



ECOZONE™

# 09AWH,AWL014-024 ECOZONE AIR-COOLED CONDENSER

- PERFORMANCE DATA
- FIELD WIRING DIAGRAM
- CERTIFIED DIMENSION PRINT



Date:	Supersedes:	<b>09AWH,AWL014-024</b> <b>ECOZONE™ AIR-COOLED CONDENSER</b>	09AWH,AWL	Rev: -6SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O.#	CARRIER#	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	

**DESCRIPTION**



Ecozone units are remote air-cooled condensers for use with vertical package units, liquid chilling packages or other air-cooled compressor and remote condenser units. Units are horizontal airflow.

Units have a direct-drive axial flow condenser fan with inlet and discharge on opposite sides of the unit. Units may be mounted in any area having unobstructed air circulation. Low silhouette permits installation on varied ground, roof, or suspended applications. Unit consists of direct-drive motor(s), propeller fan(s), fan guards, motor mounts, condenser coil with optional integral subcooling circuit, and electrical junction box. Factory options are available which extend the capability and features of the unit.

**FEATURES**

Standard one-year product warranty.  
 All units are UL and UL, Canada listed.  
 Condenser motors are direct drive; permanently lubricated ball bearing; single-phase or 3 phase; weatherproof ODP (Open Drip Proof) with internal overload protection.  
 Cabinet is weather resistant galvanized steel construction.  
 Corrosion resistant fan guards on fan discharge.

Coils are aluminum plate, fin is mechanically bonded to copper tubes.  
 Coil is single or dual circuited with or without integral subcooling circuit.  
 Motor leads are wired to a weatherproof NEMA 3R control box mounted on the unit.  
 Mounting legs (18 in. high) for vertical mounting are provided.

**PERFORMANCE DATA**

Operating Weight _____ lb	Discharge Line Loss _____ F
Refrigerant _____	Saturated Condensing Temperature (SCT) _____ F
Entering-Air Temperature _____ F	Condenser Fan Cfm _____
Total Heat of Rejection _____	Minimum Entering-Air Temperature _____ F

**ELECTRICAL DATA**

Unit Power Supply \_\_\_\_\_ Volts \_\_\_\_\_ Phase \_\_\_\_\_ Hz  
 Condenser Fan Motor Input \_\_\_\_\_ kW  
 Motor Quantity \_\_\_\_\_  
 Motor Hp \_\_\_\_\_  
 Minimum Circuit Amps \_\_\_\_\_  
 Maximum Overcurrent Protection Amps \_\_\_\_\_

**FACTORY-INSTALLED OPTIONS**

- Speed Head Pressure Control (Low Ambient Kit) for Outdoor-Air Temperature to -20 F (Factory Wired)\*
- Fan Cycling Head Pressure Control
- \_\_\_\_\_
- \_\_\_\_\_

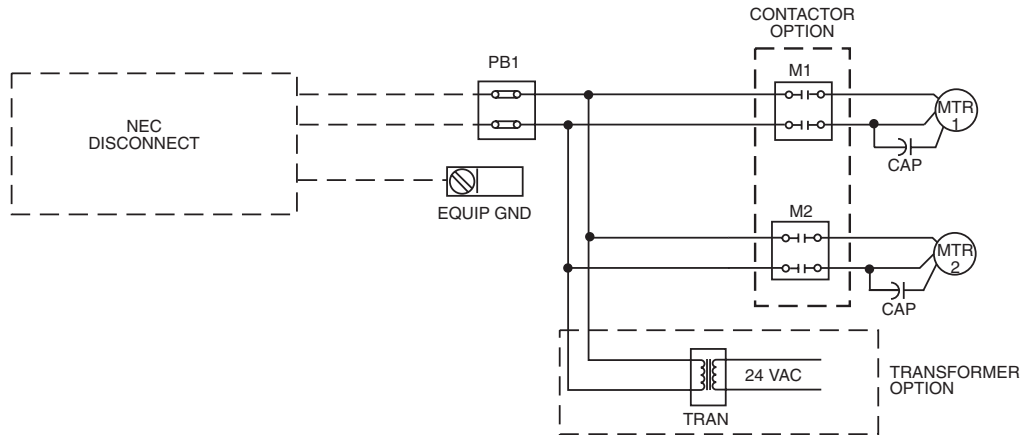
**FIELD-INSTALLED ACCESSORIES**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

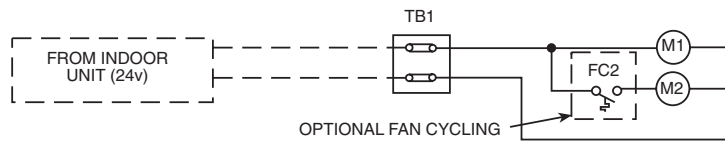
\*Two fan unit includes Fan Cycling Head Pressure Control if Speed Head Pressure Control is selected.

# FIELD WIRING DIAGRAM

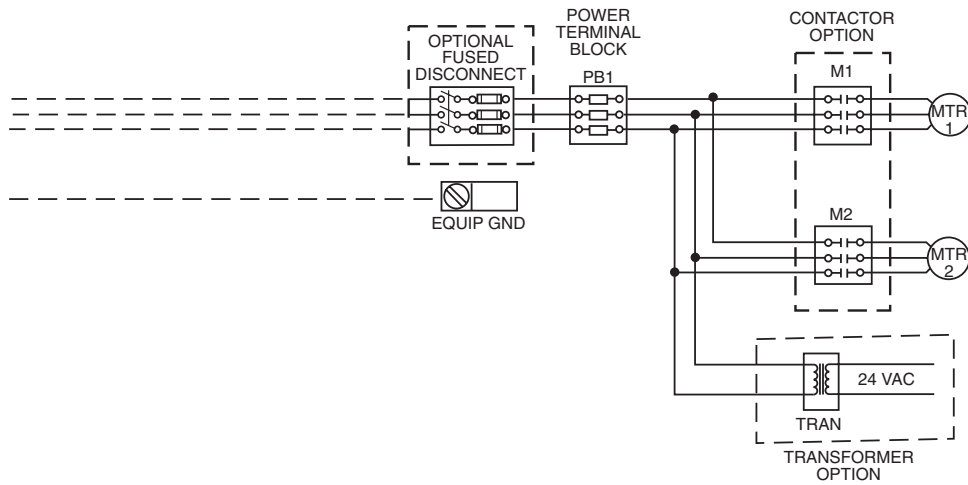
## SINGLE PHASE POWER SCHEMATIC



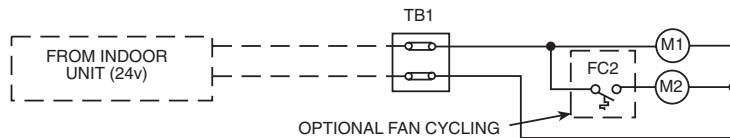
## CONTROL SCHEMATIC



## THREE PHASE POWER SCHEMATIC



## CONTROL SCHEMATIC



### LEGEND

<b>EQUIP</b>	— Equipment
<b>GND</b>	— Ground
<b>M1, M2</b>	— Fan Motor Contactor
<b>MTR1, MTR2</b>	— Fan Motor
<b>NEC</b>	— National Electrical Code
<b>PB1</b>	— Power Terminal Block
<b>TB1</b>	— Control Terminal Block

### NOTES:

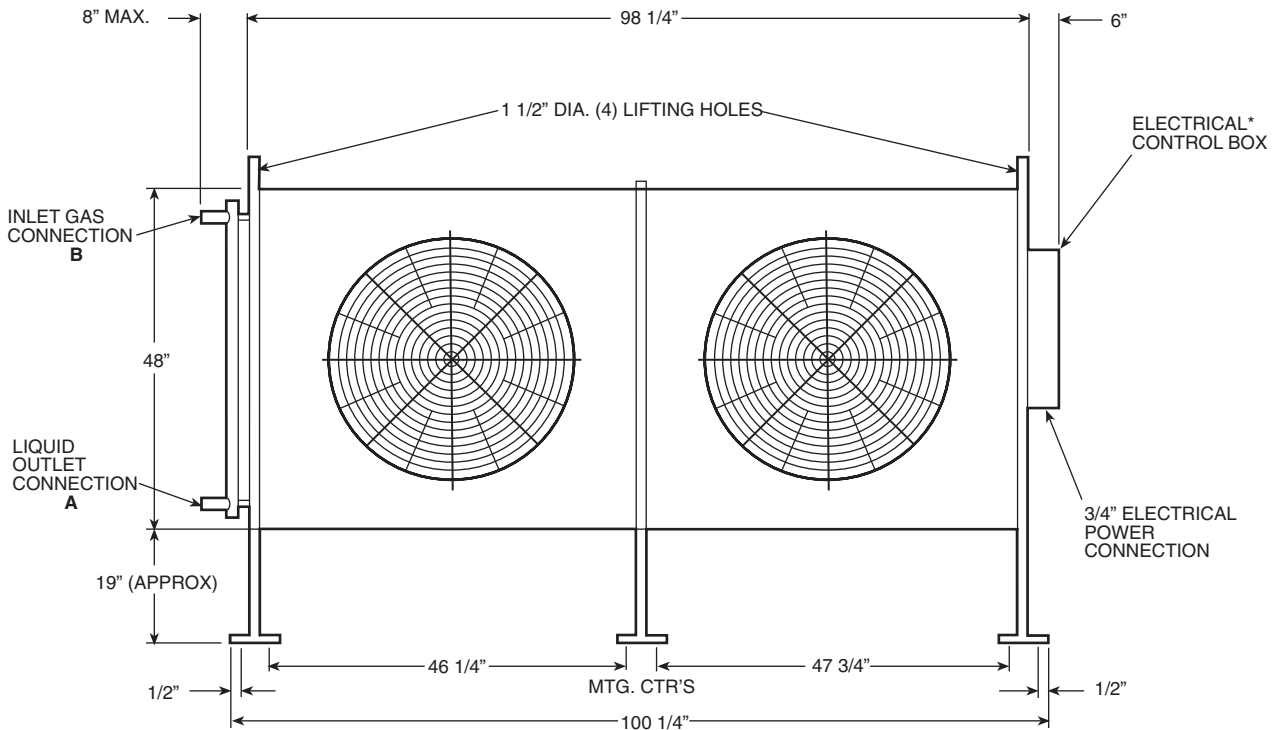
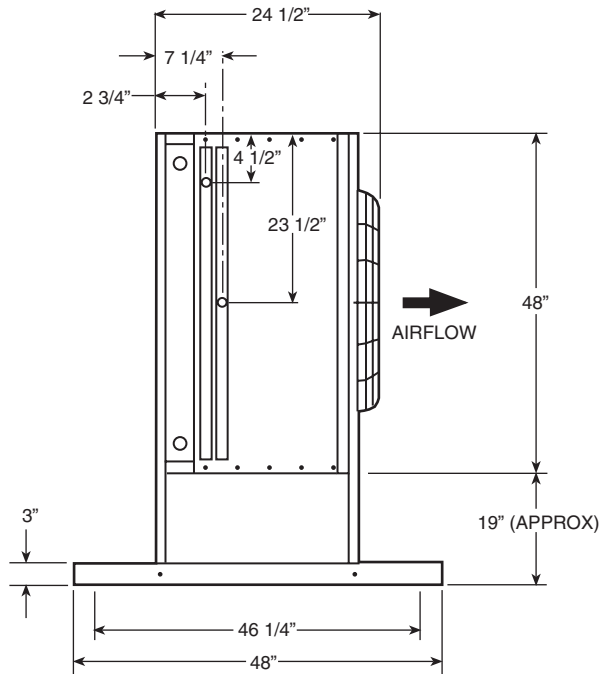
1. Motor 1 is located on header end of the unit.
2. Field control connections are made to terminal block TB1. Contactor (when supplied) holding voltage is 24 volts.
3. See unit wiring book for wiring with factory-installed head pressure control.

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

# CERTIFIED DIMENSION PRINT

## HORIZONTAL DISCHARGE



\*Coil connection dimensions reflect single circuit units.  
 †Control box size varies depending on control options.

UNIT	FAN QUANTITY	TOTAL WEIGHT (lbs)	DIMENSIONS (in.)			
			Ckt 1		Ckt 2	
			A	B	A	B
09AWH,09AWL	014	2	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>
	016	2	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>
	018	2	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>
	024	2	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>