

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 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
- 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
- Defrost cycle is field selectable 30/60/90 minutes

DESIGN

- Designed for ambients up to 125°F

ACCESSORIES

- Fossil fuel kit
- Low ambient kit
- Crank Case Heater

4SHP13LE



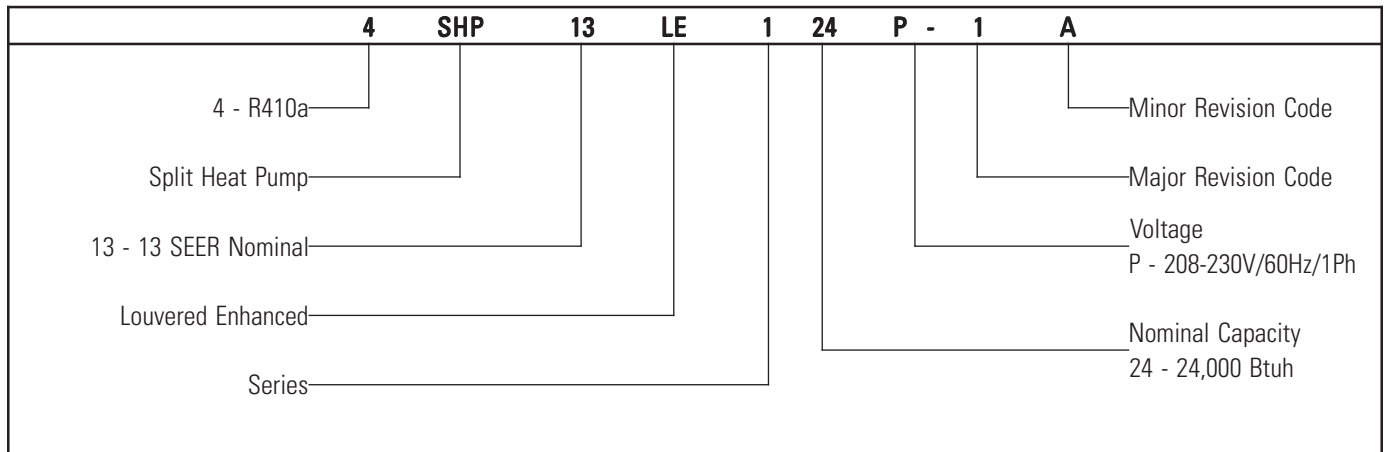
**10 year limited warranty
on compressor**

**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 Ampacity	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.)		
4SHP13LE118P	208-230/60/1	197-253	11.9	20	9.0	48	1.1	1/5	1075	3/8	3/4	143	185
4SHP13LE124P	208-230/60/1	197-253	17.5	30	13.5	58.3	1.1	1/5	1075	3/8	3/4	119	186
4SHP13LE130P	208-230/60/1	197-253	18.7	30	14.1	73	1.1	1/5	1075	3/8	3/4	122	187
4SHP13LE136P	208-230/60/1	197-253	21.9	35	16.7	79	1.1	1/5	1075	3/8	7/8	162	202
4SHP13LE142P	208-230/60/1	197-253	23.2	40	17.0	107	1.7	1/3	825	3/8	7/8	186	254
4SHP13LE148P	208-230/60/1	197-253	28.9	50	21.8	117	1.7	1/4	825	3/8	7/8	186	260
4SHP13LE160P	208-230/60/1	197-253	34.6	60	26.3	134	1.7	1/4	825	3/8	1-1/8	240	299

Sound Ratings

Model	Sound Rating (dBA)
4SHP13LE118	74
4SHP13LE124	74
4SHP13LE130	76
4SHP13LE136	76
4SHP13LE142	76
4SHP13LE148	76
4SHP13LE160	76

Performance

Model	Indoor Model	Cooling				Heating				CFM	Required Indoor TXV Kit ²	
		Btuh	SEER ¹	EER	S/T	HSPF	47°		17°			
							Btuh	COP	Btuh			COP
4SHP13LE118	BCS2M18C00NA-1P	18,900	14.00	12.00	.75	7.70	17,900	3.6	10,600	2.3	600	H4TXV01
	EFV12BC/E(U,C,M)1P24B	18,900	14.00	12.00	.75	7.70	17,900	3.6	10,600	2.3	600	H4TXV01
	BCS2M24V00NA1P	19,000	14.50	12.50	.75	7.70	17,500	3.6	10,600	2.3	600	H4TXV01
4SHP13LE124	BCS2M24C00NA-1P	22,800	14.00	12.00	.75	7.70	21,800	3.7	12,100	2.2	800	H4TXV01
	BCS2M24C00NA-1P	22,800	14.00	12.00	.75	7.70	21,800	3.7	12,100	2.2	800	.059
	G2D95***V12B/E(U,C,M)1P30B	23,000	15.00	12.50	.75	7.70	21,400	3.7	11,900	2.2	800	H4TXV01
	G2D95***V14B/E(U,C,M)1P30B	23,000	15.00	12.50	.75	7.70	21,400	3.7	11,900	2.2	800	H4TXV01
	G2D80***V12B/E(U,C,M)1P30B	23,000	15.00	12.50	.75	7.70	21,400	3.7	11,900	2.2	800	H4TXV01
	G2D80***V14B/E(U,C,M)1P30B	23,000	15.00	12.50	.75	7.70	21,400	3.7	11,900	2.2	800	H4TXV01
	EFV12B/E(U,C,M)1P30B	23,000	15.00	12.50	.75	7.70	21,400	3.7	11,900	2.2	800	H4TXV01
	BCS2M24V00NA1P	23,000	14.50	12.50	.76	7.80	21,400	3.7	12,200	2.2	800	.059
	BCS2M24V00NA1P	23,000	14.50	12.50	.76	7.80	21,400	3.7	12,200	2.2	800	H4TXV01
	4SHP13LE130	BCS2M30C00NA1-1P	28,800	13.00	11.00	.76	7.70	27,400	3.6	16,100	2.3	1000
BCS2M30C00NA1-1P		28,800	13.00	11.00	.76	7.70	27,400	3.6	16,100	2.3	1000	.065
G2D95***V12B/E(U,C,M,H)1P36B		30,000	14.00	12.00	.76	7.70	27,200	3.6	16,000	2.3	1000	H4TXV01
G2D95***V14B/E(U,C,M,H)1P36B		30,000	14.00	12.00	.76	7.70	27,200	3.6	16,000	2.3	1000	H4TXV01
G2D95***V16C/E(U,C,M,H)1P36C		30,000	14.00	12.00	.76	7.70	27,200	3.6	16,000	2.3	1000	H4TXV01
G2D80***V12B/E(U,C,M,H)1P36B		30,000	14.00	12.00	.76	7.70	27,200	3.6	16,000	2.3	1000	H4TXV01
G2D80***V14B/E(U,C,M,H)1P36B		30,000	14.00	12.00	.76	7.70	27,200	3.6	16,000	2.3	1000	H4TXV01
EFV12BC/E(U,C,M,H)1P36B		30,000	14.00	12.00	.76	7.70	27,200	3.6	16,000	2.3	1000	H4TXV01
EFV16CC/E(U,C,M,H)1P36C		30,000	14.00	12.00	.76	7.70	27,200	3.6	16,000	2.3	1000	H4TXV01
BCS2M36V00NA1P		30,000	14.00	12.00	.76	8.20	27,000	4.0	17,000	2.7	1000	.065
4SHP13LE136	BCS2M36C00NA-1P	34,200	13.00	11.00	.74	7.70	35,600	3.7	21,400	2.5	1200	H4TXV02
	BCS2M36C00NA-1P	34,200	13.00	11.00	.74	7.70	35,600	3.7	21,400	2.5	1200	.067
	G2D95***V12B/E(U,C,M,H)1P36B	34,200	13.00	11.00	.74	7.70	35,600	3.7	21,400	2.5	1200	H4TXV02
	G2D95***V14B/E(U,C,M,H)1P36B	34,200	13.00	11.00	.74	7.70	35,600	3.7	21,400	2.5	1200	H4TXV02
	G2D95***V16C/E(U,C,M,H)1P36C	34,200	13.00	11.00	.74	7.70	35,600	3.7	21,400	2.5	1200	H4TXV02
	G2D80***V12B/E(U,C,M,H)1P36B	34,200	13.00	11.00	.74	7.70	35,600	3.7	21,400	2.5	1200	H4TXV02
	G2D80***V14B/E(U,C,M,H)1P36B	34,200	13.00	11.00	.74	7.70	35,600	3.7	21,400	2.5	1200	H4TXV02
	EFV12BC/E(U,C,M,H)1P36B	34,200	13.00	11.00	.74	7.70	35,600	3.7	21,400	2.5	1200	H4TXV02
	EFV16CC.E(U,C,M,H)1P36C	34,200	13.00	11.00	.74	7.70	35,600	3.7	21,400	2.5	1200	H4TXV02
	BCS2M36V00NA1P	34,800	14.00	12.00	.75	8.20	35,000	3.9	20,000	2.3	1200	.067
BCS2M36V00NA1P	34,800	14.00	12.00	.75	8.20	35,000	3.9	20,000	2.3	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	Required Indoor TXV Kit ²	
		Btuh	SEER ¹	EER	S/T	HSPF	47°		17°			
							Btuh	COP	Btuh			COP
4SHP13LE142	BCS2M42C00NA-1P	40,500	13.50	11.00	.75	7.70	42,000	3.6	25,800	2.5	1400	H4TXV02
	BCS2M42C00NA-1P	40,500	13.50	11.00	.75	7.70	42,000	3.6	25,800	2.5	1400	.074
	E(U,C,M,H)1P43B,C	42,000	13.00	11.00	.75	7.70	40,000	3.4	25,000	2.3	1400	H4TXV02
	E(U,C)1P60D	42,000	13.00	11.00	.75	7.70	40,000	3.4	25,000	2.3	1400	H4TXV02
	G2D95***V14B/E(U,C,M,H)1P43B	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	G2D95***V16C/E(U,C,M,H)1P43C	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	G2D95***V16C/E(U,C,H)1P49C	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	G2D95***V16C/E(U,C,M)1P50C	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	G2D95***V20C/E(U,C,M,H)1P43C	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	G2D95***V20C/E(U,C,H)1P49C	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	G2D95***V20C/E(U,C,M)1P50C	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	G2D80***V14B/E(U,C,M,H)1P43B	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	G2D80***V20C/E(U,C,M,H)1P43C	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	G2D80***V20C/E(U,C,H)1P49C	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	G2D80***V20C/E(U,C,M)1P50C	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	E(U,C,M,H)1P43C	42,000	13.00	11.00	.75	7.70	40,000	3.4	25,000	2.3	1400	H4TXV02
	EFV16CC/E(U,C,M,H)1P43C	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	EFV16CC/E(U,C,H)1P49c	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	EFV16CC/E(U,C,M)1P50C	42,000	14.00	12.00	.75	7.70	39,000	3.4	24,400	2.3	1400	H4TXV02
	4SHP13LE148	BCS2M42V00NA1P	40,500	14.00	11.50	.75	8.20	41,500	3.6	26,000	2.6	1400
BCS2M42V00NA1P		40,500	14.00	11.50	.75	8.20	41,500	3.6	26,000	2.6	1400	H2TXV02
BCS2M48C00NA-1P		48,000	13.50	11.00	.75	7.70	44,500	3.6	27,600	2.4	1600	H4TXV03
G2D95***V20D/E(U,C)1P60D		47,500	13.50	11.00	.75	7.70	44,500	3.6	27,600	2.4	1600	H4TXV03
G2D80***V20D/E(U,C)1P60D		47,500	13.50	11.00	.75	7.70	44,500	3.6	27,600	2.4	1600	H4TXV03
4SHP13LE160	EFV20DC/E(U,C)1P60D	47,500	13.50	11.00	.75	7.70	44,500	3.6	27,600	2.4	1600	H4TXV03
	BCS2M48V00NA1P	48,000	14.00	11.20	.75	8.00	44,000	3.6	29,000	2.6	1600	H2TXV03
	BCS2M60C00NA-1P	57,000	13.00	10.75	.76	7.70	56,000	3.4	36,000	2.5	1800	H4TXV03
	BCS2M60C00NA-1P	57,000	13.00	10.75	.76	7.70	56,000	3.4	36,000	2.5	1800	.090
	E(U,C)1P60D	57,000	13.00	10.80	.76	7.70	55,500	3.3	36,000	2.4	1800	H4TXV03
	E(U,C,H)1P62C,D	57,000	13.00	10.80	.76	7.70	55,500	3.3	36,000	2.4	1800	H4TXV03
	G2D80***V20C/E(U,C,H)1P62C	57,000	13.00	10.80	.76	7.70	55,500	3.3	36,000	2.4	1800	H4TXV03
	G2D80***V20D/E(U,C)1P60D	57,000	13.00	10.80	.76	7.70	55,500	3.3	36,000	2.4	1800	H4TXV03
	G2D80***V20D/E(U,C,H)1P62D	57,000	13.00	10.80	.76	7.70	55,500	3.3	36,000	2.4	1800	H4TXV03
	EFV20DC/E(U,C)1P60D	57,000	13.00	10.80	.76	7.70	55,500	3.3	36,000	2.4	1800	H4TXV03
	EFV20DC/E(U,C,H)1P62D	57,000	13.00	10.80	.76	7.70	55,500	3.3	36,000	2.4	1800	H4TXV03
	BCS2M60V00NA1P	57,000	13.25	10.90	.76	8.00	56,000	3.8	40,000	2.7	1800	0.09
BCS2M60V00NA1P	57,000	13.25	10.90	.76	8.00	56,000	3.8	40,000	2.7	1800	A4TXV03	

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
4SHP13LE118	BCS2M18C00NA-1P BCS2M18C00NA-2X EFV12BC/E(U,C,M)1P24B	85/72	24,000	.65	1.43	20,900	.69	1.53	19,900	.72	1.73	18,900	.74	1.93	17,800	.77	2.18
		80/67	23,000	.68	1.40	19,900	.72	1.50	18,900	.75	1.70	17,900	.77	1.90	16,800	.80	2.15
		75/63	22,000	.71	1.37	18,900	.75	1.47	17,900	.78	1.67	16,900	.80	1.87	15,800	.83	2.12
4SHP13LE124	BCS2M24C00NA-1P BCS2M24C00NA-2X EFV12B/E(U,C,M)1P30B	85/72	26,000	.67	1.60	25,200	.68	1.83	24,000	.72	2.08	22,000	.73	2.30	20,800	.76	2.53
		80/67	25,000	.70	1.57	24,200	.71	1.80	23,000	.75	2.05	21,000	.76	2.27	19,800	.79	2.50
		75/63	24,000	.73	1.54	23,200	.74	1.77	22,000	.78	2.02	20,000	.79	2.24	18,800	.82	2.47
4SHP13LE130	BCS2M30C00NA-1P BCS2M30C00NA-2X EFV12BC/E(U,C,M,H)1P36B EFV16CC/E(U,C,M,H)1P36C	85/72	33,000	.68	1.85	32,200	.71	2.19	31,000	.72	2.48	30,000	.74	2.74	27,000	.85	2.97
		80/67	32,000	.71	1.82	31,200	.74	2.16	30,000	.75	2.45	29,000	.77	2.71	26,000	.82	3.00
		75/63	31,000	.74	1.79	30,200	.77	2.13	29,000	.78	2.42	28,000	.80	2.68	25,000	.79	3.03
4SHP13LE136	BCS2M36C00NA-1P BCS2M36C00NA-2X EFV12BC/E(U,C,M,H)1P36B EFV16CC.E(U,C,M,H)1P36C	85/72	40,200	.66	2.36	38,000	.68	2.76	36,200	.69	3.16	35,000	.71	3.51	33,000	.74	3.99
		80/67	39,200	.69	2.33	37,000	.71	2.73	35,200	.72	3.13	34,000	.74	3.48	32,000	.77	3.96
		75/63	38,200	.72	2.30	36,000	.74	2.70	34,200	.75	3.10	33,000	.77	3.45	31,000	.80	3.93
4SHP13LE142	BCS2M42C00NA-1P EFV20LC/CAM42C EFV16CC/E(U,C,M,H)1P43C EFV16CC/E(U,C,H)1P49C EFV16CC/E(U,C,M)1P50C	85/72	47,000	.68	2.94	45,000	.69	3.30	42,500	.70	3.69	39,700	.72	4.03	38,600	.73	4.45
		80/67	46,000	.71	2.91	44,000	.72	3.27	41,500	.73	3.66	38,700	.75	4.00	37,600	.76	4.42
		75/63	45,000	.74	2.88	43,000	.75	3.24	40,500	.76	3.63	37,700	.78	3.97	36,600	.79	4.39
4SHP13LE148	BCS2M48C00NA-1P BCS2M48C00NA-2X EFV20DC/E(U,C)1P60D	85/72	55,400	.68	3.05	52,000	.71	3.54	50,000	.72	3.99	48,000	.73	4.36	45,800	.75	4.85
		80/67	53,400	.71	3.02	50,000	.74	3.51	48,000	.75	3.96	46,000	.76	4.33	43,800	.78	4.82
		75/63	51,400	.74	2.99	48,000	.77	3.48	46,000	.78	3.93	44,000	.79	4.30	41,800	.81	4.79
4SHP13LE160	BCS2M60C00NA-1P BCS2M60C00NA-2X EFV20DC/E(U,C)1P60D EFV20DC/E(U,C,H)1P62D	85/72	59,000	.64	3.82	58,000	.65	4.49	57,000	.68	5.11	55,000	.69	5.66	53,000	.72	6.30
		80/67	57,000	.67	3.79	56,000	.68	4.46	55,000	.71	5.08	53,000	.72	5.63	51,000	.75	6.27
		75/63	55,000	.70	3.76	54,000	.71	4.43	53,000	.74	5.05	51,000	.75	5.60	49,000	.78	6.24

Heating Performance Extended Ratings

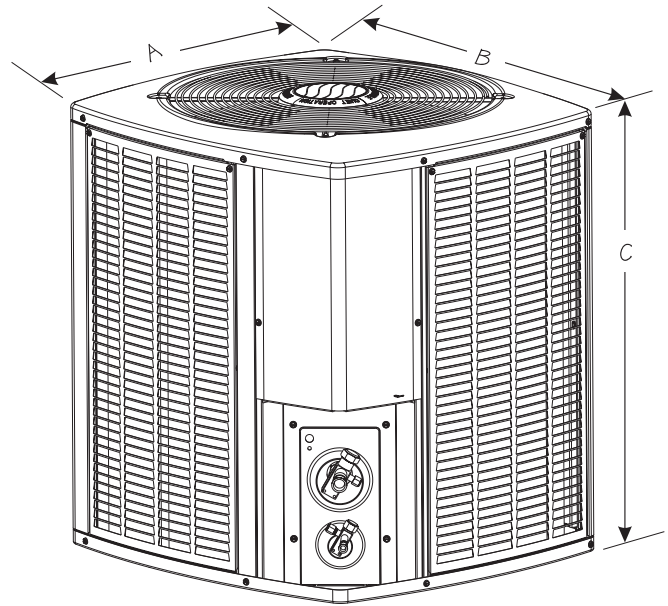
Outdoor Model	Indoor Model	Outdoor Temp. DB/WB°F														
		0/0			17/15			35/33			47/43			62/56		
		Btuh	COP	kW	Btuh	COP	kW	Btuh	COP	kW	Btuh	COP	kW	Btuh	COP	kW
4SHP13LE118	BCS2M18C00NA-1P BCS2M18C00NA-2X EFV12BC/E(U,C,M)1P24B	6,500	1.60	1.29	10,600	2.30	1.35	15,000	3.10	1.42	17,900	3.60	1.46	21,600	4.30	1.47
4SHP13LE124	BCS2M24C00NA-1P BCS2M24C00NA-2X EFV12B/E(U,C,M)1P30B	6,600	1.40	1.55	12,100	2.20	1.61	17,900	3.10	1.69	21,800	3.70	1.73	26,700	4.50	1.74
4SHP13LE130	BCS2M30C00NA-1P BCS2M30C00NA-2X EFV12BC/E(U,C,M,H)1P36B EFV16CC/E(U,C,M,H)1P36C	9,700	1.60	1.95	16,100	2.30	2.05	22,900	3.10	2.16	27,400	3.60	2.23	33,100	4.30	2.26
4SHP13LE136	BCS2M36C00NA-1P BCS2M36C00NA-2X EFV12BC/E(U,C,M,H)1P36B EFV16CC.E(U,C,M,H)1P36C	13,400	1.80	2.33	21,400	2.50	2.51	29,900	3.20	2.74	35,600	3.70	2.82	42,700	4.30	2.91
4SHP13LE142	BCS2M42C00NA-1P EFV16CC/E(U,C,M,H)1P43C EFV16CC/E(U,C,H)1P49C EFV16CC/E(U,C,M)1P50C	16,600	1.90	2.80	25,800	2.50	3.02	35,500	3.20	3.25	42,000	3.60	3.42	50,100	4.20	3.50
4SHP13LE148	BCS2M48C00NA-1P BCS2M48C00NA-2X EFV20DC/E(U,C)1P60D	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
4SHP13LE160	BCS2M60C00NA-1P BCS2M60C00NA-2X EFV20DC/E(U,C)1P60D	24,700	2.00	3.88	36,000	2.50	4.22	48,000	3.00	4.69	56,000	3.40	4.83	66,000	3.90	4.96

Accessories

Kit Number	Description	Used with
40K58	Blower Off Delay Kit	All 4SHP13LE's
69J03	Compressor Sound covers	All 4SHP13LE's
45F08	Compressor Low ambient Cut -off	All 4SHP13LE's
93G35	Freezestats - 3/8"	All 4SHP13LE's
39H29	Freezestats - 1/2"	All 4SHP13LE's
50A93	Freezestats - 5/8"	All 4SHP13LE's
93M04	Crank Case Heater	All 4SHP13LE's
10J42	Hard Start Kit 1.5 – 3.5 ton	4SHP13LE118-36
88M91	Hard Start Kit 4 – 5 ton	4SHP13LE142 - 60
34M72	Low Ambient Kit	All 4SHP13LE's
33M07	Mild Ambient Kit	All 4SHP13LE's
H4TXV01	TXV Kit	4SHP13LE118, 24, 30
H4TXV02	TXV Kit	4SHP13LE136, 42
H4TSV03	TXV Kit	4SHP13LE148, 60

Dimensions

Model No.	A	B	C
4SHP13LE118	24 3/4	26 3/4	29 3/4
4SHP13LE124	24 3/4	26 3/4	29 3/4
4SHP13LE130	24 3/4	26 3/4	29 3/4
4SHP13LE136	24 3/4	26 3/4	33 3/4
4SHP13LE142	29 3/8	31 1/4	33 3/4
4SHP13LE148	29 3/8	31 1/4	33 3/4
4SHP13LE160	29 3/8	31 1/4	43 3/4



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