



BOSCH

Invented for life

Bosch Water Source Heat Pump

LV Models

The option-rich LV Split System offers lower operating costs, space-saving flexibility and quiet comfort, making it a great choice for replacement and new construction projects





Compact, Efficient & Option-Rich

Meet the Bosch LV Split

The option-rich LV Split System was created to provide maximum flexibility. Available in vertical or horizontal configurations (air handling section) from 1½ through 6 tons, this system is designed to meet your every need. Consisting of two sections, these units can be placed remotely to allow for installation in locations where space is limited or sound is an issue.

Quiet Comfort

- ▶ **ECM** - Provides increased torque (standard) and/or constant airflow (option) to meet the space temperature & humidity requirements
- ▶ **Floating Compressor Base** - Reduces vibration and noise transmission from the compressor to the structure
- ▶ **Closed-cell Foam Insulation (A/H option)** - Helps to provide cleaner, fiber-free air and reduces sound transmission

Service Friendly

- ▶ **Blower Inlet Ring** - (available in 015-070 only) Allows quick servicing of blower fan motor without disassembly of blower housing
- ▶ **External LED Status Light (CS option)** - Reduces troubleshooting time without removal of service panels
- ▶ **Schrader Valves** - Connects refrigerant hoses quickly and easily for service diagnosis

Robust and Durable Construction

- ▶ **Galvanized Steel Cabinet** - Provides strength and corrosion protection
- ▶ **Stainless Steel Drain Pan** - Resists cracking & corrosion which provides long-lasting reliability for condensate collection
- ▶ **Cupro-nickel Coaxial Heat Exchanger (option)** - Protects against corrosion when water conditions are of low quality

Safety

- ▶ **Flow Proving Switch Condensing Section (CS)** - Prevents the continued operation of the compressor should the water supply fail
- ▶ **Unit Protection Module** - Controls the unit operation and monitors the safety controls that protect the unit
- ▶ **Dual Refrigerant Freeze Sensors** - Monitors if refrigerant temperatures reach freeze limitations and disables unit to protect it

Quality Design & Efficiency

- ▶ **LEED® Friendly Design** - Helps qualify for the most credits possible with a water source HVAC system
- ▶ **Boilerless Control** - Disables the compressor and/or activates electric heater should the water temperature drop below set point
- ▶ **Water Flow Regulator** - Provides the desired water flow rate based on a projects designed GPM.
- ▶ **Extended Range** - Accommodates a wider range in temperature swings commonly found in geothermal projects

Options Designed for any Application

Duo-Guard Air Coil Protection

Available with this state-of-the-art coil protection option that features two layers of corrosion protection. All active copper heat transfer surface on the air coil is coated in a tin plating to resist corrosion. Additionally, the aluminum fins are pre-coated in a state-of-the-art gold enamel protective layer to provide a long service life in the harshest of environments. DuoGuard™ protected coils exceed 1000 hours of ASTM B117 salt spray testing.

ECM Constant Airflow Fan Motors

Available in 1/3hp to 1hp, provides constant airflow in a wide static pressure range up to 1 in.w.g. Available in all unit sizes, this motor is a great choice in high filtration applications. The motor has a soft start/stop feature, keeping noise to a minimum. The constant airflow ECM requires a neutral wire in a 460V application.

Long Refrigerant Line Sets

Up to 75' (equivalent) of refrigerant copper tubing between CS & A/H sections to provide flexibility in installation locations.

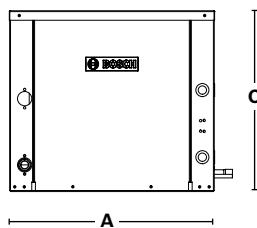
MERV-8 and MERV-13 Filters

The MERV-8 or -13 filter is the optimal air filtration choice on commercial HVAC projects. These filters are a cost efficient way of upgrading air quality. The MERV-13 filter effectively removes up to 98% of airborne matter, such as fine particulates, bacteria, smoke, gases, and allergens including dust mites, pollen, mold spores, dust and smog. MERV filtration is an excellent choice to obtain Environmental Quality LEED® credits when seeking compliance on a LEED® project.

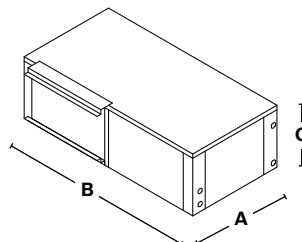
- ▶ 2-Position Water Valve
- ▶ Pump Relay
- ▶ Phase Protection (3-phase only)
- ▶ Compressor Monitor Relay
- ▶ Unit Mounted/Wired Disconnect Switch
- ▶ Energy Management Switch (on/off)
- ▶ 75VA & 100VA Transformer

Technical Specifications

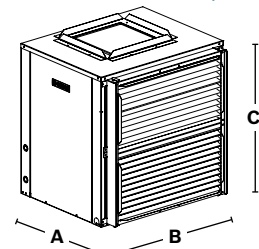
Condensing Section



Air Handler Section (Horizontal)



Air Handler Section (Vertical)



Model	Condensing Section Dimensions (in inches)		
	A (width)	B (depth)	C (height)
LV018	21.50	21.50	19.00
LV024	21.50	21.50	19.00
LV030	21.50	21.50	19.00
LV036	21.50	26.00	19.00
LV042	21.50	26.00	19.00
LV048	24.00	32.50	21.00
LV060	24.00	32.50	21.00
LV070	26.00	33.30	21.00

Model	Horizontal Air Handler Dimensions (in inches)		
	A (width)	B (depth)	C (height)
LV018	22.00	43.00	17.00
LV024	22.00	43.00	17.00
LV030	22.00	43.00	17.00
LV036	22.00	54.50	19.00
LV042	22.00	54.50	19.00
LV048	25.00	54.50	21.00
LV060	25.00	54.50	21.00
LV070	25.00	65.00	21.00

Model	Vertical Air Handler Dimensions (in inches)		
	A (width)	B (depth)	C (height)
LV018	21.50	21.50	21.62
LV024	21.50	21.50	21.62
LV030	21.50	21.50	21.62
LV036	21.50	26.00	25.62
LV042	21.50	26.00	25.62
LV048	24.00	32.50	25.62
LV060	24.00	32.50	25.62
LV070	33.30	26.00	33.62

All dimensions within +/- 0.125. 1" filter rack extends 1.23" beyond the side of the unit. 2" filter rack extends 2.89" beyond the side of the unit. The 2" filter rack is 4-sided with a filter access door on each end and can accept either a 1" or 2" filter.

AHRI/ANSI 13256-1 Performance Data

Model	Water Loop Heat Pump				Ground Loop Heat Pump			
	Cooling 86°F		Heating 68°F		Cooling 77°F		Heating 32°F	
	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
LV018	18,900	13.3	21,100	4.4	20,400	15.7	13,800	3.5
LV024	22,600	13.1	24,900	4.3	23,900	15.0	16,200	3.3
LV030	26,400	13.0	29,600	4.3	27,900	14.3	19,500	3.2
LV036	35,000	13.8	37,000	4.3	37,300	15.9	24,900	3.5
LV042	38,600	13.0	41,600	4.3	40,900	14.8	27,300	3.2
LV048	43,300	13.6	51,800	4.3	45,100	15.4	33,500	3.5
LV060	54,300	13.0	64,000	4.3	57,400	14.9	44,400	3.2
LV070	62,100	13.6	70,400	4.3	64,200	15.6	47,900	3.3

Ratings based upon AHRI/ANSI 13256-1 with 1" disposable filter.

About **Bosch**

Bosch Group

The Bosch Group is a leading global supplier of technology and services in the areas of Automotive, Industrial Technology, Consumer Goods and Building Technology. The company was founded in Stuttgart, Germany, in 1886 and presently has more than 440 subsidiaries and is represented in over 150 countries.

In the U.S., Canada and Mexico, the Bosch Group manufactures and markets automotive original equipment and aftermarket solutions, industrial drives and control technology, power tools, security and communication systems, packaging technology, thermotechnology, household appliances and software solutions. The Bosch Group's products and services are designed to improving quality of life by providing innovative and beneficial solutions. In this way, the company offers technology worldwide that is "Invented for life." Additional information is available online at boschheatingandcooling.com and bosch.ca.

Bosch Thermotechnology in North America

Bosch Thermotechnology is a leading source of high quality water heating and comfort systems. The company offers gas tankless, electric whole house and point-of-use water heaters, Bosch and Buderus floor-standing and wall mounted boilers, Bosch and FHP geothermal, water-source and air-source systems as well as controls and accessories for all product lines. Bosch Thermotechnology is committed to being Simply Smart by offering products that work together as integrated systems that enhance quality of life in an ultra-efficient and environmentally friendly manner. For more information, visit boschheatingandcooling.com.

Bosch Water-Source Heat Pumps: Made in the U.S.A.

Bosch and FHP water-source and geothermal heat pumps are made by highly trained and skilled workers in our factory based in Fort Lauderdale, Florida. They are manufactured with rigorous standards and factory testing ensuring high efficient operation over the life of the unit. Bosch's ISO 9001 and ISO 14001 certified facilities provide consistent quality in every unit built.



Heating



Cooling



Hot Water



Controls

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