



Product Information Guide

THE ORIGINAL
SMALL DUCT
CENTRAL AIR
DISTRIBUTION SYSTEM





At Home in Historical Houses and New Construction

SpacePak is the original, small duct cooling/heating solution for older homes not equipped for central air (heated with hot water, steam or radiant electric heat) and new homes featuring hydronic heating systems, including radiant floor heating.

SpacePak's successful track record includes thousands of residential installations and opens up profitable opportunities for contractors. Ease of installation and quiet, efficient operation make SpacePak the number one choice of quality-conscious contractors, homeowners and building owners.

Ideal for Light Commercial and Institutional Applications

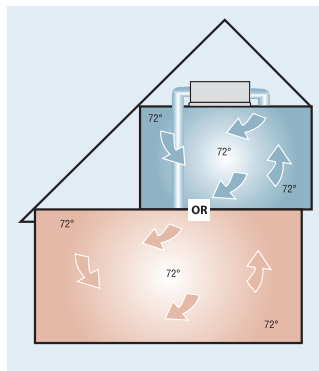
SpacePak installations are not limited to residential construction. SpacePak systems may also be installed in a wide variety of commercial and institutional buildings, libraries, municipal buildings, museums, apartment buildings, condos and multi-family housing units. The same attractive installation and performance benefits that make SpacePak ideal for the residential market give contractors and building owners a cost-effective cooling/heating solution in commercial applications.



Small diameter, flexible tubing simplifies installation



Removes up to 30% more moisture for enhanced comfort



Gentle mixing of air eliminates drafts and minimizes temperature differentials



No Major Remodeling, Speeds and Simplifies Installation

SpacePak is designed to be contractor friendly. Fan Coil units are small enough to fit in attics, basements, crawl spaces and closets. Conditioned air is distributed through flexible, pre-insulated 2" diameter ductwork that weaves through wall structures and around obstructions. No large, cumbersome ductwork is required, saving contractors time while reducing installation costs and maintaining architectural integrity.

Quiet Uniform Comfort

SpacePak is ultra quiet and works through the principle of aspiration. Air in the duct is under 5 to 6 times higher pressure than conventional systems.

Air exiting the duct expands and creates eddy currents that blend the conditioned air, providing uniform, draft-free temperature from floor to ceiling and room to room. And because SpacePak removes up to 30% more moisture, homeowners are kept cool and comfortable at a higher, more energy efficient thermostat setting.

SpacePak Hydronics is taking the comfort and flexibility of water-based central heating and cooling systems to new levels of performance. In any season, SpacePak units provide perfectly conditioned air with reliability and efficiency.

Hydronic Heating & Cooling

Hydronic technology has long been known for providing unsurpassed heating comfort. New innovative technologies have allowed hydronic equipment manufacturers the opportunity to provide complete packaged solutions for both space heating and central cooling using the known advantages of hydronics over that of traditional forced air systems.

Using the same physical properties that make water ideal for conveying heat also make it ideal for cooling.

Cooling is simply the removal of heat from an occupied space. Water is capable of absorbing substantially more (almost 3500X more) heat than air for the same temperature change.

Therefore, chilled water circulated through a high efficiency terminal unit is ideal for absorbing heat from an occupied space without the intrusive ductwork associated with forced air systems.

Small Scale Hydronics

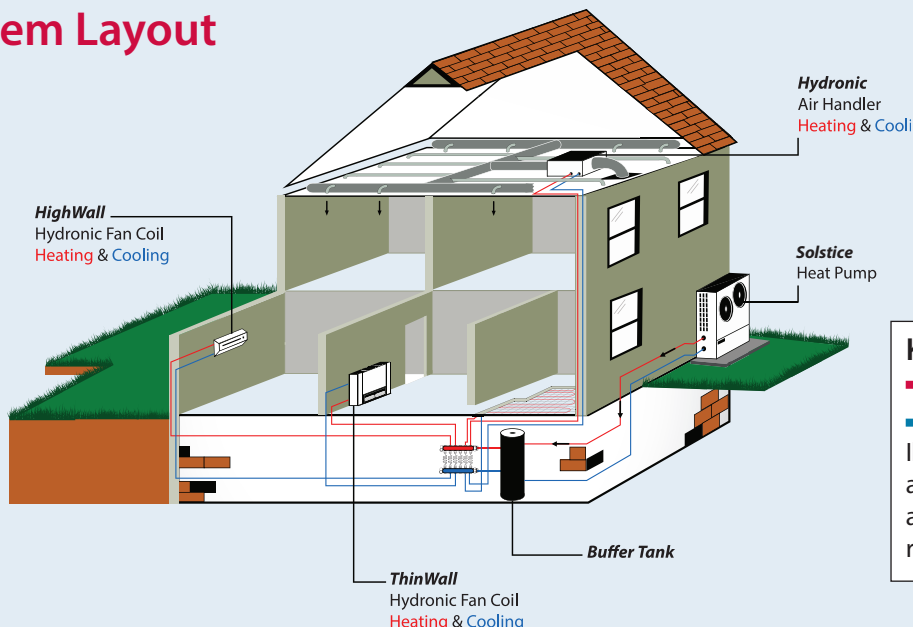
The concept of using water as a heat transfer medium for cooling is not new and has long been used by commercial



engineers through the use of chillers, which reduce circulated water to the range of 40° to 50°F, it then disperses the conditioned air through various types of terminal units into the occupied space in a much more efficient and environmentally friendly process than all-air systems.

Small scale hydronic (chilled water) cooling in residential and light commercial applications is done safely and easily through much smaller space requirements than that of traditional ducted systems with increased operating efficiencies and is more aesthetically pleasing at the same time.

System Layout



Key:

— = Supply

— = Return

Illustration depicts heating application. In cooling applications chilled water replaces hot water supply lines.

Model ESP-Horz/Vert

CENTRAL AIR CONDITIONING HEAT PUMP SYSTEM - 2 to 5 Tons

DX Fan Coil Unit

Features and Benefits

- High Efficiency EC Motor/Blower Technology
- Easy Field Adjustable Motor Staging
- 230V Standard Configuration Optional 115V Conversion
- Heat Pump Compatible
- Thermal Expansion Valve (TXV)
- Factory Installed Chatleff Fitting for TXV
- Anti-Frost Control
- Integrated Control Board
- 6-Row Copper/Aluminum Evaporator Coil
- Sweat-Type Refrigerant Connections
- Insulated Grey Cabinet
- Float Switch
- Condensate Trap
- Mold Resistant Primary Drain Pan
- Anti-Vibration Foam Strips
- Mode Specific Adjustable Speed Control



Horizontal Fan Coil Unit Dimensions

Model	Height	Width	Length	Ship Wt.
ESP-2430J	14-1/8"	24-1/4"	29-3/8"	105 lbs.
ESP-3642J	14-1/8"	33-1/4"	29-3/8"	123 lbs.
ESP-4860J	14-1/8"	43-1/4"	29-3/8"	144 lbs.

Vertical Fan Coil Unit Dimensions

Model	Height	Width	Length	Ship Wt.
ESP-2430JV	33"	24"	16-1/8"	135 lbs.
ESP-3642JV	33"	33"	16-1/8"	170 lbs.
ESP-4860JV	33"	43"	16-1/8"	210 lbs.

Specifications

Model	Nominal System Capacity		Std. CFM @ 1.5" W.C.	Motor HP	F.L. Amps (115V/230V)	Connections	
	Nom. Tons	Cool MBH*				Suction Line	Liquid Line
ESP-2430J/V	2	24	440	3/4	5.6/2	7/8"	3/8"
	2-1/2	30	550	3/4		7/8"	3/8"
ESP-3642J/V	3	36	660	3/4	7.6/4	7/8"	3/8"
	3-1/2	42	850	3/4		7/8"	3/8"
ESP-4860J/V	4	48	880	3/4	10.6/5	7/8"	3/8"
	5	60	1150	3/4		7/8"	3/8"

* Capacities based on 42°F entering water temperature at 5 G.P.M.



Model WCSP-Horz/Vert

CENTRAL AIR CONDITIONING HYDRONIC COIL SYSTEM - 2 to 5 Tons

Hydronic Fan Coil Unit

Features and Benefits

- High Efficiency EC Motor/Blower Technology
- Easy Field Adjustable Motor Staging
- 230V Standard Configuration Optional 115V Conversion
- Heat Pump Compatible
- Integrated Control Board
- 6-Row Copper/Aluminum Coil
- Sweat-Type Connections
- Insulated Grey Cabinet
- Float Switch
- Condensate Trap
- Mold Resistant Primary Drain Pan
- Anti-Vibration Foam Strips
- Mode Specific Adjustable Speed Control



Horizontal Fan Coil Unit Dimensions

Model	Height	Width	Length	Ship Wt.
WCSP-2430J	14-1/8"	24-1/4"	29-3/8"	105 lbs.
WCSP-3642J	14-1/8"	33-1/4"	29-3/8"	123 lbs.
WCSP-4860J	14-1/8"	43-1/4"	29-3/8"	144 lbs.

Vertical Fan Coil Unit Dimensions

Model	Height	Width	Length	Ship Wt.
WCSP-2430JV	34"	24"	16-1/2"	108 lbs.
WCSP-3642JV	34"	33"	16-1/2"	130 lbs.
WCSP-4860JV	34"	43"	16-1/2"	152 lbs.

Specifications

Model	Nominal System Capacity		Std. CFM @ 1.5" W.C.	Motor HP	F.L. Amps (115V/230V)	Connections	
	Nom. Tons	Cool MBH*				Water In Line	Water Out Line
WCSP-2430J/V	2	24	440	3/4	5.6/2.8	7/8"	7/8"
	2-1/2	30	550	3/4		7/8"	7/8"
WCSP-3642J/V	3	36	660	3/4	7.6/4	7/8"	7/8"
	3-1/2	42	850	3/4		7/8"	7/8"
WCSP-4860J/V	4	48	880	3/4	10.6/5.4	7/8"	7/8"
	5	60	1150	3/4		7/8"	7/8"

* Capacities based on 42°F entering water temperature at 5 G.P.M.

Heating Options

Duct Heater

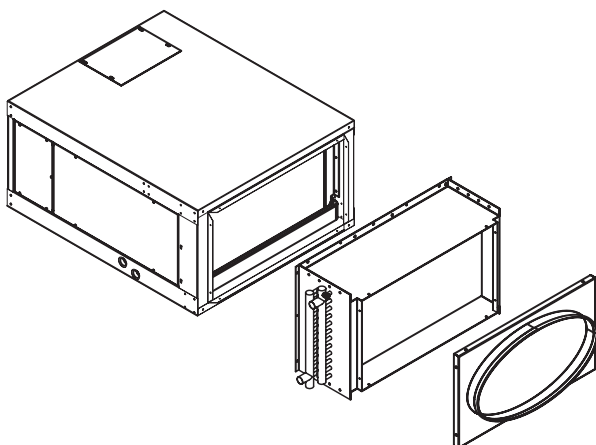
SpacePak's Duct Heaters are designed for easy installation and reliability. They are specifically engineered not to exceed safe operating temperatures. These duct heaters can provide a great economical heating source and are available in a variety of configurations.

Standard Features

- Easily Integrated into Existing HVAC Systems and New Installations
- Allows an Easy Method of Installing an Electric Duct Heater in a Round Sheet Metal Duct
- The Electric Heater Section Comes Factory Installed in an Adapter Section with Appropriately Sized Round Pipe Connections Provided at the Inlet and Outlet for Field Connections



Model WPAK Hydronic Coil



WPAK Hydronic heating coil is designed for use with SpacePak fan coil units in conjunction with a boiler or other hot water heating supply equipment. Easily mount to the inlet of the fan coil unit. Use the chart below to match the proper hydronic coil with the SpacePak fan coil unit.

Water Pressure Drop (in feet @ 180°)

GPM	AC-WPAK-60	AC-WPAK-90	AC-WPAK-120
2	0.4	0.4	0.5
4	1.4	1.6	1.7
6	3.0	3.3	3.7
8	5.2	5.7	6.3
10	7.9	8.7	9.6

Heating Capacity MBH

CAUTION:

Areas shaded in **RED** can exceed 160°F leaving air temperature. To prevent injury or damage, do not install floor outlets when the system is operating in this range.

Model AC-WPAK-60 for ESP 2430

GPM	Entering Water Temperature °F				
	120	140	160	180	200
2	20.5	30.0	39.1	48.1	57.2
4	25.2	35.6	46.1	56.6	67.1
6	26.6	37.4	48.3	59.2	70.2
8	27.2	38.2	49.3	60.4	71.6
10	27.5	38.7	49.9	61.1	72.3

At 550 CFM and 70°F Entering Air Temperature*

Model AC-WPAK-90 for ESP 3642

GPM	Entering Water Temperature °F				
	120	140	160	180	200
2	28.8	39.2	51.6	63.4	75.2
4	36.0	50.8	65.7	80.8	95.8
6	39.0	54.9	70.9	87.0	103.1
8	40.4	56.8	73.3	89.9	106.5
10	41.2	57.9	74.7	91.5	108.4

At 850 CFM and 70°F Entering Air Temperature*

Model AC-WPAK-120 for ESP 4860

GPM	Entering Water Temperature °F				
	120	140	160	180	200
2	31.7	46.2	61.2	75.1	89.0
4	45.6	64.2	83.0	102.0	120.9
6	50.6	71.2	92.0	112.9	133.8
8	53.1	74.7	96.4	118.2	140.1
10	54.6	76.7	98.9	121.2	143.6

At 1150 CFM and 70°F Entering Air Temperature*

*To calculate Leaving Air Temperature (LAT) use the following formula:

$$LAT = [BTUH / (1.08 \times CFM)] + 70$$

ZonePak

DAMPER SYSTEM



ZonePak – A unique air-driven damper system – allows for the effortless installation of up to three custom comfort zones working off three independent thermostats. The addition of zoning to the SpacePak system gives installing professionals a tremendous opportunity to offer even more precise comfort to a large segment of the demanding residential and commercial market. ZonePak addresses the unique comfort needs of historical buildings, architecturally challenging structures and anywhere radiant, steam or hot water heat is installed. By delivering conditioned air only where it's wanted, when it's wanted, the needs of all occupants are met while energy costs are reduced.

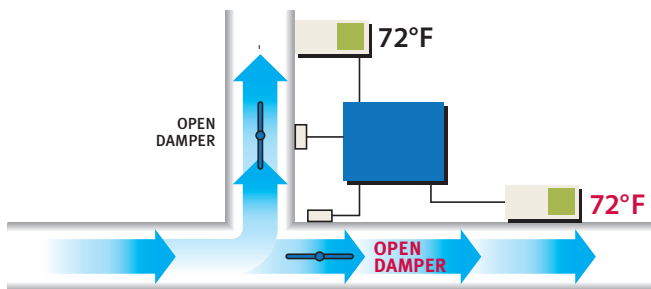
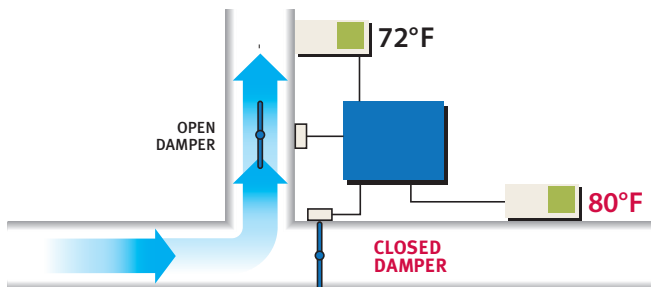
Benefits of Zoning

- Greater Occupant Comfort
- Allows for Decreases in System Capacity Demand
- Increased Installation Flexibility
- Reduced Energy Consumption

Standard Features

- 2 or 3 Zones with One Fan Coil Unit
- Controls Integrate with Any Secondary Heat Source
- Reliable Operation Provided by Air-Driven Dampers
- Simple 24 Volt Wiring
- Quiet Operation
- Pre-Programmed Controls
- Convenient Packaged Systems

The ZonePak Difference



ZonePak's control panel interacts with up to three different thermostats to direct conditioned air from the fan coil unit to whichever zone needs it. The use of branch dampers, with or without plenum dampers, offers even more flexibility.



Humidity Removal

30% BETTER HUMIDITY REMOVAL THAN CONVENTIONAL AIR CONDITIONING



ASHRAE Psychrometric Chart No. 1 Normal Temperature Barometric Pressure 29.921 Inches of Mercury SEA LEVEL

SpacePak fan coil units move approximately half the air (250 CFM vs 400 CFM per ton of cooling) than that of a traditional system at 5 to 6x higher pressure. SpacePak also uses a more robust 6-row coil providing a greater temperature drop of the air passing through coil than competitive systems (24° to 28°) resulting in more moisture (humidity) removal. The drier air allows SpacePak systems to be set at higher temperatures with no sacrifice in comfort while saving substantial energy.

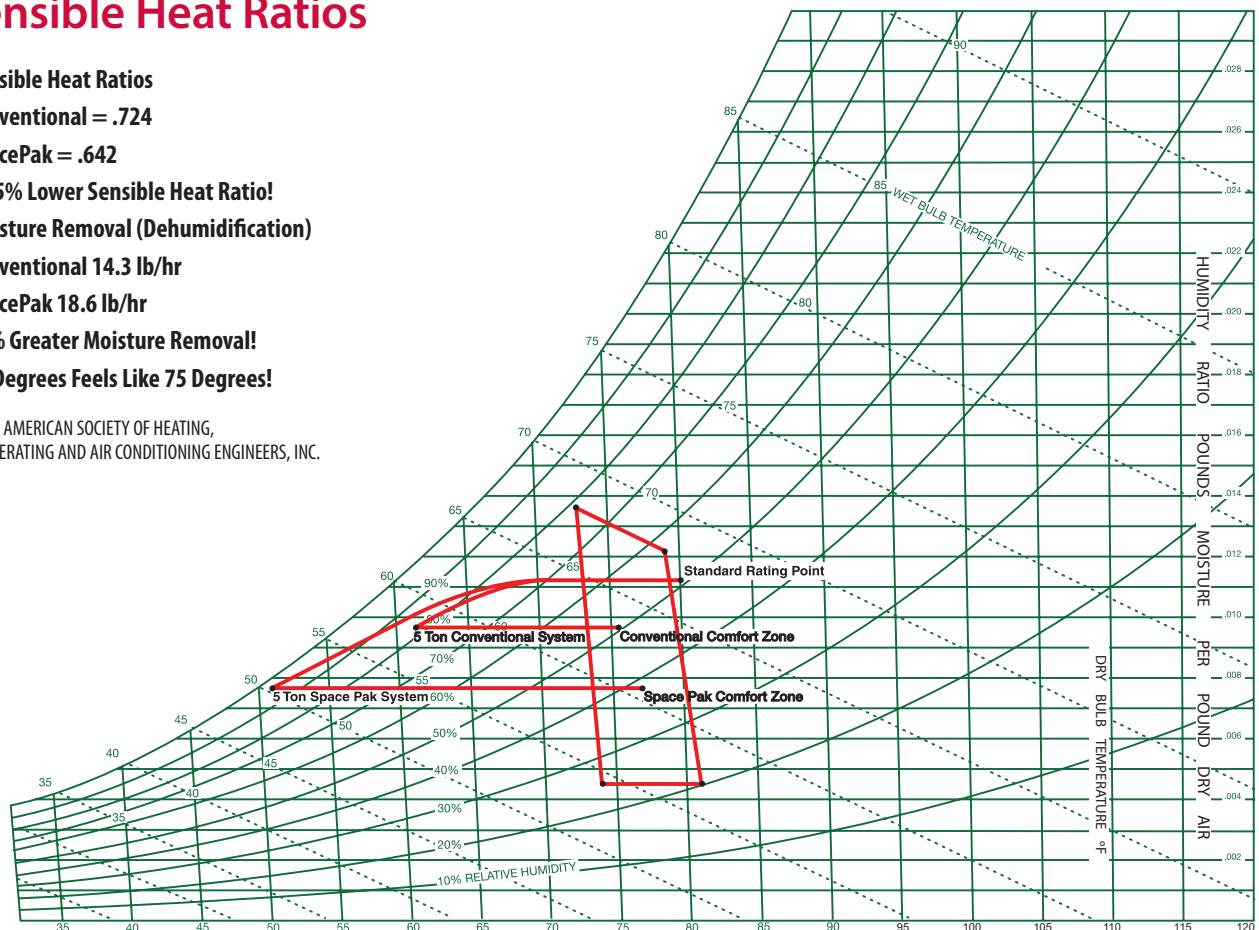
A simple fluctuation of 2° in the thermostat setting from 70° to 72° can result in up to 15% savings on annual cooling costs.

SpacePak systems eliminate hot and cold spots because as the air exits the pressurized duct at a higher velocity it expands as it is released into the occupied space, creating a uniform floor to ceiling circulation of the air providing even temperatures across the space.

Sensible Heat Ratios

- Sensible Heat Ratios
- Conventional = .724
- SpacePak = .642
- 11.5% Lower Sensible Heat Ratio!
- Moisture Removal (Dehumidification)
- Conventional 14.3 lb/hr
- SpacePak 18.6 lb/hr
- 30% Greater Moisture Removal!
- 77 Degrees Feels Like 75 Degrees!

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REFRIGERATING AND AIR CONDITIONING ENGINEERS, INC.

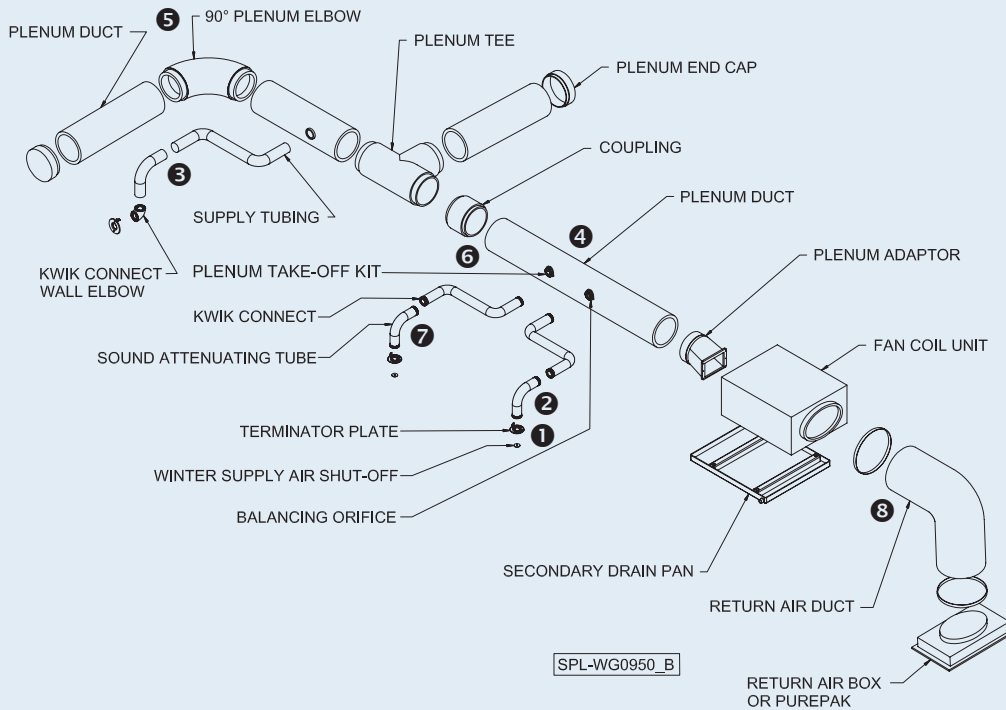


NOTE: All temperature measures listed are Fahrenheit.

Typical Installation

EASY TO INSTALL SYSTEM

The SpacePak system has been designed to reduce installation time and cost for installing contractors. Small diameter, flexible tubing weaves around construction obstacles and eliminates the need for large, cumbersome ductwork and major structural renovations. Fittings simply snap securely into place with no tools required. The typical installation diagram and guidelines listed below provide a quick reference to ensure successful installation and operation of the system. More detailed and comprehensive information is available on our website at www.spacepak.com.



- 1 Outlets** – The most important rule of thumb when installing a SpacePak system is having the proper number of outlets. Six (6) to Seven (7) outlets per ton are recommended for optimal 35-40 CFM airflow from each outlet under normal conditions to maximize aspiration.
- 2 Outlet Placement** – Outlets should be placed in the room where they will create the least disturbance (floors, ceilings, walls) and not infringe upon inhabitants with turbulent air. Traffic patterns, drapes and bed placement are all factors to consider.
- 3 Supply Duct** – Ideally, all runs should be as equal in length as possible. Keep the 2" duct length between 9 ft. and 30 ft. for best performance. The longer the run, the lower the CFM capacity. See performance chart in IOM.
- 4 Main Trunk/Plenum** – Maximize use of the main trunkline in order to minimize the lengths of 2" duct. It will allow

for an easier installation and better performing, balanced system if 2" duct lines are minimized.

- 5 60/40 Rule** – Always try to use a full flow "T" in larger, 4-5 ton systems. Never exceed a 60/40 split of outlets off the main trunkline in order to maintain evenly distributed airflow. A perfect 50/50 split is best.
- 6 Locating Take-Offs** – Distribute takeoffs as evenly as possible along the main trunkline – no closer than 6" away from one another. This will assure better balanced airflow.
- 7 Sound Attenuators** – The last 3 ft. of every run should use a fully-fabricated SpacePak sound attenuator to reduce outlet air sound.
- 8 Return Air Duct** – Minimize potential fan noise and maximize performance of this acoustically lined duct by incorporating a 90-degree bend between the air handler and return grille.



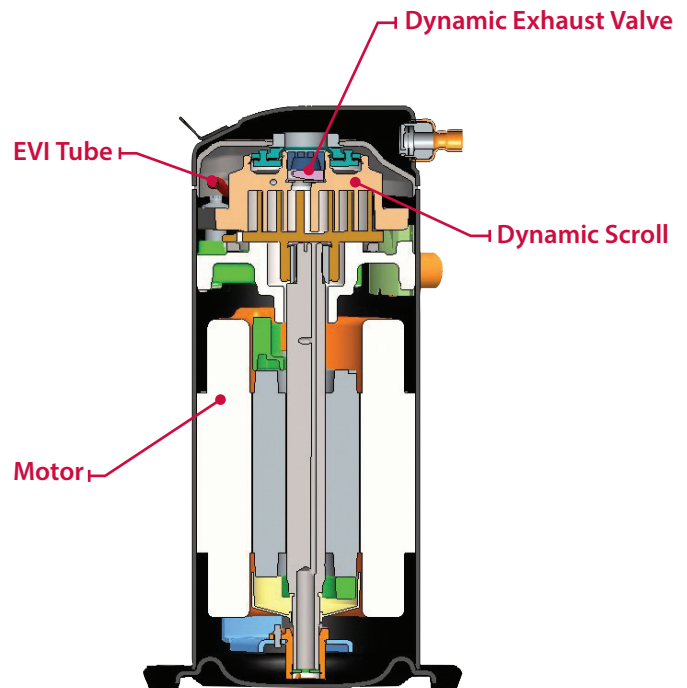
Solstice® Extreme, SpacePak's low ambient heat pump provides primary heating and cooling even in severe weather climates. Its environmentally friendly design uses EVI technology and the clean efficient characteristics of hydronics as its primary energy source to deliver perfectly conditioned air to any occupied space.

Standard Features

- Enhanced Vapor Injection
- 66,480 BTU/h at 47°F Ambient
- 3.3 Ton of Cooling at 95°F Ambient
- Simple Piping & Pumping
- Installation & Service Friendly
- Easily Zoned
- Proven Integrated Control
- Outdoor Reset
- Green Hydronic Energy – No Refrigerant in Occupied Space
- Low Ambient Freeze Protection

Enhanced Vapor Injection (EVI)

The award winning EVI technology and high efficiency condenser used in SpacePak low ambient heat pumps, provides improved efficiency, reliability and heating capacities. EVI increases heating capacity by over 30%, making it the perfect compressor for severe ambient conditions (0°F) in cold climates, while maintaining the ability to cool during the summer months.

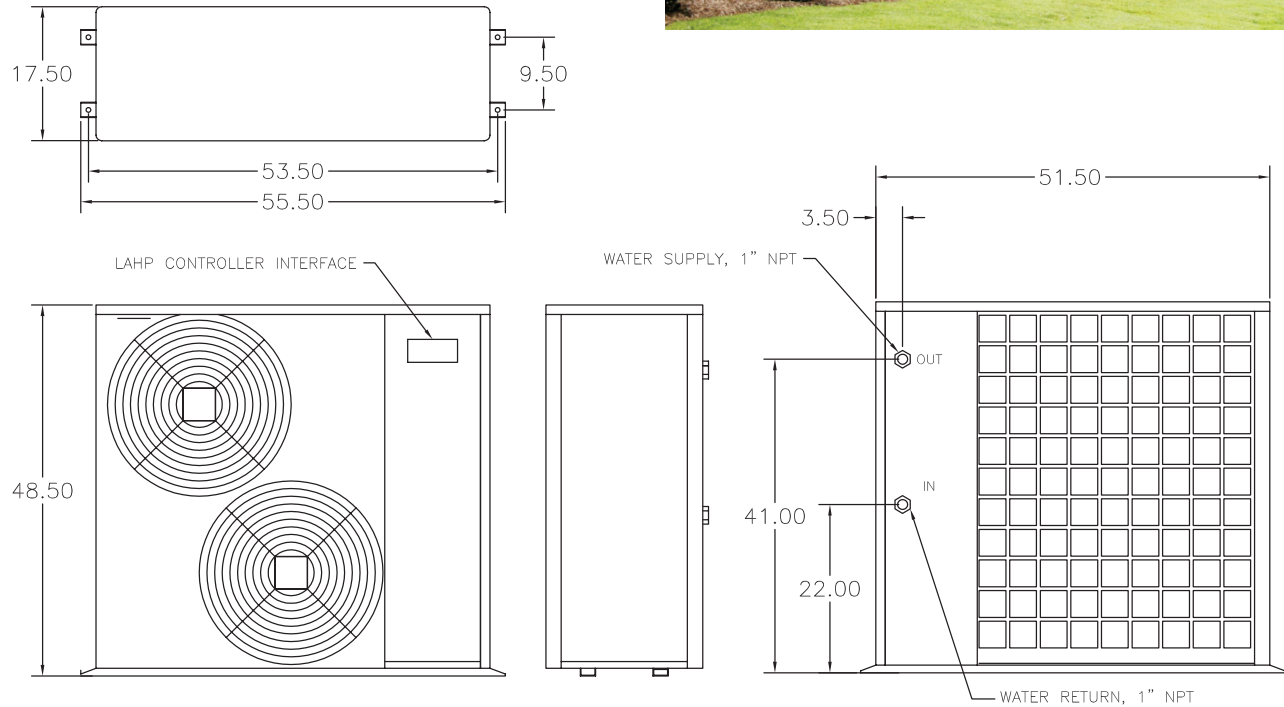


Specifications

Model	LAHP - 048	COP
Heating Capacity (47°F/8°C Ambient temp. 120°F/50°C Supply Water)	66,480 BTU/h (18.9kW)	3.26
Heating Capacity (17°F/-8°C Ambient temp. 120°F/50°C Supply Water)	46,440 BTU/h (13.6kW)	2.35
Heating Capacity (5°F/-15°C Ambient temp. 120°F/50°C Supply Water)	42,240 BTU/h (12.4kW)	2.12
Cooling Capacity (95°F/35°C Ambient temp. 44°F/6.7°C Supply Water)	40,000 BTU/h (11.7kW)	2.43
Volts	230V/1ph/60Hz	
Minimum water supply temperature	42°F (5.5°C)	
Maximum water supply temperature	131°F (55°C)	
Minimum operating ambient temperature	-8°F (-22°C)	
Maximum operating ambient temperature	105°F (40°C)	
Minimum water flow	10 GPM (37.9 l/min)	
Rated water flow	11 GPM (41.6 l/min)	
Pressure drop at recommended flow	17.1 ft/7.4 PSI (35.8 kPa)	
Heating current	31A	
Cooling Current	23.5A	
Noise level at max fan speed (Heating or Cooling)	62 dB (A)	
Compressor	EVI Scroll	
Installed weight	386 lbs (175 kg)	



Dimensions



SPL-WG0778

Performance

LAHP Heating Operation

Supply Water Temp °F	Ambient Temp °F	Capacity BTU/hr	Water DP ft WC	Watts	COP	Supply Water Temp °F	Ambient Temp °F	Capacity BTU/hr	Water DP ft WC	Watts	COP
110	-5	37,500	14.6	3,880	2.30	42	70	41,100	15.0	4,298	2.80
	17	44,800	14.6	3,970	2.70		82	39,950	15.0	4,414	2.65
	47	60,580	14.6	4,263	3.75		95	38,800	15.0	4,897	2.32
120	-5	38,500	14.6	4,513	2.00	44	70	42,500	15.0	4,190	2.97
	17	46,440	14.6	5,790	2.35		82	41,250	15.0	4,238	2.85
	47	66,480	14.6	5,963	3.26		95	40,000	15.0	4,820	2.43
130	-5	40,425	14.6	5,249	1.86	47	70	44,600	15.0	4,240	3.08
	17	48,762	14.6	5,371	2.18		82	43,200	15.0	4,274	2.96
	47	69,804	14.6	5,768	3.04		95	41,800	15.0	4,708	2.60

All data based upon pure water @ 11.0 GPM

LAHP Cooling Operation



Standard Features

- Dual Refrigerant Circuits
- Simple Piping & Pumping
- Installation & Service Friendly
- Easily Zoned
- Self Diagnostic Control – Configurable
- Low Amp Requirements
- Quiet Operation
- Green Hydronic Energy - No Refrigerant in Occupied Space
- Low Ambient Freeze Protection

Sophisticated... but Simple Control Platform



Intelligent factory configured control platform, with state-of-the-art self diagnostic microprocessor allow staging of compressors for seamless operation. Amp draw starts low and stays low with no spike at start-up and use a smaller breaker than other heat pump units for even more efficiency benefits.



Specifications

Model	SCM - 036	SCM - 060
Heating Capacity	36,840 BTUh (10.8 kW)	52,200 BTUh (15.3 kW)
Heating COP	2.65	2.65
Cooling Capacity	36,000 BTUh (10.5 kW)	48,000 BTUh (14.1 kW)
Voltage	230v/1ph/60Hz	230v/1ph/60Hz
Min Supply Temp	36°F (2.2°C)	36°F (2.2°C)
Max Supply Temp	125°F (51.7°C)	125°F (51.7°C)
Rated Water Flow	10 GPM (37.9 l/Min)	12 GPM (45.9 l/Min)
dP @ Rated Flow	15.8 ft (47.7 kPa)	24.2 ft (72.4 kPa)
Heating Current	18.0 amps	25.6 amps
Cooling Current	16.7 amps	24.8 amps
Noise Level	56 dB (A)	56 dB (A)
Compressor	Rotary x 2	Rotary x 2
Installed Weight	354 lbs (161 kg)	407 lbs (185 kg)

All heating data at 47°F ambient, 120°F supply.

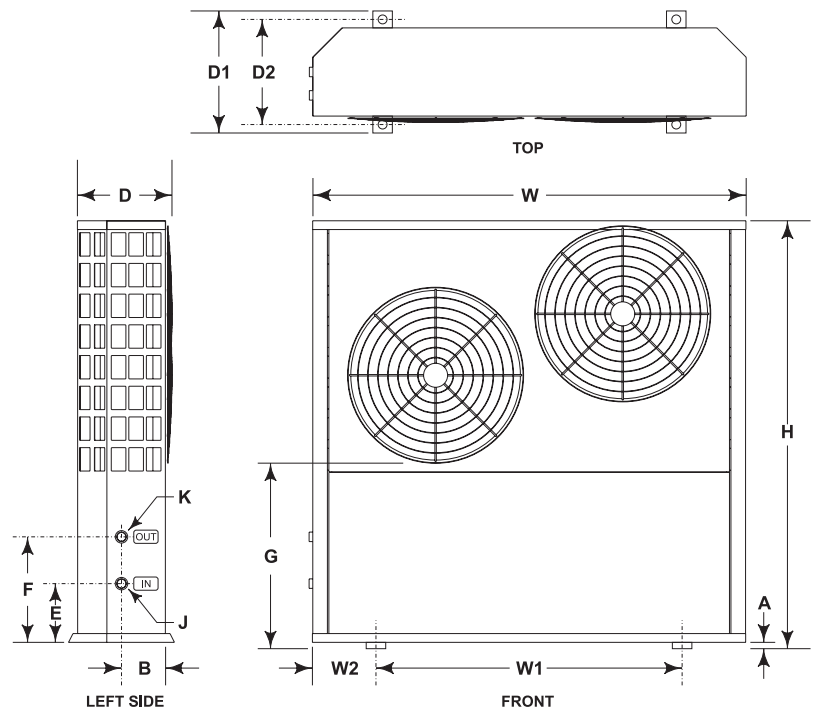
All cooling data at 95°F ambient, 44°F supply.



Dimensions

Model	A	B	D	D1	D2	E	F
	Leg height	Front to return	Cabinet depth	Mounting lug depth	Mounting lug centers	Bottom to return	Bottom to supply
SCM-036	1	10	17 3/4	17 3/8	15 3/4	5 1/2	15 1/4
SCM-060	1	10	17 3/4	17 3/8	15 3/4	5 1/2	15 1/4

Model	G	H	J	K	W	W1	W2
	Base to bottom edge of lower fan	Overall Height	Return connection	Supply connection	Overall width	Mounting lug centers	Lug center to edge
SCM-036	25	53	1" NPT	1" NPT	43 3/8	27 1/2	7 15/16
SCM-060	25	53	1" NPT	1" NPT	43 3/8	27 1/2	7 15/16



Performance

SCM-036 Heating Operation

Supply Water Temp °F	Ambient Temp °F	Capacity BTU/hr	Water DP ft WC	Watts	COP	Supply Water Temp °F	Ambient Temp °F	Capacity BTU/hr	Water DP ft WC	Watts	COP
100	17	23,397	12.0	2,742	2.50	42	82	36,225	12.0	3,019	3.20
	32	33,075	12.0	2,801	3.46		95	33,872	12.0	3,528	2.40
	47	42,754	12.0	3,008	4.16		105	30,579	12.0	4,497	1.70
110	17	21,718	12.0	3,190	1.99	44	82	38,500	12.0	3,208	3.60
	32	30,703	12.0	3,258	2.76		95	36,000	12.0	3,750	2.50
	47	39,687	12.0	3,499	3.32		105	32,500	12.0	4,100	1.80
120	17	20,160	12.0	3,710	1.59	47	82	42,070	12.0	3,825	3.80
	32	28,500	12.0	3,790	2.20		95	39,338	12.0	4,522	2.80
	47	36,840	12.0	4,070	2.65		105	35,514	12.0	5,822	2.00

All data based upon pure water @ 10.0 GPM

SCM-036 Cooling Operation

SCM-060 Heating Operation

Supply Water Temp °F	Ambient Temp °F	Capacity BTU/hr	Water DP ft WC	Watts	COP	Supply Water Temp °F	Ambient Temp °F	Capacity BTU/hr	Water DP ft WC	Watts	COP
100	17	33,075	13.5	3,880	2.50	42	82	54,102	13.5	5,281	3.00
	32	46,828	13.5	3,970	3.45		95	45,163	13.5	5,510	2.40
	47	60,580	13.5	4,263	4.16		105	34,343	13.5	6,285	1.60
110	17	30,703	13.5	4,513	1.99	44	82	57,500	13.5	5,262	3.20
	32	43,468	13.5	4,618	2.76		95	48,000	13.5	5,622	2.50
	47	56,234	13.5	4,959	3.32		105	36,500	13.5	5,938	1.80
120	17	28,500	13.5	5,249	1.59	47	82	62,832	13.5	5,411	3.40
	32	40,350	13.5	5,371	2.20		95	52,451	13.5	5,485	2.80
	47	52,200	13.5	5,768	2.65		105	39,885	13.5	5,840	2.00

All data based upon pure water @ 12.0 GPM

SCM-060 Cooling Operation

HighWall HEATING & COOLING



HighWall fan coils are the perfect indoor complement to our Solstice heat pumps. HighWall fan coils provide optimum heating and cooling in one classic design. HighWall fan coils are designed for higher volume flow for primary heating in colder climates.

All HighWall fan coils feature high efficiency EC motors with step-less speed modulation which operate from 50-70% more efficient than traditional on/off motors.

Standard Features

- Quiet Space-Saving Design
- Heating/Cooling
- Energy Efficient
- Low Ambient Capable Heat Emitter
- Hydronic Based - No Refrigerant
- Remote Control
- Auto-Swing Damper for Uniform Air Distribution
- Easy Installation
- EC-Step-Less Speed Modulation
- 8,100-25,700 BTU/h Heating Capacity
- 7,300-13,100 BTU/h Cooling Capacity



Specifications

Model	Output (BTU/hr)						Dimensional Data			Ship Wt. (lbs)
	Heating			Cooling						
	Entering Water Temperature						Length	Width	Height	
	120°F	140°F	160°F	45°F	47°F	50°F				
HW-06-ECM	8123	11331	14266	7300	6416	5085	34-7/16"	8-2/3"	11-13/16"	28
HW-15-ECM	11843	16553	20853	10614	9420	7475				30
HW-18-ECM	14641	20444	25734	13106	11638	9249				32

ThinWall HEATING & COOLING



ThinWall fan coils are the ultra-sleek alternative to HighWall fan coils or can be used in conjunction with a HighWall unit for optimum flexibility.

Perfectly conditioned air is quietly distributed through a cross-flow blower configuration with integrated air-guiding technology. ThinWall units offer versatility for both heating and cooling while operating up to 30% more efficient than traditional emitters.

Standard Features

- Quiet Modern Space-Saving Design
- Heating & Cooling
- Hydronic Based – No Refrigerant
- Cross-Flow Blower
- Easy Installation
- Active Carbon Air Filtration
- 8,700 – 32,000 BTU/hr Heating Capacity
- 3,400 – 14,800 BTU/hr Cooling Capacity

Specifications

Model	Output (BTU/hr)						Dimensional Data			Ship Wt. (lbs)
	Heating			Cooling						
	Entering Water Temperature						Length	Width	Height	
	120°F	140°F	160°F	45°F	48°F	50°F				
UT-87	4600	6936	8700	3400	2846	2505	27-5/8"	5-1/8"	26-3/8"	40
UT-135	8500	10710	13500	6500	5442	4789	35-3/8"			51
UT-196	11400	15606	19600	8500	7116	6262	43-5/16"			60
UT-246	14600	20114	24600	11900	9963	8767	51-1/2"			68
UT-320	17800	26010	32000	14800	12391	10904	59-1/8"			79

solstice® BT

Hydronic buffer tanks are used as both hydraulic separators and hydronic buffer tanks.

Four port configuration provides a convenient junction for hydraulic separation, in order to maintain stable temperature control, and ensure flow through the secondary. The heat emitter loop is not influenced by pump operation in the primary heat pump loop.

Buffer tank's are used as hydronic buffer tanks in systems having several low BTU cooling or heating loads calling at different times or systems operating below the design load condition.

Standard Features

- Durable Stainless Steel Construction
- (4) 1-1/2" NPT Female Thread (BT26-H/BT40-H)
- (4) 2" NPT Female Thread (BT80-H)
- Inner Tank 304 Stainless
- 3/4" Female Water Drain
- Insulation: Polyurethane Resin Foam
- White Outer Galvanized Steel Jacket
- 10 Year Warranty
- Two 3kW Electric Heaters



Specifications

Model		BT26-H	BT40-H	BT80-H
Height	Inches	45	60	64-1/8
Capacity	US Gal.	26	40	80
Max Water Flow	GPM	36	36	48
Ship Weight	lbs.	84	104	130
Empty Weight	lbs.	77	97	125
Full Weight	lbs.	304	446	805
Min Circuit Ampacity	Amps	30	30	30

SSIC Control

The SpacePak SSIC System Interface Control takes inputs from up to five air handlers and outputs the system signals to the chiller, boiler and heat pump. Air Handlers receive their calls from their respective thermostats and outputs a heating or cooling call to the SSIC. Based on these demands, the SSIC determines how to operate the system.

Standard Features

- Outdoor Air Temperature Sensor
- Water Temperature Sensor
- Buffer Tank Sensor



Smart Seal

SYSTEM DUCT

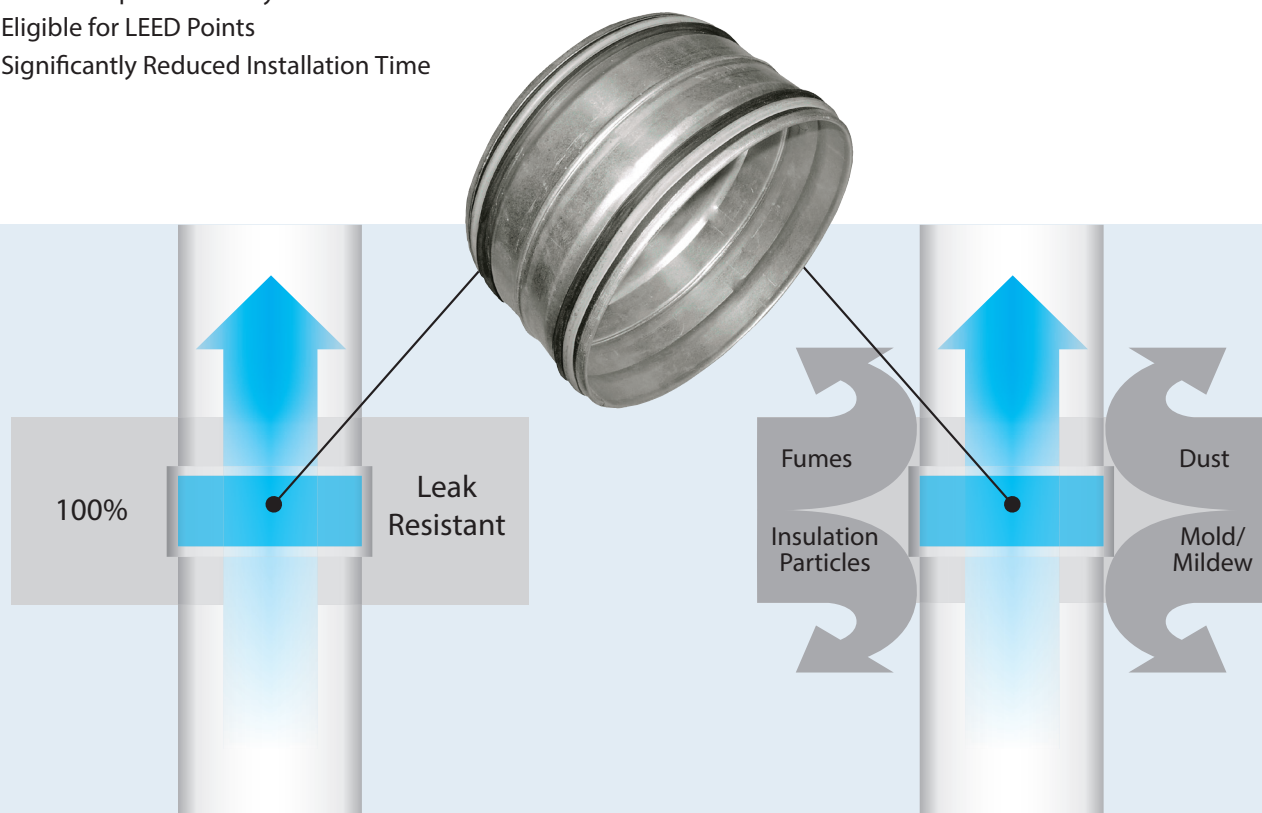
SmartSeal, SpacePak's spiral metal duct system (9" ID) provides homeowners and commercial building owners increased energy efficiency and improved indoor air quality.

The unique slip-fit joint seal of the SmartSeal utilizes patent pending technology and installs without the use of special tools or messy sealants. SmartSeal is 100% leak resistant to 10" W.C. and all duct lengths and fittings come standard with R8 insulating sleeves.

SmartSeals' factory installed gaskets are included on all fittings and couplings and are built for easy and quick installation when compared to most conventional duct systems.

Standard Features

- Approved to SMACNA Duct Construction Standards and Leakage Class 3
- 100% Leak Resistant (to 10" W.C.)
- Fittings & Couplings Have Factory Installed Gasket
- Operating Temperature Range -20°F to 212°F
- Gasket is on Leading Edge of Fittings, Allowing Substantial Space for Screw Insertion
- Recyclable Material
- Contains up to 58% Recycled Materials
- Eligible for LEED Points
- Significantly Reduced Installation Time

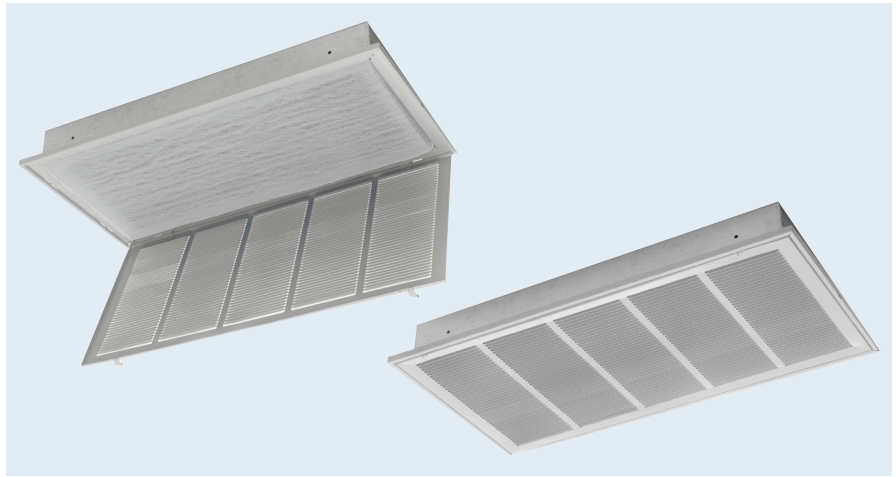


Optional Accessories

Recessed Air Cleaner

Removes dangerous airborne particles other cleaning systems miss

The PurePak system is the key to cleaner, healthier air. It turns the SpacePak system into a whole-house air cleaner quickly and economically. PurePak is controlled by the thermostat fan setting and runs on safe, 24-volt power. It is an easy-to-install, value-added option that your customers will appreciate.



Outlets

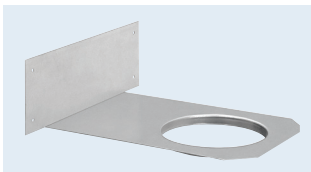
Blend with any décor

SpacePak offers the widest variety of Outlets and Covers to blend with any décor. From finished aluminum and brass to natural wood grain.



Linear Slot Outlet

Linear slot outlet is designed for installation in both new construction and retrofit applications. The fully integrated outlet requires no additional mounting hardware and is supplied with a trim plate that boasts a slim profile less than 1/8".

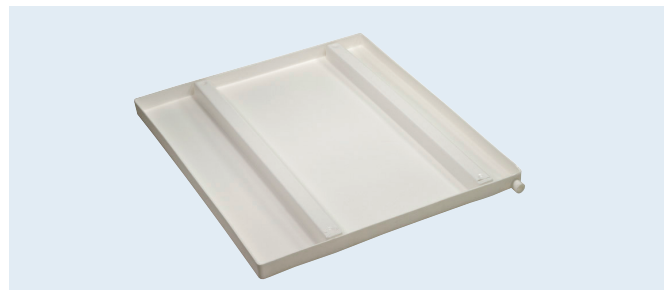


Rough-In Bracket

Serves as a reference point for sheetrock outlet locations during the framing portion of new construction.

Base Pak Secondary Drain Pans For Horizontal Fan Coil Units

- Durable Polyethylene will not Rust
- Resistant to Mold Growth
- UL Recognized Material
- Integral, Multi-Function Support Channels
- Supports Unit when Suspended with Threaded Rod
- Fits Through Hole Cut-Out used for Return Air Box
- Threaded 3/4" Drain Connection
- Meets International Mechanical Code 307.2.3



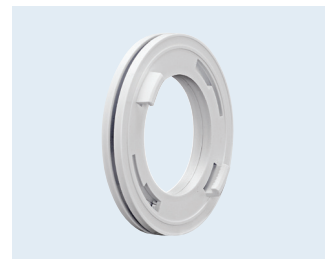
Kwik Connect Wall Elbow

Kwik Connect wall elbows simply snap into place for fast, easy installation.



Kwik Connect Extension

Designed for installations using wall thicknesses above 1/2".





Training & Sales Support

SpacePak systems are installed by qualified technicians across North America. SpacePak offers comprehensive installation training and product support to all of our partners giving customers the confidence they expect.

If you are an HVAC technician interested in becoming a Factory Trained installer please contact your local SpacePak sales representative at 800-465-8558 or email info@spacepak.com



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