

# SMALL SPLITS

COMMERCIAL SPLIT SYSTEMS  
3- TO 5-TON SCU/SHP/ACBX MODELS

UP TO 11.0 EER  
AND 7.7 HSPF



**ALLIED**<sup>™</sup>  
Commercial

# ENGINEERED FOR LASTING PERFORMANCE AND EFFICIENCY

Allied Commercial™ units are designed with advanced technology and durable components to perfectly heat and cool any space. With efficiency ratings up to 11.0 EER and 7.7 HSPF, the 4SCU/4SHP Small Splits from Allied Commercial are some of the most sensible choices on the market.

## SMALL SPLITS AT A GLANCE:

Lanced fins and rifled tubing found on the coils provide maximum exposure of fin surface to air stream, resulting in excellent heat transfer

Quiet Shift™ Technology allows the 4SHP to enter defrost mode without the excessive noise caused by refrigerant pressure

Optional accessories available for application flexibility and enhanced usage

## ACBX32CM AT A GLANCE:

Range of sizes from 3–5 tons for application flexibility

Units may be disassembled into two separate sections for ease of installation

Optional electric heat kits in 10, 15 or 20kW

Drain pan designed for upflow, downflow or horizontal applications

## EFFICIENCY RATING

Up to 11.0 Energy Efficiency Ratio (EER) and 7.7 Heating Seasonal Performance Factor (HSPF)

## WARRANTY

5-YEAR LIMITED WARRANTY  
on compressor

1-YEAR LIMITED WARRANTY  
on covered components and units

See warranty certificate for actual details.

Each one offers solid performance with a wide range of field-installable accessories, including multiple voltages for added flexibility, low ambient kits and compressor sound covers. The 4SHP model comes equipped with Quiet Shift™ Technology, a proven design to keep noise during defrost mode minimal, while the lanced fin design improves air-to-surface contact for greater heat transfer in both the air conditioner and heat pump.

## ALLIED COMMERCIAL AIR HANDLERS: A PERFECT MATCH FOR FLEXIBILITY

Pair the ACBX32CM with a 4SCU/4SHP Small Splits unit for proven performance and compatibility. With its flexible design, tool-less access to filter and two-screw removable panels, installation and maintenance are hassle-free.



# SMALL SPLIT AIR CONDITIONER AND HEAT PUMP PERFORMANCE SPECIFICATIONS

				COOLING DATA <sup>2,3</sup>			HEATING DATA <sup>4</sup>			PHYSICAL DATA	
	NOM TON.	MODEL	SOUND RATING dB <sup>1</sup>	ARI RATED CAP. [BTUH]	EFFICIENCY [SEER]	EFFICIENCY [EER]	EFFICIENCY [HSPF]	CAPACITY [BTUH]	COP	DIMENSIONS H X W X L [INCHES]	SHIP WT. [LBS.]
AIR CONDITIONERS	3	4SCU13LC136T	76	34,800	13.0	10.8	—	—	—	29.75 x 24.75 x 26.75	202
	4	4SCU13LC148T	78	47,000	13.0	10.8	—	—	—	37.75 x 29.375 x 31.25	220
	5	4SCU13LC160T	78	58,000	13.0	11.0	—	—	—	33.75 x 29.375 x 31.25	282
	3	4SCU13LC136F	76	34,800	13.0	10.8	—	—	—	29.75 x 24.75 x 26.75	202
	4	4SCU13LC148F	78	47,000	13.0	10.8	—	—	—	37.75 x 29.375 x 31.25	220
	5	4SCU13LC160F	78	58,000	13.0	11.0	—	—	—	33.75 x 29.375 x 31.25	282
HEAT PUMPS	3	4SHP13LC136T	76	34,000	13.0	11.0	7.7	35,200	3.7	29.75 x 24.75 x 26.75	202
	4	4SHP13LC148T	78	47,500	13.0	11.0	7.7	44,000	3.4	33.75 x 29.375 x 31.25	260
	5	4SHP13LC160T	78	57,000	13.0	10.8	7.7	56,000	3.3	43.75 x 29.375 x 31.25	299
	3	4SHP13LC136F	76	34,000	13.0	11.0	7.7	35,200	3.7	29.75 x 24.75 x 26.75	202
	4	4SHP13LC148F	78	47,500	13.0	11.0	7.7	44,000	3.4	33.75 x 29.375 x 31.25	260
	5	4SHP13LC160F	78	57,000	13.0	10.8	7.7	56,000	3.3	43.75 x 29.375 x 31.25	299

<sup>1</sup>Sound rating number in accordance with test conditions included in ARI Standard 270.  
<sup>2</sup>5-ton-and-under equipment certified in accordance with ULE certification program, which is based on ARI Standard 210/240.  
<sup>3</sup>Cooling ratings, 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.  
<sup>4</sup>High-temperature heating ratings, 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) entering indoor coil air.  
 Note: Due to Allied Commercial's ongoing commitment to quality, all specifications, ratings and dimensions are subject to change.



## ALLIED COMMERCIAL MEANS TOUGH, PROVEN EQUIPMENT

When you select Allied Commercial Small Split equipment, you're getting engineered solutions that are a smart choice the day you buy them, and long into the future. Inside every piece of Allied Commercial equipment, you'll find durable, time-tested components and safety features including low-pressure switches to protect against loss of charge, and optional high-pressure switches to protect the compressor should pressure exceed safe levels.

Each Small Split unit is backed by thorough testing in harsh lab conditions for maximum performance season after season.

## DRY CHARGE UNITS

Economical and durable, Allied Commercial Dry Charge units work seamlessly with older indoor coil sections that have components designed for use with R-22 refrigerant. The 2SCU/2SHP models meet or exceed 13.0 SEER, meaning they can reduce utility costs over time, compared to older, less-efficient units. Experience the immediate relief with lasting performance that Allied Commercial Dry Charge units have to offer.



### DRY CHARGE SPLIT SYSTEMS AVAILABLE ACCESSORIES

- Blower-Off Delay Kit
- Compressor Low Ambient Cutoff
- Freezestats (3/8" tubing)
- Freezestats (5/8" tubing)
- High-Pressure Switch Kit
- Crankcase Heater
- Low Ambient Kit
- Mild Ambient Kit
- Loss-of-Charge Kit
- TXV Kit
- Compressor Time-Off Control
- Compressor Sound Covers (AC only)

## DRY CHARGE AIR CONDITIONER AND HEAT PUMP PERFORMANCE SPECIFICATIONS

	NOM TON.	MODEL	SOUND RATING dB	COOLING DATA			HEATING DATA			PHYSICAL DATA	
				ARI RATED CAP. [BTUH]	EFFICIENCY [SEER]	EFFICIENCY [EER]	EFFICIENCY [HSPF]	CAPACITY [BTUH]	COP	DIMENSIONS H X W X L [INCHES]	SHIP WT. [LBS.]
AIR CONDITIONERS	3	2SCU13LC136T	76	34,800	13.0	11.0	—	—	—	33.75 x 24.75 x 26.75	196
	4	2SCU13LC148T	78	45,500	13.0	11.0	—	—	—	37.75 x 29.375 x 31.25	212
	5	2SCU13LC160T	78	58,000	13.0	11.0	—	—	—	33.75 x 29.375 x 31.25	272
HEAT PUMPS	3	2SHP13LC136T	76	35,200	13.0	11.0	7.7	33,800	3.5	33.75 x 24.75 x 26.75	192
	4	2SHP13LC148T	78	48,000	13.0	11.0	7.7	47,500	3.4	37.75 x 29.375 x 31.25	248
	5	2SHP13LC160T	80	55,000	13.0	11.0	7.7	55,000	3.6	43.75 x 29.375 x 31.25	284

Note: Due to Allied Commercial's ongoing commitment to quality, all specifications, ratings and dimensions are subject to change.  
 \*High-temperature heating ratings, 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°C (21°C) entering indoor coil air.

## SMALL SPLITS



### PROVEN DESIGNS

- 1 SINGLE-STAGE SCROLL COMPRESSOR**—  
Proven design for a worry-free performance.
- 2 LANCED FINS AND RIFLED TUBING**—  
Provide exceptional heat transfer and low air resistance for efficient operation.
- 3 QUIET, DIRECT-DRIVE FAN**—Precision-balanced, direct-drive fan is designed to run slower and pull air evenly over the coil surface.

### SIMPLIFIED ACCESS

- 4 LOUVERED COIL PROTECTION**—Allows quick, easy access to the coil components from all sides, so the unit can be serviced in minimal time.
- 5 CORNER-MOUNTED SERVICE PORTS**—  
Provide easier access to installation connections and gauges during installation, service and diagnostics.
- 6 TWO-SCREW PANEL REMOVAL**—Allows for easy access while cleaning.

### PRECISION PERFORMANCE

- 7 QUIET SHIFT™ TECHNOLOGY**—Allows refrigerant pressure to equalize before entering defrost mode (heat pump only).
- 8 HIGH-PRESSURE SWITCH**—Extends the life of the unit by providing a safeguard against excessive pressure (heat pump only).
- 9 LOW-PRESSURE SWITCH**—Extends the life of the compressor by safeguarding against loss of charge.

## AIR HANDLERS: PROVEN PERFORMANCE YEAR AFTER YEAR

Allied Commercial's ACBX32CM air handlers are designed to work with 4SCU/4SHP models to deliver solid performance in any application. Their flexible design and convenient features make it easy to create a system that delivers year 'round.

### MAINTENANCE MADE EASY

This single-piece air handler can be separated into two sections to help with space-restrained applications. Tool-less filter access makes servicing quick and easy, while removable panels exposing the slide-out blower provide complete access during routine maintenance.

### FIELD-INSTALLED OPTIONS

- Electric heat
- Single-point power kit
- Downflow kit
- Downflow additive base
- Combustible floor kit

### ADDITIONAL FEATURES

- Built-in time delay
- Protective distributor tubing sleeves
- Multiple locations for electrical inlets
- Drain connection knock-outs



# ACBX32CM



## PROVEN DESIGNS

- 1 CABINET AIRFLOW CONFIGURATION**—Multi-position cabinet with upflow/horizontal or downflow configuration available.
- 2 SLEEVED DISTRIBUTOR TUBES**—A protective wrapper on each distributor tube prevents copper-to-copper contact that can create refrigerant leaks over time.
- 3 CORROSION-RESISTANT CABINET**—Galvanized steel under a two-layer painted surface protects against rust and corrosion.
- 4 MICROBAN DUAL-POSITION DRAIN PAN**—Microban is infused with each drain pan to prevent the growth of mold and mildew for improved indoor air quality.

## SIMPLIFIED ACCESS

- 5 SLIDE-OUT BLOWER**—Forward-curved centrifugal blower features slide-out capability for quick and easy service and maintenance.
- 6 TWO-PART CABINET CONSTRUCTION**—Units may be disassembled into two separate sections for easy installation in tight applications. Thick rubber gasket between sections helps ensure airtight seal.
- 7 TOOL-LESS FILTER ACCESS**—Saves time during filter replacement.

## PRECISION PERFORMANCE

- 8 CHECK AND THERMOSTATIC EXPANSION VALVE**—Factory provided to reduce installation time and provide peak cooling performance across the entire application range.
- 9 DURABLE PSC BLOWER MOTOR**—A proven design built for durability and long-lasting performance for precise operation.
- 10 HIGH-STATIC SUPPLY FAN**—Delivers up to 400 cfm/ton at 0.8" supply external static pressure, meeting the most demanding applications.



Visit us at [www.allied-commercial.com](http://www.allied-commercial.com) or contact us at 1-800-448-5872.

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