

Solstice® Inverter Split Air-to-Water Heat Pump

FEATURES AND BENEFITS

- Supplies Low Temperature Water for Heating & Chilled Water for Cooling
- Reliable Panasonic EVI Inverter Compressor
- High Performance Heating in Cold Climates Extremes Down to -22°F
- 41-130°F Delivered Water Temperatures (Controls on Supply)
- Available in 5-ton Model
- Split Design Provides the Flexibility to Reduce the Use of Glycol in the Hydronic Loop
- SIS System Includes both Indoor and Outdoor Units, Refrigerant Line Set (35'), and Control Wire (50')
- Simple Indoor Piping Similar to Wall Hung Boilers
- Freeze Protection
- Low Amp Draw with Ultra Quiet Operation
- User Friendly Touch Screen Control
- Precision Temperature Control Platform
- DC Driven Fan Motors & EC Modulating Fans
- Outdoor coils have been tested in accordance with GB/T 2432.17 salt spray test
- Eligible for Rebates
- **Industry Leading 10-Year Compressor Warranty**
5-Year Parts Warranty for Certified Contractors



260 North Elm St., Westfield, MA 01085
(800) 465-8558

7555 Tranmere Drive, Mississauga, ONT. L5S 1L4 Canada
(905) 670-5888

www.spacepak.com

PROJECT: _____ DATE: _____

LOCATION: _____

CUSTOMER: _____

ENGINEER: _____

SUBMITTED BY: _____

FOR: Reference Approval Construction

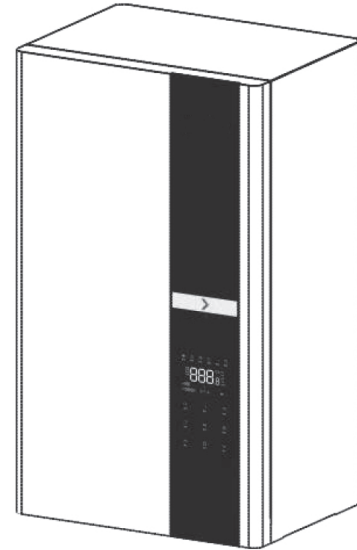
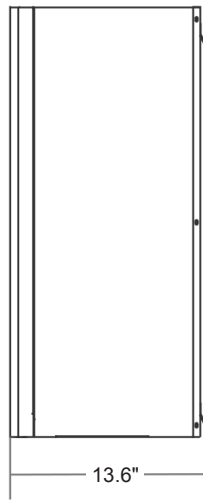
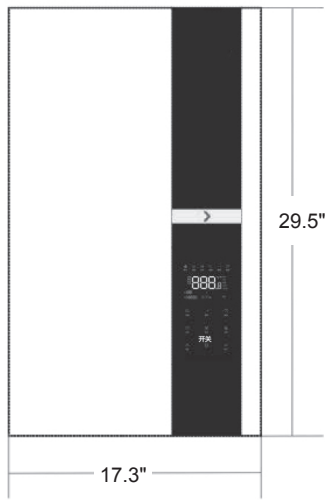
UNIT DESIGNATION: _____

SCHEDULE NUMBER: _____

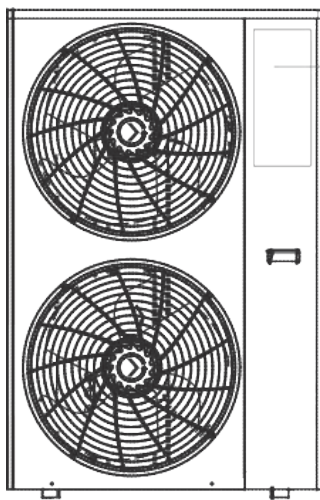
SUBMITTAL DATA: Heat Pump SIS Series

SIS DIMENSIONS (INCHES)

Indoor Unit



Outdoor Unit



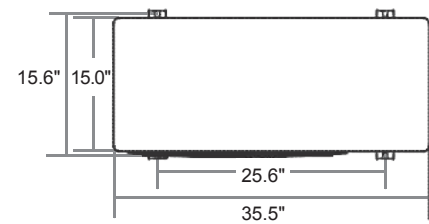
Electrical components behind panel.

Wire holes
Valve cover

3.7"

3.4"

54.7"



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SIS SPECIFICATIONS

		Units	Outdoor	Indoor
Cooling	Capacity Range	BTU/hr (kW)	21,484-74,489 (7-22)	
	Efficiency Range	EER	7.12-18.05	
	Efficiency	IPLV	17.14	
	Delivered Water Temp Range	°F (°C)	41-68 (5-20)	
	Ambient Temp Range	°F (°C)	5-109 (-15-43)	
Heating	Capacity Range	BTU/hr (kW)	10,412-76,023 (3-22)	
	Efficiency Range	COP	1.19-3.92	
	Delivered Water Temp Range	°F (°C)	60-130 (16-55)	
	Ambient Temp Range	°F (°C)	-22-90 (-30-32)	
CEC Data	Cooling Capacity*	BTU/hr (kW)	39,714 (12)	
	Cooling Efficiency*	EER	8.14	
	Heating Capacity**	BTU/hr (kW)	55,499 (16)	
	Heating Efficiency**	COP	2.9	
	Heating Capacity***	BTU/hr (kW)	37,505 (11)	
	Heating Efficiency***	COP	1.9	
Electrical	Power	V/Ph/Hz	230/1/60	
	Fan Motor	A	1 (x2)	N/A
	Compressor Motor	A	30A	N/A
	MCA	A	40	15
	MOPD	A	50	15
	SCCR	kA	10	5
Refrigerant	Type		R410A	
	Factory Charge	lbs. (kg)	7.7 (3.5)	N/A
Fan	Quantity		2	N/A
	Power Input	W	200 (x2)	N/A
	Type		EC	N/A
	Max Speed	RPM	700	N/A
Sound	Range	dBA	50	38
Hydronic	Rated Flow	GPM	12	
	Max Water Temp	°F (°C)	130 (55)	
	Piping Connections	inch (cm)	N/A	1 (2.5)
	Rated Pressure Drop @ Rated Flow	PSI (ft W.C.)	N/A	10.7 (24.7)
Compressor	Type		Rotary Inverter, EVI	N/A
	Speed Range	Hz	30-90	N/A
	Brand		Panasonic	N/A
	Quantity		1	N/A
Dimensions	Net Dimensions (W x D x H)	inch (cm)	35x15x55 (89 x 38 x 140)	17x14x30 (43 x 36 x 76)
	Shipping Dimensions (W x D x H)	inch (cm)	37x17x55 (94 x 43 x 140)	33x21x17 (84 x 53 x 43)
	Net Weight	lbs. (kg)	293 (133)	132 (60)
	Shipping Weight	lbs. (kg)	337 (153)	158 (72)

CEC is California Energy Commission. Data is tested in accordance with AHRI 550/590

*= 44°F LWT 54°F EWT @9 GPM & 95°F DB Ambient

**= 120°F LWT 107°F EWT @9 GPM & 47°F DB Ambient

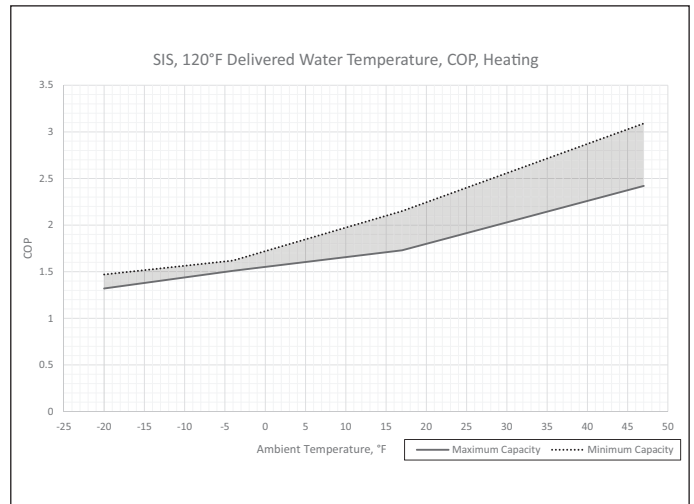
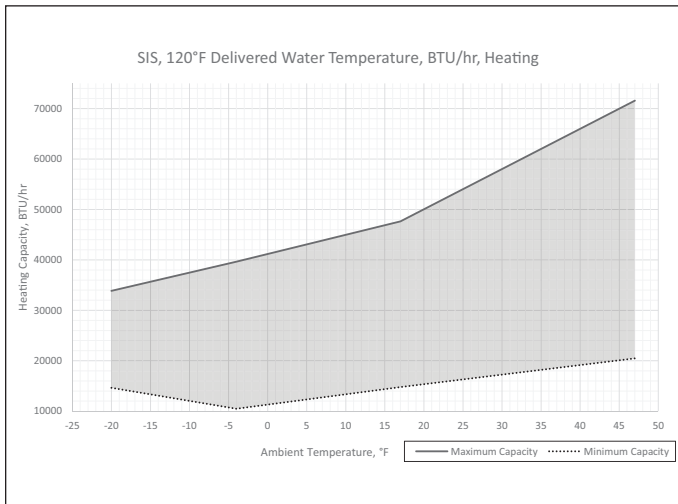
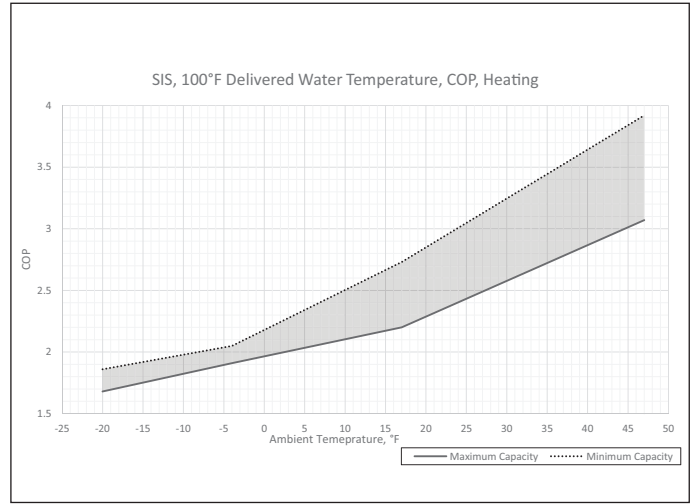
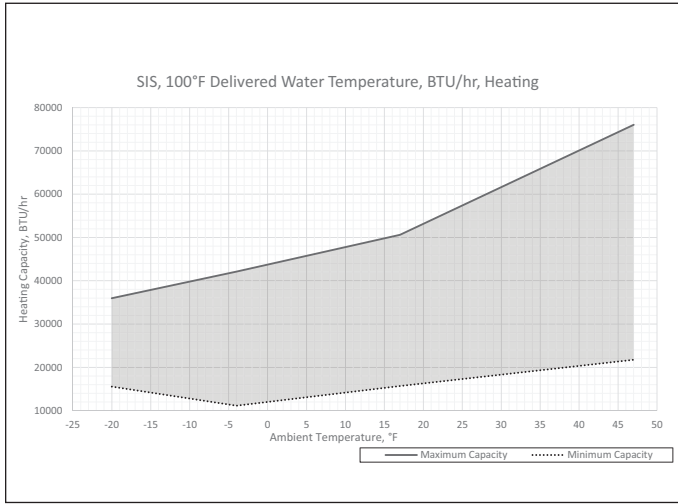
***= 120°F LWT 110°F EWT @10 GPM & 17°F DB Ambient

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		Heating				Cooling						
HZ	Water Temp	Ambient	Capacity	kW	COP	HZ	Water Temp	Ambient	Capacity	kW	EER	
90	100	-20	35,967	6.28	1.68	78	60	76	74,489	5.19	14.34	
		-4	42,109	6.46	1.91			89	66,912	5.89	11.36	
		17	50,609	6.75	2.20			95	63,125	6.38	9.90	
		47	76,023	7.26	3.07			101	58,449	6.79	8.60	
	120	-20	33,863	7.50	1.32		45	76	60,396	5.09	11.87	
		-4	39,645	7.70	1.51			89	54,253	5.77	9.40	
		17	47,648	8.05	1.73			95	51,182	6.25	8.19	
		47	71,574	8.66	2.42			101	47,391	6.66	7.12	
	130	-20	33,694	8.28	1.19	60	60	76	60,396	3.59	16.81	
		-4	39,368	8.73	1.32			89	54,253	4.07	13.32	
		17	47,315	9.12	1.52			95	51,182	4.41	11.60	
		47	71,074	9.81	2.12			101	47,391	4.70	10.09	
60	100	-20	15,535	2.45	1.86		45	76	50,310	3.51	14.34	
		-4	21,677	3.10	2.05			89	45,193	3.98	11.36	
		17	32,388	3.45	2.75			95	42,635	4.31	9.90	
		47	51,626	3.83	3.95			101	39,477	4.59	8.60	
	120	-20	14,627	2.92	1.47		30	60	76	35,231	1.95	18.05
		-4	20,409	3.70	1.62				89	31,648	2.21	14.30
		17	30,493	4.12	2.43				95	29,856	2.40	12.45
		47	48,605	4.57	3.12				101	27,645	2.55	10.83
	130	-20	14,553	3.23	1.32	45		76	27,380	1.73	15.82	
		-4	20,266	4.19	1.42			89	24,595	1.96	12.53	
		17	30,280	4.66	1.90			95	23,203	2.13	10.92	
		47	48,265	5.18	2.73			101	21,484	2.26	9.49	
30	100	-20							-20			
		-4	11,137	1.60	2.05				-4	11,137	1.60	2.05
		17	15,696	1.69	2.73				17	15,696	1.69	2.73
		47	21,746	1.63	3.92				47	21,746	1.63	3.92
	120	-20							-20			
		-4	10,486	1.90	1.62				-4	10,486	1.90	1.62
		17	14,777	2.01	2.15				17	14,777	2.01	2.15
		47	20,473	1.94	3.09				47	20,473	1.94	3.09
	130	-20							-20			
		-4	10,412	2.16	1.42				-4	10,412	2.16	1.42
		17	14,674	2.28	1.89				17	14,674	2.28	1.89
		47	20,330	2.20	2.71				47	20,330	2.20	2.71

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SIS HEATING PERFORMANCE



For more performance data,
please scan QR code