

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 jacket coil guard protection
- 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
- Raised base pan with drain ports allows for excellent water and debris drainage

COIL

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

COMPONENTS

- Full metal jacket panels remove with just two screws per panel for easy coil cleaning and service
- Bi-directional filter drier for long-lasting durability and system protection
- Discharge muffler for quiet operation
- High pressure switch
- Reliable, solid-state, time-initiated, temperature terminated defrost system
- Comfort Alert 2 diagnostics factory installed
- Defrost control is Quiet Shift™ capable
- Service valves positioned for quick installation and easy service
- Low pressure switch for loss of charge system protection
- Trade available components
- Defrost control features built in diagnostics for easier service
- Defrost control has short cycle protection to protect the compressor with field selectable 30/60/90 minute defrost cycle

DESIGN

- Designed for ambients up to 125°F

ACCESSORIES

- Low ambient kit
- Crank Case Heater

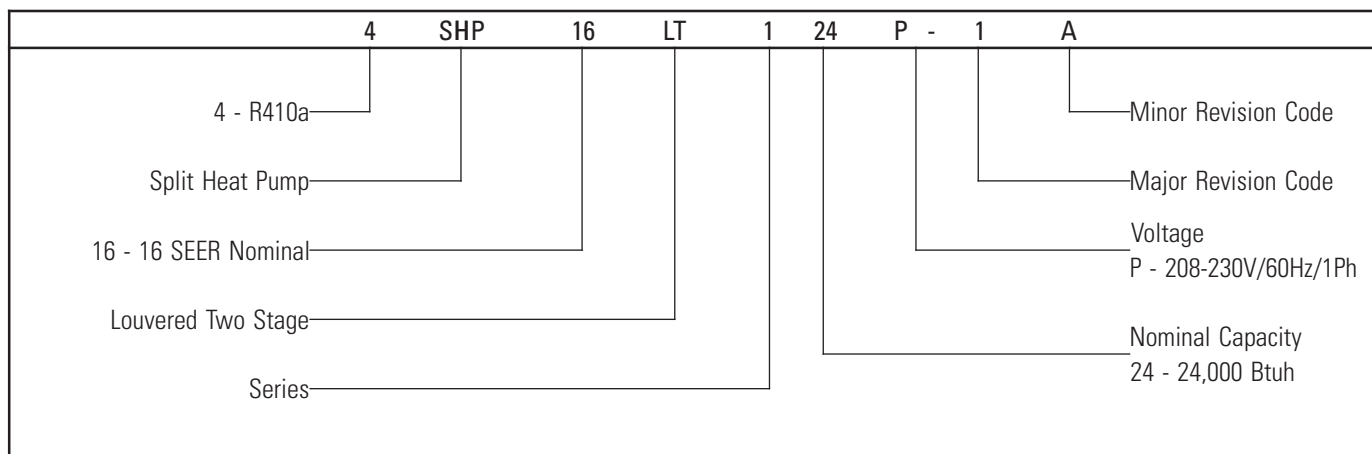
4SHP16LT



**10 year limited warranty
on compressor**
**5 year limited warranty
on all parts**
Extended warranty available



Model Number Guide



Physical and Electrical Data

Model	Voltage/- Hz/Phase	Voltage Range	Min. Circuit Amp.	Max. Over- current Device (amps)	Compressor		Fan Motor			Refrigerant Connections		Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (amps)	Locked Rotor (amps)	Rated Load (amps)	Rated HP	Nom. RPM	Liquid O.D. (in.)	Vapor O.D. (in.)		
4SHP16LT124P	230/60/1	216-253	13.9	20	11.4	52	1.1	1/5	1075	3/8	3/4	153	213
4SHP16LT136P	230/60/1	216-253	21.9	35	19.0	82	1.1	1/5	1075	3/8	7/8	200	252
4SHP16LT148P	230/60/1	216-253	28.1	45	24.0	96	1.7	1/4	825	3/8	7/8	207	296
4SHP16LT160P	230/60/1	216-253	33.8	55	26.0	118	1.8	1/3	825	3/8	7/8	272	335

Sound Ratings

Model	Sound Rating (dBA)
4SHP16LT124	74
4SHP16LT136	74
4SHP16LT148	76
4SHP16LT160	76

Performance

Model	Indoor Model	Cooling					Heating					CFM		Required Indoor TXV Kit ²
		Btuh	SEER ¹	EER	S/T	HSPF	47°		17°		Stage 1	Stage 2		
							Btuh	COP	Btuh	COP				
4SHP16LT124	G2D95C****V12B/E(U,C,M,H)1P36B	24,000	16.00	12.00	.75	8.20	21,400	3.4	12,100	2.2	600	800	H4TXV01	
	G2D95C****V14B/E(U,C,M,H)1P36B	24,000	16.00	12.00	.75	8.20	21,400	3.4	12,100	2.2	600	800	H4TXV01	
	G2D80C****V12B/E(U,C,M,H)1P36B	24,000	16.00	12.50	.75	8.20	21,400	3.4	12,100	2.2	600	800	H4TXV01	
	G2D80C****V14B/E(U,C,M,H)1P36B	24,000	16.00	12.50	.75	8.20	21,400	3.4	12,100	2.2	600	800	H4TXV01	
	EFV12BC/E(C,M,H)1P36B	24,000	16.00	12.00	.75	8.20	21,400	3.4	12,100	2.2	600	800	H4TXV01	
	BCS2M36V00NA1P	24,000	16.00	12.00	.75	8.20	21,400	3.4	12,100	2.2	600	800	H4TXV01	
4SHP16LT136	G2D95C****V14B/E(U,C,M,H)1P43B	35,400	15.50	11.30	.74	8.00	33,400	3.2	21,400	2.4	800	1200	H4TXV02	
	G2D95C****V16C/E(U,C,M,H)1P43C	35,400	15.70	11.50	.74	8.20	33,400	3.3	21,400	2.5	800	1200	H4TXV02	
	G2D95C****V20C/E(U,C,M,H)1P43C	35,400	16.00	11.60	.74	8.20	33,400	3.3	21,400	2.5	800	1200	H4TXV02	
	G2D80C****V14B/E(U,C,M,H)1P43B	35,400	15.70	11.50	.74	8.00	33,400	3.2	21,400	2.4	800	1200	H4TXV02	
	G2D80C****V20C/E(U,C,M,H)1P43C	35,400	16.00	11.60	.74	8.20	33,400	3.3	21,400	2.5	800	1200	H4TXV02	
	EFV12BC/E(C,M,H)1P43B	35,400	16.00	11.60	.74	8.50	33,400	3.4	21,400	2.5	800	1200	H4TXV02	
	BCS2M42V00NA1P	35,400	16.00	11.60	.74	8.50	33,400	3.4	21,400	2.5	800	1200	H4TXV02	
4SHP16LT148	G2D95C****V20C/E(U,C,H)1P62C	45,000	15.00	11.40	.75	8.50	44,500	3.6	27,600	2.4	1150	1600	H4TXV03	
	G2D95C****V20D/E(U,C,H)1P62D	45,000	15.20	11.60	.75	8.50	44,500	3.6	27,600	2.4	1150	1600	H4TXV03	
	G2D95C****V20D/E(U,C)1P59D	45,000	15.20	11.60	.75	8.50	44,500	3.6	27,600	2.4	1150	1600	H4TXV03	
	G2D80C****V20C/E(U,C,H)1P62C	45,000	15.00	11.40	.75	8.50	44,500	3.6	27,600	2.4	1150	1600	H4TXV03	
	G2D80C****V20D/E(U,C,H)1P62D	45,000	15.20	11.60	.75	8.50	44,500	3.6	27,600	2.4	1150	1600	H4TXV03	
	G2D80C****V20D/E(U,C)1P59D	45,000	15.20	11.60	.75	8.50	44,500	3.6	27,600	2.4	1150	1600	H4TXV03	
	EFV16CC/E(C,H)1P62C	45,000	15.00	11.40	.75	8.50	44,500	3.6	27,600	2.4	1150	1600	H4TXV03	
	EFV20DC/E(C,H)1P62D	45,000	15.20	11.60	.75	8.50	44,500	3.6	27,600	2.4	1150	1600	H4TXV03	
	EFV20DC/EC1P59D	45,000	15.20	11.60	.75	8.50	44,500	3.6	27,600	2.4	1150	1600	H4TXV03	
	BCS2M48V00NA1P	45,000	15.20	11.60	.75	8.50	44,500	3.6	27,600	2.4	1150	1600	H4TXV03	
4SHP16LT160	G2D95****V20C / E(U,C,H)1P62C	57,000	14.80	11.20	.72	8.20	57,000	3.2	36,000	2.3	1200	1725	H4TXV03	
	G2D95****V20D / E(U,C,H)1P62D	57,000	15.00	11.40	.72	8.20	57,000	3.2	36,000	2.3	1200	1725	H4TXV03	
	G2D95****V20D / E(U,C)1P59D	57,000	15.00	11.40	.72	8.20	57,000	3.2	36,000	2.3	1200	1725	H4TXV03	
	G2D80****V20C / E(U,C,H)1P62C	57,000	14.80	11.20	.72	8.20	57,000	3.2	36,000	2.3	1200	1725	H4TXV03	
	G2D80****V20D / E(U,C,H)1P62D	57,000	15.00	11.40	.72	8.20	57,000	3.2	36,000	2.3	1200	1725	H4TXV03	
	G2D80****V20D / E(U,C)1P59D	57,000	15.00	11.40	.72	8.20	57,000	3.2	36,000	2.3	1200	1725	H4TXV03	
	EFV16CC/E(C,H)1P62C	57,000	14.80	11.20	.72	8.20	57,000	3.2	36,000	2.3	1200	1725	H4TXV03	
	EFV20DC/E(C,H)1P62D	57,000	15.00	11.40	.72	8.20	57,000	3.2	36,000	2.3	1200	1725	H4TXV03	
	EFV20DC/EC1P59D	57,000	15.00	11.40	.72	8.20	57,000	3.2	36,000	2.3	1200	1725	H4TXV03	
	BCS2M60V00NA1P	57,000	15.00	11.40	.72	8.20	57,000	3.2	36,000	2.3	1200	1800	H4TXV03	

¹Certified in accordance with Unitary Air Conditioner Certification Program, which is based on ARI Standard 210/240.

²Required to achieve ARI rating.

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
4SHP16LT124	G2D95C****V12B/E(U,C,M,H)1P36B	85/72	27,000	.67	1.30	26,000	.68	1.53	25,000	.72	1.78	23,000	.73	2.00	20,800	.76	2.23
	G2D80C****V12B/E(U,C,M,H)1P36B	80/67	26,000	.70	1.27	25,000	.71	1.50	24,000	.75	1.75	22,000	.76	1.97	19,800	.79	2.20
	G2D95C****V14B/E(U,C,M,H)1P36B	80/67	26,000	.70	1.27	25,000	.71	1.50	24,000	.75	1.75	22,000	.76	1.97	19,800	.79	2.20
	G2D80C****V14B/E(U,C,M,H)1P36B EFV12BC/E(C,M,H)1P36B	75/63	25,000	.73	1.24	24,000	.74	1.47	23,000	.78	1.72	21,000	.79	1.94	18,800	.82	2.17
4SHP16LT136	G2D95C****V14B/E(U,C,M,H)1P43B	85/72	40,200	.67	2.06	38,000	.69	2.34	36,500	.71	2.86	35,000	.73	3.21	33,000	.76	3.79
	G2D95C****V16C/E(U,C,M,H)1P43C	80/67	39,200	.70	2.03	37,000	.72	2.31	35,400	.74	2.83	34,000	.76	3.18	32,000	.79	3.76
	G2D95C****V20C/E(U,C,M,H)1P43C	80/67	39,200	.70	2.03	37,000	.72	2.31	35,400	.74	2.83	34,000	.76	3.18	32,000	.79	3.76
	G2D80C****V14B/E(U,C,M,H)1P43B G2D80C****V20C/E(U,C,M,H)1P43C EFV12BC/E(C,M,H)1P43B	75/63	38,200	.73	2.00	36,000	.75	2.28	34,500	.77	2.80	33,000	.79	3.15	31,000	.82	3.73
4SHP16LT148	G2D95C****V20C/E(U,C,H)1P62C	85/72	52,400	.68	2.53	49,000	.71	3.03	47,000	.72	3.90	45,000	.73	4.36	42,800	.75	4.85
	G2D95C****V20D/E(U,C,H)1P62D	80/67	50,400	.71	2.50	47,000	.74	3.00	45,000	.75	3.87	43,000	.76	4.33	40,800	.78	4.82
	G2D95C****V20D/E(U,C)1P59D	80/67	50,400	.71	2.50	47,000	.74	3.00	45,000	.75	3.87	43,000	.76	4.33	40,800	.78	4.82
	G2D80C****V20C/E(U,C,H)1P62C G2D80C****V20D/E(U,C,H)1P62D G2D80C****V20D/E(U,C)1P59D EFV16CC/E(C,H)1P62C EFV20DC/E(C,H)1P62D EFV20DC/EC1P59D	75/63	48,400	.74	2.47	45,000	.77	2.97	43,000	.78	3.84	41,000	.79	4.30	38,800	.81	4.79
4SHP16LT160	G2D95****V20C / E(U,C,H)1P62C	85/72	66,500	.65	3.86	61,800	.67	4.48	58,800	.69	5.05	56,400	.71	5.65	53,500	.73	6.45
	G2D95****V20D / E(U,C,H)1P62D	80/67	63,600	.68	3.82	60,000	.70	4.44	57,000	.72	5.00	54,500	.74	5.60	51,500	.76	6.40
	G2D95****V20D / E(U,C)1P59D	80/67	63,600	.68	3.82	60,000	.70	4.44	57,000	.72	5.00	54,500	.74	5.60	51,500	.76	6.40
	G2D80****V20C / E(U,C,H)1P62C G2D80****V20D / E(U,C,H)1P62D G2D80****V20D / E(U,C)1P59D EFV16CC/E(C,H)1P62C EFV20DC/E(C,H)1P62D EFV20DC/EC1P59D	75/63	61,800	.71	3.73	57,600	.73	4.40	54,800	.75	4.95	52,500	.77	5.55	49,500	.79	6.35

Heating Performance Extended Ratings

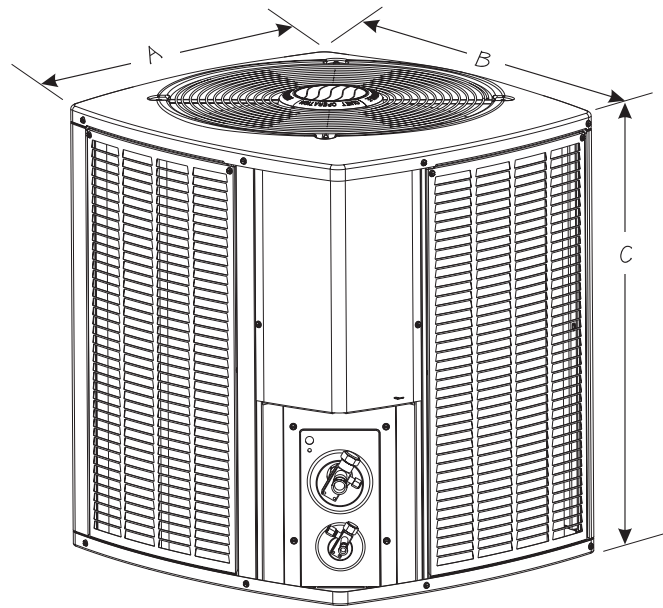
Outdoor Model	Indoor Model	Outdoor Temp. DB/WBoF														
		0/0			17/15			35/33			47/43			62/56		
		Btuh	COP	kW	Btuh	COP	kW	Btuh	COP	kW	Btuh	COP	kW	Btuh	COP	kW
4SHP16LT124	G2D95C****V12B/E(U,C,M,H)1P36B															
	G2D80C****V12B/E(U,C,M,H)1P36B															
	G2D95C****V14B/E(U,C,M,H)1P36B	6,800	1.50	1.48	12,100	2.20	1.61	17,700	2.90	1.79	21,400	3.40	1.84	26,100	4.00	1.91
	G2D80C****V14B/E(U,C,M,H)1P36B EFV12BC/E(C,M,H)1P36B															
4SHP16LT136	G2D95C****V14B/E(U,C,M,H)1P43B															
	G2D95C****V16C/E(U,C,M,H)1P43C															
	G2D95C****V20C/E(U,C,M,H)1P43C	14,500	2.00	2.24	21,400	2.50	2.51	28,700	3.00	2.80	33,400	3.30	2.98	39,600	3.70	3.14
	G2D80C****V14B/E(U,C,M,H)1P43B															
	G2D80C****V20C/E(U,C,M,H)1P43C EFV12BC/E(C,M,H)1P43B															
4SHP16LT148	G2D95C****V20C/E(U,C,H)1P62C															
	G2D95C****V20D/E(U,C,H)1P62D															
	G2D95C****V20D/E(U,C)1P59D															
	G2D80C****V20C/E(U,C,H)1P62C	18,000	1.70	3.23	27,600	2.40	3.37	37,700	3.10	3.56	44,500	3.60	3.62	53,000	4.20	3.70
	G2D80C****V20D/E(U,C,H)1P62D															
	G2D80C****V20D/E(U,C)1P59D EFV16CC/E(C,H)1P62C EFV20DC/E(C,H)1P62D EFV20DC/EC1P59D															
4SHP16LT160	G2D95****V20C / E(U,C,H)1P62C															
	G2D95****V20D / E(U,C,H)1P62D															
	G2D95****V20D / E(U,C)1P59D															
	G2D80****V20C / E(U,C,H)1P62C	23,000	1.65	4.09	36,000	2.30	4.58	41,000	2.60	4.62	57,000	3.20	5.22	67,200	3.70	5.32
	G2D80****V20D / E(U,C,H)1P62D															
	G2D80****V20D / E(U,C)1P59D EFV16CC/E(C,H)1P62C EFV20DC/E(C,H)1P62D EFV20DC/EC1P59D															

Accessories

Kit Number	Description	Used with
45F08	Compressor Low Ambient Cut-Off	All 4SHP16LT's
93G35	Freezestat (3/8" & 5/8")	All 4SHP16LT's
93M06	Crank Case Heater	All 4SHP16LT's
10J42	Hard Start Kit	4SHP16LT 24-36
81J69	Hard Start Kit	4SHP16LT 48-60
34M72	Low Ambient Kit	All 4SHP16LT's
AFO5L500	Fossil Fuel Kit, 2 Stage Compatible	All 4SHP16LT's
ASTAT503	Outdoor Stat	All 4SHP16LT's
ADFSTAT504	Discharge Tempering Stat	All 4SHP16LT's

Dimensions

Model No.	A	B	C
4SHP16LT124	24 3/4	26 3/4	29 3/4
4SHP16LT136	29 3/8	31 1/4	33 3/4
4SHP16LT148	29 3/8	31 1/4	43 3/4
4SHP16LT160	35 3/4	37 3/4	43 3/4



(800) 448-5872

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