



BOSCH

Invented for life

Bosch Heat Pump

CDi Series: LM Split Model

LM Split Models can individually replace and work with your existing HVAC equipment or both can be used in a new system application. Bosch engineers designed this product for tight spaces and where a package unit can not be used.





Maximum Comfort at Minimum Cost

Bosch LM Split System

The LM Split Model is our premium, high efficiency, water source heat pump, available in sizes of 2 to 5 tons to suit your needs. AHRI certified for ground water, ground loop, and water loop applications, the LM Split boasts a two-stage scroll compressor and ECM constant air motor (AH/AV models) for superior comfort and efficiency.

The Bosch LM Split condensing section provides best-in-class efficiency ratings and provides maximum comfort at minimum cost

Features

Air Handler Flexibility

Choose between AHRI rated small "box" style air handler with either VT or HZ discharge air outlets and multi-positional air handler.⁽¹⁾

2 Stage Scroll Compressor Technology

Lowers operating costs while maximizing efficiency and comfort by adjusting to varying heating and cooling.

Compact Cabinet Design

Bosch engineered the cabinet to be one of the smallest condensing sections in the industry which makes it perfect for replacement in tight spaces.

Copper or Cupro-Nickel Coax Coil

Option between insulated Copper or Cupro-Nickel heat exchanger. Cupro-Nickel is recommended in conditions anticipating moderate scale formation or brackish water (open loop applications).

Factory Installed Filter Drier

A factory installed filter drier helps reduce installation time.

Factory Installed DDC Controls

This optional LM split air handler (AV/AH) feature is mounted at the factory and preprogrammed to be job site ready.

1 Year Warranty

Bosch LM Split condensing section models come standard with a 1 year limited warranty on all parts and labor⁽²⁾

Engineered for Quiet Operation

Includes 1/2" close-cell foam insulation combined with our floating compressor base pan offers sound levels as low as 52 dB.

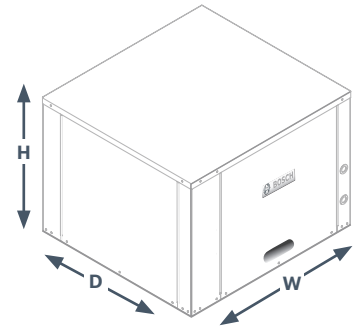
Bosch Quality

Bosch products are built using top-grade materials and are tested to meet the highest standards for performance and sustainability. Bosch has been producing products since 1886.

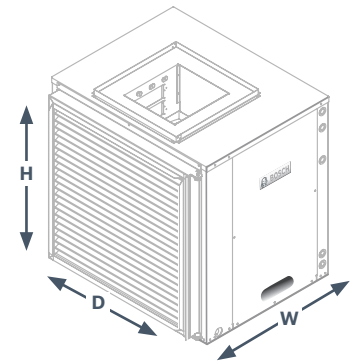


System & Technical Information

LM SPLIT CS DIMENSIONS (IN INCHES)			
MODEL SIZE	WIDTH (W)	HEIGHT (H)	DEPTH (D)
LM024-CS	24	21.5	27.4
LM036-CS	24	21.5	27.4
LM048-CS	24	21.5	27.4
LM060-CS	27	23.3	33.4

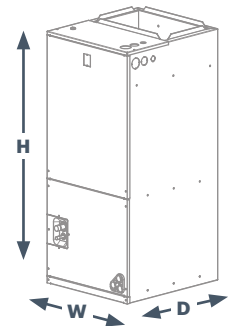


LM SPLIT AV DIMENSIONS (IN INCHES)			
MODEL SIZE	WIDTH (W)	HEIGHT (H)	DEPTH (D)
LM024-AV	21.5	25.75	26
LM036-AV	21.5	25.75	26
LM048-AV	24	25.75	32.75
LM060-AV	26	27.75	33.25



LM SPLIT AH DIMENSIONS (IN INCHES)			
MODEL SIZE	WIDTH (W)	HEIGHT (H)	DEPTH (D)
LM024-AH	26	21.75	33
LM036-AH	26	21.75	33
LM048-AH	30	21.75	38.5
LM060-AH	30	21.75	38.5

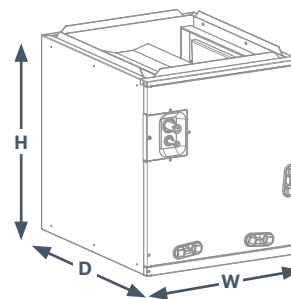
BVA2.0 AIR HANDLER DIMENSIONS (IN INCHES)				
MODEL SIZE	PART NUMBER	WIDTH (W)	HEIGHT (H)	DEPTH (D)
024	8733952439	19.625	46.5	21.625
036	8733952440	19.625	46.5	21.625
048	8733952441	22.0	54.5	24.0
060	8733952442	22.0	54.5	24.0



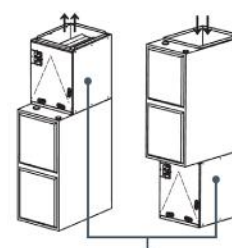
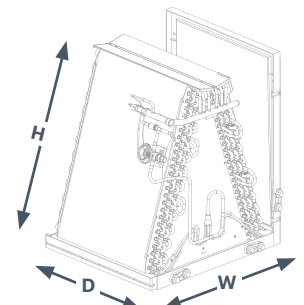
BMAC CASED COIL DIMENSIONS (IN INCHES)				
MODEL NUMBER	PART NUMBER	WIDTH (W)	HEIGHT (H)	DEPTH (D)
BMAC2430BNTD	8733947948	17.5	20.0	21.0
BMAC3036BNTD	8733947951	17.5	20.0	21.0
BMAC4248CNTF	8733947954	21.0	30.0	21.0
BMAC4860CNTF	8733947956	21.0	30.0	21.0

BMAC UNCASSED COIL DIMENSIONS (IN INCHES)			
CORRESPONDING MODEL NUMBER	WIDTH (W)	HEIGHT (H)	DEPTH (D)
BMAC2430BNTD	16.375	15.375	20.5
BMAC3036BNTD	16.375	15.375	20.5
BMAC4248CNTF	19.875	26.8	21.0
BMAC4860CNTF	19.875	27.0	21.0

Cased Coil



Uncased Coil



Upflow and downflow cased coil orientation with furnace

Horizontal cased coil orientation with furnace



LM Split Model Components

Features & Benefits

- A

The Bosch LM Split CS heat pump comes with a large electrical box to mount any Bosch field mount accessories.
- B

1/2" closed cell foam insulation helps to attenuate low frequency noise from the compressor.
- C

All connections are located on corner post for easy access. Water connections come standard with regular FPT fittings
- D

The compact cabinet is constructed out of durable powdered coated G90 Galvanized Steel
- E

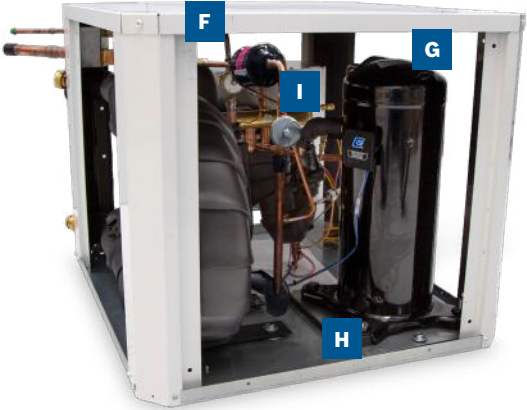
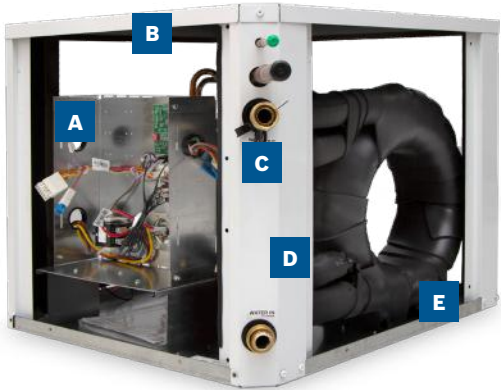
The Coaxial water coil is wrapped in 1/2" closed cell foam insulation for superior moisture protection.
- F

The thermal expansion valve (TXV) is adjustable, bi-directional and controls the refrigerant flow providing optimum superheat to the compressor
- G

The two stage high-efficiency scroll compressor provides maximum comfort and quiet operation using minimal energy.
- H

The unique floating base uses heavy steel plate combined with high density rubber pad and grommets to isolate the compressor from the cabinet. This double isolation prevents vibration and noise transmission.
- I

The Bosch LM Split heat pump comes with a factory installed filter drier to help reduce installation time.



Option 1

Bosch LM Split CS

The robust Bosch LM Split Condensing Section (CS) Water Source Heat Pump system utilizes just the right amount of energy to achieve ultimate comfort and maximum efficiency while fitting in your existing space constraints.

Bosch's LM Split AH/AV Air Handler

The AH (horizontal air handler)/AV (vertical air handler) is Bosch's air handler section adaptable for compact spaces and comes standard with variable speed ECM constant airflow blower motor for reduced noise and increased comfort.

			WATER LOOP HEAT PUMP				GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP				
			COOLING 86°F		HEATING 68°F		COOLING 86°F		HEATING 68°F		COOLING 86°F		HEATING 68°F		
FULL LOAD	CONDENSING SECTION	AIR HANDLER PART NUMBER	COOLING CAPACITY (BTU/HR)	EER	HEATING CAPACITY (BTU/HR)	COP	COOLING CAPACITY (BTU/HR)	EER	HEATING CAPACITY (BTU/HR)	COP	COOLING CAPACITY (BTU/HR)	EER	HEATING CAPACITY (BTU/HR)	COP	FLUID FLOW GPM
	LM024-1CS	LM024-1AV/AH	23100	15.00	26400	5.20	28500	22.20	22200	4.50	26200	17.00	17700	3.75	6
	LM036-1CS	LM036-1AV	36100	14.05	44100	4.85	40900	21.05	35200	4.40	37900	16.25	27400	3.65	9
		LM036-1AH	36100	14.85	44100	5.00	40900	22.20	35200	4.50	37900	17.15	27400	3.80	9
	LM048-1CS	LM048-1AV	46900	14.90	56800	5.00	52800	21.25	46600	4.60	48900	16.20	37800	3.90	12
		LM048-1AH	46900	14.25	56800	4.80	52800	21.15	46600	4.40	48900	16.20	37800	3.70	12
	LM060-1CS	LM060-1AV	56100	14.10	74500	5.00	64500	20.50	60500	4.40	58900	16.10	49000	3.80	15
		LM060-1AH	56100	14.45	74500	4.80	64500	20.50	60500	4.30	58900	16.25	49000	3.65	15
PART LOAD	LM024-1CS	LM024-1AV/AH	17200	16.50	19900	5.50	21600	28.60	16200	4.60	20000	23.80	13800	3.90	6
	LM036-1CS	LM036-1AV	27000	16.65	32000	5.85	30600	27.65	25250	4.80	29300	23.60	22400	4.25	9
		LM036-1AH	27000	15.85	32000	6.00	30600	27.00	25250	4.95	29300	22.90	22400	4.35	9
	LM048-1CS	LM048-1AV	35600	18.20	40400	5.50	39400	29.80	34200	4.70	38400	24.25	30200	4.20	12
		LM048-1AH	35600	16.55	40400	5.40	39400	27.85	34200	4.60	38400	23.80	30200	4.10	12
	LM060-1CS	LM060-1AV	42800	16.00	54500	5.70	49600	27.00	44200	4.70	47900	23.30	39400	4.20	15
		LM060-1AH	42800	16.35	54500	5.60	49600	27.10	44200	4.50	47900	23.15	39400	3.95	15



Option 2

Bosch LM Split CS

The robust Bosch LM Split Water Source Heat Pump system utilizes just the right amount of energy to achieve ultimate comfort and maximum efficiency while fitting in your existing space constraints.



Bosch's BVA2.0 Air Handler

The BVA2.0 is Bosch's robust & reliable Indoor multi-position air handler that can be mounted vertically, horizontally, or field configured downflow.

						WATER LOOP HEAT PUMP				GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP				FLUID FLOW GPM
						COOLING 86°F		HEATING 68°F		COOLING 86°F		HEATING 68°F		COOLING 86°F		HEATING 68°F		
FULL LOAD	CONDENSING SECTION	CONDENSING SECTION PART NUMBER	WATER COAXIAL COIL	AIR HANDLER	AIR HANDLER PART NUMBER	COOLING CAPACITY (BTU/HR)	EER	HEATING CAPACITY (BTU/HR)	COP	COOLING CAPACITY (BTU/HR)	EER	HEATING CAPACITY (BTU/HR)	COP	COOLING CAPACITY (BTU/HR)	EER	HEATING CAPACITY (BTU/HR)	COP	
	LM024-1CS	7735029194	C	BVA-24WN1-M20	8733952439	25400	15.00	29700	5.50	28600	22.10	24200	4.80	26500	16.60	19000	4.00	
	LM036-1CS	7735070767	C	BVA-36WN1-M20	8733952440	35000	14.00	44500	5.20	38400	21.30	36500	4.50	36400	16.80	29200	3.95	
	LM048-1CS	7735029548	C	BVA-48WN1-M20	8733952441	49500	15.70	56200	5.30	54000	23.10	47000	4.80	51700	18.10	38000	4.00	
	LM060-1CS	7735029550	C	BVA-60WN1-M20	8733952442	60400	15.40	75300	5.25	64800	21.80	62300	4.60	62900	17.70	50100	4.00	
PART LOAD	LM024-1CS	7735029194	C	BVA-24WN1-M20	8733952439	18300	16.00	21900	5.70	20800	27.30	17700	4.80	19900	22.80	15600	4.20	
	LM036-1CS	7735070767	C	BVA-36WN1-M20	8733952440	25300	15.20	32000	5.60	28600	26.90	26200	4.70	27600	22.60	23300	4.25	
	LM048-1CS	7735029548	C	BVA-48WN1-M20	8733952441	36400	17.50	40900	5.70	40900	29.90	34100	4.80	39600	25.10	30800	4.40	
	LM060-1CS	7735029550	C	BVA-60WN1-M20	8733952442	44000	16.80	54600	5.75	49800	28.00	44200	4.80	48100	23.90	39400	4.40	



Option 3

Bosch LM Split CS

The robust Bosch LM Split Water Source Heat Pump system utilizes just the right amount of energy to achieve ultimate comfort and maximum efficiency while fitting in your existing space constraints.



Bosch BMAC Cased Coil

The Ducted Split air Coil, when paired with a Bosch Furnace and LM Split condensing section, delivers some of the best comfort levels and efficiency on the market today. Bosch offers a complete range of air coils to fit your needs.



Fossil Fuel Furnace (Dual Fuel)

A third-party furnace can be used in applications where homeowner prefers to use gas heat on very cold days.

						WATER LOOP HEAT PUMP				GROUND WATER HEAT PUMP				GROUND LOOP HEAT PUMP				FLUID FLOW GPM
						COOLING 86°F		HEATING 68°F		COOLING 86°F		HEATING 68°F		COOLING 86°F		HEATING 68°F		
FULL LOAD	CONDENSING SECTION	CONDENSING SECTION PART NUMBER	WATER COAXIAL COIL	AIR HANDLER	AIR HANDLER PART NUMBER	COOLING CAPACITY (BTU/HR)	EER	HEATING CAPACITY (BTU/HR)	COP	COOLING CAPACITY (BTU/HR)	EER	HEATING CAPACITY (BTU/HR)	COP	COOLING CAPACITY (BTU/HR)	EER	HEATING CAPACITY (BTU/HR)	COP	
	LM024-1CS	7735029194	C	BMAC2430BNTD	8733947948	24400	15.70	29200	5.40	27400	23.20	24000	4.80	25500	18.10	18900	3.95	
	LM036-1CS	7735070767	C	BMAC3036BNTD	8733947951	35300	13.90	43100	5.00	39600	20.50	36000	4.60	37100	16.40	29800	4.05	
	LM048-1CS	7735029548	C	BMAC4248CNTF	8733947954	48400	15.10	54000	5.00	52000	21.60	45500	4.50	50300	17.50	37200	3.90	
	LM060-1CS	7735029550	C	BMAC4860CNTF	8733947956	59500	14.80	67700	4.80	63600	20.50	58600	4.40	61800	16.90	47700	3.80	
PART LOAD	LM024-1CS	7735029194	C	BMAC2430BNTD	8733947948	18000	16.30	21900	5.80	20600	28.00	18000	4.80	19700	23.30	16000	4.25	
	LM036-1CS	7735070767	C	BMAC3036BNTD	8733947951	26200	16.50	30900	5.40	30000	27.90	25900	4.80	28700	23.40	23500	4.35	
	LM048-1CS	7735029548	C	BMAC4248CNTF	8733947954	36200	17.10	40200	5.00	40500	28.20	33500	4.70	39100	24.30	30500	4.30	
	LM060-1CS	7735029550	C	BMAC4860CNTF	8733947956	43800	16.20	50700	5.20	49900	26.90	42800	4.60	47700	22.30	38500	4.20	

LM Split Condensing Section		
Model	LM Split Condensing Section Part Number	Coaxial Water Coil
LM024-1CS	7735029194	C
	7735032048	N
LM036-1CS	7735070767	C
	7735072590	N
LM048-1CS	7735029548	C
	7735039125	N
LM060-1CS	7735029550	C
	7735039126	N

LM Split Air Handler Section				
Model	LM Split Air Handler Part Number	Return Air Configuration	Discharge Air Configuration	Controls
LM024-1AV	7735079380	L	T	X
	7735079381	R		
LM024-1AH	7735039455	L	S	
	7735079382	L	E	
	7735079383	R	S	
	7735036844	R	E	
LM036-1AV	7735079384	L	T	
	7735079385	R		
LM036-1AH	7735079386	L	S	
	7735079387	L	E	
	7735079388	R	S	
	7735079389	R	E	
LM048-1AV	7735079390	L	T	
	7735079391	R		
LM048-1AH	7735079392	L	S	
	7735079393	L	E	
	7735079394	R	S	
	7735079395	R	E	
LM060-1AV	7735079401	L	T	
	7735079402	R		
LM060-1AH	7735079403	L	S	
	7735079404	L	E	
	7735079405	R	S	
	7735079406	R	E	

LM Split Air Handler Section (Continued)				
Model	LM Split Air Handler Part Number	Return Air Configuration	Discharge Air Configuration	Controls
LM024-1AV	7735079407	L	T	M (DDC)
	7735079408	R		
LM024-1AH	7735079409	L	S	
	7735079410	L	E	
	7735079411	R	S	
	7735079412	R	E	
LM036-1AV	7735079413	L	T	
	7735079414	R		
LM036-1AH	7735079415	L	S	
	7735079416	L	E	
	7735079417	R	S	
	7735079418	R	E	
LM048-1AV	7735079419	L	T	
	7735079420	R		
LM048-1AH	7735079421	L	S	
	7735079423	L	E	
	7735079424	R	S	
	7735079425	R	E	
LM060-1AV	7735079426	L	T	
	7735076482	R		
LM060-1AH	7735079427	L	S	
	7735076473	L	E	
	7735079428	R	S	
	7735076472	R	E	



Zero Energy Peace of Mind

Bosch zero energy is achievable by our advanced systems approach by creating an establishment that is not an energy drain on the planet's finite resources. This technology helps reduce monthly utility bills and protect the environment.

Bosch has assembled a comprehensive suite of heating, cooling, water heating, and energy-efficient appliances that, when installed in a tandem, reduces energy usage due to intelligent product designs and higher efficiencies. In addition, this approach enables you to save enough power to offset the already reduced energy demand, meaning virtually a zero energy bill.

Ask your Bosch Contractor or go to Boschexperiencecenter.com to learn more about how Bosch products can work together for your ultimate comfort.



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.



Heating



Cooling



Hot Water



Controls

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