

EAA5X

Uncased Evaporator Coil

R-454B, 1½ thru 5 Ton

Product Data

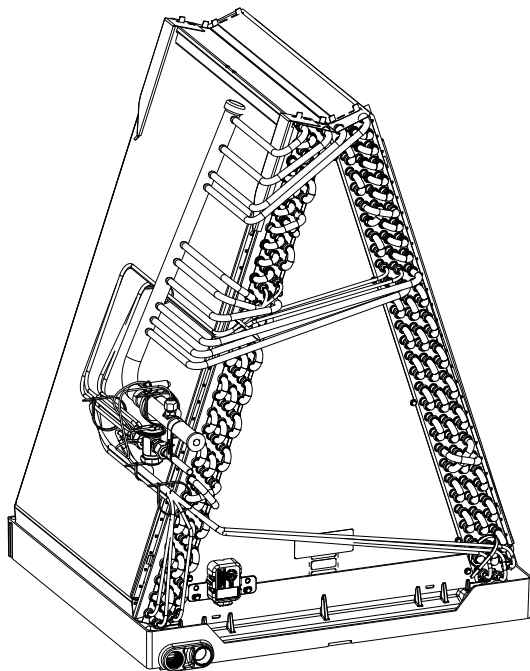


Fig. 1 – EAA5X

A240150A



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A200449AICP

The CAAVU evaporator coil incorporates proven standards for reliable system operation and performance throughout the life of this quality Air Conditioner or Heat Pump system. These quality evaporator coils, manufactured and installed as part of a total comfort system, provide AHRI-rated performance ratings and are additionally listed with UL and c-UL.

This coil is available for use with R-454B Refrigerant only. It is a uncased A-coil that can be housed in any matched pre-installed cabinet or any custom built plenum. This uncased A-coil offers the most in installation application flexibility; one coil for a variety of applications with fewer SKUs to stock.

DESIGN FEATURES

Performance

Designed with performance in mind, this new A-coil offers low pressure drops to enhance system performance and airflow characteristics.

Thermostatic Expansion Valves (TXV)

All coils have refrigerant-specific, factory-installed TXVs.

Durable Condensate Pan

The corrosion-resistant drain pan, for vertical application, is designed in a “fiberglass reinforced thermoset polyester” material (FRTP) that offers unsurpassed pan strength. It is engineered with a proper slope to help ensure water drainage, improved moisture removal, and home comfort.

Refrigerant Connections

Provided with industry proven sweat connections for leak-free operation to maintain system reliability. The side mounting tubing to the coil slabs allows for easy cleaning/servicing of the coils, as well as easy access to the TXV.

Dissipation System

All models are shipped with a complete A2L (R-454B) dissipation system, which is required for installation.

Table 1 – Dissipation Parts List

Component	Location
Refrigerant Sensor	Factory Installed
Sensor Wire Harness	Factory Installed
Leak Dissipation Control Board	Parts Box
Dissipation Board Housing	Parts Box
Power Wire Harness	Parts Box

Burst Pressure

Meets or exceeds burst pressure of 2100 psi, which is at least three to five times the pressure it would see in actual application.

Serviceability

Comes with a “split delta plate” for easy, quick access to the coil for service and cleaning. Also, after the door is removed, the coil is removable from the front of the unit without use of any tools.

WARRANTY

- 5-year No Hassle Replacement limited warranty:
 - 10-year parts limited warranty with timely registration*.
 Equipment must be registered within 90 days of original installation, except in jurisdictions where warranty benefits cannot be conditioned on registration.
- * Applies to original purchaser/homeowner and not available to subsequent owners, except in jurisdictions where laws dictate otherwise.

See Warranty certificate for complete details and restrictions.

Table 2 – Accessories

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DIMENSIONS

Table 3 – Dimensions

MODEL #	A		B (CABINET WIDTH)		C (SUCTION LINE)		OPERATING WEIGHT		SHIPPING WEIGHT		SHIPPING HEIGHT		SHIPPING WIDTH		SHIPPING DEPTH	
	INCH	MM	INCH	MM	INCH	MM	Lbs	Kgs	Lbs	Kgs	INCH	MM	INCH	MM	INCH	MM
EAA5X1814A	13-5/8	346.1	13	330.2	5/8	15.9	20.0	9.1	24.0	10.9	18-5/8	472.5	15-1/8	384.4	23-3/4	603.1
EAA5X2414A	17-3/4	450.8	13	330.2	5/8	15.9	24.5	11.1	28.5	12.9	18-5/8	472.5	15-1/8	384.4	23-3/4	603.1
EAA5X2417A	17-1/4	438.2	16-5/16	414.4	5/8	15.9	27.0	12.2	31.0	14.1	18-1/8	459.7	18-7/16	468.5	23-3/4	603.1
EAA5X3014A	21-7/8	555.6	13	330.2	3/4	19.1	29.0	13.2	35.0	15.9	22-3/4	576.9	15-1/8	384.4	23-3/4	603.1
EAA5X3017A	21-7/16	544.5	16-5/16	414.4	3/4	19.1	29.0	13.2	35.0	15.9	22-1/4	566	18-7/16	468.5	23-3/4	603.1
EAA5X3617A	23-9/16	598.5	16-5/16	414.4	3/4	19.1	32.5	14.7	38.5	17.5	24-3/8	618.9	18-7/16	468.5	23-3/4	603.1
EAA5X3621A	23	584.2	19-13/16	503.2	3/4	19.1	31.5	14.3	39.5	17.9	23-13/16	605.1	21-15/16	557.4	23-3/4	603.1
EAA5X3717A	22-1/4	565.2	16-5/16	414.4	3/4	19.1	30.5	13.8	38.5	17.5	22-1/4	566	18-7/16	468.5	23-3/4	603.1
EAA5X4221A	25-1/16	636.6	19-13/16	503.2	7/8	22.2	34.0	15.4	42.0	19.0	25-15/16	658.5	21-15/16	557.4	23-3/4	603.1
EAA5X4821A	25-5/16	643.0	19-13/16	503.2	7/8	22.2	43.0	19.5	51.0	23.1	26-3/16	664.4	21-15/16	557.4	23-3/4	603.1
EAA5X4824A	24-13/16	630.2	23-5/16	592.2	7/8	22.2	45.0	20.4	53.0	24.0	25-5/8	650.8	25-7/16	646.3	23-3/4	603.1
EAA5X6024A	31-1/16	789.0	23-5/16	592.2	7/8	22.2	51.0	23.1	59.0	26.8	31-7/8	810.1	25-7/16	646.3	23-3/4	603.1
EAA5X6121A	31-1/2	800.1	19-13/16	503.2	7/8	22.2	55.5	25.2	63.5	28.8	32-3/8	822.1	21-15/16	557.4	23-3/4	603.1

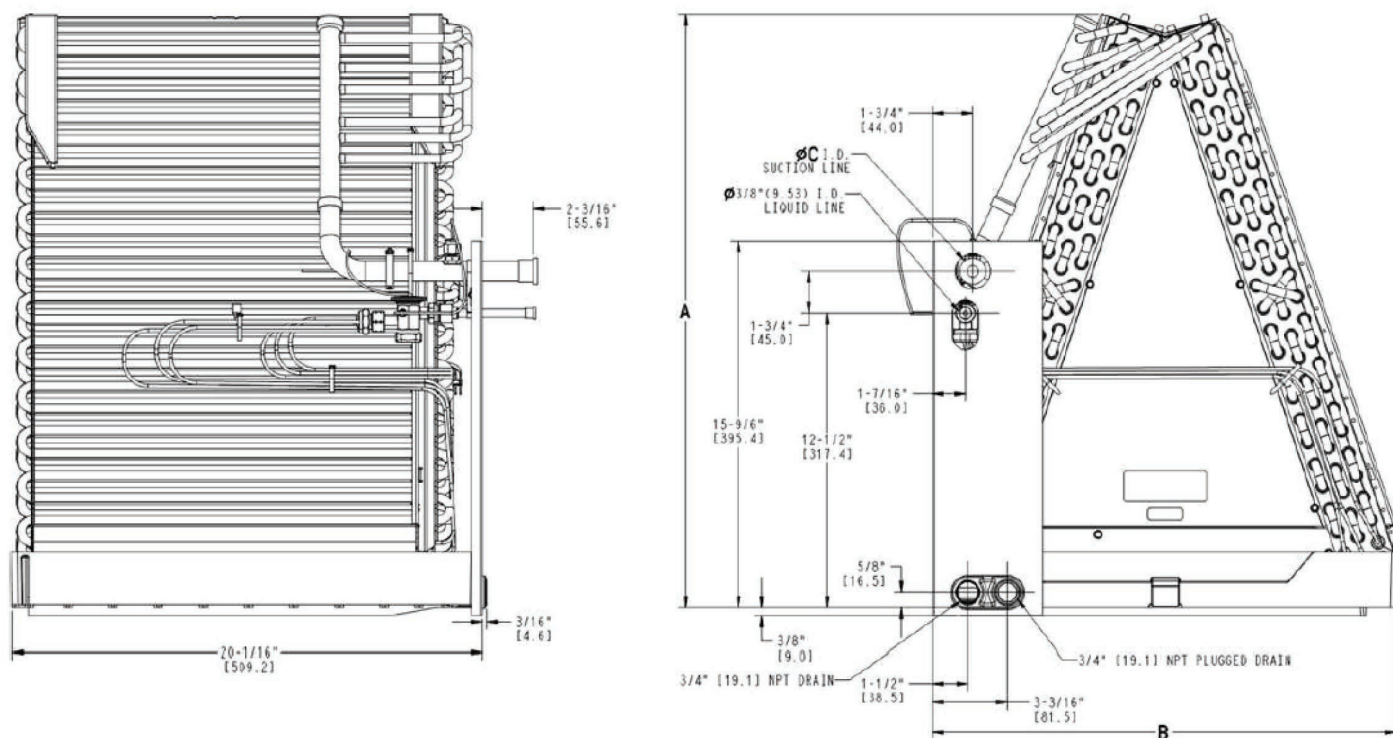


Fig. 2 – A-Coil, Side and End Views

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PERFORMANCE DATA

Definitions

EWB - Entering Wet Bulb (°F)

TC - Total Cooling Capacity (1000 Btuh)

MBH - 1000 Btuh

CFM - Cubic Feet Per Minute

LWB - Leaving Wet Bulb (°F)

BF - Bypass Factor

SNC - Sensible Heat Capacities (1000 Btuh)

Table 5 – COOLING CAPACITIES (MBH) - R-454B Refrigerant

INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 1814																
450	72	33.99	16.52	0.00	31.19	14.79	0.00	27.24	13.16	0.00	22.44	11.34	0.06	17.60	9.49	0.05
	67	27.88	16.99	0.04	24.67	15.33	0.06	20.56	13.52	0.04	16.09	11.61	0.05	11.70	9.82	0.06
	62	22.34	17.39	0.04	18.83	15.69	0.03	15.36	14.02	0.04	12.47	12.04	0.13	10.43	10.43	0.26
600	72	40.96	19.99	0.00	37.41	17.82	0.00	32.67	15.91	0.24	27.03	13.83	0.10	21.09	11.66	0.08
	67	33.73	20.75	0.08	29.82	18.79	0.10	24.85	16.69	0.08	19.69	14.59	0.07	14.23	12.43	0.08
	62	26.88	21.50	0.07	23.00	19.67	0.06	18.92	17.66	0.07	15.85	15.24	0.18	12.67	12.65	0.32
750	72	46.11	22.56	0.06	42.16	20.28	0.00	37.00	18.23	0.20	30.67	15.97	0.12	24.00	13.57	0.11
	67	38.38	23.89	0.12	33.97	21.78	0.13	28.31	19.46	0.11	22.95	17.56	0.07	16.36	14.67	0.11
	62	30.82	25.17	0.10	26.56	23.18	0.09	22.05	20.98	0.11	18.73	17.92	0.23	14.94	14.93	0.36
INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 2414																
600	72	42.71	20.16	0.00	39.29	18.26	0.00	34.54	16.29	0.12	28.99	14.08	0.07	22.76	11.76	0.05
	67	35.46	21.13	0.05	31.42	19.03	0.08	26.84	17.11	0.05	20.41	14.46	0.04	14.53	12.11	0.05
	62	28.34	21.84	0.04	23.46	19.50	0.04	19.20	17.45	0.05	16.22	15.51	0.11	13.30	13.30	0.24
800	72	50.80	23.51	0.00	45.83	21.58	0.15	40.30	19.32	0.10	33.78	16.90	0.07	26.36	14.20	0.06
	67	42.04	25.31	0.10	37.00	23.11	0.08	31.24	20.69	0.07	25.05	18.24	0.06	17.83	15.38	0.07
	62	33.81	26.81	0.07	28.20	24.28	0.06	23.71	22.13	0.07	20.31	19.30	0.17	15.17	15.17	0.35
1000	72	56.29	26.08	0.00	50.85	24.10	0.16	44.57	21.81	0.10	37.39	19.20	0.08	29.27	16.21	0.10
	67	47.00	28.79	0.13	41.50	26.48	0.11	35.25	23.94	0.10	28.25	21.33	0.09	20.43	18.16	0.10
	62	37.81	31.17	0.08	32.66	28.60	0.10	27.98	26.51	0.10	23.59	23.39	0.21	18.70	18.66	0.36
INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 2417																
600	72	41.92	20.12	0.00	38.61	18.20	0.00	33.95	16.27	0.13	28.55	14.09	0.07	22.55	11.81	0.05
	67	34.46	21.05	0.02	30.87	19.09	0.06	25.99	16.93	0.05	20.49	14.59	0.05	14.64	12.37	0.03
	62	27.89	21.80	0.04	23.53	19.71	0.03	19.22	17.60	0.04	15.75	15.36	0.11	12.61	12.60	0.27
800	72	49.74	23.54	0.00	45.45	21.50	0.00	40.12	19.32	0.17	33.78	16.96	0.10	26.74	14.37	0.08
	67	40.87	25.28	0.07	36.58	23.09	0.09	30.92	20.70	0.08	24.52	18.05	0.07	17.72	15.43	0.07
	62	33.07	26.69	0.07	28.45	24.57	0.06	23.46	22.14	0.07	19.25	18.55	0.20	16.24	16.24	0.29
1000	72	54.66	26.18	0.17	50.59	24.01	0.00	44.51	21.81	0.16	37.72	19.30	0.12	29.96	16.54	0.10
	67	45.90	28.69	0.12	40.94	26.43	0.12	34.62	23.87	0.10	27.58	21.07	0.10	20.33	18.22	0.10
	62	37.21	31.08	0.09	32.40	28.71	0.09	27.13	26.12	0.10	22.58	21.60	0.26	19.09	19.09	0.33

Table 5 – COOLING CAPACITIES (MBH) - R-454B Refrigerant (Continued)

INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 3014																
750	72	57.03	25.01	0.00	49.74	22.12	0.00	42.73	19.74	0.21	34.16	16.74	0.19	25.10	13.68	0.19
	67	46.11	26.66	0.22	39.31	23.88	0.20	31.62	20.90	0.19	23.57	18.06	0.18	16.77	14.95	0.23
	62	35.94	27.85	0.20	29.79	25.00	0.20	24.22	21.84	0.25	20.39	17.76	0.40	16.11	16.10	0.47
1000	72	66.94	28.61	0.00	58.87	26.21	0.39	49.42	23.06	0.27	39.59	19.71	0.25	28.87	16.22	0.24
	67	53.64	31.31	0.28	45.62	28.32	0.25	36.47	24.91	0.24	27.27	21.65	0.23	20.07	18.02	0.29
	62	42.05	33.66	0.24	35.14	30.20	0.26	29.64	26.28	0.33	24.65	21.39	0.46	19.50	19.50	0.51
1250	72	74.40	31.89	0.00	65.08	29.09	0.40	54.80	25.75	0.32	43.62	22.09	0.29	32.09	18.48	0.28
	67	59.78	35.34	0.32	50.44	31.95	0.30	40.22	28.29	0.28	30.34	24.80	0.27	22.89	20.51	0.35
	62	46.81	38.26	0.28	39.73	35.04	0.29	33.85	30.00	0.38	28.30	24.54	0.50	22.34	22.33	0.55
INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 3017																
750	72	49.74	24.83	0.00	44.62	22.35	0.02	38.79	19.85	0.00	32.47	17.11	0.03	25.63	14.24	0.06
	67	40.63	26.03	0.02	35.63	23.30	0.06	30.08	20.51	0.08	23.63	17.62	0.09	16.94	14.75	0.10
	62	32.84	26.66	0.09	27.63	24.03	0.08	22.30	21.00	0.11	17.63	17.69	0.20	14.32	14.32	0.32
1000	72	60.34	30.13	0.04	54.05	27.13	0.08	47.21	24.09	0.09	39.53	21.00	0.08	31.17	17.60	0.10
	67	49.45	31.92	0.07	43.35	28.64	0.11	36.44	25.42	0.11	28.60	21.98	0.11	20.64	18.56	0.13
	62	39.94	33.09	0.12	33.54	29.92	0.11	27.38	26.48	0.14	22.45	22.18	0.26	18.30	18.29	0.35
1250	72	68.65	34.08	0.20	61.51	30.74	0.18	53.77	27.52	0.15	45.36	24.28	0.12	35.53	20.44	0.13
	67	56.43	36.68	0.12	49.63	33.19	0.14	41.67	29.68	0.14	32.60	25.92	0.13	23.74	21.96	0.15
	62	45.59	38.67	0.14	38.69	35.21	0.14	31.73	31.39	0.17	26.58	26.13	0.30	21.69	21.69	0.38
INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 3617																
900	72	58.80	29.94	0.00	52.66	27.09	0.01	45.84	24.01	0.04	38.24	20.53	0.10	29.94	16.93	0.15
	67	48.62	31.72	0.09	42.61	28.28	0.14	35.48	24.68	0.16	27.95	21.14	0.18	19.84	17.53	0.20
	62	39.51	32.39	0.17	33.23	29.17	0.17	26.73	25.43	0.20	21.09	21.19	0.29	17.63	17.63	0.37
1200	72	70.59	36.27	0.02	63.15	32.65	0.08	55.17	28.97	0.12	46.11	25.02	0.15	36.21	20.86	0.18
	67	58.47	38.44	0.15	51.26	34.50	0.18	42.95	30.49	0.19	33.55	26.24	0.20	24.14	22.04	0.22
	62	47.54	39.93	0.20	40.00	36.14	0.20	32.59	31.96	0.22	26.59	26.08	0.36	21.50	21.49	0.42
1500	72	79.63	40.70	0.13	71.33	36.90	0.15	62.40	32.97	0.17	52.62	28.83	0.19	41.19	24.19	0.21
	67	66.00	43.75	0.20	58.14	39.75	0.21	48.73	35.42	0.22	38.08	30.96	0.21	27.66	25.99	0.25
	62	53.82	46.64	0.22	45.77	42.24	0.23	37.68	37.43	0.26	31.20	30.54	0.40	25.34	25.33	0.45

Table 5 – COOLING CAPACITIES (MBH) - R-454B Refrigerant (Continued)

INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 3621																
900	72	66.88	30.46	0.24	58.74	27.20	0.23	50.22	23.80	0.25	40.60	20.22	0.26	30.24	16.69	0.26
	67	54.60	32.15	0.29	46.40	28.68	0.28	37.49	25.16	0.27	27.85	21.64	0.27	19.60	17.63	0.33
	62	42.98	33.88	0.27	35.37	30.05	0.29	28.92	25.93	0.35	23.82	20.82	0.48	18.66	18.65	0.54
1200	72	78.01	35.02	0.00	68.03	31.18	0.35	58.01	27.72	0.32	46.76	23.75	0.31	34.42	19.57	0.31
	67	63.16	37.74	0.34	53.49	33.86	0.33	43.16	29.96	0.32	31.94	25.78	0.32	23.29	20.97	0.39
	62	49.67	40.28	0.32	41.41	36.29	0.34	34.44	30.87	0.42	28.66	25.07	0.53	22.44	22.43	0.58
1500	72	85.92	38.60	0.45	75.02	34.57	0.40	64.29	31.00	0.36	51.64	26.68	0.35	37.79	22.11	0.35
	67	69.81	42.39	0.38	59.15	38.28	0.36	47.66	34.12	0.35	35.50	29.45	0.36	26.38	23.72	0.44
	62	54.86	45.61	0.37	46.43	41.18	0.39	39.42	34.94	0.47	32.86	28.00	0.58	25.59	25.58	0.61
INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 3717																
900	72	66.65	33.05	0.00	60.93	30.22	0.04	54.05	27.10	0.03	46.03	23.74	0.02	36.90	20.08	0.03
	67	55.27	34.55	0.00	49.07	31.31	0.03	41.77	27.91	0.03	33.81	24.16	0.05	25.02	20.56	0.05
	62	44.68	35.50	0.02	38.53	32.39	0.02	30.99	28.42	0.05	24.88	24.59	0.12	20.28	20.28	0.26
1200	72	81.37	39.91	0.00	74.09	36.64	0.00	65.83	33.17	0.08	56.34	29.38	0.05	45.34	25.20	0.04
	67	67.35	42.43	0.05	59.96	38.95	0.05	51.39	35.14	0.04	41.35	30.84	0.04	30.11	26.07	0.06
	62	54.64	44.55	0.04	47.11	40.76	0.04	38.25	36.01	0.07	31.46	31.03	0.17	26.37	26.37	0.28
1500	72	91.04	45.18	0.16	84.13	41.81	0.21	75.03	38.15	0.11	64.27	34.13	0.07	51.94	29.58	0.06
	67	76.61	49.14	0.07	68.41	45.44	0.06	58.82	41.32	0.05	47.61	36.71	0.05	34.77	31.00	0.08
	62	62.41	52.52	0.05	54.01	48.12	0.06	44.96	43.20	0.09	37.59	36.80	0.21	31.09	31.05	0.32
INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 4221																
1050	72	78.40	36.36	0.22	68.20	31.94	0.27	57.99	27.82	0.30	46.52	23.44	0.32	34.24	19.06	0.33
	67	63.71	37.89	0.33	53.85	33.58	0.34	43.19	29.22	0.34	31.92	25.03	0.34	22.03	19.92	0.40
	62	50.25	39.90	0.33	41.12	34.98	0.36	33.36	29.77	0.43	27.10	23.56	0.55	21.00	20.99	0.59
1400	72	91.12	41.84	0.34	79.56	37.18	0.35	67.22	32.53	0.35	53.61	27.50	0.37	39.38	22.57	0.37
	67	73.95	44.58	0.38	62.18	39.66	0.38	49.76	34.77	0.38	36.63	29.75	0.38	26.49	23.80	0.46
	62	58.06	47.35	0.38	48.14	42.11	0.40	40.09	35.60	0.48	32.74	28.59	0.58	25.30	25.29	0.62
1750	72	100.61	46.28	0.40	88.04	41.37	0.40	74.33	36.44	0.39	59.32	30.95	0.40	43.14	25.43	0.41
	67	81.97	50.23	0.42	69.11	45.00	0.42	55.05	39.62	0.41	40.81	33.97	0.42	30.02	26.93	0.51
	62	64.42	53.63	0.42	54.08	47.83	0.45	45.72	40.31	0.53	37.76	33.49	0.60	28.91	28.90	0.65

Table 5 – COOLING CAPACITIES (MBH) - R-454B Refrigerant (Continued)

INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 4821																
1200	72	82.04	40.07	0.00	75.60	36.07	0.00	66.14	32.53	0.00	56.22	28.73	0.13	44.82	24.36	0.09
	67	68.03	42.46	0.14	60.16	38.58	0.12	51.08	34.62	0.09	40.72	30.15	0.08	29.23	25.40	0.08
	62	54.60	44.52	0.08	46.59	40.50	0.08	37.39	35.62	0.10	30.81	30.90	0.18	24.92	24.92	0.30
1600	72	97.29	45.49	0.00	87.98	42.49	0.00	77.77	38.70	0.25	66.15	34.31	0.16	52.92	29.43	0.13
	67	79.77	50.48	0.18	70.77	46.47	0.15	60.33	42.02	0.12	48.42	37.06	0.11	34.93	31.41	0.12
	62	64.42	54.16	0.12	55.23	49.58	0.12	45.52	44.47	0.13	37.90	37.73	0.25	31.75	31.75	0.33
2000	72	106.47	50.88	0.00	97.26	47.53	0.00	86.30	43.51	0.24	73.62	38.88	0.18	59.03	33.65	0.16
	67	88.47	57.11	0.20	78.71	52.97	0.17	67.27	48.25	0.15	54.09	42.91	0.14	39.65	36.78	0.16
	62	71.67	62.45	0.14	61.88	57.22	0.15	52.51	52.34	0.17	44.33	43.77	0.30	37.31	37.31	0.37
INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 4824																
1200	72	82.04	40.07	0.00	75.60	36.07	0.00	66.14	32.53	0.00	56.22	28.73	0.13	44.82	24.36	0.09
	67	68.03	42.46	0.14	60.16	38.58	0.12	51.08	34.62	0.09	40.72	30.15	0.08	29.23	25.40	0.08
	62	54.60	44.52	0.08	46.59	40.50	0.08	37.39	35.62	0.10	30.81	30.90	0.18	24.92	24.92	0.30
1600	72	97.29	45.49	0.00	87.98	42.49	0.00	77.77	38.70	0.25	66.15	34.31	0.16	52.92	29.43	0.13
	67	79.77	50.48	0.18	70.77	46.47	0.15	60.33	42.02	0.12	48.42	37.06	0.11	34.93	31.41	0.12
	62	64.42	54.16	0.12	55.23	49.58	0.12	45.52	44.47	0.13	37.90	37.73	0.25	31.75	31.75	0.33
2000	72	106.47	50.88	0.00	97.26	47.53	0.00	86.30	43.51	0.24	73.62	38.88	0.18	59.03	33.65	0.16
	67	88.47	57.11	0.20	78.71	52.97	0.17	67.27	48.25	0.15	54.09	42.91	0.14	39.65	36.78	0.16
	62	71.67	62.45	0.14	61.88	57.22	0.15	52.51	52.34	0.17	44.33	43.77	0.30	37.31	37.31	0.37
INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 6024																
1500	72	106.04	51.76	0.00	95.27	46.50	0.00	82.97	41.13	0.18	69.58	35.69	0.09	54.31	29.74	0.08
	67	86.48	54.03	0.10	75.60	48.69	0.08	63.39	42.81	0.09	49.88	36.91	0.08	35.17	30.64	0.10
	62	68.57	55.62	0.07	57.67	49.76	0.09	46.75	43.90	0.11	37.68	37.72	0.18	30.68	30.68	0.30
2000	72	127.46	61.02	0.00	114.85	56.03	0.00	100.44	50.33	0.15	83.66	43.70	0.11	64.87	36.39	0.10
	67	104.42	65.55	0.15	91.43	59.54	0.13	76.54	52.85	0.12	59.95	45.84	0.11	42.58	38.67	0.12
	62	83.69	68.68	0.12	70.34	62.14	0.11	56.53	54.88	0.13	47.35	47.18	0.23	37.24	37.24	0.36
2500	72	144.87	68.38	0.00	129.80	63.34	0.00	113.88	57.34	0.19	95.13	50.25	0.14	73.98	42.26	0.13
	67	118.40	75.16	0.18	104.04	68.73	0.16	87.74	61.70	0.15	68.54	53.91	0.13	48.95	45.54	0.15
	62	95.41	80.19	0.15	80.55	72.86	0.14	66.30	65.12	0.17	57.24	53.79	0.33	43.33	43.33	0.40

Table 5 – COOLING CAPACITIES (MBH) - R-454B Refrigerant (Continued)

INDOOR COIL AIR		SATURATED TEMPERATURE LEAVING EVAPORATOR (deg F)														
		35			40			45			50			55		
CFM	EWB	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF	TC	SHC	BF
SIZE 6121																
1500	72	112.11	55.08	0.00	101.70	49.99	0.02	89.58	44.70	0.00	75.64	39.01	0.00	60.50	32.81	0.03
	67	92.62	57.34	0.00	81.73	51.72	0.03	69.28	45.84	0.04	55.22	39.68	0.04	40.13	33.48	0.05
	62	74.69	58.45	0.04	63.29	52.60	0.05	51.17	46.56	0.06	40.87	39.92	0.14	33.94	33.93	0.27
2000	72	136.71	66.82	0.00	123.80	60.91	0.11	109.34	54.72	0.07	93.11	48.24	0.05	74.27	41.10	0.05
	67	113.10	70.55	0.05	100.14	64.26	0.06	85.10	57.60	0.05	67.64	50.26	0.05	49.20	42.68	0.06
	62	91.55	73.55	0.05	77.91	66.58	0.06	63.46	59.20	0.08	52.22	50.85	0.18	42.81	42.72	0.31
2500	72	155.68	76.12	0.00	141.46	69.96	0.13	125.41	63.39	0.10	106.83	56.23	0.07	85.68	48.45	0.06
	67	129.41	81.91	0.08	114.66	75.25	0.07	97.99	67.94	0.07	78.43	59.92	0.06	57.24	51.14	0.08
	62	104.93	86.59	0.07	90.39	79.22	0.08	74.33	70.77	0.10	62.17	59.97	0.23	51.13	51.02	0.34

Coil Static Pressure Drop (IN. WC.) - R-454B Refrigerant**Table 6 – COIL STATIC PRESSURE DROP (IN. WC.) - R-454B REFRIGERANT**

Unit Size	STANDARD CFM																			
	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	
1814	Dry																			
	0.079	0.111	0.145	0.186	0.232															
	Wet																			
	0.083	0.116	0.151	0.196	0.243															
2414	Dry																			
	0.065	0.091	0.120	0.154	0.194	0.237	0.284													
	Wet																			
	0.066	0.094	0.124	0.161	0.203	0.250	0.301													
2417	Dry																			
	0.056	0.076	0.097	0.123	0.151	0.182	0.215													
	Wet																			
	0.060	0.082	0.105	0.132	0.163	0.195	0.231													
3014	Dry																			
	0.054	0.077	0.102	0.133	0.167	0.206	0.248	0.296	0.347											
	Wet																			
	0.059	0.084	0.111	0.142	0.181	0.223	0.269	0.319	0.375											
3017	Dry																			
	0.043	0.059	0.077	0.096	0.119	0.144	0.171	0.201	0.232											
	Wet																			
	0.046	0.063	0.083	0.105	0.130	0.157	0.186	0.219	0.252											
3617	Dry																			
	0.023	0.036	0.052	0.069	0.089	0.110	0.135	0.160	0.189	0.219	0.251									
	Wet																			
	0.042	0.058	0.076	0.095	0.117	0.142	0.169	0.198	0.231	0.265	0.299									
3621	Dry																			
	0.026	0.037	0.050	0.062	0.077	0.092	0.109	0.128	0.148	0.170	0.193									
	Wet																			
	0.029	0.040	0.053	0.065	0.082	0.099	0.119	0.138	0.160	0.185	0.209									
3717	Dry																			
	0.077	0.099	0.124	0.152	0.182	0.216	0.253	0.294	0.338											
	Wet																			
	0.088	0.113	0.137	0.170	0.209	0.247	0.287	0.326	0.368											
4221	Dry																			
			0.044	0.056	0.068	0.082	0.099	0.119	0.138	0.161	0.183	0.205	0.233							
	Wet																			
			0.058	0.073	0.089	0.106	0.125	0.143	0.165	0.189	0.213	0.239	0.268							
4821	Dry																			
			0.055	0.072	0.089	0.107	0.128	0.150	0.175	0.199	0.228	0.257	0.288	0.321	0.356					
	Wet																			
			0.058	0.075	0.094	0.115	0.136	0.161	0.188	0.217	0.247	0.279	0.313	0.347	0.386					
4824	Dry																			
			0.044	0.056	0.069	0.084	0.100	0.118	0.137	0.159	0.180	0.198	0.222	0.247	0.275					
	Wet																			
			0.052	0.065	0.080	0.095	0.112	0.131	0.150	0.171	0.193	0.214	0.241	0.270	0.296					
6024	Dry																			
					0.073	0.083	0.095	0.107	0.120	0.136	0.152	0.169	0.184	0.203	0.217	0.238	0.260	0.283	0.307	
	Wet																			
					0.076	0.086	0.098	0.110	0.124	0.140	0.157	0.175	0.193	0.215	0.238	0.261	0.286	0.314	0.342	
6121	Dry																			
						0.111	0.133	0.153	0.163	0.204	0.234	0.262	0.293	0.326	0.366	0.392	0.437	0.48	0.52	
	Wet																			
						0.13	0.15	0.183	0.21	0.245	0.28	0.32	0.355	0.4	0.435	0.48	0.525	0.57	0.63	

Cooling Capacity Notes

NOTE:

- Contact manufacturer for cooling capacities at conditions other than shown in the table.
- Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

$$\text{Leaving wb} = \text{wb corresponding to enthalpy of air leaving coil (hlwb)}$$

$$\text{hlwb} = \text{hewb} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$$

Where hewb = enthalpy of air entering coil.
 Direct interpolation is permissible. Do not extrapolate.
- SHC is based on 80°F (27°C) db temperature of air entering coil. Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC.
 Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
- Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.
- Fan motor heat has not been deducted.
- All data points are based on 10°F superheat leaving coil and use of thermostatic expansion valve (TXV) device.
- All units have sweat suction-tube connection and a liquid-tube connection. For 1-1/8-in. system suction tube, 3/4 x 1-1/8 in. suction tube connection adapter is available as accessory.
- The WLAU**4 coils can be used in any properly designed system using R-410A refrigerant.
- The WLAU**2 coils can be used in any properly designed system using R-22 refrigerant.
- Before using maximum CFM shown in table, check coil static pressure drop to ensure system blower can provide necessary static pressure needed for coil and duct systems.
- Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

BYPASS FACTOR	ENTERING AIR DRY BULB TEMPERATURE °F					
	79	78	77	76	75	Under 75
	81	82	83	84	84	Above 85
	Correction Factor					
010	0.98	1.96	2.94	3.92	4.91	Use formula shown below
0.20	0.87	1.74	2.62	3.49	4.36	
0.30	0.76	1.53	2.29	3.05	3.82	

Interpolation is permissible.

Correction Factor = $1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$