F			105°F			115°F		
	E.D.B.	E.W.B.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.	T.C.	S.C.	K.W.
1400 Rate	80	62	49.7	41.4	2.94	48.2	40.5	3.3	46.4	39.6	3.66	44.3	38.5	4.06	42	37.2	4.51	39.5	36.3	5.02
	80	67	54	35.1	2.94	52.3	34.3	3.3	50.3	33.4	3.66	48.1	32.5	4.05	45.7	31.4	4.48	43.2	30.2	4.98
	80	72	59.2	29	2.97	57	28	3.33	54.7	27.1	3.7	52.3	26.1	4.08	49.3	24.9	4.5	47	24.1	4.99
	75	62	49.5	35.3	2.94	48.1	34.5	3.3	46.3	33.8	3.66	44.1	32.5	4.06	41.8	31.5	4.51	39.3	30.3	5.02
	75	67	53.7	29	2.94	51.6	28	3.3	50.1	27.3	3.66	47.9	26.3	4.05	45.5	25.3	4.48	43	24.2	4.98
1600	80	62	50.8	43.8	3.02	49.2	42.9	3.38	47.3	41.8	3.75	45.1	41	4.15	42.7	39.9	4.59	40.2	38.6	5.1
	80	67	55.1	36.7	3.02	53.3	36	3.38	51.2	35.1	3.75	48.9	34	4.14	46.4	32.9	4.57	43.8	31.8	5.07
	80	72	60.2	29.9	3.05	58.2	29.2	3.41	55.9	28.3	3.78	53.2	27.2	4.17	50.5	26.1	4.59	47.7	25	5.08
	75	62	50.5	37	3.02	49	36.2	3.38	47.1	35.4	3.75	44.9	34.2	4.15	42.5	33.2	4.59	40	31.9	5.1
	75	67	54.8	30	3.02	53.1	29.3	3.38	50.6	28.2	3.75	48.7	27.4	4.14	46.2	26.4	4.57	43.6	25.2	5.07
1800	80	62	51.5	46.1	3.11	49.9	45	3.47	48	44	3.84	45.7	43.3	4.24	43.3	42	4.68	40.8	40.3	5.18
	80	67	55.9	38.4	3.1	54.1	37.7	3.47	51.9	36.7	3.83	49.5	35.6	4.23	47	34.5	4.66	44.3	33.3	5.16
	80	72	61.1	31	3.13	59.1	30.2	3.49	56.6	29.2	3.86	53.8	28.1	4.25	51	27	4.68	48.2	25.9	5.16
	75	62	51.3	38.6	3.1	49.7	37.9	3.47	47.8	36.9	3.84	45.5	35.8	4.23	43.1	34.8	4.68	40.4	33.4	5.19
		67	55.8	31.1	3.1	53.5	30.1	3.47	51.7	29.4	3.83	48.9	28.1	4.22	46.7	27.2	4.66	44.1	26	5.15



GENERAL TERMS OF LIMITED WARRANTY

Nortek Global HVAC, LLC will furnish a replacement for any part of this product which fails in normal use and service within the terms and conditions of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the Nortek Global HVAC, LLC warranty department for a copy.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A (09/2024)