

ComfortStar®

Air Conditioning & Heating Products

R32 RESIDENTIAL PRODUCTS CATALOG

BAR10 & BAH10 SERIES

SCROLL
COMPRESSORS
3.5 TO 5 TONS

14.3 SEER2



Comfort, it's in our name.

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10 YEARS
WARRANTY
COMPRESSOR

10 YEARS
WARRANTY
PARTS

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BAR10 SERIES

3.5 TO 5 TONS



TOP DISCHARGE CONDENSING UNIT

FEATURES:

- **High-efficiency scroll compressor** ensures reliable performance and smooth operation.
- **Brushless DC outdoor fan motor** improves energy efficiency and extends service life.
- **Integrated refrigerant leak detection system** enhances safety and protects the system.
- **Refrigerant-cooled PCB design** provides superior heat dissipation and long-term durability.
- **Precise temperature control** delivers stable comfort with low operating noise.
- **Multiple control options**, including 24VAC thermostat compatibility, optional wired controller, and optional Wi-Fi control.



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BAR10 SERIES

3.5 TO 5 TONS TOP DISCHARGE CONDENSING UNIT



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SPECIFICATIONS:

Outdoor Unit			BAR10-42-15	BAR10-48-15	BAR10-60-15
Power Supply	Rated Voltage	V, Ph, Hz	208/230V, 1Ph,60Hz	208/230V, 1Ph,60Hz	208/230V, 1Ph,60Hz
Cooling	Capacity	Btu/h	42000	46000	54000
	Input	W	3070	3543	3927
Outdoor Minimum Circuit Ampacity		A	25.0	30.0	40.0
Outdoor Max. Fuse		A	35.0	40.0	50.0
Outdoor Air Flow		CFM	2950	2950	2950
Outdoor Noise Level		dB(A)	60.0	60.0	60.0
Connecting Wiring		AWG	24V: AWG 8*3 Shielded	24V: AWG 8*3 Shielded	24V: AWG 8*3 Shielded
Communication Type			24V	24V	24V
Throttle Type			Capillary	Capillary	Capillary
Outdoor Unit	Unpacking(W*D*H)	inch	29-9/64*29-9/64*32-7/8	29-9/64*29-9/64*32-7/8	29-9/64*29-9/64*32-7/8
	Packing (W*D*H)	inch	30-5/16*30-5/16*34-1/16	30-5/16*30-5/16*34-1/16	30-5/16*30-5/16*34-1/16
	Net/Gross Weight	lbs.	157/168	176/187	182/193
Refrigeration	Type/Charge	oz	R32/92	R32/92	R32/92
	Outdoor Additional Charge	oz/ft	0.52	0.52	0.52
	N.A. Design Pressure	PSI	0.29	174/609	174/609
Refrigerant Pipe	Liquid /Vapor Valve Size	inch	(3/8) / (3/4)	(3/8) / (3/4)	(3/8) / (3/4)
	Max. Refrigerant Pipe Length Pipe Length	ft	164	213	213
	Max. Height Difference	ft	82	98	98
Outdoor Unit	Cooling	°F	23-125	23-125	23-125
	Heating	°F	/	/	/

LUC17 SERIES

3.5 TO
5 TONS



MULTI-POSITION AIR HANDLER

FEATURES:

Flexible installation design supports multiple mounting configurations to suit a wide range of applications.

- High indoor fan static pressure (up to 0.8" w.g. / 200 Pa) enables greater installation flexibility and reliable airflow performance.
- Enhanced airflow capability allows adaptable and versatile installation options across different layouts.
- Supports duct runs up to 82 ft, making it ideal for larger residential spaces.
- Multiple control options, including 24VAC thermostat compatibility, optional wired controller, and optional Wi-Fi control.
- ECM indoor fan motor delivers high efficiency, precise speed control, and quiet operation.



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LUC17 SERIES

3.5 TO 5 TONS
AIR HANDLER
MULTI-POSITION



14.3 SEER2

SPECIFICATIONS:

Indoor Unit			LUC17-42-15	LUC17-48-15	LUC17-60-15
Power Supply	Rated Voltage	V, Ph, Hz	208/230V, 1Ph,60Hz	208/230V, 1Ph,60Hz	208/230V, 1Ph,60Hz
Cooling	Capacity	Btu/h	42000	46000	54000
Indoor Minimum Circuit Ampacity		A	7.0	7.0	7.0
Indoor Max. Fuse		A	10.0	10.0	10.0
Indoor Air Flow (H/L)		CFM	1450/750	1690/750	1690/750
Indoor Noise Level (H/L)		dB(A)	53/46	53/46	53/46
N.A. Design Pressure		PSI	174/609	174/609	174/609
Indoor Unit	Dimension (W×D×H)	inch	24-31/64×21-1/32×52-63/64	24-31/64×21-1/32×52-63/64	24-31/64×21-1/32×52-63/64
	Packing Dimension (W×D×H)	inch	27-7/8×26-37/64×54-9/64	27-7/8×26-37/64×54-9/64	27-7/8×26-37/64×54-9/64
	Net/Gross Weight	lbs.	165/184	165/184	165/184
Refrigerant Piping	Liquid/Gas Side	inch	(3/8) / (3/4)	(3/8) / (3/4)	(3/8) / (3/4)
Connecting Wiring		AWG	24V: AWG 8*3 Shielded	24V: AWG 8*3 Shielded	24V: AWG 8*3 Shielded
Communication Type			24V	24V	24V
Throttle Type			Piston	Piston	Piston
Setting Temp. Range		°F	60-90	60-90	60-90

LUC17 SERIES

3.5 TO 5 TONS AIR HANDLER MULTI-POSITION



COMBINATION TABLES



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SPECIFICATIONS:

Outdoor Unit			BAR10-42-15	BAR10-48-15	BAR10-60-15
Indoor Unit			LUC17-42-15	LUC17-48-15	LUC17-60-15
Power Supply	Rated Voltage	V, Ph, Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz
Cooling	Capacity	Btu/h	42000	46000	54000
	SEER2	Btu/h/W	14.3	14.3	13.8
	EER2	Btu/h/W	12.0	12.2	11.7
Indoor Max. Fuse		A	10.0	10.0	10.0
Indoor Air Flow (H/L)		CFM	1450/750	1690/750	1690/750
Indoor Noise Level (H/L)		dB(A)	53/46	53/46	53/46
N.A. Design Pressure		PSI	174/609	174/609	174/609
Indoor Unit	Dimension (W×D×H)	inch	24-31/64×21-1/32×52-63/64	24-31/64×21-1/32×52-63/64	24-31/64×21-1/32×52-63/64
	Packing Dimensions(W×D×H)	inch	27-7/8×26-37/64×54-9/64	27-7/8×26-37/64×54-9/64	27-7/8×26-37/64×54-9/64
	Net Weight/Gross Weight	lbs	165/184	165/184	165/184
Refrigerant Piping	Liquid Side/Gas Side	inch	(3/8) / (3/4)	(3/8) / (3/4)	(3/8) / (3/4)
Connecting Wiring		AWG	24V: AWG 8*3 Shielded	24V: AWG 8*3 Shielded	24V: AWG 8*3 Shielded
Communication Type			24V	24V / 485	24V / 485
Throttle type			Piston	Piston	Piston
Outdoor	Cooling	°F	23-125	23-125	23-125
	Heating	°F	/	/	/
Indoor (Setting Temp.)	Cooling	°F	60-90	60-90	60-90
	Heating	°F	/	/	/

CASED COIL

3.5 TO
5 TONS

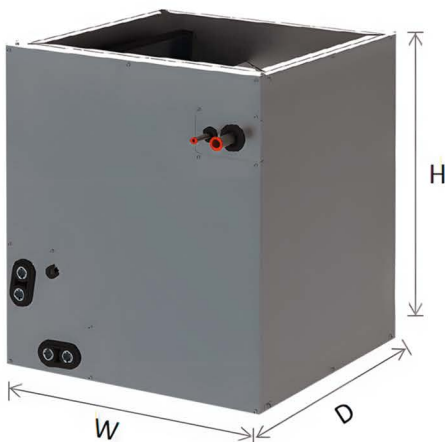
PRE-PACKAGED EVAPORATOR

FEATURES:

- **Capacity Range:**
46K–60K Btu/h to meet a variety of cooling and heating needs.
- **All-Aluminum Heat Exchanger:**
Provides excellent corrosion resistance and long service life.
- **Flexible Design:**
Multiple structures accommodate gas furnaces of different dimensions
- **Compact Structure:**
Allows high loading quantity for easier transportation and installation.
- **Outdoor Unit Compatibility:**
Can be paired with DC inverter or on/off outdoor units for versatile system configurations.



13.8 SEER2



COIL SIZE

Model	UNIT DIMENSION (W*D*H)
	(W*D*H)
AC32-4860C-15	21-1/32x21-1/32x27-51/64
AC32-4860D-15	24-31/64x21-1/32x27-51/64

CASED COIL

3.5 TO 5 TONS

COMBINATION TABLES



13.8 SEER2



SPECIFICATIONS:

Model	Outdoor Unit		BAR10-48-15	BAR10-48-15
	Indoor Unit		AC32-4860C-15	AC32-4860D-15
Power Supply		V, Ph, Hz	208/230, 1, 60	208/230, 1, 60
Cooling (Standard conditions)	Rated Capacity	Btu/hr	46000	46000
	SEER2	Btu/hr/W	13.8	13.8
	EER2	Btu/hr/W	11.7	11.7
Indoor coil	Number of rows		5	5
	Tube OD	inch	9/32	9/32
Indoor Unit	Unit Dimensions (W*D*H)	inch	21-1/32*21-1/32*27-51/64	24-31/64*21-1/32*27-51/64
	Packing Dimensions (W*D*H)	inch	24-1/64*26-49/64*29-59/64	27-9/16*26-49/64*29-59/64
	Net/Gross Weight	lbs	81/92	97/115
Compressor	Type		SCROLL	SCROLL
	Rated Power Input	w	2465	2465
Outdoor Fan Motor	Type		BLDC Motor	BLDC Motor
	Power Input	w	200	200
Refrigerant System	Type/Charging volume	lbs	R32/5.72	R32/5.72
	Liquid Side/Gas Side	inch	(3/8) / (3/4)	(3/8) / (3/4)
	Max. Refrigerant Pipe Length	feet	246	246
	Max. Difference in Level	feet	98	98
Outdoor Unit	Unit Demensions (W*D*H)	inch	29-9/64*29-9/64*32-7/8	29-9/64*29-9/64*32-7/8
	Packing Demensions (W*D*H)	inch	30-5/16*30-5/16*34-1/16	30-5/16*30-5/16*34-1/16
	Net/Gross Weight	lbs	176/187	176/187
Outdoor	Cooling	°F	23~125	23~125
	Heating	°F	/	/
Indoor (Setting Tem.)	Cooling	°F	60~90	60~90
	Heating	°F	/	/



CASED COIL

3.5 TO 5 TONS

COMBINATION TABLES



13.8 SEER2



SPECIFICATIONS:

Model	Outdoor Unit		BAR10-60-15	BAR10-60-15
	Indoor Unit		AC32-4860C-15	AC32-4860D-15
Power Supply		V, Ph, Hz	208/230, 1, 60	208/230, 1, 60
Cooling (Standard conditions)	Rated Capacity	Btu/hr	54000	54000
	SEER2	Btu/hr/W	13.8	13.8
	EER2	Btu/hr/W	11.7	11.7
Indoor coil	Number of rows		5	5
	Tube OD	inch	9/32	9/32
Indoor Unit	Unit Dimensions (W*D*H)	inch	21-1/32*21-1/32*27-51/64	24-31/64-1/32*27-51/64
	Packing Dimensions (W*D*H)	inch	24-1/64*26-49/64*29-59/64	27-9/16-49/64*29-59/64
	Net/Gross Weight	lbs	81/92	97/115
Compressor	Type		SCROLL	SCROLL
	Rated Power Input	w	3090	3090
Outdoor Fan Motor	Type		BLDC Motor	BLDC Motor
	Power Input	w	200	200
Refrigerant System	Type/Charging volume	lbs	R32/6.38	R32/6.38
	Liquid Side/Gas Side	inch	(3/8) / (3/4)	(3/8) / (3/4)
	Max. Refrigerant Pipe Length	feet	246	246
	Max. Difference in Level	feet	98	98
Outdoor Unit	Unit Dimensions (W*D*H)	inch	29-9/64*29-9/64*32-7/8	24-31/64*21-1/32*27-51/64
	Packing Demensions (W*D*H)	inch	30-5/16*30-5/16*34-1/16	27-9/16*26-49/64*29-59/64
	Net/Gross Weight	lbs	182/193	182/193
Outdoor	Cooling	°F	23-125	23-125
	Heating	°F	/	/
Indoor (Setting Tem.)	Cooling	°F	60-90	60-90
	Heating	°F	/	/

BAH10 SERIES

3.5 TO 5 TONS
HEAT PUMP
CONDENSING
UNIT

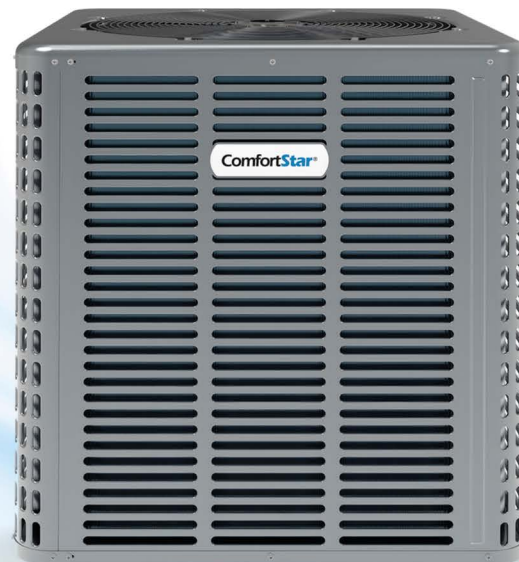


FEATURES:

- **Scroll Compressors** – Reliable and efficient performance.
- **Brushless DC Outdoor Fan Motor** - Improves efficiency and extends service life.
- **Refrigerant Leak Detection System** - Enhances safety and protects the system
- **Refrigerant-Cooled PCB Design** - Provides superior heat dissipation and long-term durability.
- **Precision Room Temperature Control** - Low operating noise for greater comfort.
- **Multiple Control Options** - Includes 24VAC thermostat compatibility, optional wired control, and optional Wi-Fi control



14.3 SEER2



BAH10 SERIES

3.5 TO 5 TONS
HEAT PUMP
CONDENSING
UNIT



14.3 SEER2

SPECIFICATIONS:

Model	Outdoor Unit		BAH10-42-15	BAH10-48-15	BAH10-60-15
Power Supply	V, Ph, Hz		208/230, 1, 60,	208/230, 1, 60,	208/230, 1, 60,
Cooling	Cooling Capacity at 95°F (35°C)	Btu/h	42000	46000	54000
	Cooling Capacity at 120°F (49°C)	Btu/h	27300	29200	36500
Heating	Capacity	Btu/h	42000	46000	53000
Compressor	Type		On-off Scroll	On-off Scroll	On-off Scroll
Outdoor Fan Motor	Type		BLDC Motor	BLDC Motor	BLDC Motor
Refrigerant	Type/Factory Charging volume	Oz	R32/98.8	R32/98.8	R32/112.9
Piping Size	Liquid Side	inch	3/8	3/8	3/8
	Gas Side	inch	3/4	3/4	3/4
Sound Pressure Level		dB(A)	60	60	60
Max. Refrigerant Pipe Length		feet	246	246	246
Max. Difference in Level		feet	98	98	98
Outdoor Unit	Unit Dimensions (W*D*H)	inch	29-9/64*29-9/64*32-7/8	29-9/64*29-9/64*32-7/8	29-9/64*29-9/64*32-7/8
	Packing Dimensions (W*D*H)	inch	30-5/16*30-5/16*34-1/16	30-5/16*30-5/16*34-1/16	30-5/16*30-5/16*34-1/16
	Net/Gross Weight	lbs	176/187	176/187	182/193
Outdoor	Cooling	°F	23-125	23-125	23-125
	Heating	°F	-4-86	-4-86	-4-86

LUC17 SERIES

3.5 TO 5 TONS

AIR HANDLER

MULTI-POSITION



COMBINATION TABLES



SPECIFICATIONS:

Model	Outdoor Unit		BAH10-42-15	BAH10-48-15	BAH10-60-15
	Indoor Unit		LUC17-42-15	LUC17-48-15	LUC17-60-15
Power Supply	V, Ph, Hz		208/230, 1, 60,	208/230, 1, 60,	208/230, 1, 60,
Cooling	Cooling Capacity at 95°F (35°C)	Btu/h	42000	46000	54000
	Cooling Capacity at 120°F (49°C)	Btu/h	27300	29200	36500
	SEER2	Btu/W	14.3	14.3	14.3
	EER2	Btu/W	11.7	11.7	11.7
Heating	Capacity	Btu/h	42000	46000	53000
	HSPF2	Btu/h/W	7.5	7.5	7.5
Indoor Unit					
Indoor Fan Motor	Motor Type		ECM Motor	ECM Motor	ECM Motor
Air Flow Volume	H/L	CFM	1100/750	1690/750	1740/750
External Static Pressure		inch.w.g.	0.8	0.8	0.8
Noise Level	H/L	dB(A)	53/46	53/46	53/46
Unit Dimensions	W*D*H	inch	24-31/64*21-1/32*52-63/64	24-31/64*21-1/32*52-63/64	24-31/64*21-1/32*52-63/64
Packing Dimensions	W*D*H	inch	27-7/8*26-37/64*54-9/64	27-7/8*26-37/64*54-9/64	27-7/8*26-37/64*54-9/64
Net/Gross Weight		lbs.	165/184	165/184	165/184
Outdoor Unit					
Compressor	Type		On-off Scroll	On-off Scroll	On-off Scroll
Outdoor Fan Motor	Type		BLDC Motor	BLDC Motor	BLDC Motor
Refrigerant	Type		R32	R32	R32
	Factory Charging Volume	oz	98.77	98.77	112.88
Piping Size	Liquid Side	inch	3/8	3/8	3/8
	Gas Side	inch	3/4	3/4	3/4
Sound Pressure Level		dB(A)	60	60	60
Max. Refrigerant Pipe Length		feet	246	246	246
Max. Difference in Level		feet	98	98	98
Unit Dimensions	W*D*H	inch	29-9/64*29-9/64*32-7/8	29-9/64*29-9/64*32-7/8	29-9/64*29-9/64*32-7/8
Packing Dimensions	W*D*H	inch	30-5/16*30-5/16*34-1/16	30-5/16*30-5/16*34-1/16	30-5/16*30-5/16*34-1/16
Net/Gross Weight		lbs	176/187	176/187	182/193
"Ambient temp. Operation Range"	Cooling	°F	23-125	23-125	23-125
	Heating	°F	-4-86	-4-86	-4-86
Indoor (Setting Tem.)	Cooling	°F	60-90	60-90	60-90
	Heating	°F	32-86	32-86	32-86

HEATERS



14.3 SEER2



Unit	BTU	Capacity	Electrical Heater Model No.
LUC17	18/24/30/36K	5KW	EHK-05E
	18/24/30/36K/48/60K	7.5KW	EHK-08E
		10KW	EHK-10E
		15KW	EHK-15E
	30/36/48/60K	20KW	EHK-20E



MATCHING TABLES



14.3 SEER2

LUC17 & BAR10 SERIES

Indoor Unit	Outdoor Unit	Cooling Capacity (Btu/h)	SEER2 (Btu/h/W)	EER2 (Btu/h/W)
LUC17-42-15	BAR10-42-15	42000	14.3	12.0
LUC17-48-15	BAR10-48-15	46000	14.3	12.2
LUC17-60-15	BAR10-60-15	54000	13.8	11.7



AC32 & BAR10 SERIES

Indoor Unit	Outdoor Unit	Cooling Capacity (Btu/h)	SEER2 (Btu/h/W)	EER2 (Btu/h/W)
AC32-4860C-15	BAR10-48-15	46000	13.8	11.7
AC32-4860D-15	BAR10-48-15	46000	13.8	11.7
AC32-4860C-15	BAR10-60-15	54000	13.8	11.7
AC32-4860D-15	BAR10-60-15	54000	13.8	11.7



LUC17 & BAH10 SERIES

Indoor Unit	Outdoor Unit	Cooling Capacity (Btu/h)	SEER2 (Btu/h/W)	EER2 (Btu/h/W)	Heating Capacity (Btu/h)	HSPF2-4 (Btu/h/W)
LUC17-42-15	BAH10-42-15	42000	14.3	11.7	42000	7.5
LUC17-48-15	BAH10-48-15	46000	14.3	11.7	46000	7.5
LUC17-60-15	BAH10-60-15	54000	14.3	11.7	53000	7.5



ComfortStar®

Air Conditioning & Heating Products

R32 RESIDENTIAL PRODUCTS

BAR10 & BAH10 SERIES

SCROLL
COMPRESSORS
3.5 TO 5 TONS

14.3 SEER2



10 YEARS
WARRANTY
COMPRESSOR

10 YEARS
WARRANTY
PARTS

Comfort, it's in our name.

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