16 SEER Split System Enhanced Air Conditioning

4SCU16LT

FORM NO. A4SCU16LT-100 (09/2012)

COMPRESSOR

- High-efficiency 2 stage Copeland UltraTech™ 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 grille
- External gauge ports for easy service

COILS

- Enhanced aluminum fins and copper tubing for higher efficency 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
- High and low pressure switches factory installed
- Comfort Alert 2™ diagnostics is factory installed
- Trade available components
- Factory installed crank case heater
- Charged for 15 ft. of line set

ENERGY STAR

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

INTERTEK ETL LISTED C US

AHRI CERTIFIED www.ahridirectory.org Unitary Small AC AHRI Standard 210/240

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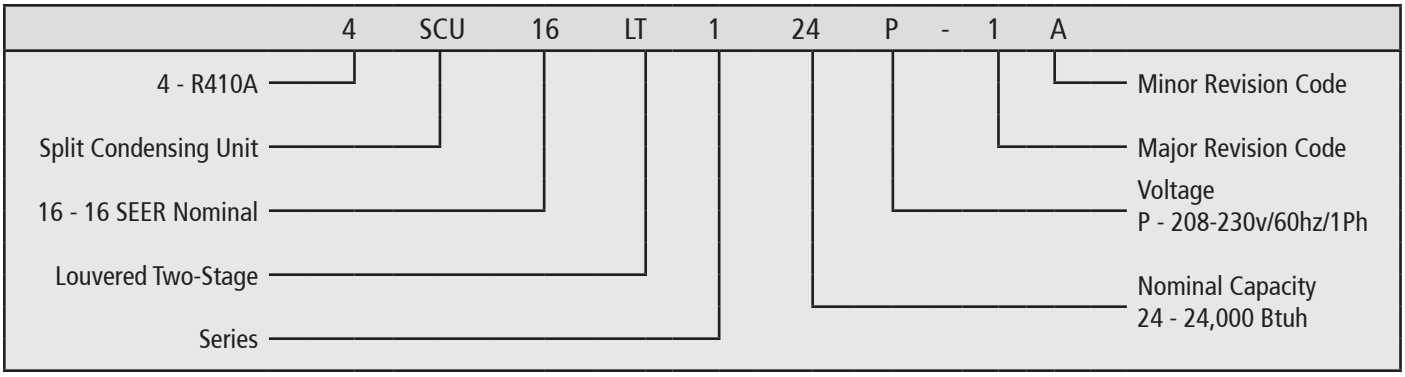
WARRANTY

- 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



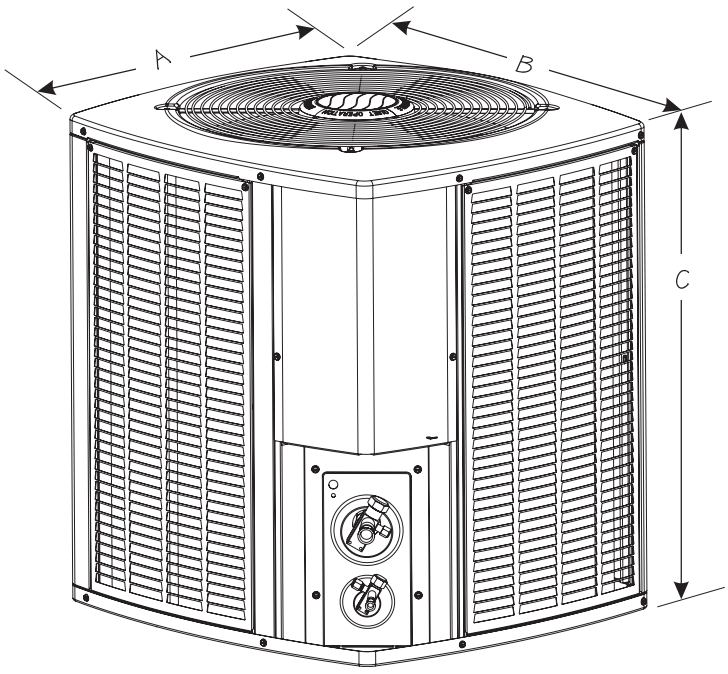
Physical and Electrical

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		
4SCU16LT124P-1	230/60/1	197 - 253	13.9	20	11.4	52.0	1.1	1/5	1075	117	200
4SCU16LT136P-1	230/60/1	197 - 253	21.9	35	19.0	82.0	1.1	1/6	825	137	230
4SCU16LT148P-1	230/60/1	197 - 253	28.1	45	24.0	96.0	1.1	1/6	825	180	262
4SCU16LT160P-1	230/60/1	197 - 253	33.8	55	26.0	118.0	1.7	1/4	825	214	310

Note: For applications below 230V, use of a Hard Start Kit is recommended.

Sound Ratings

Model No.	Sound Rating dBA
4SCU16LT124P-1	74
4SCU16LT136P-1	74
4SCU16LT148P-1	76
4SCU16LT160P-1	76



Dimensions (in.)

Model No.	A	B	C
4SCU16LT124P-1	24-3/4	26-3/4	29-3/4
4SCU16LT136P-1	29-3/8	31-1/4	29-3/4
4SCU16LT148P-1	29-3/8	31-1/4	37-3/4
4SCU16LT160P-1	29-3/8	31-1/4	43-3/4

Cooling Performance with Evaporator Coils

Outdoor Model	Indoor Model	SEER	EER	AHRI Rated Capacity[1] BTUH	Sensible Rated Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
							Outdoor		Indoor					
	Evaporator Coil or Air Handler [3]						Suction	Liquid	Suction	Liquid	Suction	Liquid	Piston[2]	TXV
4SCU16LT124P-1*	E(U,C,M,H)1P36A,B,C	14.00	11.50	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
4SCU16LT136P-1*	E(U,C,M,H)1P36A,B,C	14.00	11.00	34,400	25,800	1200	3/4	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B,C	14.00	11.00	35,000	26,300	1200	3/4	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
4SCU16LT148P-1*	E(U,C)1P62C	14.00	11.00	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C)1P62D	14.00	11.00	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	EH1P62C,D	14.00	11.00	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
4SCU16LT160P-1*	E(U,C)1P62C	14.00	11.00	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02

* All matches must be with variable speed air systems - The furnace must be able to provide first and second stage air flows, (or only run at high speed)

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 required to achieve AHRI rating. This feature is standard on all Allied Air Enterprises Furnace and AH products

Cooling Performance with Air Handlers and Furnaces 24

Outdoor Model	Indoor Model		SEER	EER	AHRI Rated Capacity[1] BTUH	Sensible Rated Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
								Outdoor		Indoor					
	Evaporator Coil or Air Handler [3]	Vairable Speed Furnace						Suction	Liquid	Suction	Liquid	Suction	Liquid	Piston[2]	TXV
4SCU16LT 124P-1	BCS2M24V00NA1P		15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	BCS2M36V00NA1P		15.5	12.5	24,000	18,000	800	3/4	3/8	7/8	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	EFV08BC	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,M,H)1P29B	EFV08BC	15.5	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P29A	A80DF1E045A12	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36A	A80DF1E045A12	15.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P29B	A80DF1E070B12	14.5	11.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80DF1E070B12	14.5	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P29A	A80DF2V070A12	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36A	A80DF2V070A12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80DF2V090B16	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,M,H)1P29B	A80DF2V090B16	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P29A	A80UH1E045A12*	15.5	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36A	A80UH1E045A12*	15.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P29B	A80UH1E070B12*	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80UH1E070B12*	14.5	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P29A	A80UH2V070A12	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36A	A80UH2V070A12	15.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80UH2V090B12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,M,H)1P29B	A80UH2V090B12	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80UH2V090B16	15.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,M,H)1P29B	A80UH2V090B16	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P29B	A95DF1E045B12S	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A95DF1E045B12S	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P29B	A95DF2V045B12S	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A95DF2V045B12S	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P29B	A95UH1E045B12S	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A95UH1E045B12S	15.0	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01

Note:

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Cooling Performance with Air Handlers and Furnaces 24, 36

Outdoor Model	Indoor Model		SEER	EER	AHRI Rated Capacity[1] BTUH	Sensible Rated Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
								Outdoor		Indoor					
	Evaporator Coil or Air Handler [3]	Vairable Speed Furnace						Suction	Liquid	Suction	Liquid	Suction	Liquid	Piston[2]	TXV
4SCU16LT 124P-1	E(U,C,M,H)1P29B	A95UH1E070B12S	14.5	11.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A95UH1E070B12S	14.5	12.0	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P29B	A95UH2V045B12S	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A95UH2V045B12S	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P29B	A95UH2V070B12S	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A95UH2V070B12S	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A95UH2V090C12S	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A96DFMV070B12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,M,H)1P29B	A96DFMV070B12	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A96UHMV070B12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,M,H)1P29B	A96UHMV070B12	16.0	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A96UHMV090C12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	LBR,LUF*****V14	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	LHF,LHR,LUF*****V12	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	LUF,LBF,LBR*****V14	15.5	12.5	24,000	18,000	800	3/4	3/8	3/4	3/8	3/4	3/8	NA	A4TXV01
4SCU16LT 136P-1	BCS2M36V00NA1P		16.0	12.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	EFV12BC	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	EFV12BC	16.0	11.5	35,000	26,200	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36A	A80DF1E045A12	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80DF1E070B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A80DF1E070B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80DF1E090B16	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A80DF1E090B16	15.5	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80DF2V090B16	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A80DF2V090B16	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A80DF2V110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A80DF2V110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36A	A80UH1E045A12*	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01

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Cooling Performance with Air Handlers and Furnaces 36

Outdoor Model	Indoor Model		SEER	EER	AHRI Rated Capacity[1] BTUH	Sensible Rated Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
								Outdoor		Indoor					
	Evaporator Coil or Air Handler [3]	Vairable Speed Furnace						Suction	Liquid	Suction	Liquid	Suction	Liquid	Piston[2]	TXV
4SCU16LT 136P-1	E(U,C,M,H)1P36B	A80UH1E070B12*	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A80UH1E070B12*	15.5	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80UH1E090B16*	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A80UH1E090B16*	15.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36A	A80UH2V070A12	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80UH2V090B12	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A80UH2V090B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A80UH2V090B16	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A80UH2V090B16	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A80UH2V090C20	16.0	12.3	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A80UH2V090C20	15.5	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A80UH2V110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A95DF1E070B16S	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A95DF1E070B16S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A95DF1E090C16S	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A95DF1E090C16S	15.5	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A95DF2V045B12S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A95DF2V045B12S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A95DF2V070B16S	15.0	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A95DF2V070B16S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A95DF2V090C20S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A95DF2V090C20S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A95DF2V110C20S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A95DF2V110C20S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A95UH1E070B12S	16.0	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A95UH1E070B12S	16.0	11.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A95UH1E090C16S	15.5	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A95UH1E090C16S	15.5	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01

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 required to achieve AHRI rating. This feature is standard on all Allied Air Enterprises Furnace and AH products

Cooling Performance with Air Handlers and Furnaces 36

Outdoor Model	Indoor Model		SEER	EER	AHRI Rated Capacity[1] BTUH	Sensible Rated Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
								Outdoor		Indoor					
	Evaporator Coil or Air Handler [3]	Vairable Speed Furnace						Suction	Liquid	Suction	Liquid	Suction	Liquid	Piston[2]	TXV
4SCU16LT 136P-1	E(U,C,M,H)1P36B	A95UH2V045B12S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A95UH2V045B12S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A95UH2V070B12S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A95UH2V070B12S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A95UH2V090C12S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A95UH2V090C12S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A95UH2V090C16S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A95UH2V090C16S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A95UH2V090C20S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A95UH2V090C20S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A95UH2V110C16S	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A95UH2V110C16S	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A96DFMV070B12	15.5	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A96DFMV070B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A96DFMV090C16	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A96DFMV090C16	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A96DFMV090C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A96DFMV090C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A96DFMV110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A96DFMV110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	A96UHMV070B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	A96UHMV070B12	16.0	11.5	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A96UHMV090C12	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A96UHMV090C12	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01

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 required to achieve AHRI rating. This feature is standard on all Allied Air Enterprises Furnace and AH products

Cooling Performance with Air Handlers and Furnaces 36, 48

Outdoor Model	Indoor Model		SEER	EER	AHRI Rated Capacity[1] BTUH	Sensible Rated Capacity	CFM	Refrigerant Connection				Refrigerant Line Size		Indoor Expansion Device	
								Outdoor		Indoor					
	Evaporator Coil or Air Handler [3]	Vairable Speed Furnace						Suction	Liquid	Suction	Liquid	Suction	Liquid	Piston[2]	TXV
4SCU16LT 136P-1	E(U,C,M,H)1P36C	A96UHMV090C16	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A96UHMV090C16	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36C	A96UHMV110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43C	A96UHMV110C20	16.0	12.0	34,400	25,800	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	LBR,LUF*****V14	15.0	11.0	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	LBR,LUF*****V14	15.0	11.5	35,000	26,200	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	LHF,LHR,LUF*****V12	15.0	11.5	34,400	25,800	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	LHF,LHR,LUF*****V12	15.0	11.5	35,000	26,200	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P36B	LUF,LBF,LBR*****V14	15.0	11.5	35,000	26,200	1200	7/8	3/8	3/4	3/8	7/8	3/8	NA	A4TXV01
	E(U,C,M,H)1P43B	LUF,LBF,LBR*****V14	14.5	11.0	35,000	26,200	1200	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV01
4SCU16LT 148P-1	BCS2M48V00NA1P		15.5	12.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	EFV16CC	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C)1P62D	EFV20DC	14.5	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80DF1E110C20	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80DF2V110C20	15.5	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80UH1E090C20*	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80UH1E110C20*	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80UH2V090C20	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80UH2V110C20	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C)1P62D	A80UH2V135D20	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A95DF2V090C20S	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A95DF2V110C20S	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A95UH1E110C20S	14.5	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A95UH2V090C16S	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02

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 required to achieve AHRI rating. This feature is standard on all Allied Air Enterprises Furnace and AH products

Cooling Performance with Air Handlers and Furnaces 48, 60

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				
4SCU16LT 148P-1	E(U,C,H)1P62C	A96DFMV110C20	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A96UHMV090C16	15.0	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A96UHMV090C20	15.5	11.0	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A96UHMV110C20	15.5	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C)1P62D	A96UHMV135D20	15.0	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
	E(U,C)1P62C	LUF*****V20	14.5	11.5	46,500	34,900	1600	7/8	3/8	7/8	3/8	7/8	3/8	NA	A4TXV02
4SCU16LT 160P-1	BCS2M60V00NA1P		14.5	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C)1P60D	EFV20DC	14.6	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C)1P62D	EFV20DC	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80DF1E110C20	15.0	11.5	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80DF2V110C20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80UH1E090C20*	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80UH1E110C20*	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80UH2V090C20	14.5	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A80UH2V110C20	14.5	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C)1P62D	A80UH2V135D20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A95DF1E110C20S	14.5	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A95DF2V090C20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A95DF2V110C20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A95UH1E110C20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A95UH2V090C20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A95UH2V110C20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62D	A95UH2V135D20S	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A96DFMV090C20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A96DFMV110C20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A96UHMV090C20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C,H)1P62C	A96UHMV110C20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02
	E(U,C)1P62D	A96UHMV135D20	15.0	11.0	57,000	42,800	1800	7/8	3/8	7/8	3/8	1 1/8	3/8	NA	A4TXV02

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 required to achieve AHRI rating. This feature is standard on all Allied Air Enterprises Furnace 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
4SCU16LT 124P-1	E(U,C,M,H)1P36B/EFV08B	85/72	27,000	.67	1.43	26,500	.68	1.70	25,000	.72	1.93	23,600	.73	2.38	22,200	.76	2.59
		80/67	26,000	.70	1.40	25,500	.71	1.67	24,000	.75	1.90	22,600	.76	2.35	21,200	.79	2.56
		75/63	25,000	.73	1.37	24,500	.74	1.64	23,000	.78	1.87	21,600	.79	2.32	20,200	.82	2.53
4SCU16LT 136P-1	E(U,C,M,H)1P43B/EFV12B	85/72	40,200	.66	1.76	38,200	.68	2.31	36,400	.69	2.98	35,000	.71	3.28	33,000	.74	3.69
		80/67	39,200	.69	1.73	37,200	.71	2.28	35,400	.72	2.95	34,000	.74	3.25	32,000	.77	3.66
		75/63	38,200	.72	1.70	36,200	.74	2.25	34,400	.75	2.92	33,000	.77	3.22	31,000	.80	3.63
4SCU16LT 148P-1	E(U,C)1P62C/EFV16C	85/72	55,400	.68	2.93	52,000	.71	3.43	49,500	.72	3.89	48,000	.73	4.23	45,800	.75	5.53
		80/67	53,400	.71	2.90	50,000	.74	3.40	47,500	.75	3.86	46,000	.76	4.20	43,800	.78	5.50
		75/63	51,400	.74	2.87	48,000	.77	3.37	45,500	.78	3.83	44,000	.79	4.17	41,800	.81	5.47
4SCU16LT 160P-1	E(U,C)1P62D/EFV20D	85/72	61,000	.64	3.82	60,000	.65	4.49	59,000	.68	5.11	55,000	.69	5.66	52,000	.72	6.30
		80/67	59,000	.67	3.79	58,000	.68	4.46	57,000	.71	5.08	53,000	.72	5.63	50,000	.75	6.27
		75/63	57,000	.70	3.76	56,000	.71	4.43	55,000	.74	5.05	51,000	.75	5.60	48,000	.78	6.24

* 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
45F08	Compressor Low Ambient Cut-off	All 4SCU16LT's
93G35	Freezestats (3/8")	All 4SCU16LT's
39H29	Freezestats (1/2")	All 4SCU16LT's
50A93	Freezestats (5/8")	All 4SCU16LT's
47J27	Time Off Control	All 4SCU16LT's
67K90	Crank Case Heater	All 4SCU16LT's
63W22	Hard Start Kit 2 - 3 ton	4SCU16LT 124
63W23		4SCU16LT 136
10J42	Hard Start Kit 4 - 5 ton	4SCU16LT 148
63W24		4SCU16LT 160
34M72	Low Ambient	All 4SCU16LT's
85W66	Relay Kit- Constant Torque	All Constant Torque Furnaces

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