

# LENNOX<sup>®</sup>

## SINGLE PACKAGE AIR CONDITIONERS CHA4-201



### WEATHERPROOF FINISH

All exterior panels have hot dipped galvanized finish with baked acrylic enamel. 5-station metal preparation assures perfect bonding of the outdoor enamel. Base is covered on both sides with a corrosion resistant material and has  $\frac{3}{4}$  inch female threaded drain connections.

### EFFICIENT POWER PROP<sup>®</sup>

Pulls large air volumes uniformly through the entire condenser coil resulting in high refrigerant cooling capacity. Entering air and exhaust air in the same end of unit permitting flush through the wall installation.

### ACCESSIBLE CONTROL BOX

Large size and located for easy service access. All controls factory installed and wired.

### THERMAL INSULATION

Cabinet is lined with 1 inch thick  $1\frac{1}{2}$  lb. density fiberglass insulation.

### ACCESSIBLE CONTROL BOX

Large size and located for easy service access. All controls factory installed and wired.

### DUAL PRESSURE SWITCH

Factory installed and wired. Low pressure is automatic reset. High pressure is manual reset.

### EVAPORATOR COIL

Almost one square foot of net face area per ton of rated capacity. Four rows seamless copper tubes with flat bonded aluminum fins.

### COMPRESSOR

Suction cooled, resiliently mounted. Carries five year warranty. Accessible gauge ports. Overload protected.

### EVAPORATOR BLOWER

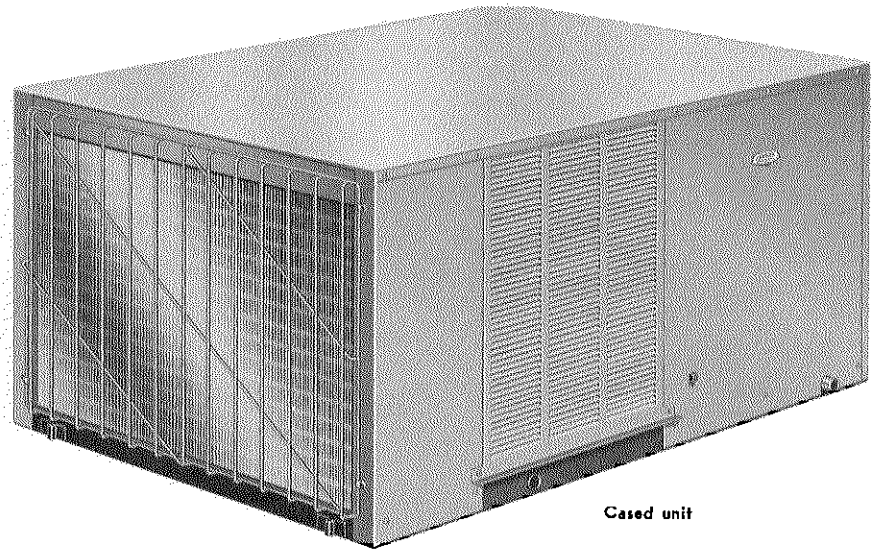
Direct drive. Quiet operating and easily serviced. Statically and dynamically balanced. All moving parts are resiliently mounted.

### CONDENSER COIL

Almost two square feet of face area per ton of rated capacity. Coil guard is optional equipment and must be ordered extra.

### ACCURATE RATINGS

Ratings shown in specifications are from Lennox calorimeter room testing procedures according to ARI standard 210-62.



Cased unit

## MAJOR FEATURES

### Application

Lennox CHA4 units are complete central air conditioners in one package. Evaporator supply air and return air openings are both at the same end of the cabinet. Condenser air inlet is at the opposite end. Condenser air is pulled through the coil and discharged out the weatherproof grilles at the sides. Unit is primarily designed for residential and small business or commercial establishments. However, multiple units can be installed to satisfy requirements of larger buildings.

### Installation

Unit is very versatile and can be installed in most any location. Can be installed through a wall in a utility room, attic space or crawl space. Can be installed on a slab at grade level or on a rooftop. Unit is shipped completely charged, and assembled in one package. Installer has only to locate unit, make duct connections and connect power supply. Each unit is test operated at the factory before shipment.

### Air Pattern Characteristics

Both the condenser coil and evaporator coil employ pull-through method of air handling. Evaporator supply air is pulled through the coil, turned 180° and discharged out the same side it entered. Condenser supply air is pulled through the condenser coil and discharged out the sides of unit.

### Controls

Controls are prewired at the factory. Unit has been test run at the factory insuring continuity of controls and wiring. Due to the many different types of applications possible with this unit, a thermostat is not furnished.

### Approvals

Units are tested and rated according to ARI Standard 210-62. CSA approved and U.L. listed.

### Accessories

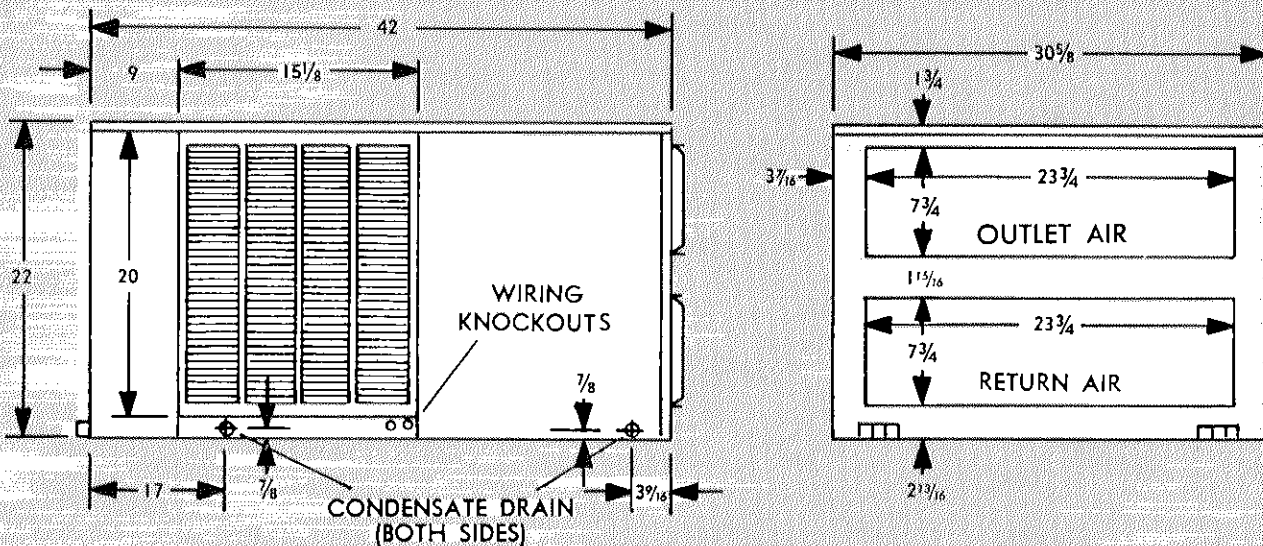
Evaporator air should be filtered. Lennox has available as optional equipment two types of filter boxes, ceiling type filter box with a built in return air grille (CHA2-C23) or a duct type filter box (CHA2-D23).

# SPECIFICATIONS

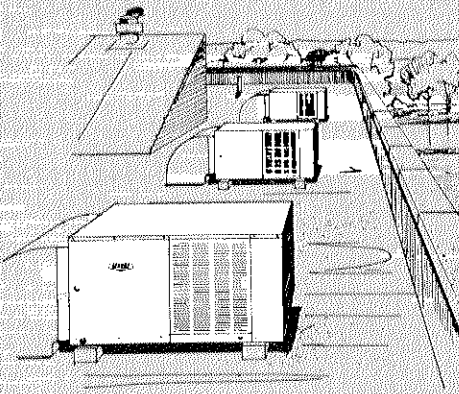
Model No.		CHA4-201
Total cooling capacity Btuh @ ARI standard conditions		23,000
Compressor watts @ ARI standard conditions		2660
Dehumidifying capacity % of total cooling capacity		29
Refrigerant type		R-22 4 lbs. 1 oz.
Condenser Coil	Net face area (sq ft)	3.75
	Tube diameter (in.)	1/2
	Number rows of tubes	3
	Fins per inch	10
Condenser Fan	Diameter (in.) and No. of blades	18-6
	Air volume (factory setting)	1872
	Rpm (factory setting)	1080
	*Motor horsepower	1/3
	*Motor watts (factory setting)	580
Evaporator Coil	Net face area (sq ft)	1.87
	Tube diameter (in.)	1/2
	Number rows of tubes	4
	Fins per inch	10
Evaporator Blower	Wheel nominal diameter x width (in.)	9 x 5
	Nominal air volume (cfm)	860
Condensate drain size fpt (in.)		3/4
Number of packages		1
Approximate shipping weight		450

NOTE—Ratings are at 450 cfm evaporator air per ton of cooling capacity.  
\*Single 1/3 hp motor with double shaft for both condenser fan and evaporator blower.

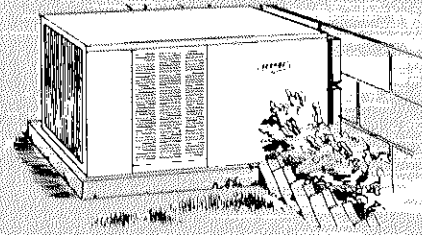
# DIMENSIONS (in.)



## APPLICATIONS



These Stowaways on rooftop cool a large building. They provide zoned comfort, take no interior space. Insulated ducts carry air through roof. Sturdy cabinets are designed to withstand weather.



A home with basement or crawl space can be cooled automatically in this manner. Stowaway connects to ducts under floor.

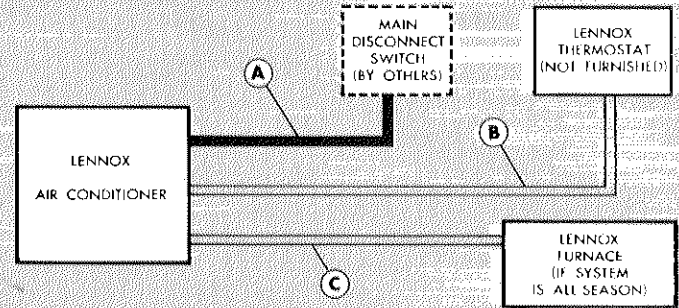
## ELECTRICAL DATA

Model No.		CHA4-201
Line voltage data		230v/60cy/1φ
Compressor	**Running amps	13.0
	Power factor	.89
	Locked rotor amps	50.0
Condenser Coil Fan	Running amps	*2.4
	Locked rotor amps	*7.4
Evaporator Coil Blower	Running amps	*2.4
	Locked rotor amps	*7.4
Maximum unit amps		15.4
AWG Wire Size For Various Lengths Of Run	10'	12
	50'	12
	100'	12
	200'	10
Disconnect size		30
Fusetron size		20

\*Same motor is used on condenser fan and evaporator blower.

\*\*Running amps are at ARI standard conditions.

## FIELD WIRING



A—Two Wire Power—Single Phase  
Three Wire Power—Three Phase

See Electrical Data table for wire size.

B—†Three Wire Low Voltage—18 ga. min.—for cooling only installations

†Four Wire Low Voltage—18 ga. min.—for all-season installations

C—†Two Wire Low Voltage—18 ga. min.—for all-season installations

All wiring must conform to NEC.

†May be class II wiring if local codes permit.

## BLOWER DATA

### EVAPORATOR BLOWER PERFORMANCE CHART

Static Pressure	Air Volume (cfm)	RPM
0	877	1080
.1	843	1083
.2	808	1087
.3	773	1090
.4	730	1094



