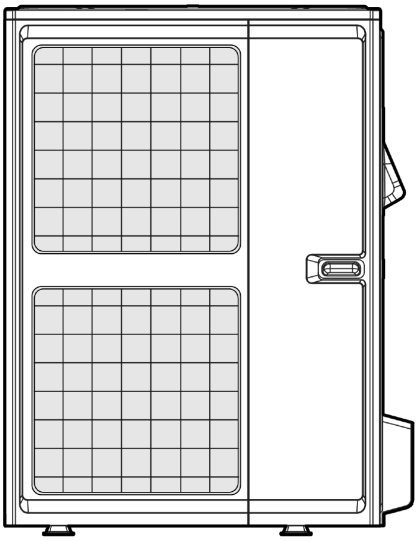
PRODUCT SPECIFICATION

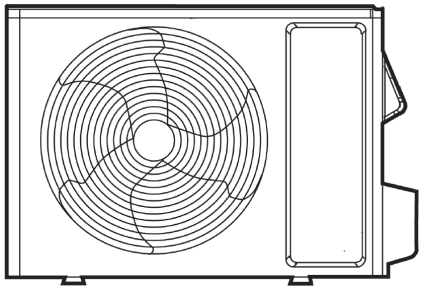
X-SERIES – HEAT PUMP, 2-5 TON

MODEL NO. SPHP-X-10##B

CONTENTS:

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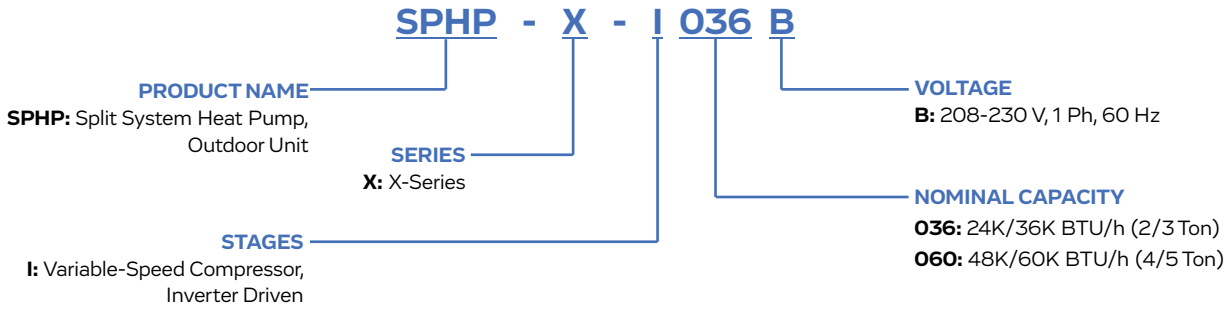


1. FEATURES

- R-32 (A2L) refrigerant. Low flammability, low toxicity, and low GWP.
- 2 capacity settings for each unit: 24K/36K and 48K/60K.
- High efficiency, up to 19 SEER2 and 10.5 HSPF2.
- Energy-efficient, variable-speed, inverter-driven compressor.
- Internal protection against high temperature motor overload conditions.
- Equipped with crankcase heater.
- Fin & Tube condenser with microfin copper tubes and aluminum fins.
- Flared refrigerant line connections.
- Powder-coated galvanized steel construction.
- Troubleshooting LED display.
- 2-way wired communication or standard 24 VAC controls.

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2. NOMENCLATURE



3. SPECIFICATIONS

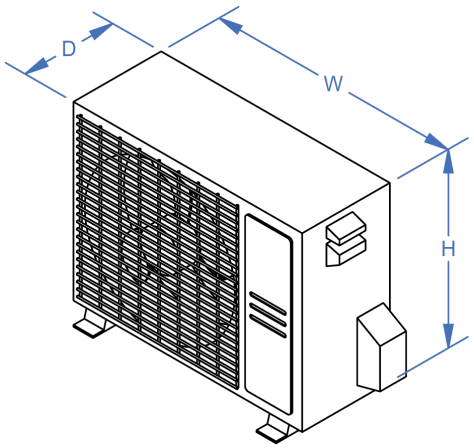
ITEM	UNITS	SPHP-X-I036B		SPHP-X-I060B	
AC Pro #	-	83985		83986	
GENERAL					
System Type	-	Split, Central Ducted			
Unit Type	-	Outdoor Unit, Heat Pump			
Matched Indoor Unit	-	AIRH-X-176B, AIRH-XB-024C1B	AIRH-X-1100B, AIRH-XB-036C1B	AIRH-X-1120B, AIRH-XB-048C1B	AIRH-X-1150B, AIRH-XB-060C1B
Controls Type*1	-	2-Way Communication W/ Matched Indoor Unit, 24V Controls (1H/1C)			
Nominal Capacity	BTU/h	24K	36K	48K	60K
PERFORMANCE*2					
Rated Cooling Capacity*3	BTU/h	24,000	34,000	48,000	53,000
EER2*3	-	12.5	12	12	11.7
SEER2*3	-	18	18	19	18.5
Rated Heating Capacity*4	BTU/h	25,000	34,000	48,000	54,000
HSPF2*4	-	10	10	10	10.5
ELECTRICAL					
Input Voltage, Phases, Frequency*5	V, Ph, Hz	208-230, 1, 60			
Minimum Circuit Ampacity (MCA)	A	21	28	40	40
Maximum Overcurrent Protection (MOCP)	A	25	30	45	45
COMPRESSOR					
Type	-	Rotary, Inverter, DC, Variable			
Rated Load Amps	A	14	20	30	30
OUTDOOR FAN(S)					
Motor Type	-	Brushless DC, Variable		2X: Brushless DC, Variable	
Airflow	CFM	3,176 (Max)		4,000 (Total, Max)	
Full Load Amps	A	3		2X: 1.1	
REFRIGERATION SYSTEM					
Refrigerant	-	R-32			
Refrigerant Pre-Charge	lb – oz	6 – 6.5		10 – 2.5	
Pre-Charged for Lineset Length	ft	24.5		24.5	
Additional Charge Per ft	oz/ft	0.323		0.215	
Max Lineset Length	ft	164		98.5	
Max Height Difference	ft	98.5		49	
Connection Method	-	Flared			
Liquid Connection Size (OD)	in	3/8			
Vapor Connection Size (OD)	in	3/4			
Metering Device	-	EEV			
OPERATION RANGE					
Outdoor Temperature (Cooling)	°F	5 – 129			
Outdoor Temperature (Heating)	°F	-22 – 75			
NOISE LEVEL					
Sound Pressure Level	dB(A)	60	61	62	63

NOTES:
***1.** 2-Way communication is required for full capability. Performance is reduced with 24V controls. Refer to *Installation Instructions*. ***2.** Based on matched system rating. Refer to AHRI directory. *** Where indicated, specifications apply at the following conditions and temperatures: ***3.** Indoor DB 80°F/WB 67°F, Outdoor DB 95°F/WB 75°F; ***4.** Indoor DB 70°F/WB 60°F, Outdoor DB 47°F/WB 43°F. ***5.** Operating voltage is 187-253 VAC.

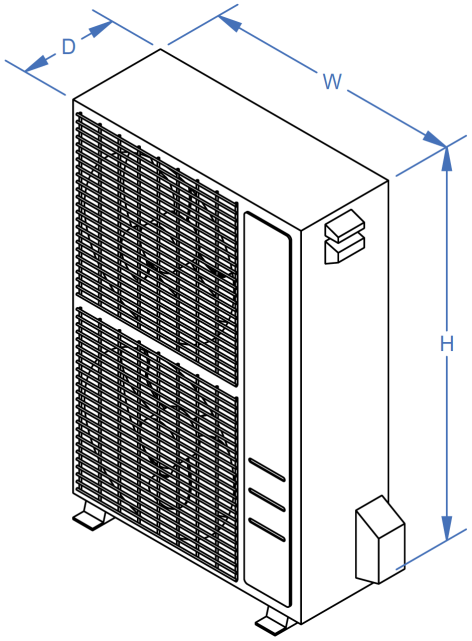
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4. DIMENSIONS AND WEIGHT

SPHP-X-1036B:



SPHP-X-1060B:



NOTE: Image for reference only. Actual appearance may vary.

ITEM	UNITS	SPHP-X-1036B	SPHP-X-1060B
Height (H)	in	37-13/16	49-5/8
Width (W)	in	39	35-7/16
Depth (D)	in	14-15/16	13-7/8
Weight	in	187.5	241.5

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5. EXPANDED RATINGS

OUTDOOR UNIT: MODEL NO. **SPHP-X-1036B (24K)** AC PRO NO. **83985**

INDOOR UNIT: MODEL NO. **AIRH-X-176B** AC PRO NO. **83987**
AIRH-XB-024C1B **84679**

COOLING MODE

Indoor Airflow (CFM)		800			
Outdoor DB (°F)	Indoor WB (°F)	59	63	67	73
	Indoor DB (°F)	70	75	80	90
85	T.C.	21.12	22.56	24.00	26.40
	S.C.	15.63	16.92	18.24	20.33
	I.P.	1.58	1.65	1.70	1.80
90	T.C.	21.12	22.56	24.00	26.40
	S.C.	15.84	17.15	18.48	20.59
	I.P.	1.68	1.76	1.81	1.92
95	T.C.	21.12	22.56	24.00	26.40
	S.C.	15.84	17.15	18.48	20.59
	I.P.	1.79	1.86	1.92	2.10
100	T.C.	21.12	22.56	24.00	26.40
	S.C.	15.84	17.15	18.48	20.59
	I.P.	1.84	1.92	1.98	2.10
105	T.C.	21.12	22.56	24.00	26.40
	S.C.	16.05	17.37	18.72	20.86
	I.P.	1.89	1.97	2.04	2.16
110	T.C.	21.12	22.56	24.00	26.40
	S.C.	16.05	17.37	18.72	20.86
	I.P.	1.93	2.01	2.07	2.20
115	T.C.	20.28	21.66	23.04	25.34
	S.C.	15.61	16.89	18.20	20.28
	I.P.	2.07	2.16	2.23	2.36
120	T.C.	19.64	20.98	22.32	24.55
	S.C.	15.12	16.37	17.63	19.64
	I.P.	2.12	2.22	2.28	2.42

T.C. = Total Cooling Capacity (BTU/h x 1000)
S.C. = Sensible Cooling Capacity (BTU/h x 1000)
I.P. = Electrical Input Power (kW). Includes indoor and outdoor units.
Highlight = Tested Data

HEATING MODE

Indoor Airflow (CFM)		800		
Outdoor DB (°F)	Indoor DB (°F)	70	75	80
5	T.C.	25.00	24.50	24.01
	I.P.	3.66	3.98	4.02
15	T.C.	25.00	24.50	24.01
	I.P.	3.30	3.56	3.59
35	T.C.	25.00	24.50	24.01
	I.P.	2.41	2.51	2.53
47	T.C.	25.00	24.50	24.01
	I.P.	2.03	2.08	2.10
60	T.C.	28.13	27.56	27.01
	I.P.	1.87	1.91	1.93

T.C. = Total Heating Capacity (BTU/h x 1000)
I.P. = Electrical Input Power (kW). Includes indoor and outdoor units.
Highlight = Tested Data

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5. EXPANDED RATINGS (CONTINUED)

OUTDOOR UNIT: MODEL NO. **SPHP-X-1036B (36K)** AC PRO NO. **83985**

INDOOR UNIT: MODEL NO. **AIRH-X-1100B** AC PRO NO. **83988**
AIRH-XB-036C1B **84680**

COOLING MODE

Indoor Airflow (CFM)		1000			
Outdoor DB (°F)	Indoor WB (°F)	59	63	67	73
	Indoor DB (°F)	70	75	80	90
85	T.C.	31.09	33.21	35.33	38.87
	S.C.	22.39	24.25	26.15	29.15
	I.P.	2.36	2.46	2.54	2.69
90	T.C.	30.51	32.59	34.67	38.13
	S.C.	22.27	24.11	26.00	28.98
	I.P.	2.50	2.60	2.68	2.84
95	T.C.	29.92	31.96	34.00	37.40
	S.C.	21.84	23.65	25.50	28.42
	I.P.	2.63	2.75	2.83	3.00
100	T.C.	29.92	31.96	34.00	37.40
	S.C.	21.84	23.65	25.50	28.42
	I.P.	2.71	2.83	2.91	3.09
105	T.C.	29.92	31.96	34.00	37.40
	S.C.	22.14	23.97	25.84	28.80
	I.P.	2.79	2.91	3.00	3.18
110	T.C.	28.72	30.68	32.64	35.90
	S.C.	21.26	23.01	24.81	27.65
	I.P.	2.84	2.96	3.06	3.24
115	T.C.	27.53	29.40	31.28	34.41
	S.C.	20.64	22.35	24.09	26.84
	I.P.	3.05	3.18	3.28	3.48
120	T.C.	25.43	27.17	28.90	31.79
	S.C.	19.07	20.65	22.25	24.80
	I.P.	3.13	3.27	3.37	3.57

T.C. = Total Cooling Capacity (BTU/h x 1000)
S.C. = Sensible Cooling Capacity (BTU/h x 1000)
I.P. = Electrical Input Power (kW). Includes indoor and outdoor units.
Highlight = Tested Data

HEATING MODE

Indoor Airflow (CFM)		1000		
Outdoor DB (°F)	Indoor DB (°F)	70	75	80
5	T.C.	34.00	33.32	32.65
	I.P.	4.98	5.37	5.42
15	T.C.	34.00	33.32	32.65
	I.P.	4.53	4.85	4.89
35	T.C.	34.00	33.32	32.65
	I.P.	3.42	3.55	3.58
47	T.C.	34.00	33.32	32.65
	I.P.	3.02	3.08	3.11
60	T.C.	35.02	34.32	33.63
	I.P.	2.78	2.83	2.86

T.C. = Total Heating Capacity (BTU/h x 1000)
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5. EXPANDED RATINGS (CONTINUED)

OUTDOOR UNIT: MODEL NO. **SPHP-X-1060B (48K)** AC PRO NO. **83986**

INDOOR UNIT: MODEL NO. **AIRH-X-1120B** AC PRO NO. **83989**
AIRH-XB-048C1B **84681**

COOLING MODE

Indoor Airflow (CFM)		1200			
Outdoor DB (°F)	Indoor WB (°F)	59	63	67	73
	Indoor DB (°F)	70	75	80	90
85	T.C.	43.41	46.37	49.33	54.27
	S.C.	31.26	33.85	36.51	40.70
	I.P.	3.45	3.60	3.71	3.94
90	T.C.	42.83	45.75	48.67	53.53
	S.C.	31.26	33.85	36.50	40.69
	I.P.	3.59	3.74	3.86	4.09
95	T.C.	42.24	45.12	48.00	52.80
	S.C.	30.84	33.39	36.00	40.13
	I.P.	3.72	3.88	4.00	4.24
100	T.C.	42.24	45.12	48.00	52.80
	S.C.	30.84	33.39	36.00	40.13
	I.P.	3.83	4.00	4.12	4.37
105	T.C.	42.24	45.12	48.00	52.80
	S.C.	31.26	33.84	36.48	40.66
	I.P.	3.94	4.11	4.24	4.49
110	T.C.	41.82	44.67	47.52	52.27
	S.C.	30.95	33.50	36.12	40.25
	I.P.	4.02	4.19	4.32	4.58
115	T.C.	40.13	42.86	45.60	50.16
	S.C.	30.10	32.58	35.11	39.12
	I.P.	4.32	4.50	4.64	4.92
120	T.C.	38.44	41.06	43.68	48.05
	S.C.	28.83	31.20	33.63	37.48
	I.P.	4.43	4.62	4.76	5.05

T.C. = Total Cooling Capacity (BTU/h x 1000)
S.C. = Sensible Cooling Capacity (BTU/h x 1000)
I.P. = Electrical Input Power (kW). Includes indoor and outdoor units.
Highlight = Tested Data

HEATING MODE

Indoor Airflow (CFM)		1200		
Outdoor DB (°F)	Indoor DB (°F)	70	75	80
5	T.C.	48.00	47.04	46.10
	I.P.	7.03	7.47	7.54
15	T.C.	48.00	47.04	46.10
	I.P.	6.43	6.79	6.86
35	T.C.	48.00	47.04	46.10
	I.P.	4.95	5.11	5.16
47	T.C.	48.00	47.04	46.10
	I.P.	4.26	4.35	4.39
60	T.C.	49.44	48.45	47.48
	I.P.	3.92	4.00	4.04

T.C. = Total Heating Capacity (BTU/h x 1000)
I.P. = Electrical Input Power (kW). Includes indoor and outdoor units.
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5. EXPANDED RATINGS (CONTINUED)

OUTDOOR UNIT: MODEL NO. **SPHP-X-1060B (60K)** AC PRO NO. **83986**

INDOOR UNIT: MODEL NO. **AIRH-X-1150B** AC PRO NO. **83990**
AIRH-XB-060C1B **84682**

COOLING MODE

Indoor Airflow (CFM)		1500			
Outdoor DB (°F)	Indoor WB (°F)	59	63	67	73
	Indoor DB (°F)	70	75	80	90
85	T.C.	48.69	52.01	55.33	60.87
	S.C.	35.06	37.97	40.95	45.65
	I.P.	4.01	4.18	4.31	4.57
90	T.C.	48.11	51.39	54.67	60.13
	S.C.	35.12	38.03	41.00	45.70
	I.P.	4.15	4.33	4.46	4.73
95	T.C.	47.52	50.76	54.00	59.40
	S.C.	34.69	37.56	40.50	45.14
	I.P.	4.29	4.48	4.62	4.89
100	T.C.	47.52	50.76	54.00	59.40
	S.C.	34.69	37.56	40.50	45.14
	I.P.	4.42	4.61	4.75	5.04
105	T.C.	47.52	50.76	54.00	59.40
	S.C.	35.16	38.07	41.04	45.74
	I.P.	4.55	4.75	4.89	5.19
110	T.C.	45.62	48.73	51.84	57.02
	S.C.	33.76	36.55	39.40	43.91
	I.P.	4.64	4.83	4.98	5.28
115	T.C.	43.72	46.70	49.68	54.65
	S.C.	32.79	35.49	38.25	42.63
	I.P.	4.98	5.19	5.35	5.67
120	T.C.	40.39	43.15	45.90	50.49
	S.C.	30.29	32.79	35.34	39.38
	I.P.	5.11	5.33	5.49	5.82

T.C. = Total Cooling Capacity (BTU/h x 1000)
S.C. = Sensible Cooling Capacity (BTU/h x 1000)
I.P. = Electrical Input Power (kW). Includes indoor and outdoor units.
Highlight = Tested Data

HEATING MODE

Indoor Airflow (CFM)		1500		
Outdoor DB (°F)	Indoor DB (°F)	70	75	80
5	T.C.	54.00	52.92	51.86
	I.P.	7.55	8.41	8.49
15	T.C.	54.00	52.92	51.86
	I.P.	6.96	7.65	7.73
35	T.C.	54.00	52.92	51.86
	I.P.	5.49	5.76	5.81
47	T.C.	54.00	52.92	51.86
	I.P.	4.80	4.90	4.94
60	T.C.	55.62	54.51	53.42
	I.P.	4.42	4.50	4.55

T.C. = Total Heating Capacity (BTU/h x 1000)
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