

T-SERIES™

COMMERCIAL SPLIT SYSTEMS
6- TO 20-TON ELP/ELS MODELS

UP TO 12.0 EER



ALLIED™
Commercial

ALLIED COMMERCIAL™ T-SERIES™ MEANS ADVANCED TECHNOLOGY, RIGHT AWAY.

Allied Commercial T-Series split systems are engineered with advanced technology and built to deliver lasting performance. Convenient, available and precise, they provide the ideal solution for a variety of commercial applications.

ELP/ELS UNITS AT A GLANCE:

Range of sizes from 6–20 tons (ELS) and 7.5 and 10 tons (ELP) for application flexibility

Single- and dual-circuit units available

Easy-access refrigerant lines and service valves

ELA UNITS AT A GLANCE:

Range of sizes from 6–20 tons for application flexibility

Units can be installed horizontally or vertically to fit job requirements

Units come fully assembled, ready for install with selected drives and motors

Service access from four sides

Corrosion-resistant removable/reversible plastic drain pan

Year-round savings and comfort with Single-zone VAV supply fan technology (7.5 to 20 Ton)

Improved indoor air quality with UVC lamps and MERV 10 and MERV 16 5" filter options

EFFICIENCY RATING

Up to 12.0 Energy Efficiency Ratio (EER)

WARRANTIES

5-YEAR LIMITED WARRANTY on compressor

1-YEAR LIMITED WARRANTY on covered components

See warranty certificate for actual details.

HEAT PUMPS AND AIR CONDITIONERS UP FOR ANY TASK

Precision technology and proven designs come together in the T-Series ELP heat pumps and ELS air conditioners. Allied Commercial offers a wide range of sizes from 6 to 20 tons on air conditioners and 7.5 and 10 tons on heat pumps, with a variety of field-installable options to customize to your specific needs.

Inside are features like reliable scroll compressors for precise operation, corrosion-resistant cabinets for durability and easy-access panels for convenient maintenance and service. Units with 10- to 20-ton capacities also feature dual refrigeration circuits that offer part load cooling capacity for better humidity control. And it's all available immediately, conveniently and locally.

ALLIED COMMERCIAL AIR HANDLERS: A PERFECT MATCH FOR FLEXIBILITY


ELA air handlers are designed to work with the ELS/ELP units to deliver efficiency and performance in any application. They're flexible enough to be configured in multiple positions, and include additional features like corrosion-resistant drain pans and condensate overflow protection with optional float switches for safe performance.

A blower belt tensioner provides longer belt life and easy replacement, and for simpler service, the T-Series ELA air handlers feature access panels on all four sides, a standardized filter size and a slide-out blower compartment. Models 090 and 120 feature expansion valves with internal check valves, making them heat pump ready.

LASTING EFFICIENCY AND PERFORMANCE

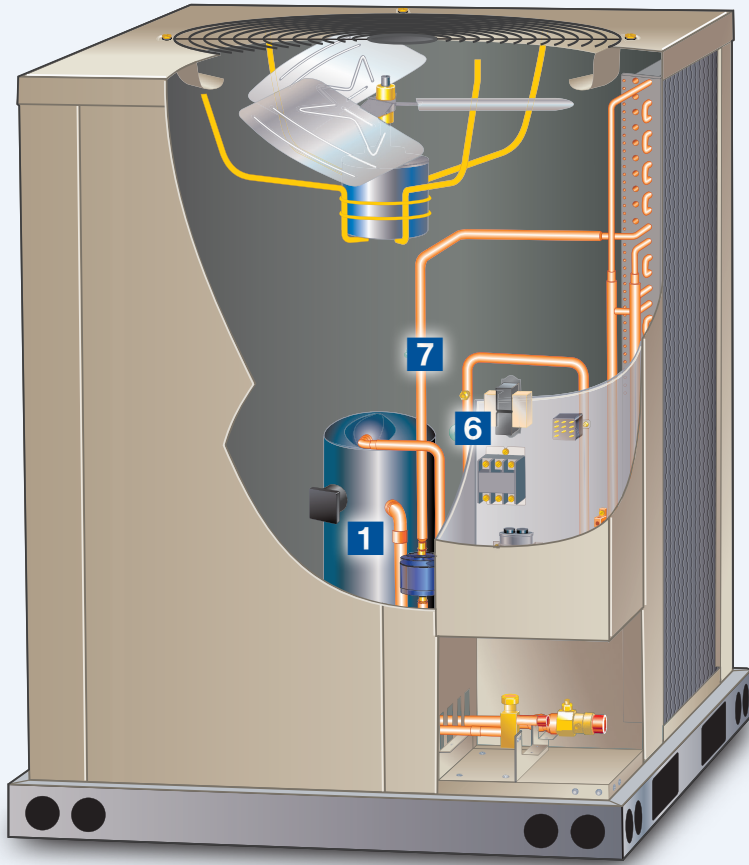
Designed to offer efficient energy use all year long, the Single-zone VAV (Variable Air Volume) supply fan technology can provide up to 61% power savings and up to 29% better moisture removal for humidity control when compared to systems with conventional supply fan motors. Single-zone VAV is a standard feature on 7.5 to 20 ton split systems units.

SINGLE-ZONE VAV

 up to **61%**
power savings

 up to **29%**
better moisture removal

ELP/ELS AIR CONDITIONERS AND HEAT PUMPS



PROVEN DESIGNS

- 1 SCROLL COMPRESSOR(S)**—Provides smooth, efficient and quiet operation.
- 2 OUTDOOR COIL FAN(S)**—Moves large volumes of air uniformly through entire condenser coil for high system efficiency.
- 3 COPPER TUBE/ENHANCED FIN COIL**—Lanced fins provide maximum exposure of fin surface to air stream, resulting in excellent heat transfer.

SIMPLIFIED ACCESS AND SERVICE

- 4 REFRIGERANT LINE AND SERVICE VALVES**—Located in one central area of cabinet for easy access.
- 5 FULL-PERIMETER BASE RAILS**—Provide structural integrity during unit transport and movement. Forklift slots and lifting holes help speed up tasks such as moving and lifting the unit on the job site.

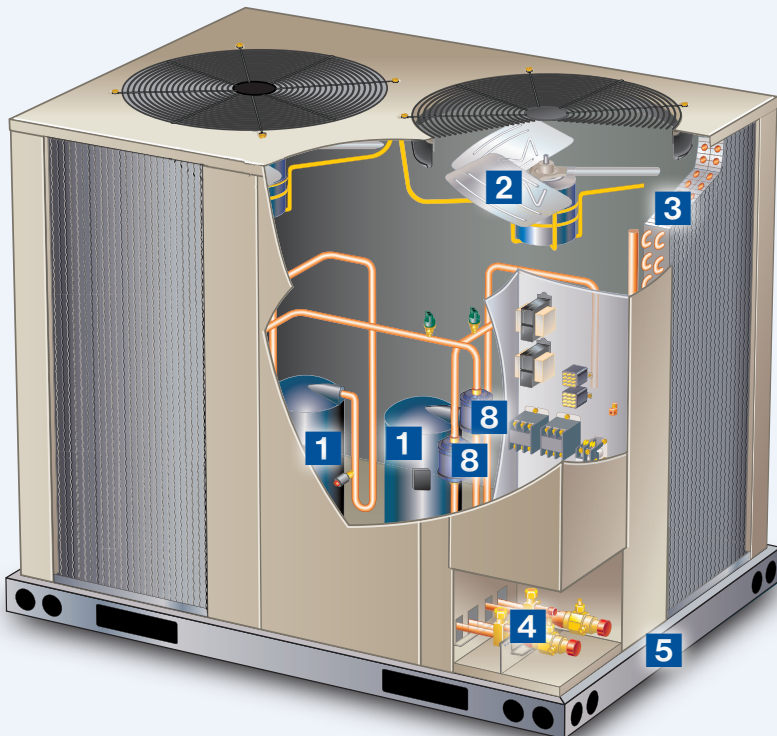
TECHNOLOGICAL ADVANTAGES

- 6 HIGH-PRESSURE SWITCH**—Protects the compressor from excessive condensing pressure.
- 7 LOSS-OF-CHARGE SWITCH**—Provides loss-of-charge and freeze-up protection.
- 8 HI-CAPACITY DRIER**—Traps moisture and dirt that can contaminate the refrigerant system.

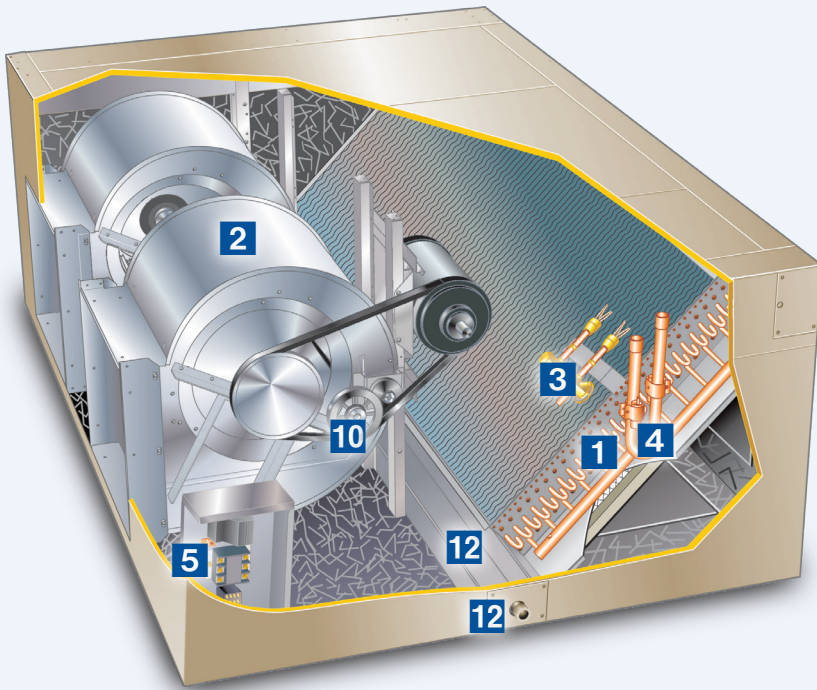
CRANKCASE HEATERS—Protect the compressor against refrigerant migration that can occur during low ambient operation.

REVERSING VALVE—Provides rapid change of refrigerant flow direction, resulting in quick changeover from cooling to heating and vice versa (heat pump unit only).

DEFROST CONTROL—Starts a defrost cycle whenever system heating performance falls below optimum levels (heat pump unit only).



ELA AIR HANDLER



PROVEN DESIGNS

- 1 MULTI-CIRCUIT COPPER-TUBE COIL AND LANCED FINS**—Provide maximum cooling efficiency, excellent heat transfer and low air resistance.
- 2 SINGLE-ZONE VAV SUPPLY FAN**—Achieve the highest level of energy savings and comfort control with staged blower speed.

SIMPLIFIED ACCESS AND SERVICE

- 3 EXPANSION VALVE**—Reduces installation time and provides peak cooling performance across the entire application range.
- 4 REFRIGERANT PIPING**—Quick and easy installation with knock-out access on either end of the unit.
- 5 CONTROL BOX**—Field-relocatable control box for easier access when space around the unit is tight.
- 6 BEARINGS**—Heavy-duty, self-aligning, permanently sealed and lubricated. Access panel on 180 and 240 models for easier service.
- 7 BLOWER MOTOR, BELT AND TENSIONER ACCESS**—Isolated from the rest of the cabinet for easier access.
- 8 FILTER ACCESS**—Quick and easy access for removal of filters on either end of unit.
- 9 FULL ACCESS PANELS**—Removable panels provide complete service access.

TECHNOLOGICAL ADVANTAGES

- 10 AUTO TENSIONING PULLEY**—Automatically controls belt tension.
- 11 HEAVY-DUTY CABINET**—Constructed of heavy-gauge steel. Completely lined with thick fiberglass insulation, resulting in quiet and efficient operation.
- 12 DRAIN PAN**—Deep, corrosion-resistant plastic drain pan. Reversible drain pan allows for drain outlets on either end of cabinet. Shipped in upflow location and can be relocated easily to the horizontal position.

OPTIONS AND ACCESSORIES



ELP/ELS Units



ELA Air Handlers

FIELD-INSTALLED OPTIONS

- Electric heat
- Water heating
- 5" MERV 10 or 16 air filtration
- UVC germicidal lamp kits
- Economizers
- Hail guards
- Coil guards
- Return air grilles
- Float switch kit
- Freezestat kit
- Low ambient control kits (down to 0°F)

FACTORY-INSTALLED OPTIONS

- Low-static drive
- High-static drive
- Protective coil coating (indoor and/or outdoor)

T-SERIES™ AIR CONDITIONER AND HEAT PUMP PERFORMANCE SPECIFICATIONS

	NOM TON.	OUTDOOR MODEL	COOLING DATA			HEATING DATA				PHYSICAL DATA OD MODEL		PHYSICAL DATA ID MODEL		
			ARI RATED CAP. [Btuh]	EER	IEER	CAPACITY [Btuh]	17F COP	CAPACITY [Btuh]	47F COP	DIMENSIONS H X W X L [IN]	SHIP WT. [LBS.]	INDOOR MODEL	DIMENSIONS H X W X L [IN]	SHIP WT. [LBS.]
AIR CONDITIONERS	6	ELS072S4ST	71,000	12.0	16.0	—	—	—	—	49 x 40 x 49	338	ELA072S4S	55 x 30 x 52	438
	7.5	ELS090S4ST	86,000	11.2	14.4	—	—	—	—	49 x 40 x 49	365	ELA090S4D	55 x 30 x 52	460
	10	ELS120S4ST	115,000	11.2	14.4	—	—	—	—	49 x 61 x 44	477	ELA120S4D	55 x 30 x 68	528
	10	ELS120S4DS	115,000	11.2	12.9	—	—	—	—	49 x 61 x 44	505	ELA120S4D	55 x 30 x 68	528
	12.5	ELS150S4DS	136,000	11.0	12.4	—	—	—	—	49 x 61 x 44	560	ELA150S4D	55 x 30 x 68	542
	15	ELS180S4DS	178,000	11.0	12.4	—	—	—	—	49 x 61 x 89	800	ELA180S4D	55 x 30 x 97	769
	20	ELS240S4DS	232,000	12.4	12.4	—	—	—	—	49 x 61 x 89	857	ELA240S4D	55 x 30 x 97	841
HEAT PUMPS	7.5	ELP090S4ST	88,000	11.0	13.6	50,000	2.25	87,000	3.3	49 x 61 x 44	450	ELA090S4D	55 x 30 x 52	460
	10	ELP120S4ST	116,000	11.0	13.6	70,000	2.25	114,000	3.3	49 x 61 x 44	527	ELA120S4D	55 x 30 x 68	528

¹Sound rating number in accordance with test conditions included in ARI Standard 270.

²6-ton-and-over equipment certified in accordance with ULE certification program, which is based on ARI Standard 340/360.

³Cooling ratings, 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.

⁴High-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.

⁵Low-temperature heating ratings, 17°F (-8°C) db/15°F (-9°C) wb outdoor air temperature and 70°F (21°C) entering indoor coil air.

NOTE: Due to Allied Commercials ongoing commitment to quality, all specifications, ratings and dimensions are subject to change.



Visit us at www.allied-commercial.com or contact us at 1-800-448-5872.

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