solstice®
HEAT PUMPS

R32 Series
Cold Climate Air-to-Water Heat Pump

R454B Series
High-Temp Air-to-Water Heat Pump



SPACE PAK®

The innovator of small duct high velocity air distribution systems and North American industry experts of air-to-water heat pump technology.

A future-proof solution for all-electric heating, cooling, and hot water.

Industry Leading Cold Climate Performance Down to -22°F

Warmlink
Introducing modern device management at your fingertips - A remote monitoring and system management tool for installers.

All comfort. No compromise.

Solstice® air-to-water heat pumps combine the advantages of air-source heat pump technology with the unsurpassed comfort and flexibility of hydronic heating and cooling.

No other heat transport material provides the versatility, safety, reliability, energy efficiency or environmental compatibility of water.

- One system
- Multiple advantages
- Unlimited flexibility

Design freedom at its finest.

- Heat, cool, domestic hot water from same outdoor unit
- Easy integration of thermal storage, solar PV and dual fuel back up
- Mix and match a variety of emitter styles such as radiators, radiant floors and panels, centrally ducted forced air and ductless fan coils
- Remote mount unit up to 600 ft away, on roofs, or under decks, without loss of performance
- Superior dehumidification benefit of chilled water cooling
- Unprecedented load matching
- Ideal for zoning and easy future expandability
- Compatible with existing heating systems
- Ideal for curb appeal and historic districts
- Advanced sophistication of controls

Solstice heat pumps are the ultimate decarbonization and hybrid solution for virtually any application in both retrofit, new construction, residential, and light commercial applications.



Green By Nature

Unlike traditional air-source systems that circulate refrigerant indoors to transfer thermal energy, hydronic heat pumps harness the clean, efficient properties of water, making them the ideal choice for promoting health, comfort, and safety.



Why Solstice?

Industry Pioneers – We introduced air-to-water heat pump technology to the North American market in 2011 and have led the way in driving its adoption ever since.

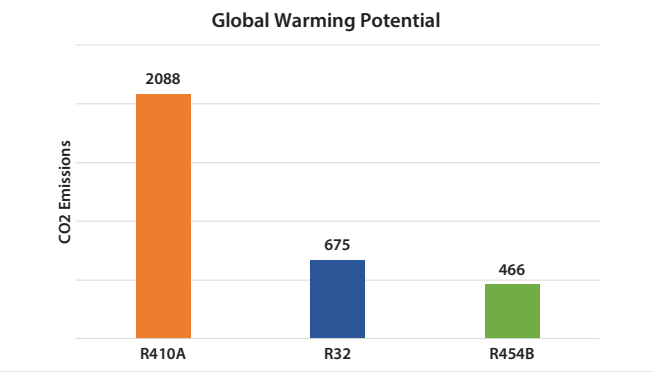
Proven Performance – With thousands of successful installations across the U.S. and Canada, Solstice heat pumps have earned the trust of industry professionals for their unmatched reliability and efficiency.

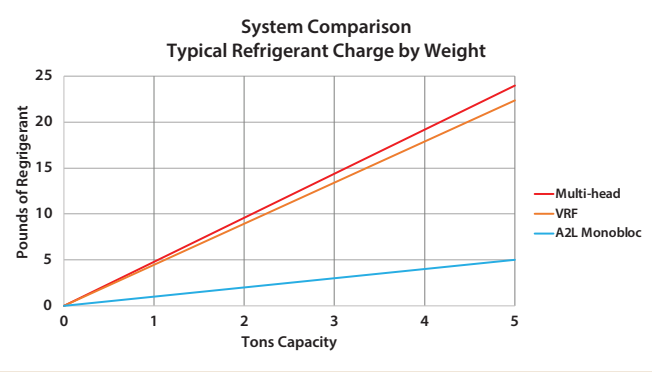
Unrivaled Warranty – Solstice heat pumps come with an industry-leading 10-year compressor warranty and 5-year parts warranty for SpacePak-certified installers, ensuring long-term peace of mind.

Backed by Mestek – As part of Mestek, a leader in hydronic heating and cooling manufacturing for over 75 years, SpacePak offers unparalleled expertise, training, and support to our partners.

Environmentally friendly A2L refrigerants allows for higher operational efficiencies and improved capacities with less total overall refrigerant volume.

- Zero Ozone Depletion Potential (ODP = 0)
- Low Global Warming Potential
- Meets the AIM Act Regulations
- Rebate Eligible





Is a system truly sustainable if it's vulnerable to future legislation?

Unlike the split-type air source heat pump systems, forward-thinking Solstice sourced hydronic systems are sure to remain safe and compatible as regulations continue to evolve.

Solstice® R32 Series Cold Climate Air-to-Water Heat Pump (CC32)

Standard Features

- Heating, Cooling, and Domestic Hot Water offset
- High performance heating down to -22°F (-30°C)
- Max suggested water temperatures of 140°F (60°C)
- Available in 1.5, 3, and 5-ton model
- Quietest unit on the market (41dB(a) @ 3 feet)
- Reliable Panasonic inverter driven EVI compressor
- Eco-safe and future-proof monobloc design
- Advanced flexible internal controls
  - User-friendly color touch screen
  - Intelligent defrost
  - Outdoor air reset
  - Modbus compatible
- Freeze protection
- Intelligent defrost

CC32 Specifications

		Units	CC32-18	CC32-40	CC32-60
Cooling	Capacity Range	BTU/hr (kW)	8,400 - 22,800 (2.5 - 6.7)	15,600 - 39,600 (4.6 - 11.6)	21,600 - 57,600 (6.3 - 16.9)
	Efficiency Range	EER	8.12 - 8.67	6.82 - 8.98	7.77 - 8.99
	Efficiency	IPLV	16.81	16.75	14.46
	Delivered Water Temp Range	°F (°C)	41 - 77 (5 - 25)		
	Ambient Temp Range	°F (°C)	50 - 109 (10 - 43)		
Heating	Capacity Range	BTU/hr (kW)	3,600 - 23,000 (1.1 - 6.7)	8,000 - 42,000 (2.3 - 12.3)	12,000 - 72,000 (3.5 - 21.1)
	Efficiency Range	COP	0.95 - 8.64	0.99 - 9.09	0.98 - 9
	Delivered Water Temp Range	°F (°C)	95-140		
	Ambient Temp Range	°F (°C)	-22 -110		
CEC Data	Cooling Capacity*	BTU/hr (kW)	17183 (5.0)	35120 (10.3)	52001 (15.2)
	Cooling Efficiency*	EER	10.43	9.9	8.85
	Heating Capacity**	BTU/hr (kW)	18919 (5.5)	35424 (10.4)	62760 (18.4)
	Heating Efficiency**	COP	3.07	2.9	3.13
	Heating Capacity***	BTU/hr (kW)	10189 (3.0)	26222 (7.7)	42700 (12.5)
	Heating Efficiency***	COP	1.52	2.23	2.06
Electrical	Power	V/Ph/Hz	208-230/1/60		
	Fan Motor	A	0.8		2 x 0.8
	Compressor Motor	A	12.2	21	33.5
	MCA	A	17	28	44
	MOPD	A	25	45	70
	SCCR	kA	5kA		
Refrigerant	Type		R32		
	Factory Charge	lbs. (kg)	2.43 (1.1)	3.97 (1.8)	4.41 (2)
Fan	Quantity		1	1	2
	Power Input	W	150	170	75 (x2)
	Type		DC		
	Max Speed	RPM	600		
Sound (@1meters)	Maximum	dBA	41	43	46
Hydronic	Rated Flow	GPM	4.4	7.5	12.8
	Max Water Temp	°F (°C)	140 (60)		
	Piping Connections	inch (cm)	1 (2.54)		
	Rated Pressure Drop	PSI (ft W.C.)	2.9 (6.7)	4.4 (10.2)	6.5 (15)
Compressor	Type		Rotary		
	Speed Range	Hz	30-90		
	Brand		Panasonic		
	Quantity		1		
Dimensions	Net Dimensions (W x D x H)	inch (cm)	46 x 16 x 32 (117 x 41 x 80)	51 x 18 x 37 (129 x 46 x 93)	50 x 22 x 53 (125 x 54 x 133)
	Shipping Dimensions (W x D x H)	inch (cm)	54 x 22 x 39 (138 x 56 x 100)	59 x 24 x 46 (150 x 61 x 117)	58 x 26 x 60 (148 x 67 x 153)
	Net Weight	lbs. (kg)	200 (90)	292 (132)	459 (208)
	Shipping Weight	lbs. (kg)	304 (138)	391 (178)	535 (243)

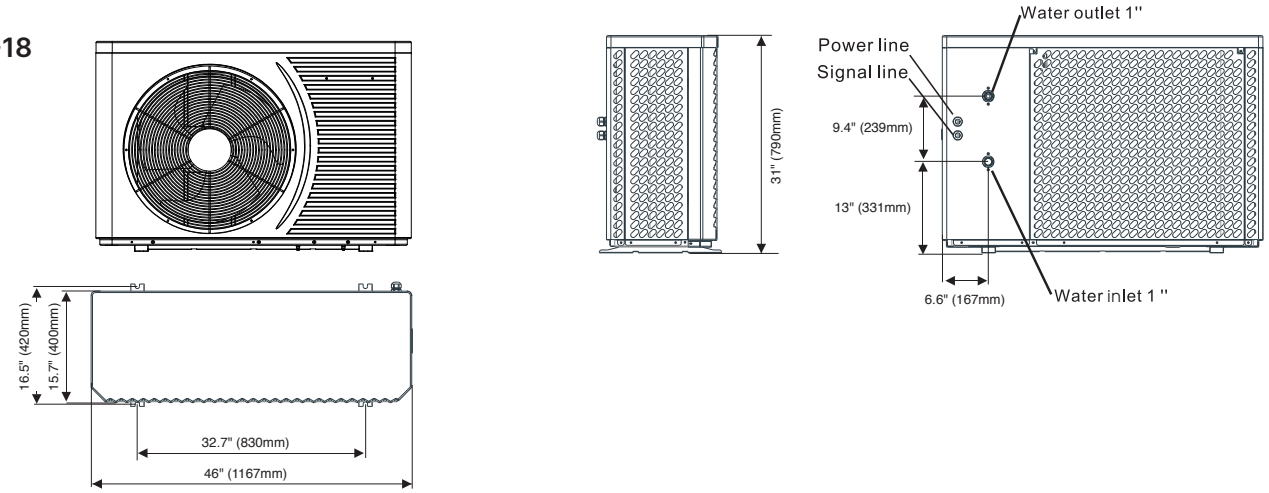
CEC is California Energy Commission. Data is tested in accordance with AHRI 550/590
*44°F LWT 54°F EWT @3.75 at CC32-18/6.17 at CC32-40/11.45 at CC32-60 GPM & 95°F DB Ambient
**120°F LWT 107°F EWT @4.4 at CC32-18/7.5 at CC32-40/12.8 at CC32-60 GPM & 47°F DB Ambient
***120°F LWT 110°F EWT @4.4 at CC32-18/7.5 at CC32-40/12.8 at CC32-60 GPM & 17°F DB Ambient

CC32 Manual

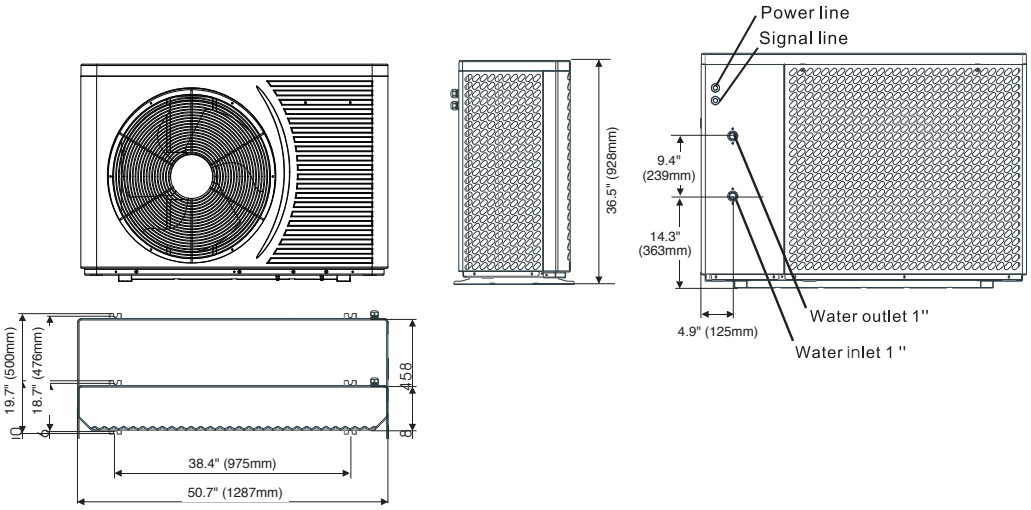
Solstice® R32 Series Cold Climate Air-to-Water Heat Pump (CC32)

Unit Dimensions (inch (mm))

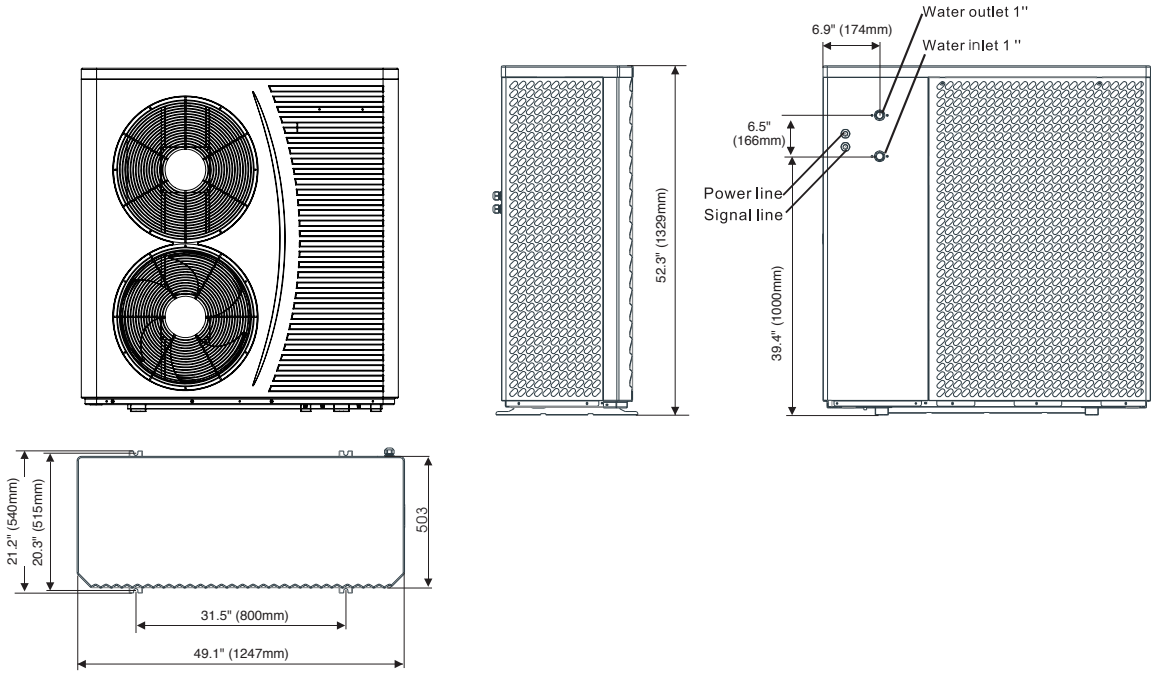
CC32-18



CC32-40



CC32-60



Solstice® R454B Series High-Temp Air-to-Water Heat Pump (HT454B)

Standard Features

- Heating, Cooling, and DHW offset
- High performance heating down to -22°F (30°C)
- Max suggested water temperatures of 150° (66°C)
- 150°F (66°C) Supply at 14°F (-10°C) ambient
- 120°F (49°C) Supply at -22°F (30°C) ambient
- Available in 3.5 and 5-ton models
- Quietest units on the market (41dB(a) @ 3 ft)
- Reliable inverter driven EVI compressor
- Eco-safe and future-proof monobloc design
- Freeze protection
- Intelligent defrost
- Advanced flexible internal controls
  - User-friendly color touch screen
  - Intelligent defrost
  - Outdoor air reset
  - Modbus compatible

HT454B Specifications

		Units	HT454B-40	HT454B-60
Cooling	Capacity Range	BTU/hr (kW)	15,000 - 50,500 (3.9 - 17.6)	18,000 - 61,800 (5.2 - 18.1)
	Efficiency Range	EER (BTU/Wh)	9.80-11.67	8.46 - 13.00
	Efficiency	IPLV (BTU/Wh)	13.37	11.33
	Delivered Water Temp Range	°F (°C)	41 - 77 (5 - 25)	
	Ambient Temp Range	°F (°C)	5-109 (-15-45)	
Heating	Capacity Range	BTU/hr (kW)	8,000 - 46,500 (2.3 - 136)	12,000 - 73,500 (6.4 - 21.5)
	Efficiency Range	COP	1.70-4.40	1.73 - 4.55
	Delivered Water Temp Range	°F (°C)	95-150 (35-66)	
	Ambient Temp Range	°F (°C)	-22-77 (-30 -25)	
CEC Data	Cooling Capacity*	BTU/hr (kW)	46,369 (13.6)	54,608 (16.0)
	Cooling Efficiency*	EER	9.80	8.46
	Heating Capacity**	BTU/hr (kW)	46,500 (17.6)	73584 (21.6)
	Heating Efficiency**	COP	3.42	3.02
	Heating Capacity***	BTU/hr (kW)	41592 (12.2)	51,263 (15.0)
	Heating Efficiency***	COP	2.44	2.31
Domestic Water	Capacity Range	BTU/hr (kW)	10,000 - 62,000 (2.9 - 18.1)	15,000 - 76,500 (4.4 - 22.4)
	Efficiency Range	COP	1.70 - 3.7	Data Pending
	Delivered Water Temp Range	°F (°C)	95-150 (35-66)	
	Ambient Temp Range	°F (°C)	-22-113(-30-45)	
Electrical	Power	V/Ph/Hz	208-230/1/60	
	Fan Motor	A	0.8	2 x 1.0
	Compressor Motor	A	19.5	19.5
	MCA (@240V)	A	41	42
	MOPD (@240V)	A	70	70
	SCCR	kA	5kA	
Refrigerant	Type		R454B	
	Factory Charge	lbs. (kg)	5.7 (2.6)	6.2 (2.8)
Fan	Quantity		1	2
	Power Input	W	170	75 (x2)
	Type		DC	
	Max Speed	RPM	700	
Sound (@1meters)	Maximum	dBA	43	46
Hydronic	Rated Flow	GPM (m3/hr))	8.2 (1.86)	10.9 (2.48)
	Max Water Temp	°F (°C)	150 (66)	
	Piping Connections	NPT (mm)	1" (25)	
	Rated Pressure Drop	ft W.C. (kPa)	6.7 (20)	8.36 (25)
Compressor	Type		Rotary	
	Speed Range	Hz	30 - 90	
	Brand		Mitsubishi	
	Quantity		1	
Dimensions	Net Dimensions (L x W x H)	inch (mm)	51 x 18 x 37 (1295 x 457 x 940)	50 x 22 x 53 (1270 x 559 x 1346)
	Shipping Dimensions (L x W x H)	inch (mm)	59 x 24 x 46 (1499 x 610 x 1169)	58 x 26 x 60 (1473 x 661 x 1524)
	Net Weight	lbs. (kg)	340 (155)	400 (181)
	Shipping Weight	lbs. (kg)	380 (173)	440 (200)

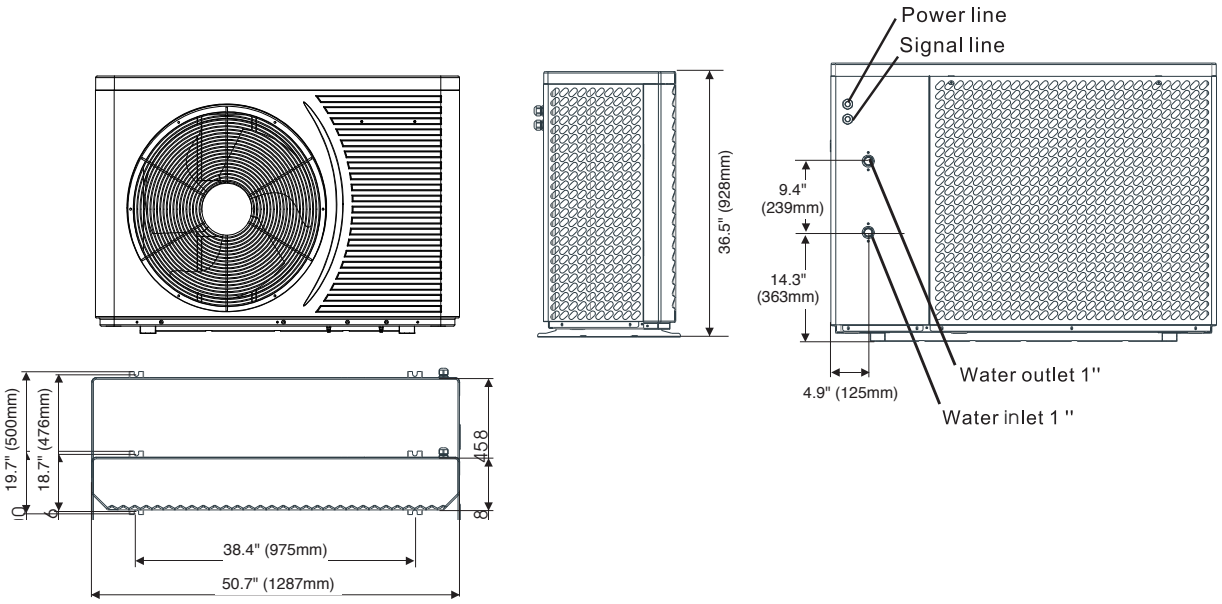
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CEC Data to follow

HT454B Manual

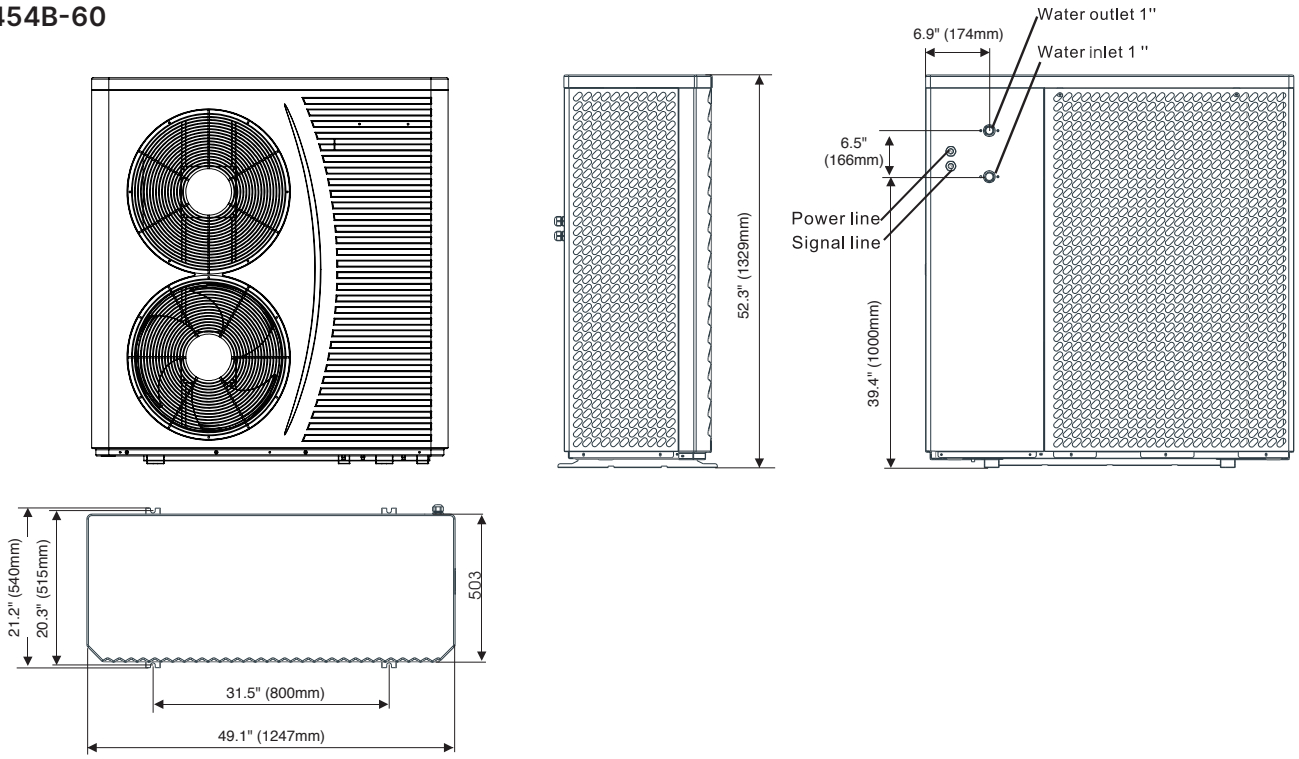
Solstice® R454B Series High-Temp Air-to-Water Heat Pump (HT454B)

Unit Dimensions (inch (mm))

HT454B-40



HT454B-60



Certification Training, Extended Warranty, Sales Support

SpacePak Offers Factory Authorized Trainings for Certification on:

- Small Duct High Velocity Equipment
- Air-to-Water Heat Pump & Hydronic Equipment

Certification Training Methods:

- Online Webinar Training
- Local Field Training
- Corporate Headquarter Factory Training

Benefits of Becoming a SpacePak Certified Contractor:

- Local Leads
- Listed on SpacePak Website
- Pre-Sale Application Support and Load Calculations
- Marketing Support
- Extended Warranty



Extended Warranty for SpacePak Certified Contractors as Follows:

- **Inverter Air-to-Water Heat Pumps**
  Five (5) year parts and a ten (10) year compressor warranty
- **Small Duct High Velocity, Hydronic Fan Coils and Associated Equipment**
  Five (5) year parts warranty
- **Buffer Tanks**
  Standard Ten (10) year warranty

To Be Eligible for Extended Warranties:

- Project/equipment must be registered via the Product Registration portal on the SpacePak website.
- Installation must have been performed by a SpacePak Certified Contractor in good standing at the time of installation.

Click or Scan

Contact your local SpacePak Manufacturer's Representative!

Product development and continuous improvement are at SpacePak's core. As such, there may be changes or modifications to products, without notice. In addition, the information and specifications presented in this document are provided as is, without guarantee or warranty of any kind, expressed or implied. For the most up-to-date information regarding our products, you may contact our Customer Service group at custservice@spacepak.com.

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