

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 -20°F
- 42-130°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
- Eligible for Rebates
- **Industry Leading 10-Year Compressor Warranty**
- **5-Year Parts Warranty for Certified Contractors**



SPACE PAK®

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

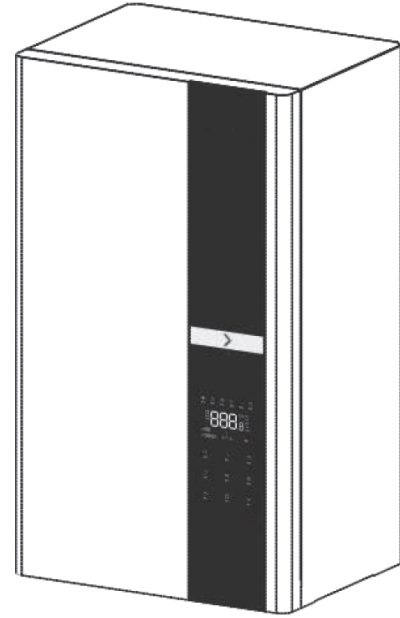
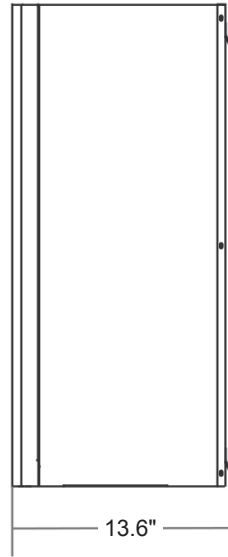
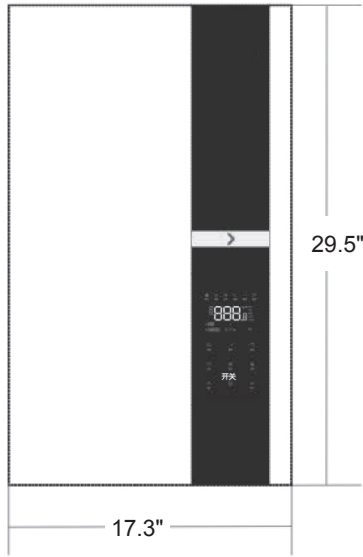
UNIT DESIGNATION: _____

SCHEDULE NUMBER: _____

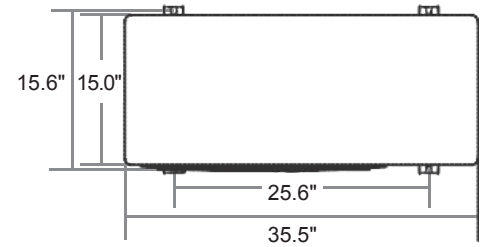
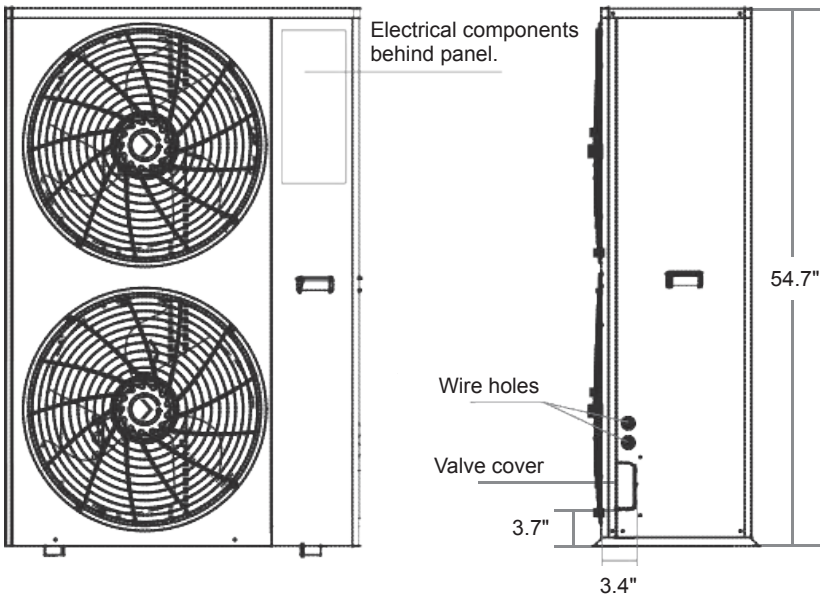
SUBMITTAL DATA: Heat Pump SIS Series

SIS DIMENSIONS (INCHES)

Indoor Unit



Outdoor Unit



SUBMITTAL DATA: Heat Pump SIS Series

SIS SPECIFICATIONS

		Units	Outdoor	Indoor
Cooling	Capacity Range***	BTU/hr	30,000-62,400	
	Efficiency Range ***	EER	12.5	
	Efficiency ****	IPLV	17.14	
	Delivered Water Temp Range	DegF	60-130	
	Ambient Temp Range	DegF	50-109	
Heating	Capacity Range*	BTU/hr	20,473-71,574	
	Efficiency Range*	COP	Up to 3.09	
	Capacity Range**	BTU/hr	14,777-47,315	
	Efficiency Range**	COP	Up to 2.15	
	Delivered Water Temp Range	DegF	60-140	
	Ambient Temp Range	DegF	-20-90	
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.	7.7	N/A
	Refrigeration Connection		3/8 & 5/8 Flare	
	Normal Pressure Low Side	PSIG	132	132
	Normal Pressure High Side	PSIG	409	409
Fan	Quantity		2	N/A
	Power Input	W	200 (x2)	N/A
	Type		EC	N/A
	Max Speed	RPM	700	N/A
Sound (@3meters)	Maximum	dBA	50	38
Hydronic	Rated Flow	GPM	12	
	Max Water Temp	DegF	130	
	Piping Connections	inch	N/A	1"
	Rated Pressure Drop	PSI (ft W.C.)	N/A	10.7/24.7
Compressor	Type		EC Controlled	N/A
	Speed Range	HZ	30-90	
	Quantity		1	N/A
Dimensions	Net Dimensions (L x W x H)	inch	35x15x55	17x14x30
	Shipping Dimensions (L x W x H)	inch	37x17x55	33x21x17
	Net Weight	lbs.	293	132
	Shipping Weight	lbs.	337	158

* Water Out - 120°F Ambient - 47°F, GPM-12

** Water Out - 120°F, Ambient - 17°F, GPM-12

*** Water Out - 45°F, Ambient (DB/WB)@ - 95°F/86°F, GPM-12

**** IPLV is the recognized measurement of efficiency for Integrated

Part Load Values in accordance with AHRI 550/590.

Ambient Temp = 95°F. Delivered Water= 44°F (8.5GPM)

All Data based on pure water.

SIS Air-to-Water Heat Pumps modulate capacity based upon outlet water temperature. Temperatures shown above are delivered water temperature. Refer to the following performance charts to see the expected.

SUBMITTAL DATA: Heat Pump SIS Series

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	45	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		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	45	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		60	60	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	45	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	60		60	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	10,486	1.90	1.62
		17	15,696	1.69	2.73				17	14,777	2.01	2.15
		47	21,746	1.63	3.92				47	20,473	1.94	3.09
	120	-20							-20			
		-4	10,486	1.90	1.62				-4	10,412	2.16	1.42
		17	14,777	2.01	2.15				17	14,674	2.28	1.89
		47	20,473	1.94	3.09				47	20,330	2.20	2.71
	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