

Split System Enhanced Air Conditioner

18
seer

4AC18LT Features and Benefits

D4AC18LT-100 (09/2010)

COMPRESSOR

- High-efficiency 2 stage Copeland UltraTechTM scroll compressor
- R410a refrigerant
- Grommet-mounted compressor for quiet operation
- Internally protected against high temperature motor overload conditions
- Heavy-duty compressor sound blanket for quiet operation

CABINET

- Full metal louvered panels remove with just two screws per panel for easy coil cleaning and service
- Controls located in corner post for easy installation and service
- Rounded corners for safety and attractive, clean appearance
- Baked polyester paint finish over galvanized steel for maximum durability
- PVC coated wire fan discharge grill
- External gauge ports for easy service

COILS

- Enhanced aluminum fins and copper tubing for higher efficiency and capacity
- Raised coil prevents debris from collecting in bottom of coil and causing loss of airflow

DESIGN

- Designed for ambients up to 125°F



COMPONENTS

- Service valves positioned for quick installation and easy service
- Variable speed condenser fan motor with swept-wing fan blade
- High and low pressure switches factory installed
- Comfort Alert 2TM diagnostics is factory installed
- Trade available components
- Factory installed crank case heater

WARRANTY

- 10 year limited warranty on compressor, 10 year limited warranty on all parts, extended warranty available*

*Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. Lifetime limited heat exchanger warranty applies to registered equipment only (Standard 20 years with no online registration). See full warranty at www.alliedair.com for terms, conditions and exclusions.

Model Number Guide

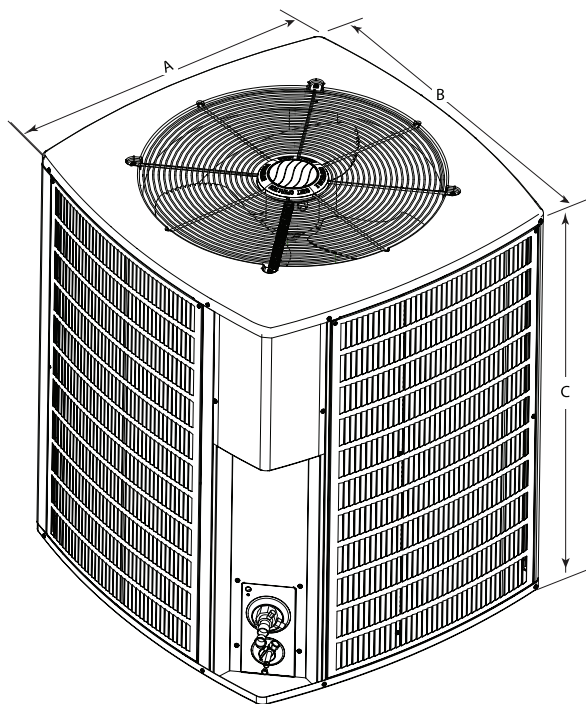
4	AC	18	LT	24	P	-	1	A
4 - R410	Split Condensing Unit	18 - 18 SEER Nominal	Louvered Two Stage	24 - 24,000 Btuh	P - 208-230v/60hz1Ph		1 - Major Revision Code	A - Minor Revision Code

Electrical and Physical Data

Model	Voltage/Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Over current Device (amps)	Compressor		Fan Motor			Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (amps)	Locked Rotor (amps)	Rated Load (amps)	Rated HP	Nom. RPM		
4AC18LT24-1	230/60/1	216 - 253	15.6	25	10.2	52.0	.7	1/3	825	302	297
4AC18LT36-1	230/60/1	216 - 253	23.7	40	16.6	82.0	.6	1/3	825	240	297
4AC18LT48-1	230/60/1	216 - 253	29.3	50	21.1	96.0	.8	1/3	825	252	297
4AC18LT60-1	230/60/1	216 - 253	34.4	60	25.6	118.0	.8	1/3	825	244	321

Dimensions (in.) and Sound Ratings

Model No.	A	B	C	Sound Rating dBA
4AC18LT24-1	37.66	35.66	44	72
4AC18LT36-1	37.66	35.66	44	75
4AC18LT48-1	37.66	35.66	44	77
4AC18LT60-1	37.66	35.66	44	77



Cooling Performance with Blowers

Outdoor Number	Indoor Model	SEER	EER	ARI Capacity	Rated Sensible Capacity	CFM	Refrigeration Connections		Line Size		Required Indoor Metering
							Suction	Liquid	Suction	Liquid	
4AC18LT24-1	CG95C****V12B/E(U,C,M,H)1P43B	18.00	13.00	26,000	20,000	900	7/8	3/8	7/8	3/8	A4TXV01
	CG95C****V12B/E(U,C,M)1P30B	17.75	12.90	25,600	19,700	900	7/8	3/8	7/8	3/8	A4TXV01
	CG95C****V14B/E(U,C,M,H)1P43B	18.00	13.00	26,000	20,000	900	7/8	3/8	7/8	3/8	A4TXV01
	CG95C****V14B/E(U,C,M)1P30B	17.75	12.90	25,600	19,700	900	7/8	3/8	7/8	3/8	A4TXV01
	CG80C****V12B/E(U,C,M,H)1P43B	18.00	13.00	26,000	20,000	900	7/8	3/8	7/8	3/8	A4TXV01
	CG80C****V12B/E(U,C,M)1P30B	17.75	12.90	25,600	19,700	900	7/8	3/8	7/8	3/8	A4TXV01
	CG80C****V14B/E(U,C,M,H)1P43B	18.00	13.00	26,000	20,000	900	7/8	3/8	7/8	3/8	A4TXV01
	CG80C****V14B/E(U,C,M)1P30B	17.75	12.90	25,600	19,700	900	7/8	3/8	7/8	3/8	A4TXV01
	EFV08BC/E(U,C,M,H)1P43B	18.00	13.00	26,000	20,000	900	7/8	3/8	7/8	3/8	A4TXV01
	EFV08BC/E(U,C,M)1P30B	17.75	12.90	25,600	19,700	900	7/8	3/8	7/8	3/8	A4TXV01
	BCS2M36V00NA1P-1	18.00	13.00	26,000	20,000	800	7/8	3/8	7/8	3/8	A4TXV01
4AC18LT36-1	CG95C****V16C/E(U,C,H)1P62C	18.00	12.50	36,000	27,000	1200	7/8	3/8	7/8	3/8	A4TXV01
	CG95C****V12B/E(U,C,M,H)1P43B	17.75	12.40	35,600	26,700	1200	7/8	3/8	7/8	3/8	A4TXV01
	CG95C****V12B/E(U,C,M)1P30B	17.50	11.90	34,000	25,500	1200	7/8	3/8	7/8	3/8	A4TXV01
	CG95C****V14B/E(U,C,M,H)1P43B	17.75	12.40	35,400	26,700	1200	7/8	3/8	7/8	3/8	A4TXV01
	CG95C****V14B/E(U,C,M)1P30B	17.50	11.90	34,000	25,500	1200	7/8	3/8	7/8	3/8	A4TXV01
	CG80C****V12B/E(U,C,M,H)1P43B	17.75	12.40	35,600	26,700	1200	7/8	3/8	7/8	3/8	A4TXV01
	CG80C****V12B/E(U,C,M)1P30B	17.50	11.90	34,000	25,500	1200	7/8	3/8	7/8	3/8	A4TXV01
	CG80C****V14B/E(U,C,M,H)1P43B	17.75	12.40	35,600	26,700	1200	7/8	3/8	7/8	3/8	A4TXV01
	CG80C****V14B/E(U,C,M)1P30B	17.50	11.90	34,000	25,500	1200	7/8	3/8	7/8	3/8	A4TXV01
	EFV16CC/E(U,C,H)1P62C	18.00	13.00	36,000	27,000	1200	7/8	3/8	7/8	3/8	A4TXV01
	EFV12BC/E(U,C,M,H)1P43B	17.75	12.40	35,600	26,700	1200	7/8	3/8	7/8	3/8	A4TXV01
	EFV12BC/E(U,C,M)1P30B	17.50	11.90	34,000	25,500	1200	7/8	3/8	7/8	3/8	A4TXV01
	BCS2M48V00NA1P-1	18.00	13.00	36,000	27,000	1200	7/8	3/8	7/8	3/8	A4TXV01
4AC18LT48-1	CG95C****V20D/E(U,C,H)1P62D	15.50	12.00	47,000	34,800	1600	7/8	3/8	1-1/8	3/8	H4TXV03
	CG95C****V20D/E(U,C,M)1P48D	15.40	11.70	46,000	34,000	1600	7/8	3/8	1-1/8	3/8	H4TXV03
	CG95C****V20C/E(U,C,H)1P62C	15.50	12.00	47,000	34,800	1600	7/8	3/8	1-1/8	3/8	H4TXV03
	CG95C****V20C/E(U,C,M)1P48C	15.40	11.70	46,000	34,000	1600	7/8	3/8	1-1/8	3/8	H4TXV03
	CG80C****V20D/E(U,C,H)1P62D	15.40	12.00	47,000	34,800	1600	7/8	3/8	1-1/8	3/8	H4TXV03
	CG80C****V20D/E(U,C,M)1P48D	15.10	11.70	46,000	34,000	1600	7/8	3/8	1-1/8	3/8	H4TXV03
	CG80C****V20C/E(U,C,H)1P62C	15.40	12.00	47,000	34,800	1600	7/8	3/8	1-1/8	3/8	H4TXV03
	CG80C****V20C/E(U,C,M)1P48C	15.10	11.70	46,000	34,000	1600	7/8	3/8	1-1/8	3/8	H4TXV03
	EFV20DC/E(U,C,H)1P62D	15.50	12.00	47,000	34,800	1600	7/8	3/8	1-1/8	3/8	H4TXV03
	EFV16DC/E(U,C,M)1P48D	15.50	11.70	46,000	34,000	1600	7/8	3/8	1-1/8	3/8	H4TXV03
	BCS2M48V00NA1P-1	15.10	12.00	47,000	34,800	1600	7/8	3/8	1-1/8	3/8	H4TXV03
4AC18LT60-1	CG95C****V20D/E(U,C,H)1P62D	15.50	11.50	58,500	42,200	1800	7/8	3/8	1-1/8	3/8	H4TXV03
	CG95C****V20C/E(U,C,H)1P62C	15.50	11.50	58,500	42,200	1800	7/8	3/8	1-1/8	3/8	H4TXV03
	CG80C****V20D/E(U,C,H)1P62D	15.50	11.50	58,500	42,200	1800	7/8	3/8	1-1/8	3/8	H4TXV03
	CG80C****V20C/E(U,C,H)1P62C	15.20	11.50	58,500	42,200	1800	7/8	3/8	1-1/8	3/8	H4TXV03
	EFV20DD/E(U,C,H)1P62D	15.50	11.50	58,500	42,200	1800	7/8	3/8	1-1/8	3/8	H4TXV03
	BCS2M60V00NA1P-1	15.50	11.40	58,000	41,800	1800	7/8	3/8	1-1/8	3/8	H4TXV03

Cooling Performance with Air Handlers and Furnaces

Outdoor Model	Indoor Model		SEER	EER	AHRI Rated Capacity ¹ BTUH	Sensible Rated Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
	Evaporator Coil or Air Handler ³	Vairable Speed Furnace						Outdoor		Indoor		Suction	Liquid	Piston ²	TXV
								Suction	Liquid	Suction	Liquid				
4AC18LT124P	E(U,C,M)1P30A	A80UH2V070A12	17.5	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M)1P30B	A80UH2V090B16	18.0	13.0	24,000	18,500	900	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A80UH2V090B16	18.0	13.0	24,000	18,500	900	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
4AC18LT136P	E(U,C,M,H)1P36A	A80UH2V070A12	16.5	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80UH2V090B16	16.5	12.0	36,000	27,000	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A80UH2V090B16	17.0	12.5	36,000	27,000	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
4AC18LT148P	E(U,C,H)1P49C	A80UH2V110C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	H4TXV03
	E(U,C,H)1P62C	A80UH2V110C20	15.5	12.0	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	H4TXV03
	E(U,C,M)1P48C	A80UH2V110C20	14.5	11.5	47,000	34,800	1600	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	H4TXV03
4AC18LT160P	E(U,C,H)1P49C	A80UH2V110C20	15.0	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	H4TXV03
	E(U,C,H)1P62C	A80UH2V110C20	15.0	12.0	57,500	42,000	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	H4TXV03

Note:

- 1 Certified in accordance with Unitary Air Conditioner Certification Program, which is based on AHRI Standard 210/240.
- 2 Required to achieve AHRI rating. If NA (Not Applicable) is in the piston column, then TXV is required.
- 3 A blower time delay relay is standard on all Allied Air Enterprises furnaces and AH products.

Cooling Performance Extended Ratings

Outdoor Model	Indoor Model	Indoor Temp DB/WB °F	Outdoor Temp - DB°F														
			65			82			95			105			115		
			Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW
4AC18LT24-1	EC1P43B+EFV08 EC1P43B+CG95C****V12B EC1P43B+CG95C****V14B	85/72	33,100	.65	1.43	30,400	.68	1.77	28,300	.71	2.03	26,700	.73	2.23	25,100	.75	2.43
		80/67	30,400	.72	1.40	27,900	.75	1.74	26,000	.77	2.00	24,500	.79	2.20	23,100	.80	2.40
		75/63	28,500	.76	1.38	26,000	.77	1.72	24,100	.78	1.98	22,600	.79	2.18	21,200	.80	2.38
4AC18LT36-1	EFV12BC/E(U,C,M)1P43B EC1P43B+CG95C****V14B	85/72	45,900	.64	2.19	42,100	.69	2.60	39,200	.73	2.92	37,000	.75	3.17	34,700	.78	3.42
		80/67	42,200	.72	2.14	38,700	.76	2.56	36,000	.79	2.88	33,900	.81	3.13	31,800	.84	3.37
		75/63	39,800	.76	2.11	36,100	.78	2.53	33,300	.80	2.85	31,100	.82	3.09	29,000	.83	3.34
4AC18LT48-1	EC1P62D+EFV20 EC1P62D+CG95C****V20D EC1P62C+CG95C****V20C	85/72	58,800	.62	2.99	54,500	.67	3.55	51,200	.71	3.98	48,700	.73	4.31	46,100	.76	4.64
		80/67	54,200	.70	2.93	50,100	.74	3.49	47,000	.77	3.92	44,600	.79	4.25	42,200	.82	4.58
		75/63	50,900	.74	2.89	46,700	.76	3.45	43,500	.78	3.88	41,000	.80	4.21	38,600	.81	4.54
4AC18LT60-1	EC1P62D+EFV20 EC1P62C+CG95C****V20C EC1P62C+CG95C****V20D	85/72	67,800	.62	4.18	64,600	.66	4.81	63,100	.68	5.07	59,900	.70	5.24	55,500	.71	5.48
		80/67	63,900	.64	4.01	60,900	.68	4.61	59,400	.70	4.86	56,400	.73	5.07	52,300	.73	5.25
		75/63	59,200	.71	3.86	56,400	.72	4.43	55,000	.75	4.66	52,300	.78	4.86	48,400	.78	5.04

* All ratings are with required indoor variable speed matches.
Extended data shown is actual for models listed and typical for all AHRI matches.

Accessories

Kit Number	Description	Used with
93G35	Freezestats (3/8")	All 4AC18LT's
50A93	Freezestats (5/8")	All 4AC18LT's
47J27	Timed Off Control	All 4AC18LT's
10J42	Hard Start Kit 1.5 — 3.5 ton	4AC18LT24-36
81J69	Hard Start Kit 4 — 5 ton	4AC18LT48-60
34M72	Low Ambient	All 4AC18LT's
40K58	Blower Off Delay Kit	All 4AC18LT's
1.851361	TXV kit A4TXV01	4AC18LT24-36
1.851365	TXV kit H4TXV03	4AC18LT48-60

All specifications and illustrations
subject to change without notice
and without incurring obligations.

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Proper sizing and installation of
equipment is critical to achieve
optimal performance. Split system
air conditioners and heat pumps must
be matched with appropriate coil
components to meet ENERGY STAR
criteria. Ask your contractor for details
or visit www.energystar.gov