

COMPRESSOR

- High efficiency scroll compressor
- R22 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
- 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

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

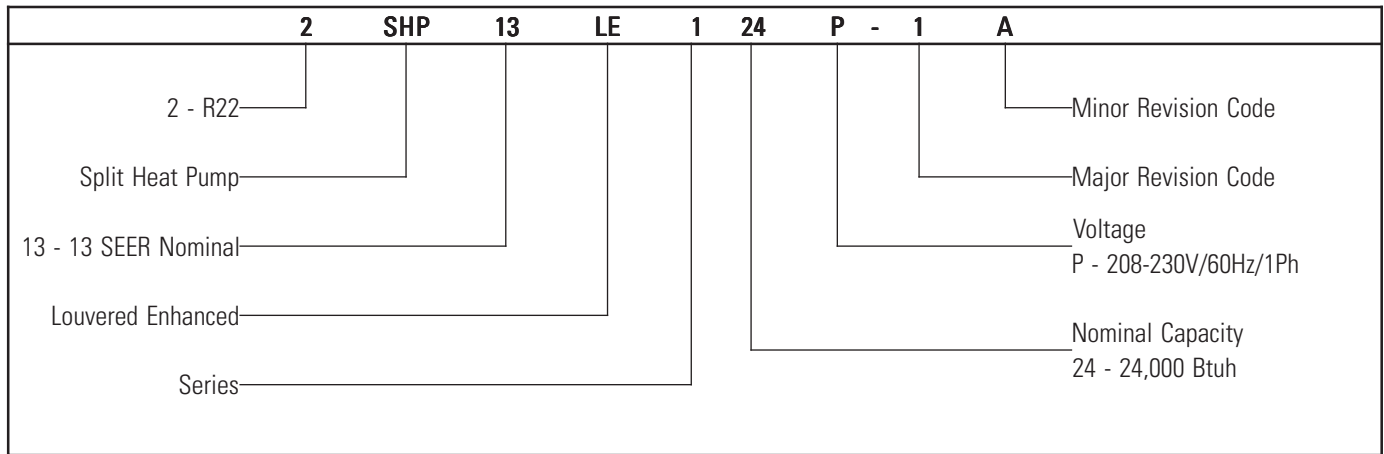
2SHP13LE



**10 year limited parts warranty
available (5 year compressor)
See limited warranty document for details**



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		R22 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.)		
2SHP13LE118P	208-230/60/1	197-253	12.3	20	8.9	41	1.0	1/6	1075	3/8	3/4	102	176
2SHP13LE124P	208-230/60/1	197-253	14.0	20	10.3	56	1.0	1/6	1075	3/8	3/4	99	188
2SHP13LE130P	208-230/60/1	197-253	18.0	30	13.5	72	1.0	1/6	1075	3/8	3/4	132	199
2SHP13LE136P	208-230/60/1	197-253	19.4	30	14.7	83	1.0	1/6	1075	3/8	7/8	138	209
2SHP13LE142P	208-230/60/1	197-253	23.1	40	17.0	95	1.9	1/3	1075	3/8	7/8	200	246
2SHP13LE148P	208-230/60/1	197-253	29.2	50	22.0	137	1.7	1/4	825	3/8	7/8	232	267
2SHP13LE160P	208-230/60/1	197-253	31.3	55	24.0	137	1.7	1/4	825	3/8	1-1/8	285	308

Sound Ratings

Model No.	Sound Rating (dBA)
2SHP13LE118	75
2SHP13LE124	75
2SHP13LE130	75
2SHP13LE136	75
2SHP13LE142	77
2SHP13LE148	77
2SHP13LE160	78

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		
2SHP13LB118	BCS2M18C00NA-1P	18,000	13.00	11.50	.75	7.70	17,000	3.4	10,600	2.4	600	.057
	BCS2M18C00NA-2X	18,000	13.00	11.50	.75	7.70	17,000	3.4	10,600	2.4	600	Factory TXV
	BCS2M24V00NA1P	18,400	14.00	12.00	.75	8.20	16,500	3.7	10,000	2.5	600	.57
	E(U,C,M)1P24B/ EFV08BC	18,000	13.50	12.00	.75	8.00	17,000	3.4	10,600	2.4	600	H2TXV01
	E(U,C,M)1P24B/ EFV12BC	18,000	13.50	12.00	.75	8.00	17,000	3.4	10,600	2.6	600	H2TXV01
2SHP13LB124	BCS2M24C00NA-1P	24,000	13.00	11.50	.75	7.70	22,000	3.5	14,000	2.4	800	.061
	BCS2M24C00NA-2X	24,000	13.00	11.50	.75	7.70	22,000	3.5	14,000	2.4	800	Factory TXV
	BCS2M24V00NA1P	24,000	14.00	12.00	.75	8.20	21,600	3.6	13,500	2.4	800	.061
	E(U,C,M)1P30A,B,C/ G2D80****V12B	24,000	13.00	11.50	.75	7.70	22,000	3.5	14,000	2.4	800	H2TXV01
	E(U,C,M)1P30A,B,C/ G2D80****V14B	24,000	13.00	11.50	.75	7.70	22,000	3.5	14,000	2.4	800	H2TXV01
	E(U,C,M)1P30A,B,C/ G2D95****V12B	24,000	13.00	11.50	.75	7.70	22,000	3.5	14,000	2.4	800	H2TXV01
	E(U,C,M)1P30A,B,C/ G2D95****V14B	24,000	13.00	11.50	.75	7.70	22,000	3.5	14,000	2.4	800	H2TXV01
	E(U,C,M)1P30B/ EFV08BC	24,000	13.00	11.50	.75	7.70	22,000	3.5	14,000	2.4	800	H2TXV01
	E(U,C,M)1P30B/ EFV12BC	24,000	13.00	11.50	.75	7.70	22,000	3.5	14,000	2.4	800	H2TXV01
	E(U,C,M)1P30B/ LBR, LUF****V14	24,000	13.00	11.50	.75	7.70	22,000	3.5	14,000	2.4	800	H2TXV01
	E(U,C,M)1P30B/ LHF, LHR, LUF****V12	24,000	13.00	11.50	.75	7.70	22,000	3.5	14,000	2.4	800	H2TXV01
2SHP13LB130	BCS2M30C00NA1-1P	31,000	13.00	11.00	.76	7.70	28,600	3.5	17,900	2.4	1000	.072
	BCS2M30C00NA-2X	31,000	13.00	11.00	.76	7.70	28,600	3.5	17,900	2.4	1000	Factory TXV
	BCS2M36V00N1P	31,600	14.00	12.00	.76	8.20	28,600	3.7	18,600	2.6	1000	.072
	E(U,C,M,H)1P36A,B,C/ G2D80****V12B	31,000	13.00	11.00	.76	7.70	28,600	3.5	17,900	2.4	1000	H2TXV01
	E(U,C,M,H)1P36A,B,C/ G2D80****V14B	31,000	13.00	11.00	.76	7.70	28,600	3.5	17,900	2.4	1000	H2TXV01
	E(U,C,M,H)1P36A,B,C/ G2D95****V12B	31,000	13.00	11.00	.76	7.70	28,600	3.5	17,900	2.4	1000	H2TXV01
	E(U,C,M,H)1P36A,B,C/ G2D95****V14B	31,000	13.00	11.00	.76	7.70	28,600	3.5	17,900	2.4	1000	H2TXV01
	E(U,C,M,H)1P36A,B,C/ G2D95****V16C	31,000	13.00	11.00	.76	7.70	28,600	3.5	17,900	2.4	1000	H2TXV01
	E(U,C,M,H)1P36B/ EFV12BC	31,000	13.00	11.00	.76	7.70	28,600	3.5	17,900	2.4	1000	H2TXV01
	E(U,C,M,H)1P36B/ LBR, LUF****V14	31,000	13.00	11.00	.76	7.70	28,600	3.5	17,900	2.4	1000	H2TXV01
	E(U,C,M,H)1P36B/ LHF, LHR, LUF****V12	31,000	13.00	11.00	.76	7.70	28,600	3.5	17,900	2.4	1000	H2TXV01
2SHP13LB136*	BCS2M36C00NA-1P	35,200	13.00	11.00	.74	7.70	33,800	3.5	21,000	2.4	1200	.074
	BCS2M36C00NA-2X	35,200	13.00	11.00	.74	7.70	33,800	3.5	21,000	2.4	1200	Factory TXV
	BCS2M36V00NA1P	35,600	14.00	12.00	.74	8.20	33,800	3.8	21,800	2.6	1200	.074
	E(U,C,M,H)1P36A,B,C/ G2D80****V12B	35,200	13.00	11.00	.74	7.70	33,800	3.5	21,000	2.4	1200	H2TXV02
	E(U,C,M,H)1P36A,B,C/ G2D80****V14B	35,200	13.00	11.00	.74	7.70	33,800	3.5	21,000	2.4	1200	H2TXV02
	E(U,C,M,H)1P36A,B,C/ G2D95****V12B	35,200	13.00	11.00	.74	7.70	33,800	3.5	21,000	2.4	1200	H2TXV02
	E(U,C,M,H)1P36A,B,C/ G2D95****V14B	35,200	13.00	11.00	.74	7.70	33,800	3.5	21,000	2.4	1200	H2TXV02
	E(U,C,M,H)1P36A,B,C/ G2D95****V16C	35,200	13.00	11.00	.74	7.70	33,800	3.5	21,000	2.4	1200	H2TXV02
	E(U,C,M,H)1P36B/ EFV12BC	35,200	13.00	11.00	.74	7.70	33,800	3.5	21,400	2.4	1200	H2TXV02
	E(U,C,M,H)1P36B/ LBR, LUF****V14	35,200	13.00	11.00	.74	7.70	33,800	3.5	21,400	2.4	1200	H2TXV02
	E(U,C,M,H)1P36B/ LHF, LHR, LUF****V12	35,200	13.00	11.00	.74	7.70	33,800	3.5	21,400	2.4	1200	H2TXV02

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		
2SHP13LB142	BCS2M42C00NA-1P	41,500	13.00	11.00	.75	7.70	41,000	3.2	26,400	2.4	1400	.082
	BCS2M42C00NA-2X	41,500	13.00	11.00	.75	7.70	41,000	3.2	26,400	2.4	1400	Factory TXV
	BCS2M42V00NA1P	41,500	14.00	12.00	.75	8.20	40,500	3.7	26,200	2.6	1400	.082
	E(U,C)1P62C	41,500	13.00	11.00	.75	7.70	39,000	3.3	24,000	2.4	1400	H2TXV02
	E(U,C,H)1P49C/ EHV16CC	41,500	13.00	11.00	.75	7.70	41,000	3.2	26,400	2.4	1400	H2TXV02
	E(U,C,H)1P49C/ G2D80****V20C	41,500	13.00	11.00	.75	7.70	41,000	3.2	26,400	2.4	1400	H2TXV02
	E(U,C,H)1P49C/ G2D95****V16C	41,500	13.00	11.00	.75	7.70	41,000	3.2	26,400	2.4	1400	H2TXV02
	E(U,C,H)1P49C/ G2D95****V20C	41,500	13.00	11.00	.75	7.70	41,000	3.2	26,400	2.4	1400	H2TXV02
	E(U,C,H)1P62D/ EHV20DC	41,500	13.00	11.00	.75	7.70	41,000	3.2	26,400	2.4	1400	H2TXV02
E(U,C,H)1P62D	41,500	13.00	11.00	.75	7.70	39,000	3.3	24,000	2.4	1400	H2TXV02	
2SHP13LB148	BCS2M48C00NA-1P	48,000	13.00	11.00	.75	7.70	47,500	3.4	30,600	2.4	1600	.088
	BCS2M48C00NA-2X	48,000	13.00	11.00	.75	7.70	47,500	3.4	30,600	2.4	1600	Factory TXV
	BCS2M48V00NA1P	48,500	13.50	11.50	.75	8.00	47,000	3.4	30,600	2.5	1600	.088
	E(U,C)1P62C/ G2D80****V20C	48,000	13.00	11.00	.75	7.70	47,500	3.5	30,600	2.4	1600	H2TXV02
	E(U,C)1P62C/ G2D95****V16C	48,000	13.00	11.00	.75	7.70	47,500	3.4	30,600	2.4	1600	H2TXV02
	E(U,C)1P62C/ G2D95****V20C	48,000	13.00	11.00	.75	7.70	47,500	3.4	30,600	2.4	1600	H2TXV02
	E(U,C)1P62C	48,000	13.00	11.00	.75	7.70	47,500	3.4	30,600	2.4	1600	H2TXV02
	E(U,C)1P62D/ G2D80****V20D	48,000	13.00	11.00	.75	7.70	47,500	3.4	30,600	2.4	1600	H2TXV02
	E(U,C)1P62D/ G2D95****V20D	48,000	13.00	11.00	.75	7.70	47,500	3.4	30,600	2.4	1600	H2TXV02
	E(U,C,H)1P62C/ EHV16CC	48,000	13.00	11.00	.75	7.70	47,500	3.4	30,600	2.4	1600	H2TXV02
	E(U,C,H)1P62C/ LUF****V20	48,000	13.00	11.00	.75	7.70	47,500	3.4	30,600	2.4	1600	H2TXV02
E(U,C,H)1P62D/ EHV20DC	48,000	13.00	11.00	.75	7.70	47,500	3.4	30,600	2.4	1600	H2TXV02	
E(U,C,H)1P62D	48,000	13.00	11.00	.75	7.70	47,500	3.5	30,600	2.4	1600	H2TXV02	
2SHP13LB160	BCS2M60C00NA-1P	55,000	13.00	11.00	.76	7.70	55,000	3.6	35,000	2.5	1800	.090
	BCS2M60C00NA-2X	55,000	13.00	11.00	.76	7.70	55,000	3.6	35,000	2.5	1800	Factory TXV
	BCS2M60V00NA1P	55,000	13.00	12.00	.76	8.00	55,000	3.8	34,000	2.6	1800	H2TXV03
	E(U,C)1P62C/ LUF****V20	53,000	13.00	11.00	.76	7.70	50,000	3.6	33,000	2.5	1800	H2TXV03
	E(U,C)1P62C	53,000	13.00	11.00	.76	7.70	50,000	3.6	33,000	2.5	1800	H2TXV03
	E(U,C)1P62D/ EHV20DC	55,000	13.00	11.00	.76	8.00	55,000	3.7	35,000	2.6	1800	H2TXV03
E(U,C)1P62D	55,000	13.00	11.00	.76	7.70	55,000	3.7	35,000	2.6	1800	H2TXV03	

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
2SHP13LE118	BCS2M18C00NA-1P	85/72	20,200	.65	1.21	20,000	.69	1.39	19,000	.72	1.56	18,000	.74	1.70	17,000	.77	1.83
	BCS2M18C00NA-2X	80/67	19,200	.68	1.18	19,000	.72	1.36	18,000	.75	1.53	17,000	.77	1.67	16,000	.80	1.80
	EFV12BC/E(U,C,M)1P24B	75/63	18,200	.71	1.15	18,000	.75	1.33	17,000	.78	1.50	16,000	.80	1.64	15,000	.83	1.77
2SHP13LE124	BCS2M24C00NA-1P	85/72	27,000	.67	1.60	26,200	.68	1.83	25,000	.72	2.08	23,000	.73	2.30	21,800	.76	2.53
	BCS2M24C00NA-2X	80/67	26,000	.70	1.57	25,200	.71	1.80	24,000	.75	2.05	22,000	.76	2.27	20,800	.79	2.50
	EFV12BC/E(U,C,M)1P30B	75/63	25,000	.73	1.54	24,200	.74	1.77	23,000	.78	2.02	21,000	.79	2.24	19,800	.82	2.47
2SHP13LE130	BCS2M30C00NA1-1P	85/72	34,000	.68	1.85	33,200	.71	2.19	32,000	.72	2.48	31,000	.74	2.74	28,000	.85	2.97
	BCS2M30C00NA-2X	85/72	33,000	.71	1.82	32,200	.74	2.16	31,000	.75	2.45	30,000	.77	2.71	27,000	.82	3.00
	EFV12BC/E(U,C,M,H)1P36B EFV16CC/E(U,C,M,H)1P36C	75/63	32,000	.74	1.79	31,200	.77	2.13	30,000	.78	2.42	29,000	.80	2.68	26,000	.79	3.03
2SHP13LE136	BCS2M36C00NA-1P	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
	BCS2M36C00NA-2X	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
	EFV12BC/E(U,C,M,H)1P36B EFV16CC/E(U,C,M,H)1P36C	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
2SHP13LE142	BCS2M42C00NA-1P	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
	BCS2M42C00NA-2X	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
	EFV16CC/E(U,C,H)1P49C EFV20DC/E(U,C,H)1P62D	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
2SHP13LE148	BCS2M48C00NA-1P	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
	BCS2M48C00NA-2X	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
	EFV16CC/E(U,C,H)1P62C EFV20DC/E(U,C,H)1P62D	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
2SHP13LE160	BCS2M60C00NA-1P	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
	BCS2M60C00NA-2X	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
	EFV20DC/E(U,C,H)1P62D	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
2SHP13LE118	BCS2M18C00NA-1P BCS2M18C00NA-2X EFV12BC/E(U,C,M)1P24B	6,400	1.80	1.15	10,600	2.40	1.29	15,000	3.00	1.47	18,000	3.40	1.55	21,700	3.90	1.63
2SHP13LE124	BCS2M24C00NA-1P BCS2M24C00NA-2X EFV12BC/E(U,C,M)1P30B	9,500	1.80	1.63	14,000	2.40	1.71	18,800	3.10	1.78	22,000	3.50	1.84	26,000	4.10	1.86
2SHP13LE130	BCS2M30C00NA-1P BCS2M30C00NA-2X EFV12BC/E(U,C,M,H)1P36B EFV16CC/E(U,C,M,H)1P36C	11,800	1.80	2.07	17,900	2.40	2.19	24,300	3.10	2.30	28,600	3.50	2.39	34,000	4.10	2.43
2SHP13LE136	BCS2M36C00NA-1P BCS2M36C00NA-2X EFV12BC/E(U,C,M,H)1P36B EFV16CC/E(U,C,M,H)1P36C	13,700	1.80	2.41	21,000	2.40	2.56	28,700	3.10	2.71	33,800	3.50	2.83	40,200	4.10	2.87
2SHP13LE142	BCS2M42C00NA-1P BCS2M42C00NA-2X EFV16CC/E(U,C,H)1P49C EFV20DC/E(U,C,H)1P62D	18,100	1.90	2.92	26,400	2.40	3.22	35,200	2.90	3.56	41,000	3.20	3.75	48,300	3.60	3.93
2SHP13LE148	BCS2M48C00NA-1P BCS2M48C00NA-2X EFV16CC/E(U,C,H)1P62C EFV20DC/E(U,C,H)1P62D	21,000	1.80	3.53	30,600	2.40	3.74	40,700	3.00	3.98	47,500	3.40	4.09	56,000	3.90	4.21
2SHP13LE160	BCS2M60C00NA-1P BCS2M60C00NA-2X EFV20DC/E(U,C,H)1P62D	23,700	1.90	3.89	35,000	2.50	4.10	47,000	3.20	4.30	55,000	3.60	4.48	65,000	4.20	4.54

Accessories

Kit Number	Description	Used with
40K58	Blower Off Delay Kit	All 2SHP13's
45F08	Compressor Low ambient Cut -off	All 2SHP13's
94J46	High Pressure Switch Kit	All 2SHP13's
47J27	Time off control	All 2SHP13's
67K90	Crank Case Heater -CCH	All 2SHP13's
10J42	Hard Start Kit 1.5 – 3.5 ton	2SHP13LE118,24,30,36,42
81J69	Hard Start Kit 4 – 5 ton	2SHP13LE148,60
33M07	Mild ambient Kit	All 2SHP13's
27J00	Low Ambient Kit	All 2SHP13's
AFOSL500	Fossil Fuel Kit, 2 Stage Compatible	All 2SHP13's
ASTAT503	Outdoor Stat	All 2SHP13's
ADFSTAT504	Discharge Tempering Stat	All 2SHP13's
H2TXV01	TXV Kit	2SHP13LE118, 24, 30
H2TXV02	TXV Kit	2SHP13LE136, 42, 48
H2TXV03	TXV Kit	2SHP13LE160

Dimensions

Model	A	B	C
2SHP13LE118P	24 3/4	26 3/4	33 3/4
2SHP13LE124P	24 3/4	26 3/4	33 3/4
2SHP13LE130P	24 3/4	26 3/4	29 3/4
2SHP13LE136P	24 3/4	26 3/4	33 3/4
2SHP13LE142P	29 3/8	31 1/4	33 3/4
2SHP13LE148P	29 3/8	31 1/4	37 3/4
2SHP13LE160P	29 3/8	31 1/4	43 3/4



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