

COMPRESSOR

- High-efficiency 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 panel 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 ports allows for excellent water and debris drainage



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

COMPONENTS

- Full metal louvered 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
- Reliable, solid state, time-initiated, temperature terminated defrost system
- 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 compressor
- Defrost control is Quiet Shift capable
- Defrost cycle is field selectable 30/60/90 minutes

DESIGN

- Designed for ambients up to 125°F

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

ACCESSORIES

- High pressure cutout kit
- Fossil fuel kit
- Outdoor thermostat/low-ambient compressor cutout kit
- Thermal expansion valve kits

Model Number Guide

4	SHP	14	LE	1	24	P	-	1	A
4 - R410a	Split Heat Pump	14 - 14 SEER Nominal	Louvered Enhanced	Series					Minor Revision Code
									Major Revision Code
									Voltage P - 208-230v/60hz/1Ph
									Nominal Capacity 24 - 24,000 Btuh

Physical and Electrical

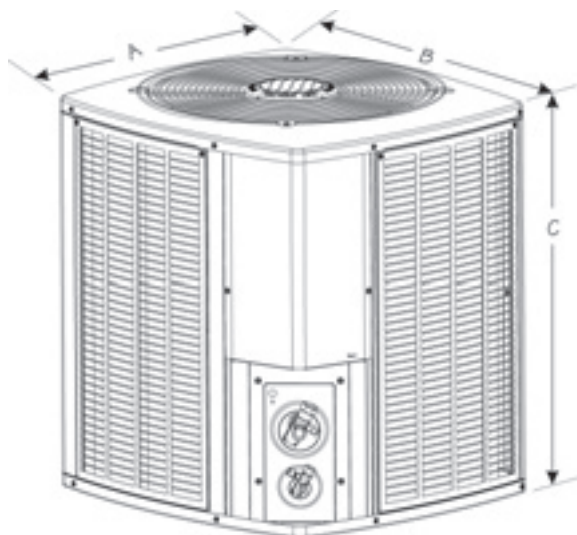
Model	Voltage/Phase/ Hz	Voltage Range	Min. Circuit Amp.	Max. Over current Device (amps)	Compressor		Fan Motor			Refrigerant Line Connections		Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load (amps)	Locked Rotor (amps)	Rated Load (amps)	Rated HP	Nom. RPM	Liquid O.D. (in.)	Vapor O.D. (in.)		
4SHP14LE118P-1	208-230/1/60	197 - 253	12	20	9	48	1	1/5	1075	3/8	3/4	126	189
4SHP14LE124P-1	208-230/1/60	197 - 253	18	30	14	58	1	1/5	1075	3/8	3/4	128	190
4SHP14LE130P-1	208-230/1/60	197 - 253	17	30	13	64	1	1/5	1075	3/8	3/4	149	210
4SHP14LE136P-1	208-230/1/60	197 - 253	19	30	14	77	2	1/4	825	3/8	7/8	181	258
4SHP14LE142P-1	208-230/1/60	197 - 253	24	40	18	112	2	1/3	825	3/8	7/8	199	315
4SHP14LE148P-1	208-230/1/60	197 - 253	29	50	22	117	2	1/3	825	3/8	7/8	199	320
4SHP14LE160P-1	208-230/1/60	197 - 253	35	60	26	134	2	1/3	825	3/8	1-1/8	256	350

Sound Ratings

Model No.	Sound Rating dBA
4SHP14LE118P-1	76
4SHP14LE124P-1	76
4SHP14LE130P-1	76
4SHP14LE136P-1	77
4SHP14LE142P-1	76
4SHP14LE148P-1	78
4SHP14LE160P-1	78

Dimensions (in.)

Model No.	A	B	C
4SHP14LE118P-1	24.75	26.75	29.75
4SHP14LE124P-1	24.75	26.75	29.75
4SHP14LE130P-1	24.75	26.75	33.75
4SHP14LE136P-1	29.38	31.25	37.75
4SHP14LE142P-1	35.75	37.75	37.75
4SHP14LE148P-1	35.75	37.75	37.75
4SHP14LE160P-1	35.75	37.75	43.75



Performance

Model	Indoor Model	Cooling				Heating				CFM	Req'd. Indoor TXV Kit ²	
		Btuh	SEER ¹	EER	S/T	HSPF	47°		17°			
							Btuh	COP	Btuh			COP
4SHP14LE118P	E(U,C,M,H)1P29A,B	17,200	13.50	11.50	.72	7.70	17,400	3.25	11,000	2.20	600	H4TXV01
	G2D95****V12B/E(U,C,M,H)1P29B	17,800	14.50	12.50	.72	7.80	17,400	3.30	11,000	2.25	600	H4TXV01
	G2D80****V12B/E(U,C,M,H)1P29B	17,800	14.50	12.50	.72	7.80	17,400	3.30	11,000	2.25	600	H4TXV01
	LHF,LHR,LUF****V12B/E(U,C,M,H)1P29B	17,800	14.50	12.50	.72	7.80	17,400	3.30	11,000	2.25	600	H4TXV01
	EFV12BC/E(U,C,M,H)1P29B	17,800	14.50	12.50	.72	7.80	17,400	3.30	11,000	2.25	600	H4TXV01
	BCS2M18C00N-1P	17,600	14.00	12.00	.72	7.70	17,400	3.25	11,000	2.20	600	H4TXV01
	BCS2M24V00NA1P	18,000	14.50	13.00	.73	7.70	17,200	3.16	9,500	2.00	600	H4TXV01
4SHP14LE124P	E(U,C,M,H)1P29A,B	23,200	13.30	11.30	.73	7.70	23,000	3.40	13,800	2.20	800	H4TXV01
	G2D95****V12B/E(U,C,M,H)1P29B	23,800	14.50	12.50	.73	8.20	23,000	3.60	13,800	2.40	800	H4TXV01
	G2D95****V14B/E(U,C,M,H)1P29B	23,800	14.50	12.50	.73	8.20	23,000	3.60	13,800	2.40	800	H4TXV01
	G2D80****V12B/E(U,C,M,H)1P29B	23,800	14.50	12.50	.73	8.20	23,000	3.60	13,800	2.40	800	H4TXV01
	G2D80****V14B/E(U,C,M,H)1P29B	23,800	14.50	12.50	.73	8.20	23,000	3.60	13,800	2.40	800	H4TXV01
	LHF,LHR,LUF****V12/E(U,C,M,H)1P29B	23,800	14.50	12.50	.73	8.20	23,000	3.60	13,800	2.40	800	H4TXV01
	LHF,LHR,LUF****V14/E(U,C,M,H)1P29B	23,800	14.50	12.50	.73	8.20	23,000	3.60	13,800	2.40	800	H4TXV01
	EFV12BC/E(U,C,M,H)1P29B	23,800	14.50	12.50	.73	8.20	23,000	3.60	13,800	2.40	800	H4TXV01
	BCS2M24C00N-1P	23,600	14.00	12.00	.73	8.00	23,000	3.50	13,800	2.30	800	H4TXV01
BCS2M24V00NA1P	24,000	15.00	13.00	.74	8.00	22,600	3.60	13,500	2.20	800	H4TXV01	
4SHP14LE130P	E(U,C,M,H)1P36A,B,C	27,600	13.50	11.00	.74	8.00	27,400	3.40	16,000	2.30	1000	H4TXV01
	G2D95****V12B/E(U,C,M,H)1P36B	28,200	14.50	12.00	.74	8.50	27,400	3.60	16,000	2.50	1000	H4TXV01
	G2D95****V14B/E(U,C,M,H)1P36B	28,200	14.50	12.00	.74	8.50	27,400	3.60	16,000	2.50	1000	H4TXV01
	G2D95****V16C/E(U,C,M,H)1P36C	28,200	14.50	12.00	.74	8.50	27,400	3.60	16,000	2.50	1000	H4TXV01
	G2D80****V12B/E(U,C,M,H)1P36B	28,200	14.50	12.00	.74	8.50	27,400	3.60	16,000	2.50	1000	H4TXV01
	G2D80****V14B/E(U,C,M,H)1P36B	28,200	14.50	12.00	.74	8.50	27,400	3.60	16,000	2.50	1000	H4TXV01
	LHF,LHR,LUF****V12/E(U,C,M,H)1P36B	28,200	14.50	12.00	.74	8.50	27,400	3.60	16,000	2.50	1000	H4TXV01
	LHF,LHR,LUF****V14/E(U,C,M,H)1P36B	28,200	14.50	12.00	.74	8.50	27,400	3.60	16,000	2.50	1000	H4TXV01
	EFV12BC/E(U,C,M,H)1P36B	28,200	14.50	12.00	.74	8.50	27,400	3.60	16,000	2.50	1000	H4TXV01
	EFV16CC/E(U,C,M,H)1P36C	28,200	14.50	12.00	.74	8.50	27,400	3.60	16,000	2.50	1000	H4TXV01
	BCS2M30C00N-1P	28,000	14.00	11.50	.74	8.20	28,000	3.60	16,800	2.40	1000	H4TXV01
	BCS2M36V00NA1P	28,400	15.00	12.50	.75	8.30	27,800	3.90	16,800	2.50	1000	H4TXV01
4SHP14LE136P	E(U,C,M,H)1P43B,C	33,500	13.50	11.50	.73	8.00	34,500	3.20	22,000	2.20	1200	H4TXV02
	G2D95****V12B/E(U,C,M,H)1P43B	34,000	14.50	12.50	.73	8.50	34,500	3.40	22,000	2.40	1200	H4TXV02
	G2D95****V14B/E(U,C,M,H)1P43B	34,000	14.50	12.50	.73	8.50	34,500	3.40	22,000	2.40	1200	H4TXV02
	G2D95****V16C/E(U,C,M,H)1P43C	34,000	14.50	12.50	.73	8.50	34,500	3.40	22,000	2.40	1200	H4TXV02
	G2D80****V12B/E(U,C,M,H)1P43B	34,000	14.50	12.50	.73	8.50	34,500	3.40	22,000	2.40	1200	H4TXV02
	G2D80****V14B/E(U,C,M,H)1P43B	34,000	14.50	12.50	.73	8.50	34,500	3.40	22,000	2.40	1200	H4TXV02
	LHF,LHR,LUF****V12/E(U,C,M,H)1P43B	34,000	14.50	12.50	.73	8.50	34,500	3.40	22,000	2.40	1200	H4TXV02
	LHF,LHR,LUF****V14/E(U,C,M,H)1P43B	34,000	14.50	12.50	.73	8.50	34,500	3.40	22,000	2.40	1200	H4TXV02
	EFV12BC/E(U,C,M,H)1P43B	34,000	14.50	12.50	.73	8.50	34,500	3.40	22,000	2.40	1200	H4TXV02
	EFV16CC/E(U,C,M,H)1P43C	34,000	14.50	12.50	.73	8.50	34,500	3.40	22,000	2.40	1200	H4TXV02
	BCS2M37C00N-1P	34,000	14.00	12.00	.73	8.20	34,500	3.30	21,800	2.30	1200	H4TXV02
	BCS2M42V00NA1P	34,400	15.00	12.75	.74	8.20	34,200	3.40	21,200	2.30	1200	H4TXV02

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

²Required to achieve ARI rating.

Performance

Model	Indoor Model	Cooling				Heating				CFM	Req'd. Indoor TXV Kit ²	
		Btuh	SEER ¹	EER	S/T	HSPF	47		17			
							Btuh	COP	Btuh			COP
4SHP14LE142P	E(U,C,M,H)1P49C	41,000	13.50	11.50	.76	8.00	42,500	3.40	27,000	2.50	1400	H4TXV02
	G2D95****V16C/E(U,C,M,H)1P49C	41,500	14.50	12.50	.76	8.50	42,500	3.60	27,000	2.70	1400	H4TXV02
	G2D95****V20C/E(U,C,M,H)1P49C	41,500	14.50	12.50	.76	8.50	42,500	3.60	27,000	2.70	1400	H4TXV02
	G2D80****V20C/E(U,C,M,H)1P49C	41,500	14.50	12.50	.76	8.50	42,500	3.60	27,000	2.70	1400	H4TXV02
	LUF****V20/E(U,C,M,H)1P49C	41,500	14.50	12.50	.76	8.50	42,500	3.60	27,000	2.70	1400	H4TXV02
	EFV16CC/E(U,C,M,H)1P49C	41,500	14.50	12.50	.76	8.50	42,500	3.60	27,000	2.70	1400	H4TXV02
	E(U,C,M,H)1P62D	41,000	13.50	11.50	.76	8.50	42,500	3.60	27,000	2.60	1400	H4TXV02
	G2D95****V20D/E(U,C,M,H)1P62D	41,500	14.50	12.50	.76	8.50	42,500	3.40	27,000	2.70	1400	H4TXV02
	G2D80****V20D/E(U,C,M,H)1P62D	41,500	14.50	12.50	.76	8.50	42,500	3.60	27,000	2.70	1400	H4TXV02
	EFV20DC/E(U,C,M,H)1P62D	41,500	14.50	12.50	.76	8.50	42,500	3.60	27,000	2.70	1400	H4TXV02
	BCS2M48C00N-1P	41,500	14.00	12.00	.76	8.20	42,500	3.50	27,000	2.60	1400	H4TXV02
	BCS2M48V00NA1P	42,000	15.00	12.75	.77	8.50	42,000	3.70	27,800	2.50	1400	H4TXV02
4SHP14LE148P	E(U,C,M,H)1P49C	47,000	13.50	11.50	.74	8.00	46,000	3.40	29,800	2.30	1600	H4TXV03
	G2D95****V16C/E(U,C,M,H)1P49C	47,500	14.50	12.50	.74	8.50	46,000	3.60	29,800	2.50	1600	H4TXV03
	G2D95****V20C/E(U,C,M,H)1P49C	47,500	14.50	12.50	.74	8.50	46,000	3.60	29,800	2.50	1600	H4TXV03
	G2D80****V20C/E(U,C,M,H)1P49C	47,500	14.50	12.50	.74	8.50	46,000	3.60	29,800	2.50	1600	H4TXV03
	LUF****V20/E(U,C,M,H)1P49C	47,500	14.50	12.50	.74	8.50	46,000	3.60	29,800	2.50	1600	H4TXV03
	EFV16CC/E(U,C,M,H)1P49C	47,500	14.50	12.50	.74	8.50	46,000	3.60	29,800	2.50	1600	H4TXV03
	E(U,C,M,H)1P62D	47,000	13.50	11.50	.74	8.00	46,000	3.40	29,800	2.30	1600	H4TXV03
	G2D95****V20D/E(U,C,M,H)1P62D	47,500	14.50	12.50	.74	8.50	46,000	3.60	29,800	2.50	1600	H4TXV03
	G2D80****V20D/E(U,C,M,H)1P62D	47,500	14.50	12.50	.74	8.50	46,000	3.60	29,800	2.50	1600	H4TXV03
	EFV20DC/E(U,C,M,H)1P62D	47,500	14.50	12.50	.74	8.50	46,000	3.60	29,800	2.50	1600	H4TXV03
	BCS2M48C00N-1P	47,500	14.00	12.00	.74	8.20	46,000	3.50	29,800	2.40	1600	H4TXV03
	BCS2M48V00NA1P	48,000	15.00	12.75	.75	8.70	45,500	3.70	29,400	2.60	1600	H4TXV03
4SHP14LE160P	E(U,C,M,H)1P62C,D	57,000	13.50	11.50	.75	8.00	54,000	3.30	35,000	2.30	1800	H4TXV03
	G2D95****V16C/E(U,C,M,H)1P62C	57,500	14.50	12.50	.75	8.50	54,000	3.50	35,000	2.50	1800	H4TXV03
	G2D95****V20C/E(U,C,M,H)1P62C	57,500	14.50	12.50	.75	8.50	54,000	3.50	35,000	2.50	1800	H4TXV03
	G2D80****V20C/E(U,C,M,H)1P62C	57,500	14.50	12.50	.75	8.50	54,000	3.50	35,000	2.50	1800	H4TXV03
	LUF****V20/E(U,C,M,H)1P62C	57,500	14.50	12.50	.75	8.50	54,000	3.50	35,000	2.50	1800	H4TXV03
	EFV16CC/E(U,C,M,H)1P62C	57,000	14.50	12.50	.75	8.00	54,000	3.30	35,000	2.50	1800	H4TXV03
	G2D95****V20D/E(U,C,M,H)1P62D	57,500	14.50	12.50	.75	8.50	54,000	3.50	35,000	2.50	1800	H4TXV03
	G2D80****V20D/E(U,C,M,H)1P62D	57,500	14.50	12.50	.75	8.50	54,000	3.50	35,000	2.50	1800	H4TXV03
	EFV20DC/E(U,C,M,H)1P62D	57,500	14.50	12.50	.75	8.50	54,000	3.50	35,000	2.50	1800	H4TXV03
	BCS2M60C00N-1P	57,500	14.00	12.00	.75	8.20	54,000	3.40	35,000	2.40	1800	H4TXV03
	BCS2M60V00NA1P	57,500	14.10	12.10	.75	8.20	54,000	3.40	35,800	2.50	1800	H4TXV03

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

²Required to achieve ARI rating.

Heating Performance Extended Ratings

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
4SHP14LE118	BCS2M18C00N-1P	7,400	1.60	1.41	11,000	2.20	1.47	13,000	2.50	1.52	17,400	3.25	1.57	20,600	3.80	1.59
4SHP14LE124	BCS2M24C00N-1P	8,600	1.60	1.66	13,800	2.30	1.76	16,800	2.60	1.89	23,000	3.50	1.93	27,600	4.10	1.97
4SHP14LE130	BCS2M30C00N-1P	10,500	1.70	1.92	16,800	2.40	2.05	20,000	2.65	2.21	28,000	3.60	2.28	33,600	4.20	2.34
4SHP14LE136	BCS2M37C00N-1P	14,600	1.70	2.62	21,800	2.30	2.78	25,600	2.60	2.89	34,500	3.30	3.06	40,900	3.80	3.15
4SHP14LE142	BCS2M48C00N-1P	18,200	1.60	3.37	27,000	2.30	3.44	31,000	2.60	3.49	42,500	3.50	3.56	50,300	4.10	3.60
4SHP14LE148	BCS2M48C00N-1P	20,600	1.80	3.52	29,800	2.40	3.64	33,500	2.60	3.78	46,000	3.50	3.85	54,100	4.10	3.87
4SHP14LE160	BCS2M60C00N-1P	24,200	1.80	4.06	35,000	2.40	4.27	38,000	2.60	4.28	54,000	3.40	4.65	63,500	3.90	4.77

Cooling Performance Extended Ratings

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
4SHP14LE118	BCS2M18C00N-1P	85/72	22,000	.63	1.17	20,500	.64	1.33	19,000	.65	1.48	18,250	.66	1.64	17,500	.67	1.79
		80/67	20,000	.69	1.15	19,000	.70	1.29	17,600	.71	1.47	16,800	.72	1.63	16,000	.73	1.78
		75/63	19,000	.72	1.16	17,500	.73	1.31	16,000	.74	1.45	15,250	.75	1.62	14,500	.76	1.78
4SHP14LE124	BCS2M24C00N-1P	85/72	29,500	.64	1.55	27,750	.66	1.77	26,000	.67	1.99	24,900	.68	2.21	23,800	.69	2.42
		80/67	27,000	.70	1.54	25,400	.71	1.74	23,600	.73	1.97	22,700	.75	2.19	21,800	.77	2.41
		75/63	25,000	.72	1.53	23,400	.74	1.72	21,800	.76	1.96	20,900	.78	2.18	20,000	.79	2.39
4SHP14LE130	BCS2M30C00N-1P	85/72	33,500	.66	1.83	32,250	.67	2.09	31,000	.67	2.34	29,250	.68	2.59	27,500	.69	2.84
		80/67	31,000	.72	1.80	30,000	.72	2.05	28,000	.74	2.33	26,500	.76	2.58	25,000	.77	2.82
		75/63	28,800	.75	1.78	27,000	.77	2.12	25,200	.79	2.31	24,200	.80	2.56	23,200	.81	2.80
4SHP14LE136	BCS2M37C00N-1P	85/72	41,500	.64	2.22	39,350	.65	2.53	37,200	.66	2.84	35,500	.68	3.09	33,800	.69	3.34
		80/67	38,000	.71	2.20	36,500	.72	2.50	34,000	.73	2.83	32,300	.75	3.08	30,600	.77	3.32
		75/63	36,500	.73	2.18	34,150	.74	2.45	31,800	.75	2.72	30,300	.77	3.02	28,800	.79	3.31
4SHP14LE142	BCS2M48C00N-1P	85/72	51,500	.66	2.77	48,500	.68	3.13	45,500	.70	3.48	43,000	.72	3.83	40,500	.73	4.18
		80/67	47,500	.73	2.74	44,000	.74	3.01	41,500	.76	3.46	39,250	.79	3.81	37,000	.81	4.16
		75/63	44,000	.76	2.72	41,250	.78	2.94	38,500	.79	3.44	36,750	.81	3.78	35,000	.83	4.12
4SHP14LE148	BCS2M48C00N-1P	85/72	58,500	.64	3.11	55,750	.66	3.55	53,000	.67	3.98	50,250	.69	4.42	47,500	.70	4.86
		80/67	54,000	.71	3.07	51,000	.72	3.46	47,500	.74	3.96	45,250	.76	4.40	43,000	.78	4.84
		75/63	51,500	.74	3.04	48,250	.75	3.49	45,000	.76	3.93	43,000	.78	4.37	41,000	.80	4.80
4SHP14LE160	BCS2M60C00N-1P	85/72	64,500	.64	3.68	62,750	.67	4.25	61,000	.69	4.81	58,000	.71	5.20	55,000	.73	5.58
		80/67	62,000	.72	3.63	61,500	.73	4.21	57,500	.75	4.79	54,250	.78	5.17	51,000	.81	5.55
		75/63	58,000	.76	3.59	56,000	.78	4.01	54,000	.79	4.76	51,250	.81	5.12	48,500	.83	5.47

Accessories

Kit Number	Description	Used with
40K58	Blower Off Delay Kit	All SHP14's
45F08	Compressor Low Ambient Cut-off	All SHP14's
94J46	High Pressure Switch Kit	All SHP14's
47J27	Time Off Control	All SHP14's
67K90	Crank Case Heater	All SHP14's
10J42	Hard Start Kit 1.5-3.5 Ton	4SHP14LE118,24,30,36,42
81J69	Hard Start Kit 4-5 Ton	4SHP14LE148,60
33M07	Mild Ambient Kit	All SHP14's
27J00	Low Ambient Kit	All SHP14's
AFOSL500	Fossil Fuel Kit, 2-stage compatible	All SHP14's
H4TXV01	TXV Kit	4SHP14LE118,24,30
H4TXV02	TXV Kit	4SHP14LE136,42,48
H4TXV03	TXV Kit	4SHP14LE160



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