



**TRANE®**

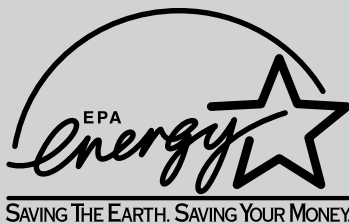
**WCZ-D-1**

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**Package  
Heat Pump Units**

**Convertible Models**

**WCZ036,060F  
3, 5 Ton**



## Features and Benefits

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# It's Hard To Stop A Trane.®



**T-TOP™**

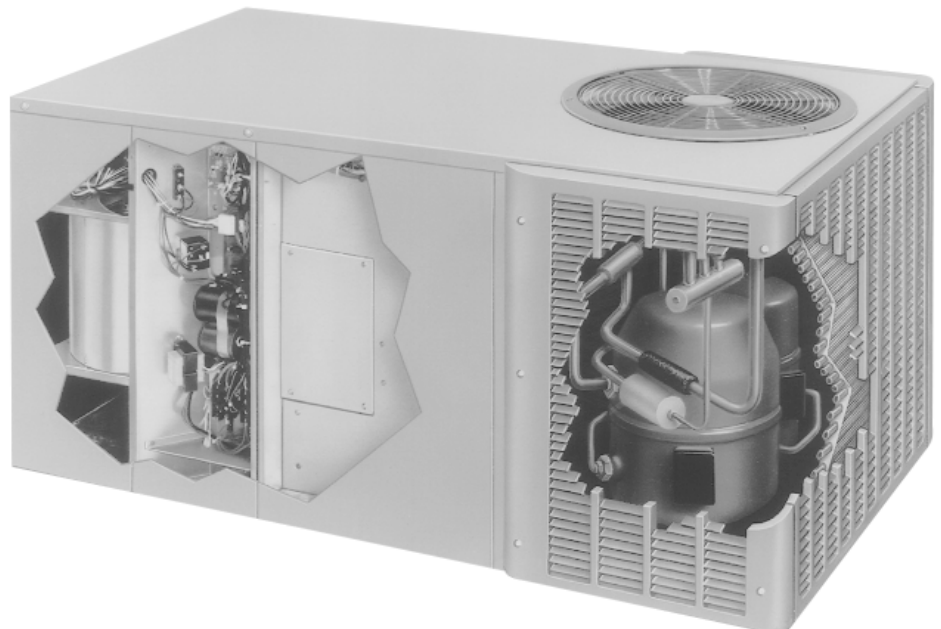
**COIL-SAV'R™ GRILLS**

**WEATHERGUARD™**  
Corrosion Resistant Screws

**Powder Paint**

**WATER-SHED Base**

**High Efficiency**  
**2 Climatuff® Compressors**  
**DuraTuff™ Plate Fin Coil**  
**Demand Defrost Control**  
**Easy Access**



# Features and Benefits

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## ● High Efficiency

IMPACT performance is the highest in the industry at up to 16.05 SEER.

## ● Two Climatuff® Compressors Two Stage Cooling

Two stage operation for full and half cooling capacity. Protection against chemical, electrical, and mechanical stresses are built in for efficiency and a longer life. The compressors are backed by a 10-year limited warranty (single phase residential use only).

## ● Coil Guards

The **COIL-SAV'R™** end and side grilles are a new Lexan®, louvertype. The grilles will protect the coil from hail, kids with sticks, and normal shipping, installation and handling damage.

## ● Powder Paint

Beautiful high gloss silver gray finish blends with any architectural style. New powder paint covers surfaces uniformly increasing protection from rust and corrosion.

## ● WEATHERGUARD™ Corrosion Resistant Screws

Holds it all together beautifully. Resists rust and corrosion.

## ● WATER-SHED Base

Superior water integrity is accomplished with the **WATER-SHED** base pan having elevated downflow openings and a perimeter channel that prevents water from draining into the ductwork.

## ● T-TOP™

Exclusive one piece, solid unit top for improved water integrity and easy component access.

## ● Demand Defrost Control

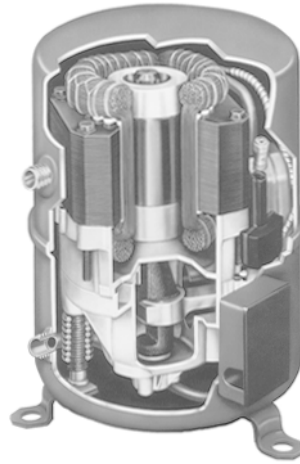
The electronic demand defrost control measures the outdoor ambient and outdoor coil conditions and eliminates unnecessary defrost cycles for energy savings and longer compressor life.

## ● DuraTuff™ Plate Fin Coil

Refrigeration coils are built with internally enhanced copper tubing for high efficiency with less coil area.

## ● Exclusive Comfort-R™ System

Provides better humidity control in cooling mode.



## ● Commonality

The common cabinet among the TCC's, WCX's, and YCY's minimizes both the training of sales and service personnel and replacement parts inventory.

## ● Easy Access

All electrical components can be diagnosed and replaced with the removal of one panel that is attached with two screws.

## ● Shipping

Unit dimensions were carefully selected to provide an attractive aspect ratio and for shipping and handling considerations.

## ● Good Neighbor

Most units can be installed flush with the residence or building thereby minimizing the ground space required. Blankets of insulation reduce blower noise and energy losses to the outside environments.

## ● Rooftop Mounting

The cabinets are physically smaller than most competitive models. This means less intrusive installations on residential rooftops where aesthetics are critical.

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**DATA SUBJECT  
TO CHANGE  
WITHOUT NOTICE.**

# Features and Benefits

## ● Flexibility

A single curb fits the entire IMPACK line from 1.5 tons through 5 tons thereby providing great installation flexibility on shopping malls, factories, schools, and other commercial buildings where a mix-match of tonnages and utilities is desired.

## ● Convertibility

IMPACK units are easily converted from horizontal to down flow with the removal of one screw from each panel. Accordingly, the need to stock both dedicated horizontal and dedicated down flow models has been eliminated.

## ● Installation

The ease of installation and application flexibility exhibited through the design reduce both field time and material.

## ● Structure

The units are lighter weight through the use of high technology components thereby reducing mounting structure requirements and difficulty when manhandling.

## ● Handling

The three-way wooden skid allows for easy loading between the wheel wells on pickup trucks for transporting to job sites.

## ● Application

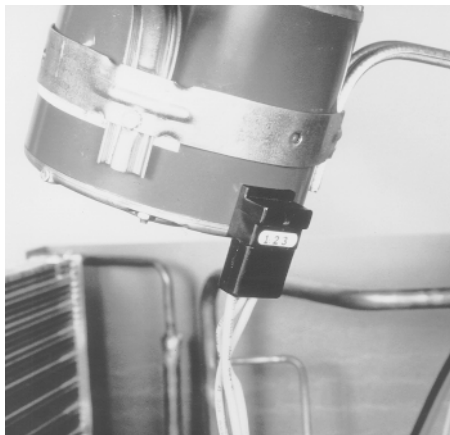
The low profile horizontal duct take-offs eliminate the need for expensive transition ducts in crawl space applications.

## ● Duct Flanges

Only IMPACK has downflow duct flanges for duct attachments that preserve the built-in water integrity.

## ● Service

All wiring is both numbered and color coded thereby reducing training and servicing costs related to circuit tracing and components replacements.



## ● Easy Fan Maintenance

A plug on the outdoor fan motor allows the top cover to be removed completely without the hassle of cumbersome wires. The unique service orifice ring allows the indoor fan motor/blower to be removed as a unit.

## ● Corrosion

The drain pan is engineered material and eliminates the need for coatings and sealers to prevent sweating and corrosion. The heavy gauge, zinc-coated steel cabinet has a weather resistant enamel finish that stays attractive and protects your investment for years.

## ● Low Ambient Control

Standard cooling operation to 45° F as shipped, zero degree ambient cooling is accomplished with the Evaporator Defrost Control Kit.

## ● Quality and Reliability Testing

We perform a 100% coil leak test at the factory. The evaporator and condenser coils are leak tested at 200 psig and pressure tested to 450 psig respectively. In addition the IMPACK designs were rigorously rain tested at the factory to ensure water integrity. Shipping tests are performed to determine packaging requirements. Factory shake and drop tests are used as part of the package design process to help assure that the unit will arrive at the job site in top condition. Additionally, all components are inspected at the point of final assembly. Substandard parts and components are identified and rejected immediately. Every unit receives a 100% run test before leaving the production line to make sure it lives up to rigorous Trane requirements. We at Trane test our designs at our factory and not on our customers!

# Impack Accessories

## ● Standard Thermostat

No special thermostat is needed with IMPACK units.

## ● Filter Frame Kit

The IMPACK filter frames accept standard filters and fit inside the unit. The frame kits function in either horizontal or downflow duct configurations.

## ● UNI-CURB

One universal curb fits all the IMPACK models. It ships knocked down. The curb design incorporates the popular locking tabs for quick and easy assembly. Full perimeter curbs with Acusta-Curb are also available for all models.



## ● Economizer

The economizer fits inside the unit with only the rain hood and barometric relief on the outside. Cabling is shipped with the economizer. This cabling is easily routed to the control box where it terminates in low voltage pigtailed. The economizer features a fully modulating low voltage motor eliminating the need for any high voltage wiring. The economizer must be used with the filter frame kit...no return air filter in the economizer kit. A dry bulb sensor is shipped with the economizer. The downflow economizer was not designed for use in horizontal applications. A horizontal only economizer is available. Heat pump applications require a relay kit.

## ● Enthalpy Control Kit

For those applications specifying an economizer with enthalpy control, this control can be used in place of the dry bulb sensor or, alternately, two enthalpy controls can be paired to provide differential enthalpy control.

# Impack Accessories

## ● 25% Fresh Air Kit

The kit installs over the horizontal return air opening with six screws for downflow requirements. It can be used on horizontal air flow applications by cutting a hole in the return air duct or in the unit filter access panel.

## ● Rectangular to Round Duct Kits

The adapter kit can be used in either horizontal or downflow applications.

## ● Low Ambient Kit

An EDC provides low ambient cooling to 0° F with some reduced capacity and protects the system against evaporator icing during other unusual cooling conditions.

## ● Lifting Lug Kit

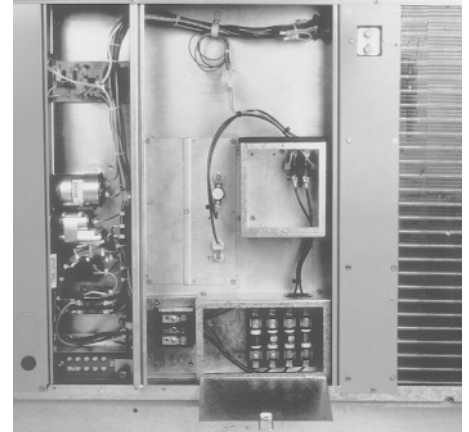
Four reusable lugs in each kit allow units to be easily lifted to rooftop installations. These lugs snap (no screws required) into slots in the unit drip lip channel.

## ● Electric Heaters

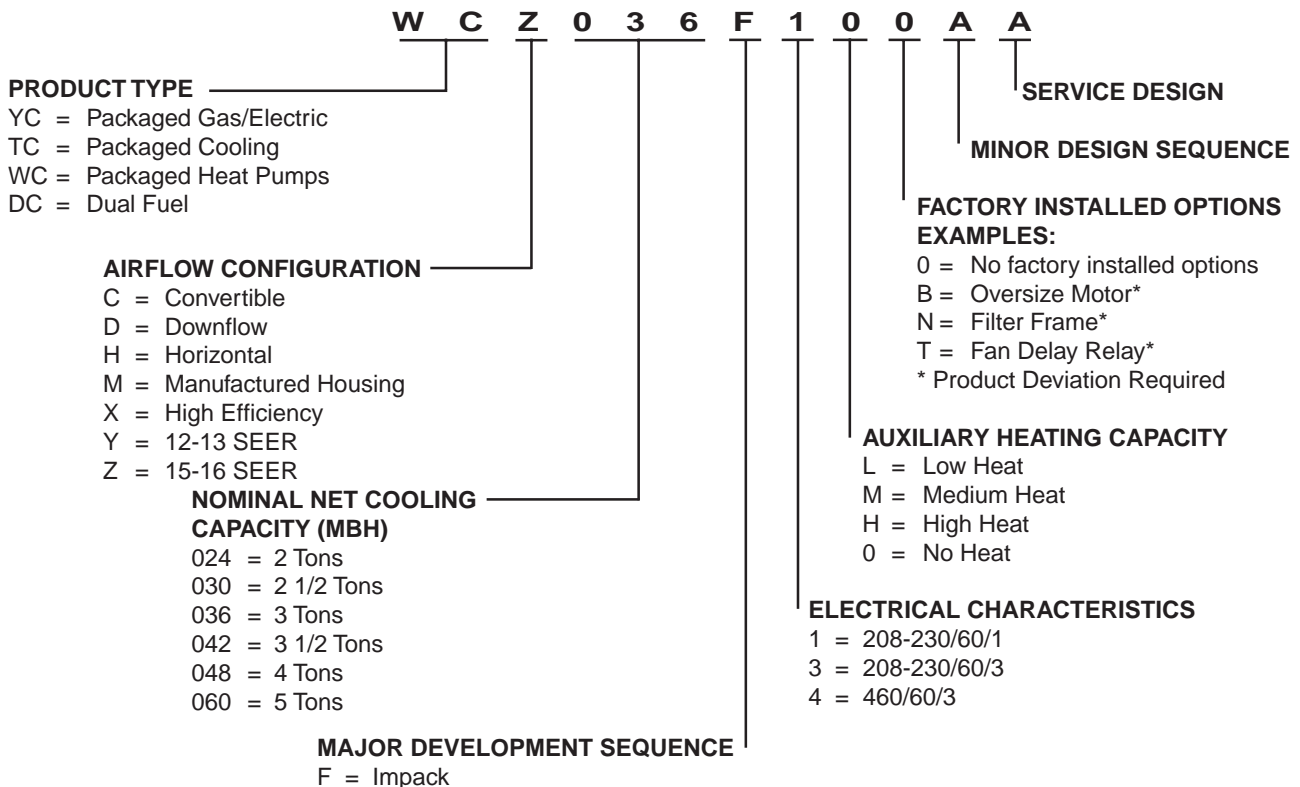
One family of electric heaters serves the entire line of 2 to 5 ton WCZ, WCY, WCX, WCC's. This will provide the highest degree of flexibility while allowing minimal inventory.

## ● Single Power Entry Kit

The kit minimizes installation costs by reducing the load center circuit requirement and reducing the number of circuit pulls needed.



## Model Number Description



# Optional Equipment

## OPTIONAL EQUIPMENT FOR PACKAGED UNITS (check mark [✓] indicates accessories included)

Indoor Thermostats	
Prog. Auto. 2-Stage Htg/Clg w/ Econ.	TAYSTAT502[ ]
Locking Thermostat Cover (Thermostats)	BAY28X190[ ]
Humidistat	BAYSTAT253[ ]
Roof Curb (Flat Roof) Universal ③ with Acusta-Curb	BAYCURB038A[ ]
Roof Curb (Flat Roof) Universal ③	BAYCURB030A[ ]
Roof Curb Full Perimeter (WCZ036F) ③ with Acusta-Curb	BAYCURB033A[ ]
Roof Curb Full Perimeter (WCZ060F) ③ with Acusta-Curb	BAYCURB034A[ ]
0-25% Manual Fresh Air Damper (WCZ036F) ①	BAYDMPR040A[ ]
0-25% Manual Fresh Air Damper (WCZ060F) ①	BAYDMPR041A[ ]
12" Round Duct Adapter (2 per box) (WCZ036F)	BAYDUCT004A[ ]
14" Round Duct Adapter (1 per box) (WCZ036F)	BAYDUCT005A[ ]
0-100% Mod Economizer w/Baro Relief (WCZ036F) ①②④⑥	BAYECON054B[ ]
0-100% Mod. Economizer w/Baro. Relief (WCZ060F) ①②④⑥	BAYECON055B[ ]
0-100% Horizontal Economizer ①②	BAYECON073A[ ]
Enthalpy Control for Economizer (solid state)	BAYENTH001A[ ]
Remote Potentiometer (BAYECON054,055A)	BAYSTAT023[ ]
Filter Frame (WCZ036F) (20x25x1) ①	BAYFLTR013A[ ]
Filter Frame (WCZ060F) (3-10x25x1) ①	BAYFLTR014A[ ]
Filter Frame (WCZ036F) (20x25x2) ①	BAYFLTR018A[ ]
Filter Frame (WCZ060F) (2-16x25x2) ①	BAYFLTR019A[ ]
Lifting Lug Kit	BAYLIFT002A[ ]
Single Power Entry Kit (WCZ036F3) ⑤	BAYSPEK047A[ ]
Single Power Entry Kit (WCZ036F1) ⑤	BAYSPEK048A[ ]
Single Power Entry Kit (WCZ036F1) ⑤	BAYSPEK049A[ ]
Single Power Entry Kit (WCZ060F3) ⑤	BAYSPEK050A[ ]
Single Power Entry Kit (WCZ036,60F3) ⑤	BAYSPEK051A[ ]
Single Power Entry Kit (WCZ060F1) ⑤	BAYSPEK052A[ ]
Single Power Entry Kit (WCZ060F1) ⑤	BAYSPEK053A[ ]
Evaporator Defrost Control (Low Ambient Cooling) Kit	BAYLOAM011A[ ]

### SUPPLEMENTARY HEATERS (1 PHASE)

3.74/4.98 KW Heater (WCZ036,060F1)(208/240v)	BAYHTRN105A[ ]
5.76/7.68 KW Heater (WCZ036,060F1)(208/240v)	BAYHTRN108A[ ]
7.47/9.96 KW Heater (WCZ036,060F1)(208/240v)	BAYHTRN110A[ ]
8.65/11.52 KW Heater (WCZ036,060F1)(208/240v)	BAYHTRN112A[ ]
11.21/14.94 KW Heater (WCZ036,060F1)(208/240v)	BAYHTRN115A[ ]
12.98/17.28 KW Heater (WCZ036,060F1)(208/240v)	BAYHTRN117A[ ]
17.3/23.04 KW Heater (WCZ060F1)(208/240v)	BAYHTRN123A[ ]

### SUPPLEMENTARY HEATERS (3 PHASE)

7.47/9.96 KW Heater (WCZ036,060F3)(208/240v)	BAYHTRN310A[ ]
7.47/9.96 KW Heater (WCZ036,060F3)(208/240v)	BAYHTRN310F[ ]
11.25/14.90 KW Heater (WCZ036,060F3)(208/240v)	BAYHTRN315A[ ]
14.96/19.92 KW Heater (WCZ036,060F3)(208/240v)	BAYHTRN320A[ ]
22.41/29.80 KW Heater (WCZ060F3)(208/240v)	BAYHTRN330A[ ]

NOTES: ① Must use filter frame when economizer/fresh air kit is used.  
 ② Dry bulb control standard with economizer.  
 ③ Ships knocked down.  
 ④ Downflow only.  
 ⑤ See table on page 14 for matching kit with units and heaters.  
 ⑥ Relay required with economizer on WCZ-F models.

# General Data

MODEL	WCZ036F100A	WCZ036F300A	WCZ060F100A	WCZ060F300A
RATED VOLTS/PH/HZ	208-230/1/60	208-230/3/60	208-230/1/60	208-230/3/60
<b>RATINGS (COOLING) ①</b>				
BTUH (HIGH)	36000	36000	58000	58000
Indoor Airflow (CFM)	1200	1200	2000	2000
Power Input (KW)	3.00	3.00	5.52	5.52
BTUH (LOW)	21000	21000	30000	30000
Indoor Airflow (CFM)	800	800	1100	1100
Power Input (KW)	1.62	1.62	2.31	2.31
EER - HI/LOW	12.00 / 13.00	12.00 / 13.00	10.50 / 13.00	10.50 / 13.00
SEER (BTU/Watt-Hr.)	15.60	15.60	15.05	15.05
Noise Rating No. ①	8.0	8.0	8.2	8.2
<b>RATINGS (HEATING) ①</b>				
(High Temp.) BTUH & C.O.P.	34000 - 3.52	34000 - 3.52	54500 - 3.46	54500 - 3.46
Power Input (KW)	2.83	2.83	4.62	4.62
(Low Temp.) BTUH & C.O.P.	18700 - 2.20	18700 - 2.20	30300 - 2.32	30300 - 2.32
Power Input (KW)	2.48	2.48	3.83	3.83
High Temp.) BTUH & C.O.P.	17600 - 3.14	17600 - 3.14	26200 - 3.39	26200 - 3.39
Power Input (KW)	1.64	1.64	2.26	2.26
(Low Temp.) BTU & C.O.P.	7700 - 1.56	7700 - 1.56	12700 - 2.00	12700 - 2.00
Power Input (KW)	1.45	1.45	1.86	1.86
HSPF (BTU / Watt-Hr.)⑥	7.65	7.65	8.10	8.10
<b>POWER CONNS.—V/PH/HZ</b>				
Min. Brch. Cir. Ampacity	27.1	19.6	43.5	30.9
Br. Cir. Max. (Amps)	17.2	10.6	70	15.4
Prot. Rtg. Recmd. (Amps)	40	30	70	45
<b>COMPRESSOR</b>				
CLIMATUFF®	CLIMATUFF®	CLIMATUFF®	CLIMATUFF®	CLIMATUFF®
No. Used	2	2	2	2
Volts/Ph/Hz (HIGH)	200-230/1/60	200-230/3/60	200-230/1/60	200-230/3/60
R.L. Amps—L.R. Amps	13.9 - 91	11.2 - 101	22.1 - 145.0	17.6 - 118
Volts/Ph/Hz (LOW)	200-230/1/60	200-230/1/60	200-230/1/60	200-230/1/60
R.L. Amps—L.R. Amps	7.0 - 41	7.0 - 41	11.0 - 57	11.0 - 57
<b>OUTDOOR COIL—TYPE</b>				
PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN
Rows / F.P.I.	2 / 22	2 / 22	2 / 22	2 / 22
Face Area (Sq. Ft.)	11.35	11.35	15.0	15.0
Tube Size (in.)	3/8	3/8	3/8	3/8
Refrigerant Control	TXV-NB	TXV-NB	TXV-NB	TXV-NB
<b>INDOOR COIL—TYPE</b>				
PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN
Rows / F.P.I.	4 / 15	4 / 15	4 / 15	4 / 15
Face Area (Sq. Ft.)	4.28	4.28	5.4	5.4
Tube Size (in.)	3/8	3/8	3/8	3/8
Refrigerant Control	TXV-NB	TXV-NB	TXV-NB	TXV-NB
Drain Conn. Size (in.)	3/4" FEMALE	3/4" FEMALE	3/4" FEMALE	3/4" FEMALE
Duct Connections	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING
<b>OUTDOOR FAN—TYPE</b>				
PROPELLER	PROPELLER	PROPELLER	PROPELLER	PROPELLER
No. Used / Dia. (in.)	1 / 18	1 / 18	1 / 24	1 / 24
Type Drive / No. Speeds	DIRECT / 2	DIRECT / 2	DIRECT / 2	DIRECT / 2
CFM vs. 0.0 In. W.G.④	2500	2500	4000	4000
No. Motors—HP	1 - 1/5	1 - 1/5	1 - 1/4	1 - 1/4
Motor Speed R.P.M.	1080	1080	840	840
Volts/PH/HZ	230/1/60	230/1/60	230/1/60	230/1/60
F.L. Amps—L.R. Amps	1.3	1.3	2.0	2.0
<b>INDOOR FAN—TYPE</b>				
CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Dia. x Width (in.)	10 X 9	10 X 9	11 X 11	11 X 11
No. Used	1	1	1	1
Drive / Speeds (No.)	DIRECT	DIRECT	DIRECT	DIRECT
No. Motors—HP	1 - 1/2	1 - 1/2	1 - 1	1 - 1
Motor Speed R.P.M.	VARIABLE	VARIABLE	VARIABLE	VARIABLE
Volts/PH/HZ	200/230/1/60	200/230/1/60	200/230/1/60	200/230/1/60
F.L. Amps	4.3	4.3	X	X
<b>FILTER—FURNISHED?</b>				
NO	NO	NO	NO	NO
Type Recommended	THROWAWAY	THROWAWAY	THROWAWAY	THROWAWAY
Min Face Area-Lo (sq. ft.) ⑥	3.47	3.47	6.67	6.67
<b>REFRIGERANT</b>				
Charge (lbs. of R-22) ④	9 LBS., 12OZ.	9 LBS., 12OZ.	12 LBS., 13 OZ.	12 LBS., 13 OZ.
<b>DIMENSIONS</b>				
H X W X D	H X W X D	H X W X D	H X W X D	H X W X D
Crated (in.)	35-1/4 X 38 X 64-5/8	35-1/4 X 38 X 64-5/8	39-3/8 X 47X 64-1/4	39-3/8 X 47X 64-1/4
Uncrated	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING
<b>WEIGHT</b>				
Shipping (lbs.) / Net (lbs.)	588 / 482	588 / 482	679 / 607	679 / 607

① Rated in accordance with A.R.I. Standard 210/240.

② Calculated in accordance with A.R.I. Standard 270.

③ Calculated in accordance with currently prevailing National Electrical Code.

④ Standard Air — Dry Coil — Outdoor.

⑤ Standard Air — Wet Coil — Indoor.

⑥ Rated in accordance with D.O.E. test procedure. HSPF is at the minimum design requirement for Region IV.

⑦ Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.



SAVING THE EARTH. SAVING YOUR MONEY.

# Performance Data Cooling

## WCZ036F—A AT 800 CFM

(CAPACITIES ARE NET IN BTUH/1000-INDOOR FAN HEAT DEDUCTED)

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP.DEW PT.	CORRECTION FACTORS - OTHER AIRFLOWS (multiply or add as indicated)		
			72	74	76	78	80					
85	59	20.2	16.9	18.3	19.7	20.5*	21.0*	1.16	45.5	AIRFLOW	700	900
	63	21.7	14.1	15.5	17.0	18.4	19.8	1.18	49.5			
	67	23.3	11.1	12.5	13.9	15.3	16.7	1.21	53.6			
	71	24.9	7.9	9.4	10.8	12.2	13.6	1.23	57.9			
90	59	19.1	16.5	17.9	19.2*	19.7*	20.1*	1.20	46.3	TOTAL CAP.	X0.99	X1.01
	63	20.6	13.7	15.1	16.5	17.9	19.3	1.23	50.2			
	67	22.2	10.7	12.1	13.5	14.9	16.3	1.25	54.3			
	71	23.7	7.5	8.9	10.4	11.8	13.2	1.28	58.6			
95	59	18.0	16.0	17.4	18.3*	18.8*	19.3*	1.24	47.0	SENS. CAP.	X0.94	X1.06
	63	19.5	13.2	14.7	16.1	17.5	18.9	1.27	50.8			
	67	21.0	10.2	11.6	13.0	14.5	15.9	1.30	55.0			
	71	22.5	7.1	8.5	9.9	11.4	12.8	1.33	59.3			
100	59	16.9	15.5	17.0*	17.4*	17.9*	18.4*	1.28	47.7	COMPR. KW	X1.00	X1.00
	63	18.4	12.8	14.2	15.6	17.0	18.4*	1.31	51.5			
	67	19.8	9.8	11.2	12.6	14.0	15.4	1.35	55.7			
	71	21.3	6.7	8.1	9.5	10.9	12.4	1.38	59.9			
105	59	15.9	15.1	16.1*	16.6*	17.0*	17.5*	1.33	48.4	A.D.P.	-1.3	+1.0
	63	17.2	12.4	13.8	15.2	16.6	17.5*	1.36	52.2			
	67	18.7	9.4	10.8	12.2	13.6	15.0	1.39	56.4			
	71	20.2	6.3	7.7	9.1	10.5	11.9	1.43	60.6			
115	59	13.7	13.9*	14.4*	14.8*	15.3*	15.8*	1.41	49.8	VALUES AT ARI RATING CONDITIONS		
	63	15.0	11.5	12.9	14.3	15.3*	15.8*	1.45	53.6			
	67	16.4	8.5	9.9	11.3	12.7	14.2	1.48	57.7			
	71	17.8	5.5	6.9	8.3	9.7	11.1	1.52	61.9			

**TOTAL NET CAPACITY = 21000 BTUH**

AIRFLOW = 800 CFM  
 APP. DEW PT. = 55.0 DEG. F  
 COMPRESSOR POWER = 1300 WATTS  
 I.D. FAN POWER = 120 WATTS  
 O.D. FAN POWER = 200 WATTS  
 E.E.R. = 13.00 BTUH/WATT

**\* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES F.**

## WCZ036F—A AT 1200 CFM

(CAPACITIES ARE NET IN BTUH/1000-INDOOR FAN HEAT DEDUCTED)

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP.DEW PT.	CORRECTION FACTORS - OTHER AIRFLOWS (multiply or add as indicated)		
			72	74	76	78	80					
85	59	35.6	27.5	29.6	31.7	33.8	35.7*	2.38	44.8	AIRFLOW	1050	1350
	63	38.0	23.2	25.4	27.5	29.6	31.7	2.42	48.8			
	67	40.6	18.6	20.7	22.8	24.9	27.0	2.45	53.1			
	71	43.2	13.8	15.9	18.0	20.1	22.2	2.49	57.4			
90	59	33.5	26.5	28.7	30.8	32.9	34.0*	2.39	45.8	TOTAL CAP.	X0.99	X1.01
	63	35.8	22.3	24.4	26.6	28.7	30.8	2.43	49.8			
	67	38.3	17.7	19.8	21.9	24.0	26.1	2.48	54.0			
	71	40.8	12.9	15.0	17.1	19.3	21.4	2.52	58.4			
95	59	31.3	25.6	27.7	29.8	31.5*	32.3*	2.39	46.9	SENS. CAP.	X0.94	X1.05
	63	33.6	21.4	23.5	25.6	27.8	29.9	2.45	50.8			
	67	36.0	16.8	18.9	21.0	23.1	25.3	2.50	55.0			
	71	38.5	12.1	14.2	16.3	18.4	20.5	2.56	59.3			
100	59	29.1	24.6	26.8	28.9	29.8*	30.5*	2.40	47.9	COMPR. KW	X1.00	X1.00
	63	31.3	20.5	22.6	24.7	26.8	28.9	2.46	51.8			
	67	33.7	15.9	18.0	20.1	22.3	24.4	2.52	56.0			
	71	36.1	11.2	13.3	15.5	17.6	19.7	2.59	60.3			
105	59	26.9	23.7	25.8	27.3*	28.0*	28.8*	2.41	48.9	A.D.P.	-1.5	+1.2
	63	29.1	19.6	21.7	23.8	25.9	28.0	2.47	52.8			
	67	31.4	15.0	17.1	19.3	21.4	23.5	2.55	56.9			
	71	33.7	10.4	12.5	14.6	16.7	18.9	2.62	61.2			
115	59	22.6	21.8	23.1*	23.9*	24.6*	25.3*	2.42	51.0	VALUES AT ARI RATING CONDITIONS		
	63	24.6	17.7	19.8	22.0	24.1	25.3*	2.50	54.8			
	67	26.8	13.3	15.4	17.5	19.6	21.7	2.59	58.9			
	71	29.0	8.7	10.8	12.9	15.1	17.2	2.68	63.1			

**TOTAL NET CAPACITY = 36000 BTUH**

AIRFLOW = 1200 CFM  
 APP. DEW PT. = 55.0 DEG. F  
 COMPRESSOR POWER = 2500 WATTS  
 I.D. FAN POWER = 280 WATTS  
 O.D. FAN POWER = 220 WATTS  
 E.E.R. = 12.00 BTUH/WATT

**\* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)  
 TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL  
 ALL TEMPERATURES IN DEGREES F.**

# Performance Data Cooling

## WCZ060F100—A AT 1100 CFM (CAPACITIES ARE NET IN BTUH/1000-INDOOR FAN HEAT DEDUCTED)

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP.DEW PT.	CORRECTION FACTORS - OTHER AIRFLOWS (multiply or add as indicated)		
			72	74	76	78	80					
85	59	28.4	23.6	25.5	27.4	28.7*	29.4*	1.56	46.7	AIRFLOW 975 1250 TOTAL CAP. X0.99 X1.01 SENS. CAP. X0.95 X1.06 COMPR. KW X1.00 X1.00 A.D.P. -1.2 +1.1		
	63	30.4	19.7	21.7	23.6	25.5	27.5	1.58	50.7			
	67	32.6	15.5	17.4	19.4	21.3	23.3	1.61	54.9			
	71	34.8	11.2	13.1	15.1	17.0	18.9	1.63	59.2			
90	59	27.2	23.0	25.0	26.9	27.7*	28.4*	1.66	47.3	VALUES AT ARI RATING CONDITIONS  <b>TOTAL NET CAPACITY = 30000 BTUH</b> AIRFLOW = 1100 CFM APP. DEW PT. = 56.0 DEG. F COMPRESSOR POWER = 1830 WATTS I.D. FAN POWER = 140 WATTS O.D. FAN POWER = 340 WATTS E.E.R. = 13.00 BTUH/WATT		
	63	29.2	19.2	21.2	23.1	25.0	27.0	1.69	51.2			
	67	31.3	15.0	17.0	18.9	20.8	22.8	1.72	55.4			
	71	33.5	10.7	12.6	14.6	16.5	18.5	1.75	59.7			
95	59	25.9	22.5	24.5	26.1*	26.8*	27.4*	1.77	47.9	<b>* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)</b> <b>TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL</b> ALL TEMPERATURES IN DEGREES F.		
	63	27.9	18.7	20.7	22.6	24.5	26.5	1.80	51.8			
	67	30.0	14.5	16.5	18.4	20.3	22.3	1.83	56.0			
	71	32.1	10.2	12.2	14.1	16.1	18.0	1.86	60.3			
100	59	24.7	22.0	23.9	25.1*	25.8*	26.4*	1.87	48.5	<b>* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)</b> <b>TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL</b> ALL TEMPERATURES IN DEGREES F.		
	63	26.6	18.2	20.1	22.1	24.0	26.0	1.90	52.4			
	67	28.7	14.0	16.0	17.9	19.9	21.8	1.94	56.6			
	71	30.7	9.8	11.7	13.6	15.6	17.5	1.98	60.8			
105	59	23.5	21.5	23.5*	4.1*	24.8*	25.4*	1.97	49.1	<b>* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)</b> <b>TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL</b> ALL TEMPERATURES IN DEGREES F.		
	63	25.4	17.7	19.6	21.6	23.5	25.4*	2.01	53.0			
	67	27.4	13.5	15.5	17.4	19.4	21.3	2.05	57.1			
	71	29.4	9.3	11.2	13.2	15.1	17.1	2.09	61.4			
115	59	21.1	20.4	21.6*	22.2*	22.8*	23.5*	2.18	50.3	<b>* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)</b> <b>TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL</b> ALL TEMPERATURES IN DEGREES F.		
	63	22.9	16.7	18.6	20.6	22.5	23.5*	2.23	54.1			
	67	24.8	12.6	14.5	16.5	18.4	20.3	2.28	58.3			
	71	26.7	8.4	10.3	12.2	14.2	16.1	2.33	62.5			

## WCZ060F100—A AT 2000 CFM (CAPACITIES ARE NET IN BTUH/1000-INDOOR FAN HEAT DEDUCTED)

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.					COMPR. KW	APP.DEW PT.	CORRECTION FACTORS - OTHER AIRFLOWS (multiply or add as indicated)		
			72	74	76	78	80					
85	59	54.2	43.2	46.8	50.3	53.8	55.2*	4.04	46.8	AIRFLOW 1750 2250 TOTAL CAP. X0.99 X1.01 SENS. CAP. X0.94 X1.05 COMPR. KW X1.00 X1.00 A.D.P. -1.5 +1.2		
	63	57.8	36.1	39.6	43.2	46.7	50.2	4.11	50.8			
	67	61.7	28.3	31.8	35.3	38.9	42.4	4.19	55.1			
	71	65.6	20.3	23.8	27.3	30.9	34.4	4.26	59.5			
90	59	52.5	42.5	46.0	49.6	52.7*	53.8*	4.17	47.3	VALUES AT ARI RATING CONDITIONS  <b>TOTAL NET CAPACITY = 58000 BTUH</b> AIRFLOW = 2000 CFM APP. DEW PT. = 56.0 DEG. F COMPRESSOR POWER = 4510 WATTS I.D. FAN POWER = 630 WATTS O.D. FAN POWER = 380 WATTS E.E.R. = 10.50 BTUH/WATT		
	63	56.0	35.4	38.9	42.4	46.0	49.5	4.26	51.3			
	67	59.8	27.6	31.1	34.6	38.2	41.7	4.35	55.5			
	71	63.7	19.6	23.1	26.7	30.2	33.7	4.44	59.9			
95	59	50.8	41.8	45.3	48.8	51.3*	52.5*	4.31	47.7	<b>* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)</b> <b>TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL</b> ALL TEMPERATURES IN DEGREES F.		
	63	54.3	34.7	38.2	41.7	45.2	48.8	4.41	51.7			
	67	58.0	26.9	30.4	33.9	37.5	41.0	4.51	56.0			
	71	61.8	18.9	22.5	26.0	29.5	33.1	4.61	60.4			
100	59	49.1	41.0	44.6	48.1	49.9*	51.1*	4.44	48.2	<b>* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)</b> <b>TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL</b> ALL TEMPERATURES IN DEGREES F.		
	63	52.5	33.9	37.5	41.0	44.5	48.1	4.55	52.2			
	67	56.2	26.2	29.7	33.2	36.8	40.3	4.67	56.5			
	71	59.8	18.3	21.8	25.3	28.9	32.4	4.79	60.8			
105	59	47.4	40.3	43.8	47.4*	48.5*	49.7*	4.58	48.7	<b>* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)</b> <b>TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL</b> ALL TEMPERATURES IN DEGREES F.		
	63	50.7	33.2	36.8	40.3	43.8	47.3	4.70	52.6			
	67	54.3	25.5	29.0	32.6	36.1	39.6	4.83	56.9			
	71	57.9	17.6	21.1	24.6	28.2	31.7	4.96	61.3			
115	59	44.0	38.8	42.4	44.7*	45.8*	46.9*	4.85	49.6	<b>* DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)</b> <b>TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL</b> ALL TEMPERATURES IN DEGREES F.		
	63	47.2	31.8	35.3	38.9	42.4	45.9	5.00	53.6			
	67	50.6	24.1	27.6	31.2	34.7	38.2	5.16	57.8			
	71	54.1	16.2	19.8	23.3	26.8	30.4	5.32	62.1			

# Performance Data Heating

## WCZ036F—A AT 800 CFM

O.D. TEMP. F.	HEATING CAPACITY (BTUH/1000) AT INDICATED INDOOR DRY BULB TEMP.				TOTAL POWER IN KILOWATTS AT INDICATED INDOOR DRY BULB TEMP.				CORRECTION FACTORS - OTHER AIRFLOWS (Value at 800 CFM times corr. factor = Value at New Airflow)
	60	70	75	80	60	70	75	80	
-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	AIRFLOW 700 900 HEATING CAP. X0.99 X1.01 COMPR. KW X1.01 X0.99 VALUES AT ARI RATING CONDITIONS OF: 70&47/43 (HIGH TEMP. POINT) 70&17/15 (LOW TEMP. POINT) AIRFLOW = 800 CFM HEATING CAP. (HIGH TEMP.) = 17600 BTUH HEATING CAP. (LOW TEMP.) = 7700 BTUH COMPR. POWER (HIGH TEMP.) = 1320 WATTS COMPR. POWER (LOW TEMP.) = 1130 WATTS HSPF (MIN DHR) = 7.65 COEFF. OF PERF. (HIGH TEMP.) = 3.16 COEFF. OF PERF. (LOW TEMP.) = 1.56 OUTDOOR FAN POWER = 200 WATTS INDOOR FAN POWER = 120 WATTS
-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2.85	2.75	2.70	2.65	1.28	1.36	1.39	1.43	
7	4.57	4.40	4.31	4.23	1.31	1.39	1.43	1.47	
12	6.30	6.05	5.93	5.80	1.34	1.42	1.46	1.50	
17	8.02	7.70	7.54	7.38	1.37	1.45	1.49	1.53	
22	9.57	9.19	9.00	8.80	1.40	1.49	1.54	1.58	
27	11.1	10.7	10.5	10.2	1.44	1.53	1.58	1.62	
32	12.7	12.2	11.9	11.6	1.48	1.58	1.62	1.67	
37	14.2	13.6	13.4	13.1	1.52	1.62	1.66	1.71	
42	15.8	15.1	14.8	14.5	1.56	1.66	1.71	1.76	
47	18.4	17.6	17.2	16.8	1.54	1.64	1.69	1.74	
52	20.1	19.3	18.8	18.4	1.57	1.67	1.72	1.77	
57	21.8	20.9	20.5	20.0	1.60	1.70	1.75	1.80	
62	23.5	22.6	22.1	21.6	1.63	1.74	1.79	1.84	
67	25.2	24.2	23.7	23.2	1.66	1.77	1.82	1.87	
72	27.0	25.9	25.3	24.7	1.69	1.80	1.85	1.90	

## WCZ036F—A AT 1200 CFM

O.D. TEMP. F.	HEATING CAPACITY (BTUH/1000) AT INDICATED INDOOR DRY BULB TEMP.				TOTAL POWER IN KILOWATTS AT INDICATED INDOOR DRY BULB TEMP.				CORRECTION FACTORS - OTHER AIRFLOWS (Value at 1200 CFM times corr. factor = Value at New Airflow)
	60	70	75	80	60	70	75	80	
-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	AIRFLOW 1050 1350 HEATING CAP. X0.99 X1.01 COMPR. KW X1.02 X0.99 VALUES AT ARI RATING CONDITIONS OF: 70&47/43 (HIGH TEMP. POINT) 70&17/15 (LOW TEMP. POINT) AIRFLOW = 1200 CFM HEATING CAP. (HIGH TEMP.) = 34000 BTUH HEATING CAP. (LOW TEMP.) = 18700 BTUH COMPR. POWER (HIGH TEMP.) = 2330 WATTS COMPR. POWER (LOW TEMP.) = 1980 WATTS HSPF (MIN DHR) = 7.65 COEFF. OF PERF. (HIGH TEMP.) = 3.52 COEFF. OF PERF. (LOW TEMP.) = 2.20 OUTDOOR FAN POWER = 220 WATTS INDOOR FAN POWER = 280 WATTS
-13	3.49	3.40	3.36	3.31	2.02	2.13	2.19	2.24	
-8	6.13	5.95	5.86	5.77	2.07	2.19	2.25	2.31	
-3	8.77	8.50	8.36	8.23	2.12	2.25	2.31	2.37	
2	11.4	11.1	10.9	10.7	2.18	2.31	2.37	2.43	
7	14.1	13.6	13.4	13.1	2.23	2.36	2.43	2.49	
12	16.7	16.2	15.9	15.6	2.29	2.42	2.49	2.55	
17	19.3	18.7	18.4	18.1	2.34	2.48	2.55	2.62	
22	20.1	19.4	19.1	18.7	2.33	2.46	2.53	2.60	
27	20.8	20.1	19.7	19.4	2.31	2.45	2.51	2.58	
32	21.5	20.8	20.4	20.1	2.30	2.43	2.50	2.56	
37	22.2	21.5	21.1	20.7	2.28	2.41	2.48	2.55	
42	22.9	22.2	21.8	21.4	2.27	2.40	2.46	2.53	
47	35.2	34.0	33.4	32.8	2.67	2.83	2.91	2.99	
52	37.8	36.6	35.9	35.3	2.73	2.89	2.97	3.05	
57	40.5	39.1	38.4	37.7	2.78	2.95	3.03	3.11	
62	43.1	41.7	40.9	40.2	2.84	3.01	3.09	3.17	
67	45.7	44.2	43.4	42.7	2.89	3.06	3.15	3.24	
72	48.4	46.8	45.9	45.1	2.95	3.12	3.21	3.30	

## WCZ060F100—A AT 1100 CFM

O.D. TEMP. F.	HEATING CAPACITY (BTUH/1000) AT INDICATED INDOOR DRY BULB TEMP.				TOTAL POWER IN KILOWATTS AT INDICATED INDOOR DRY BULB TEMP.				CORRECTION FACTORS - OTHER AIRFLOWS (Value at 1100 CFM times corr. factor = Value at New Airflow)
	60	70	75	80	60	70	75	80	
-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	AIRFLOW 975 1250 HEATING CAP. X0.99 X1.01 COMPR. KW X1.01 X0.99 VALUES AT ARI RATING CONDITIONS OF: 70&47/43 (HIGH TEMP. POINT) 70&17/15 (LOW TEMP. POINT) AIRFLOW = 1100 CFM HEATING CAP. (HIGH TEMP.) = 26200 BTUH HEATING CAP. (LOW TEMP.) = 12700 BTUH COMPR. POWER (HIGH TEMP.) = 1780 WATTS COMPR. POWER (LOW TEMP.) = 1380 WATTS HSPF (MIN DHR) = 8.10 COEFF. OF PERF. (HIGH TEMP.) = 3.40 COEFF. OF PERF. (LOW TEMP.) = 2.00 OUTDOOR FAN POWER = 340 WATTS INDOOR FAN POWER = 140 WATTS
-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-3	3.83	3.70	3.63	3.57	1.51	1.59	1.64	1.68	
2	6.18	5.95	5.84	5.72	1.57	1.66	1.70	1.75	
7	8.52	8.20	8.04	7.88	1.63	1.73	1.77	1.82	
12	10.9	10.5	10.2	10.0	1.70	1.79	1.84	1.89	
17	13.2	12.7	12.4	12.2	1.76	1.86	1.91	1.96	
22	15.1	14.5	14.2	13.9	1.84	1.94	1.99	2.05	
27	16.9	16.3	16.0	15.6	1.91	2.02	2.08	2.13	
32	18.8	18.1	17.7	17.4	1.99	2.10	2.16	2.22	
37	20.7	19.9	19.5	19.1	2.06	2.18	2.24	2.30	
42	22.5	21.7	21.2	20.8	2.14	2.26	2.32	2.39	
47	27.3	26.2	25.7	25.1	2.14	2.26	2.32	2.38	
52	29.6	28.5	27.9	27.3	2.20	2.33	2.39	2.45	
57	31.9	30.7	30.1	29.5	2.26	2.39	2.46	2.52	
62	34.3	33.0	32.3	31.6	2.32	2.46	2.53	2.60	
67	36.6	35.2	34.5	33.8	2.39	2.53	2.60	2.67	
72	39.0	37.5	36.7	35.9	2.45	2.59	2.66	2.74	

## WCZ060F100—A AT 2000 CFM

O.D. TEMP. F.	HEATING CAPACITY (BTUH/1000) AT INDICATED INDOOR DRY BULB TEMP.				TOTAL POWER IN KILOWATTS AT INDICATED INDOOR DRY BULB TEMP.				CORRECTION FACTORS - OTHER AIRFLOWS (Value at 2000 CFM times corr. factor = Value at New Airflow)
	60	70	75	80	60	70	75	80	
-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	AIRFLOW 1750 2250 HEATING CAP. X0.99 X1.01 COMPR. KW X1.02 X0.99 VALUES AT ARI RATING CONDITIONS OF: 70&47/43 (HIGH TEMP. POINT) 70&17/15 (LOW TEMP. POINT) AIRFLOW = 2000 CFM HEATING CAP. (HIGH TEMP.) = 54500 BTUH HEATING CAP. (LOW TEMP.) = 30300 BTUH COMPR. POWER (HIGH TEMP.) = 3610 WATTS COMPR. POWER (LOW TEMP.) = 2820 WATTS HSPF (MIN DHR) = 8.10 COEFF. OF PERF. (HIGH TEMP.) = 3.46 COEFF. OF PERF. (LOW TEMP.) = 2.32 OUTDOOR FAN POWER = 380 WATTS INDOOR FAN POWER = 630 WATTS
-13	6.21	6.10	6.04	5.99	2.89	3.04	3.11	3.19	
-8	10.4	10.1	10.0	9.91	3.02	3.17	3.25	3.33	
-3	14.5	14.2	14.0	13.8	3.14	3.30	3.38	3.47	
2	18.6	18.2	18.0	17.8	3.26	3.44	3.52	3.61	
7	22.8	22.2	22.0	21.7	3.39	3.57	3.66	3.74	
12	26.9	26.3	25.9	25.6	3.51	3.70	3.79	3.88	
17	31.1	30.3	29.9	29.5	3.64	3.83	3.93	4.02	
22	33.0	32.1	31.7	31.3	3.71	3.91	4.01	4.11	
27	34.9	34.0	33.5	33.1	3.78	3.99	4.09	4.19	
32	36.8	35.8	35.3	34.9	3.86	4.06	4.17	4.27	
37	38.6	37.7	37.2	36.7	3.93	4.14	4.25	4.35	
42	40.5	39.5	39.0	38.4	4.00	4.22	4.33	4.44	
47	56.0	54.5	53.8	53.0	4.38	4.62	4.74	4.86	
52	60.1	58.5	57.7	57.0	4.50	4.75	4.88	5.00	
57	64.3	62.6	61.7	60.9	4.63	4.88	5.01	5.14	
62	68.4	66.6	65.7	64.8	4.75	5.02	5.15	5.28	
67	72.5	70.6	69.7	68.7	4.87	5.15	5.28	5.42	
72	76.7	74.7	73.7	72.6	5.00	5.28	5.42	5.56	

# Performance Data

## ICM FAN MOTOR ADJUSTMENTS

If the airflow per ton needs to be increased or decreased, see the Indoor Blower Performance Table (next page). Information on changing the dip switch settings for speed control of the blower motor is in this table.

Blower speed changes are made on the ICM Fan Control mounted in the control box. The ICM Fan Control controls the variable speed motor.

There is a bank of 8 dip switches, (see below), located at the lower right side of the board. The dip switches work in pairs to select the cooling/heat airflow (CFM/TON), and Fan off-delay options.

The CFM/TON airflow is selected by setting dip switches #1, #2, #3 and #4.

## INDOOR BLOWER TIMING

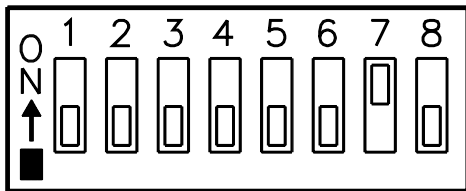
The FAN-OFF period is set on the ICM Fan Control board by dip switches #5 and #6. The blower off delay settings are as follows:

### COOLING OFF - DELAY OPTIONS

SWITCH SETTINGS		SELECTION	NOMINAL AIRFLOW
5 - OFF	6 - OFF	NONE	SAME
5 - ON	6 - OFF	1.5 MINUTES	100% *
5 - OFF	6 - ON	3 MINUTES	50%
5 - ON	6 - ON	**	50 - 100%

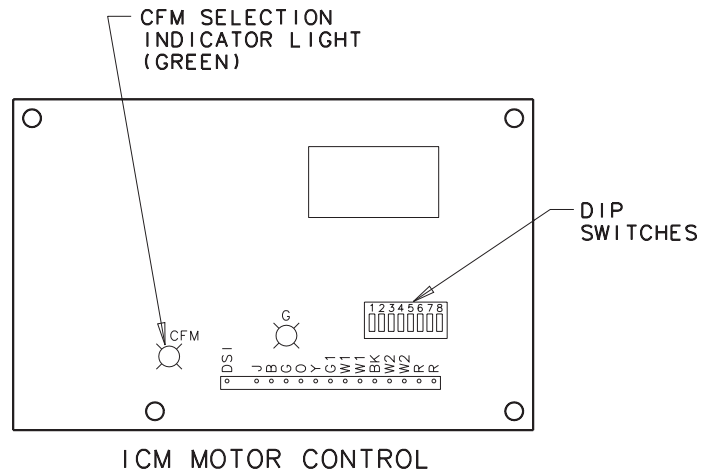
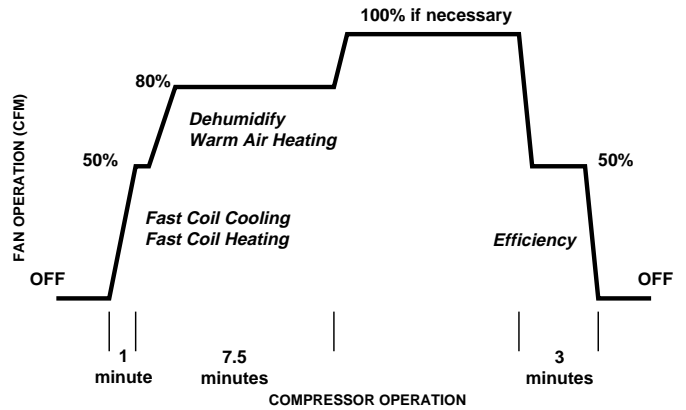
\* - This setting is equivalent to BAY24X045 relay benefit

\*\* - This selection provides the **COMFORT-R™** enhanced mode, a ramping up and ramping down of the blower speed to provide improved comfort, quietness, and potential energy savings. The graph below shows the ramping process.



DIP SWITCHES (TYPICAL SETTINGS)

The **COMFORT-R™** enhanced mode provides unmatched comfort by increased humidity control. Even in coastal areas where fan delay is a problem. The 50% airflow delivery condition after the compressor is de-energized does not cause any apparent water re-evaporation because of the cold coil condition before the coil equalizes (beyond the 3 minute setting).



## INDOOR BLOWER PERFORMANCE YZC,WCZ036F

AIRFLOW SETTING	DIPSWITCH SETTINGS				SPEED	EXTERNAL STATIC PRESSURE - IN. W.G.																	
						.20①			.30①			.50①			.70①			.90①			1.0①		
	1	2	3	4		CFM	PWR WATTS	BHP	CFM	PWR WATTS	BHP	CFM	PWR WATTS	BHP	CFM	PWR WATTS	BHP	CFM	PWR WATTS	BHP	CFM	PWR WATTS	BHP
350 CFM/TON	OFF	OFF	OFF	ON	HI	1040	180	.17	1140	210	.20	1050	250	.24	1040	310	.31	1030	360	.35	1020	380	.37
					LO	690	80	.07	680	94	.09	680	130	.12	670	170	.17	650	190	.19	640	210	.21
400 CFM/TON②	OFF	OFF	OFF	OFF	HI	1190	270	.25	1190	310	.29	1200	380	.36	1190	460	.46	1180	540	.53	1160	570	.56
					LO	790	120	.10	780	140	.13	780	200	.19	760	260	.25	740	290	.29	730	320	.32
450 CFM/TON	OFF	OFF	ON	OFF	HI	1340	380	.35	1340	440	.41	1350	540	.52	1340	650	.65	1330	770	.75	-----	-----	-----
					LO	890	170	.15	880	200	.19	890	280	.27	860	370	.36	830	410	.40	-----	-----	-----

① WET COIL, NO FILTERS

② FACTORY SETTINGS

# Performance Data

## INDOOR BLOWER PERFORMANCE WCZ, YCZ060F

AIRFLOW SETTING	DIPSWITCH SETTINGS				SPEED	EXTERNAL STATIC PRESSURE - IN. W.G.																	
						.20 <sup>①</sup>			.30 <sup>①</sup>			.50 <sup>①</sup>			.70 <sup>①</sup>			.90 <sup>①</sup>			1.00 <sup>①</sup>		
						CFM	PWR WATTS	BHP	CFM	PWR WATTS	BHP	CFM	PWR WATTS	BHP	CFM	PWR WATTS	BHP	CFM	PWR WATTS	BHP	CFM	PWR WATTS	BHP
350 CFM/TON	OFF	OFF	OFF	ON	HI	1760	380	.38	1750	420	.40	1720	490	.48	1710	560	.54	1700	630	.62	1700	680	.66
					LO	1000	106	.01	970	116	.11	960	149	.14	940	187	.18	900	217	.22	-----	-----	-----
400 CFM/TON <sup>②</sup>	OFF	OFF	OFF	OFF	HI	2040	540	.54	2020	590	.57	2010	660	.64	2010	750	.71	2005	830	.81	2000	870	.85
					LO	1143	158	.14	1113	173	.16	1094	223	.21	1073	279	.27	1026	324	.32	-----	-----	-----
450 CFM/TON	OFF	OFF	ON	OFF	HI	2260	750	.70	2250	780	.72	2240	830	.78	2240	980	.89	2210	1070	1.02	-----	-----	-----
					LO	1290	225	.21	1250	246	.23	1230	318	.31	1210	397	.39	1150	461	.46	-----	-----	-----

B665605 REV. 0

① WET COIL, NO FILTER

② FACTORY SETTING

## STATIC PRESSURE DROP THROUGH ELECTRIC HEATERS (Inches of Water)

HEATER MODEL NUMBER	NUMBER OF RACKS
BAYHTRN105A	1
BAYHTRN108A	1
BAYHTRN110A	1
BAYHTRN112A	1
BAYHTRN115A	2
BAYHTRN117A	2
BAYHTRN123A	2

AIRFLOW CFM	Number of Heater Racks	
	1	2
600	.003	—
800	.004	—
1000	.005	.007
1200	.006	.008
1400	.007	.009
1600	.008	.01
2000	.01	.02

From Dwg. 21A730642

# Optional Equipment

## Supplementary Heaters

UNIT MODEL	ELECTRIC HEATER MODEL	RATED VOLTAGE	PHASE	HEATER CAPACITY		NO. OF STAGES	KW/STAGE		MCA (2)	MAX. FUSE OR HACR CKT BKR. SIZE (4)	CANADA ONLY MAX CKT BKR. SIZE (5)
				KW	BTUH		1	2			
WCZ036F1	BAYHTRN105A	208/240	1	3.74/4.98	12800/17000	1	3.74/4.98	—	22/26 (3)	25/30	30/30
	BAYHTRN108A	208/240	1	5.76/7.68	19700/26200	1	5.76/7.68	—	35/40 (3)	35/40	40/40
	BAYHTRN110A	208/240	1	7.47/9.96	25500/34000	1	7.47/9.96	—	45/52 (3)	45/60	50/60
	BAYHTRN112A	208/240	1	8.64/11.52	29500/39300	2	4.32/5.76	4.32/5.76	52/60 (3)	60/60	60/60
	BAYHTRN115A*	208/240	1	11.21/14.94	38300/51000	2	7.47/9.96	3.74/4.98	67/78 (3)	70/80	70/100
	BAYHTRN117A*	208/240	1	12.97/17.28	44200/59000	2	8.64/11.52	4.33/5.76	78/90 (3)	80/90	100/100
WCZ060F1	BAYHTRN110A	208/240	1	7.47/9.96	25500/34000	1	7.47/9.96	—	45/52(3)	45/60	50/60
	BAYHTRN112A	208/240	1	8.64/11.52	29500/39300	2	4.32/5.76	4.32/5.76	52/60 (3)	60/60	60/60
	BAYHTRN115A*	208/240	1	11.21/14.94	38300/51000	2	7.47/9.96	3.74/4.98	67/78 (3)	70/80	70/100
	BAYHTRN117A*	208/240	1	12.97/17.28	44200/59000	2	8.64/11.52	4.33/5.76	78/90 (3)	80/90	100/100
	BAYHTRN123A*	208/240	1	17.28/23.04	59000/78600	2	8.64/11.52	8.64/11.52	104/120 (3)	110/125	125/125
WCZ036F3	BAYHTRN310A	208/240	3	7.47/9.96	25500/34000	1	7.47/9.96	—	26/30	30/30	30/30
	BAYHTRN315A	208/240	3	11.18/14.90	38100/50800	1	11.18/14.90	—	39/45	40/45	40/50
	BAYHTRN310F	208/240	3	7.47/9.96	25500/34000	2	3.74/4.98	3.74/4.98	26/30	30/30	30/30
WCZ060F3	BAYHTRN310A	208/240	3	7.47/9.96	25500/34000	1	7.47/9.96	—	26/30	30/30	30/30
	BAYHTRN315A	208/240	3	11.18/14.90	38100/50800	1	11.18/14.90	—	39/45	40/45	40/50
	BAYHTRN320A	208/240	3	14.94/19.92	51000/68000	2	7.47/9.96	7.47/9.96	53/60	60/60	60/60
	BAYHTRN330A*	208/240	3	22.36/29.80	76300/101700	2	11.18/14.90	11.18/14.90	78/90	80/90	100/100
	BAYHTRN310F	208/240	3	7.47/9.96	25500/34000	2	3.74/4.98	3.74/4.98	26/30	30/30	30/30

**NOTES:**

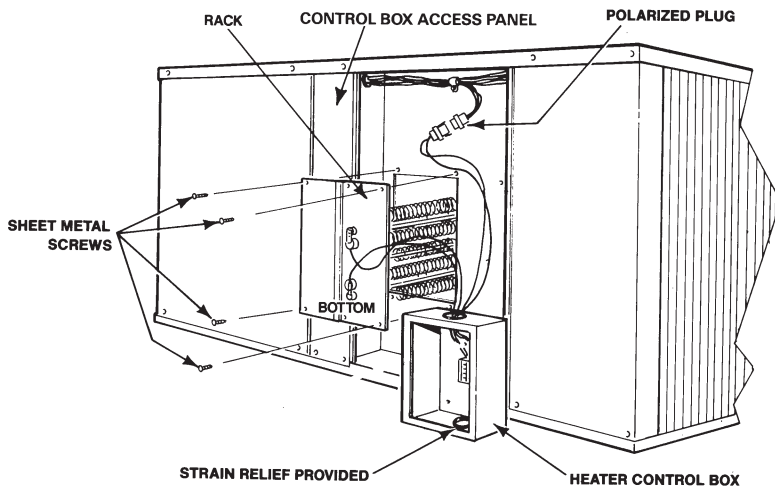
1. Any power supply and circuits must be wired and protected in accordance with local electrical codes.
2. The MCA values listed are for electric heater only.
3. Field wire must be rated at least 75°C.

4. The HACR circuit breaker is for U.S.A. installations only.
5. For Canada installation reference only.

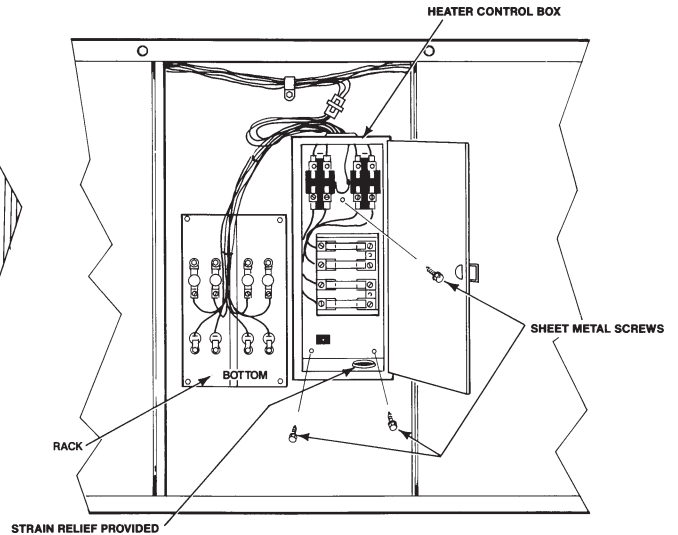
\*Heater uses fuses.

From Dwg. 21C729567  
Rev.10

**Typical Single Rack Heater**



**Typical Dual Rack Heater**



# Optional Equipment

## SINGLE CIRCUIT POWER AMPACITY AND OVER CURRENT PROTECTION

SINGLE POWER ENTRY KIT	HEATER MODEL	UNIT MODEL	MIN CKT AMP	MAX OVER-CURRENT DEVICE	SINGLE POWER ENTRY KIT	HEATER MODEL	UNIT MODEL	MIN CKT AMP	MAX OVER-CURRENT DEVICE	
BAYSPEK047A	BAYHTRN105A	WCZ036F1	52	60	BAYSPEK051A*	BAYHTRN310A BAYHTRN310F	WCZ060F3	62	70	
	BAYHTRN310A BAYHTRN310F	WCZ036F3	50	50		BAYHTRN315A	WCZ036F3	65	70	
BAYSPEK048A*	BAYHTRN115A	WCZ036F1	103	110		WCZ060F3	77	80		
BAYSPEK048A*	BAYHTRN117A	WCZ036F1	116	125		BAYHTRN320A	WCZ060F3	92	100	
BAYSPEK049A*	BAYHTRN108A	WCZ036F1	66	70		BAYSPEK052A*	BAYHTRN115	WCZ060F1	121	125
	BAYHTRN110A	WCZ036F1	78	80			BAYHTRN117A	WCZ060F1	134	150
	BAYHTRN112A	WCZ036F1	86	90	BAYHTRN123A		WCZ060F1	164	175	
BAYSPEK050A*	BAYHTRN330A	WCZ060F3	122	125	BAYSPEK053A*	BAYHTRN110A	WCZ060F1	96	110	
						BAYHTRN112A	WCZ060F1	104	110	

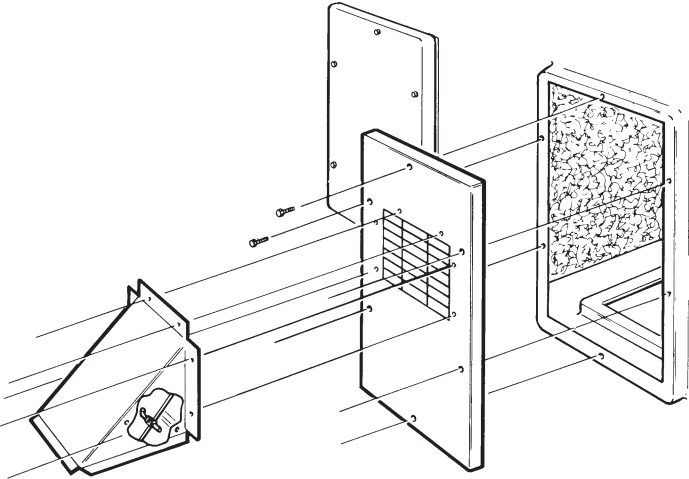
\*Single Circuit Power fuses are supplied if required for unit and/or heater.

From Dwg. 21C664109 Rev. 1

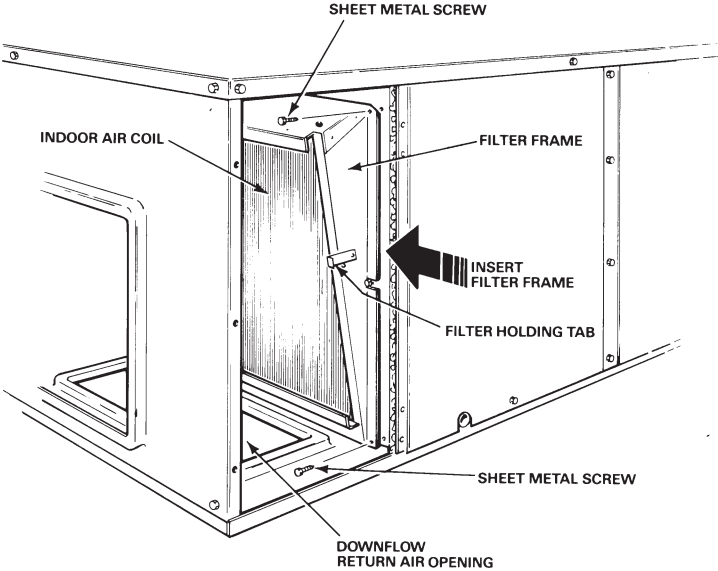
This table gives the wiring requirement if unit and electric heaters are operated from a single circuit using a "single power entry" kit.

# Optional Equipment

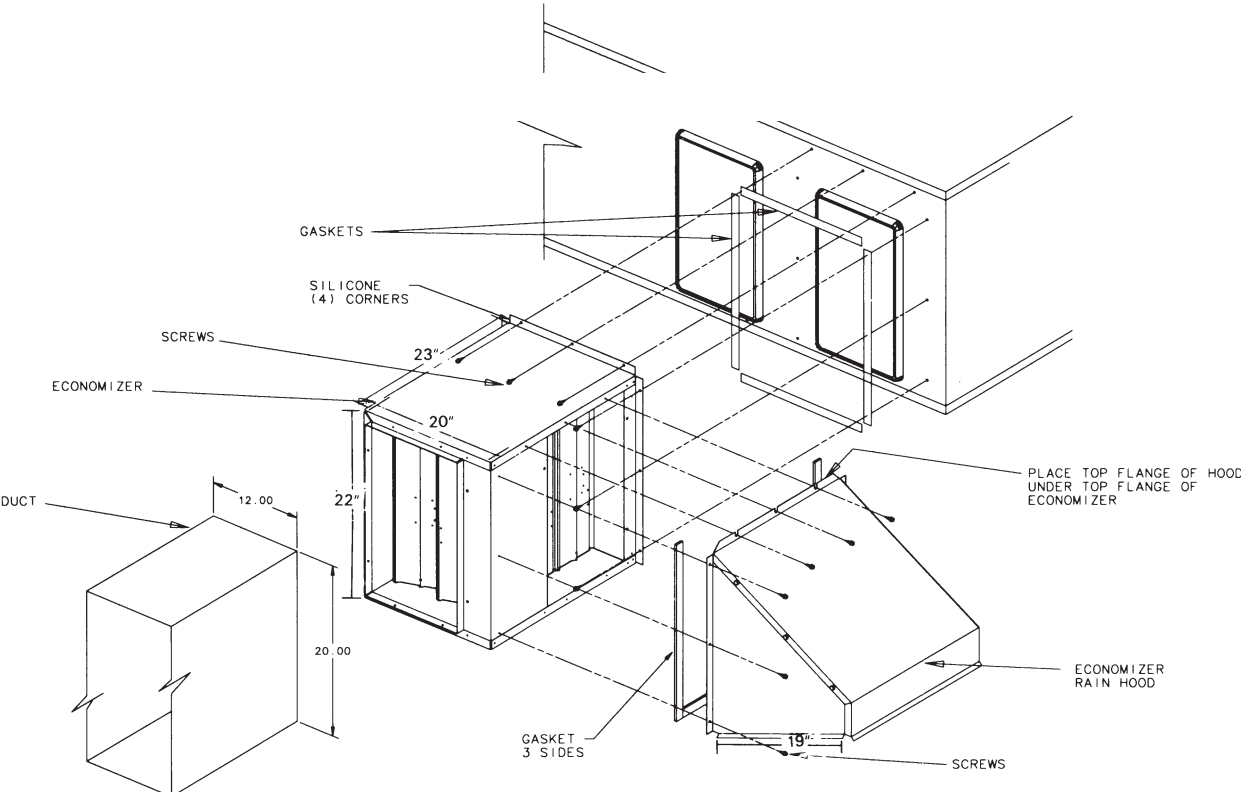
## 25% MANUAL FRESH AIR KIT



## FILTER FRAME KIT



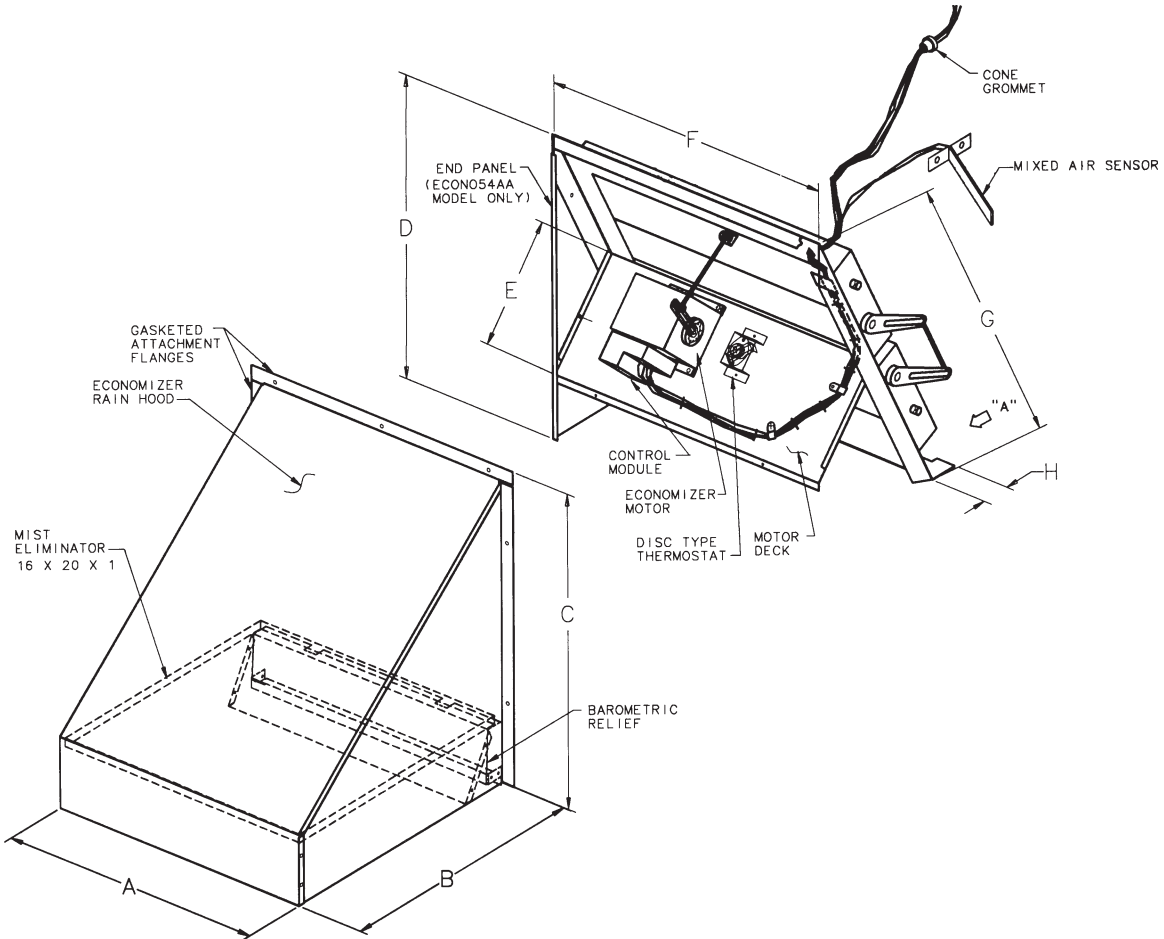
## HORIZONTAL ECONOMIZER AND RAIN HOOD



From Dwg. 21D662056 Rev. 0

# Optional Equipment

## Economizer and Rain Hood (Downflow Applications)



ECONOMIZER MODEL	APPLICATION MODELS	A	B	C	D	E	F	G	H
BAYECON054B	WCZ036F	20	16-5/8	23-1/2	22-9/16	8-5/8	22-1/4	25-1/8	1-1/2
BAYECON055B	WCZ060F	20	21	26	OMIT	12-1/8	26-1/8	32-1/8	1-3/4

### ECONOMIZER PRESSURE DROP (RETURN AIR RESTRICTION 0% OUTDOOR AIR)

AIRFLOW (CFM)	BAYECON054B (IN H <sub>2</sub> O)	BAYECON055B (IN H <sub>2</sub> O)	BAYECON073A (IN H <sub>2</sub> O)
600	.010	—	.010
800	.020	—	.015
1000	.050	—	.020
1200	.090	.040	.025
1400	.140	.050	.030
1600	—	.075	.035
1800	—	.100	.045
2000	—	.130	.055
2200	—	.150	.074
2400	—	.190	.100

From Dwg. 21A730983 Rev. 1

# Controls

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## Field Installed Control Options

**Thermostats** — Two stages heating/cooling or one stage heating/cooling thermostats are available in either manual or automatic changeover.

**Programmable Electronic Night Setback Thermostat** — Heating setback and cooling setup with 7-day, 5-1-1 programming capability. Available in 2 heating/cooling or 1 heating/cooling versions with automatic changeover.

**Economizer Controls** — The standard equipment offering is a fixed dry bulb changeover control. In addition to the standard offering, there are two other field installed control accessories.

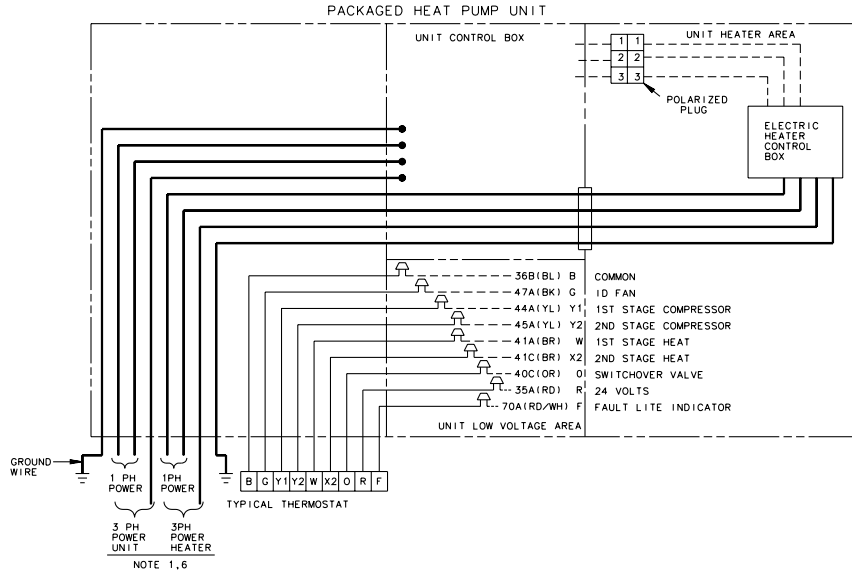
**Enthalpy Control** — Replaces the dry bulb control with a solid state dry bulb and wet bulb changeover controller which has a fully adjustable set point. Enthalpy control offers a higher level of energy savings potential than the stan-

dard dry bulb control due to the additional wet bulb sensing capability.

**Differential Enthalpy** — Replaces the standard dry bulb control with two enthalpy sensors that compare total heat content of the indoor air and outdoor air to determine the most efficient entering air source. This control option offers the highest level of energy efficiency available.

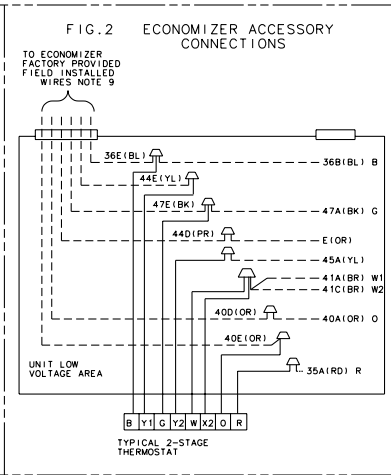
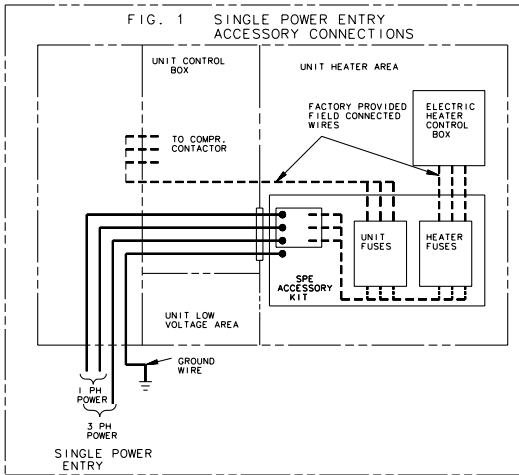
# Typical Field Wiring

## Field Wiring for WCZ-F Heat Pump Models



**NOTES:**

1. FUSED DISCONNECT SIZE, POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH CODES.
2. BE SURE POWER SUPPLY AGREES WITH EQUIPMENT AND HEATER NAMEPLATE.
3. LOW VOLTAGE WIRING TO BE 18 AWG MINIMUM CONDUCTOR.
4. SEE HEATER NAMEPLATE FOR CURRENT RATING OF HEATER USED.
5. SEE UNIT AND HEATER DIAGRAM FOR ELECTRICAL CONNECTION DETAILS.
6. IF ELECTRIC HEATER ACCESSORY IS NOT INSTALLED OMIT THE ELECTRIC HEATER, ASSOCIATED POWER WIRES AND THE 'W' AND 'X2' THERMOSTAT WIRES.
7. FIG. 3 DEMONSTRATES CONNECTION OF THE OUTDOOR THERMOSTAT ACCESSORY ONLY. FOR FURTHER UNIT CONNECTION DETAILS REFER TO THE OTHER FIGURES.
8. THE 41A(BR) WIRE IS FIRST STAGE ELECTRIC HEAT. IF THE ELECTRIC HEATER ACCESSORY HAS TWO HEATING STAGES THE 41C(BR) WIRE IS SECOND STAGE ELECTRIC HEAT.
9. WHEN THE BAYECON054A OR -055A ECONOMIZER IS INSTALLED THE BAYRLAY003 RELAY ACCESSORY KIT IS REQUIRED TO INTERFACE THE ECONOMIZER TO THE HEAT-PUMP FOR PROPER SYSTEM OPERATION. WHEN THE BAYECON054B OR -055B OR 073A ECONOMIZER IS INSTALLED, THE BAYRLAY004A RELAY ACCESSORY KIT IS REQUIRED TO INTERFACE THE ECONOMIZER TO THE HEAT-PUMP FOR PROPER SYSTEM OPERATION.
10. THE BAYSTAT033A OUTDOOR THERMOSTAT ACCESSORY KIT CONTAINS A THERMOSTAT AND A RELAY. THE RELAY IS NOT REQUIRED TO BE USED IN THIS APPLICATION.

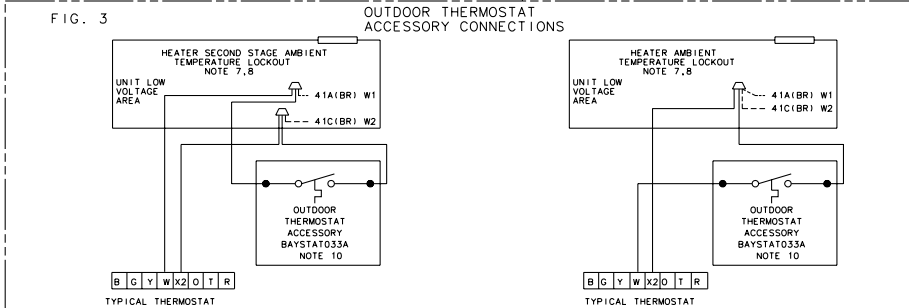


**INTER-COMPONENT WIRING**

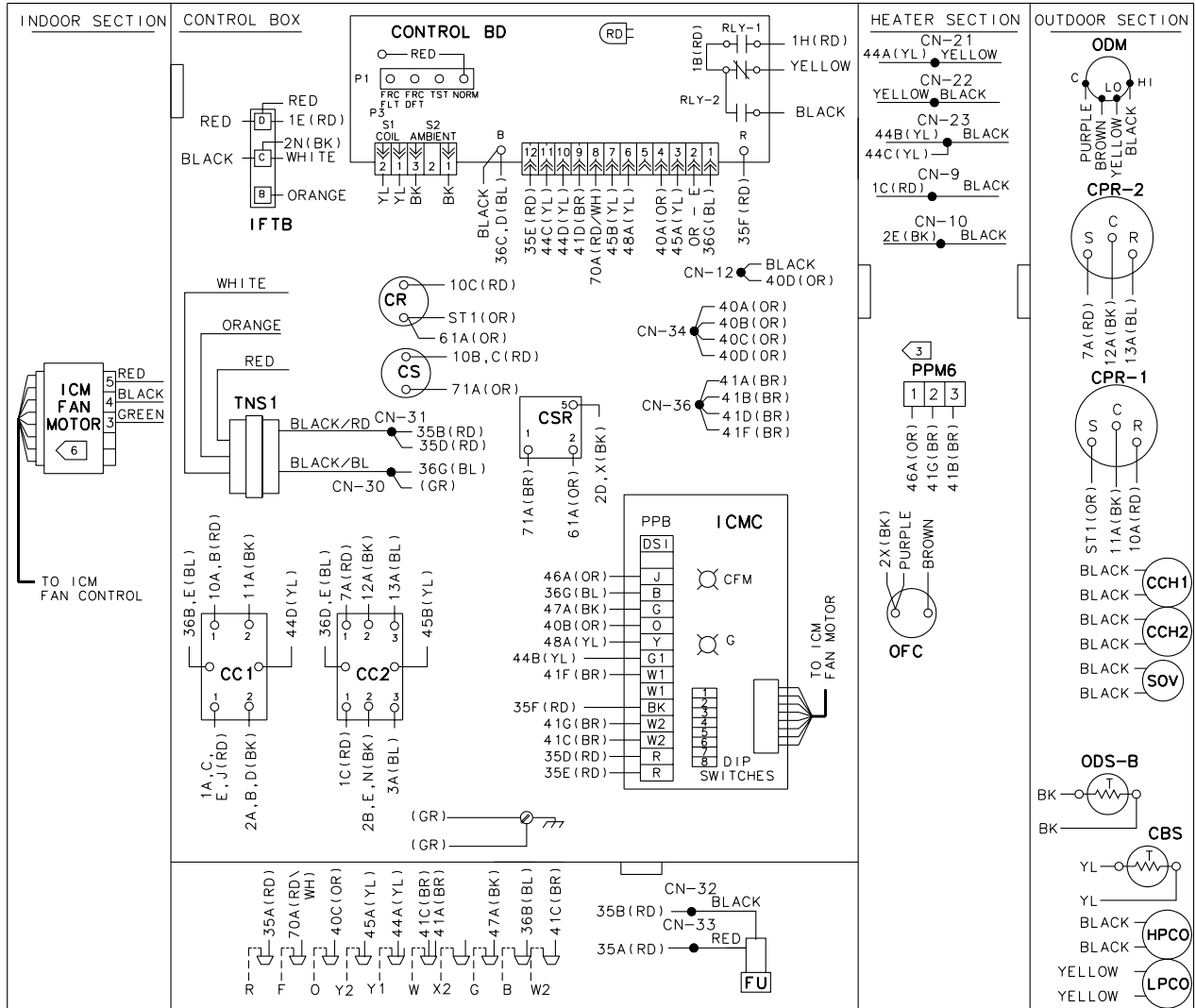
---	24V. LINE V.	FACTORY WIRING
---	24V. LINE V.	FIELD WIRING

**WIRE COLOR DESIGNATION**

ABBR	COLOR	ABBR	COLOR
BK	BLACK	PR	PURPLE
BL	BLUE	RD	RED
BR	BROWN	WH	WHITE
GR	GREEN	YL	YELLOW
OR	ORANGE		



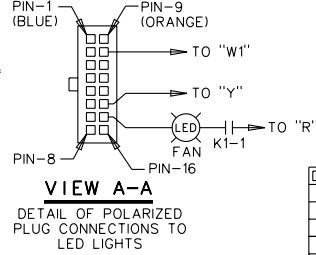
# Typical Wiring



ICMC DIP SWITCH SETTINGS

DIP SWITCH SETTINGS				NOMINAL AIRFLOW		
SW 1	SW 2	SW 3	SW 4	COOLING/ HEAT PUMP CFM	AIRFLOW WCZ036F3	AIRFLOW WCZ060F3
OFF	OFF	OFF	ON	350 CFM/TON	1050 CFM	1750 CFM
OFF	OFF	OFF	OFF	400 CFM/TON	1200 CFM	2000 CFM
OFF	OFF	ON	OFF	450 CFM/TON	1350 CFM	2250 CFM
FAN OFF-DELAY OPTIONS						
SW 5	SW 6					
OFF	OFF			NONE	NOMINAL **	
ON	OFF			90 SECONDS	100 % NOMINAL	
OFF	ON			180 SECONDS	50 % NOMINAL	
ON	ON			ENHANCED	ENHANCED	
ELECTRIC HEAT AIRFLOW						
SW 7	SW 8					
OFF	OFF			HIGH	1350 CFM	2250 CFM
ON	OFF			NOMINAL	1200 CFM	2000 CFM

\*\* FACTORY SETTING.  
AT CONTINUOUS FAN SETTING ("G" ONLY) AIRFLOW VALUES ARE APPROXIMATELY 50% OF LISTED VALUE.  
THE HEAT PUMP FAN OFF-DELAY IS THE SAME AS THE COOLING MODE.



ABBR	COLOR	ABBR	COLOR
BK	BLACK	PR	PURPLE
BL	BLUE	RD	RED
BR	BROWN	WH	WHITE
GR	GREEN	YL	YELLOW
OR	ORANGE		

DEVICE	DESCRIPTION	LINE
AH, BH	CONTACTOR ELECTRIC HEAT	43, 44
CBS	COIL BOTTOM SENSOR	32
CC1	COMPRESSOR CONTACTOR COIL	37
CCH	CRANKCASE HEATER	21
OFC	OUTDOOR FAN CAPACITOR	21
CN	CONNECTOR OR WIRE NUT	
CPR	COMPRESSOR	11, 15
CR	COMPRESSOR RUN CAPACITOR	16
CS	COMPRESSOR START CAPACITOR	7
CSR	COMPRESSOR START RELAY COIL	7
CO-BD	CONTROL BOARD	19, 32-40
CC2	COMPRESSOR CONTACTOR COIL	38
LPCO	LOW PRESSURE CUT-OUT	36
1FTB	FAN TERMINAL BLOCK	24-26
FU	FUSE	30
ICMC	INTEGRATED COMMUTATED MOTOR CONTROL	46-55
ICM	INTEGRATED COMMUTATED MOTOR	25
HPCO	HIGH PRESSURE CUT-OUT	36
IOL	INTERNAL OVERLOAD	
ODM	OUTDOOR FAN MOTOR	20
ODS	OUTDOOR AMBIENT SENSOR	35
PP-	POLARIZED PLUG	
PPM6	HEATER PLUG (FEMALE)	43, 44
SOV	SWITCHOVER VALVE	31
TNS1	CONTROL POWER TRANSFORMER	29

NOTES:

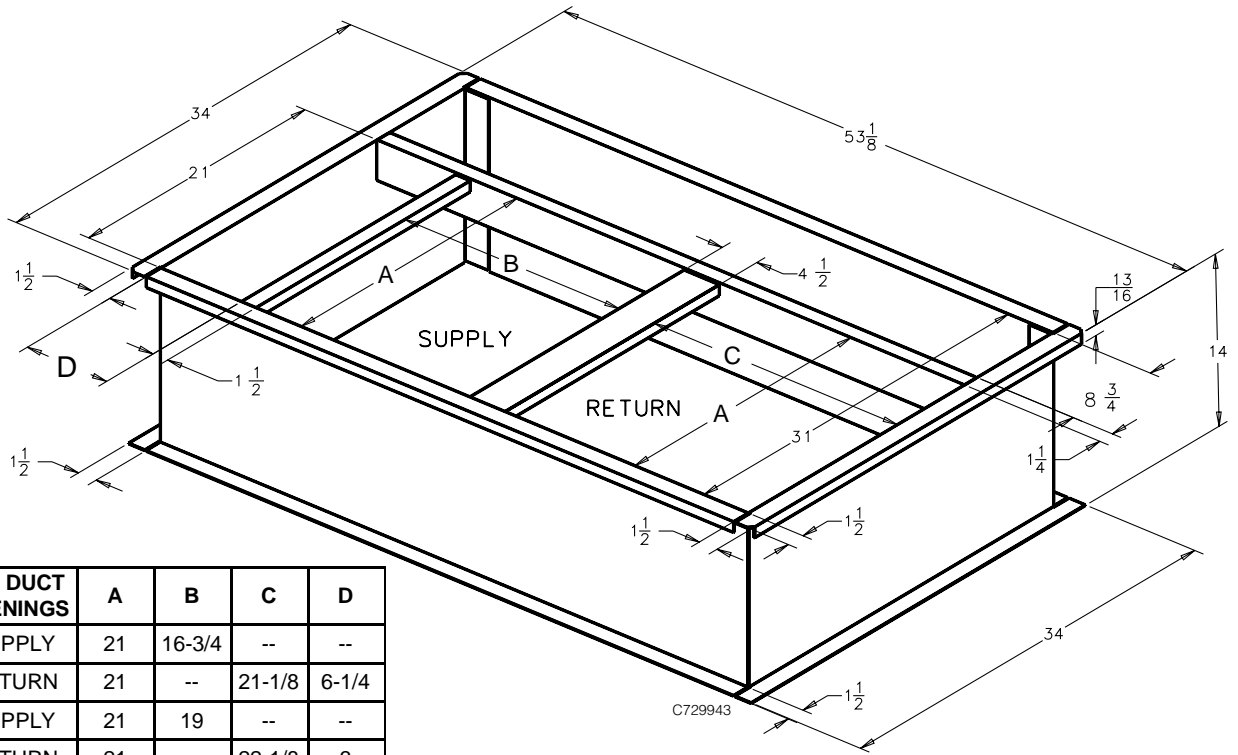
- CONNECTIONS SHOWN ARE FOR A TYPICAL THERMOSTAT. SEE SCHEMATIC SUPPLIED WITH THERMOSTAT FOR PROPER CONNECTIONS. LOW VOLTAGE WIRING TO UNIT MAY BE NEC CLASS 2 AND MUST BE A MIN. OF 18 A.W.G.
- MAXIMUM ADDITIONAL EXTERNAL LOAD (PILOT DUTY) BETWEEN "B" AND "R" OF 0.5 AMPS, 24 VAC IS AVAILABLE WHEN A HEATER IS INSTALLED.
- SEE WIRING DIAGRAM WITH HEATER FOR DETAILS OF HEATER WIRING.
- FOR 208 VOLT OPERATION MAKE THE FOLLOWING WIRING CHANGES:  
A: AT IFTB-D MOVE RED WIRE AND CONNECT TO ORANGE WIRE FROM TNS1. THE RED WIRE MUST BE RECONNECTED AT IFTB-C TO AVOID ACCIDENTALLY SHORTING.
- IF ANY OF THE ORIGINAL WIRE AS SUPPLIED IN THIS UNIT MUST BE REPLACED REPLACE IT WITH APPLIANCE WIRING MATERIAL RATED AT 105° C.
- THE ICM MOTOR HAS INTERNAL THERMAL PROTECTION.
- IF OD THERMOSTAT IS NOT USE CONNECT 41A(BR) TO 41C(BR) AND WHEN OD THERMOSTAT IS USED CONNECT AS SHOWN TO 41A(BR) AND 41C(BR) ON ROOM THERMOSTAT.

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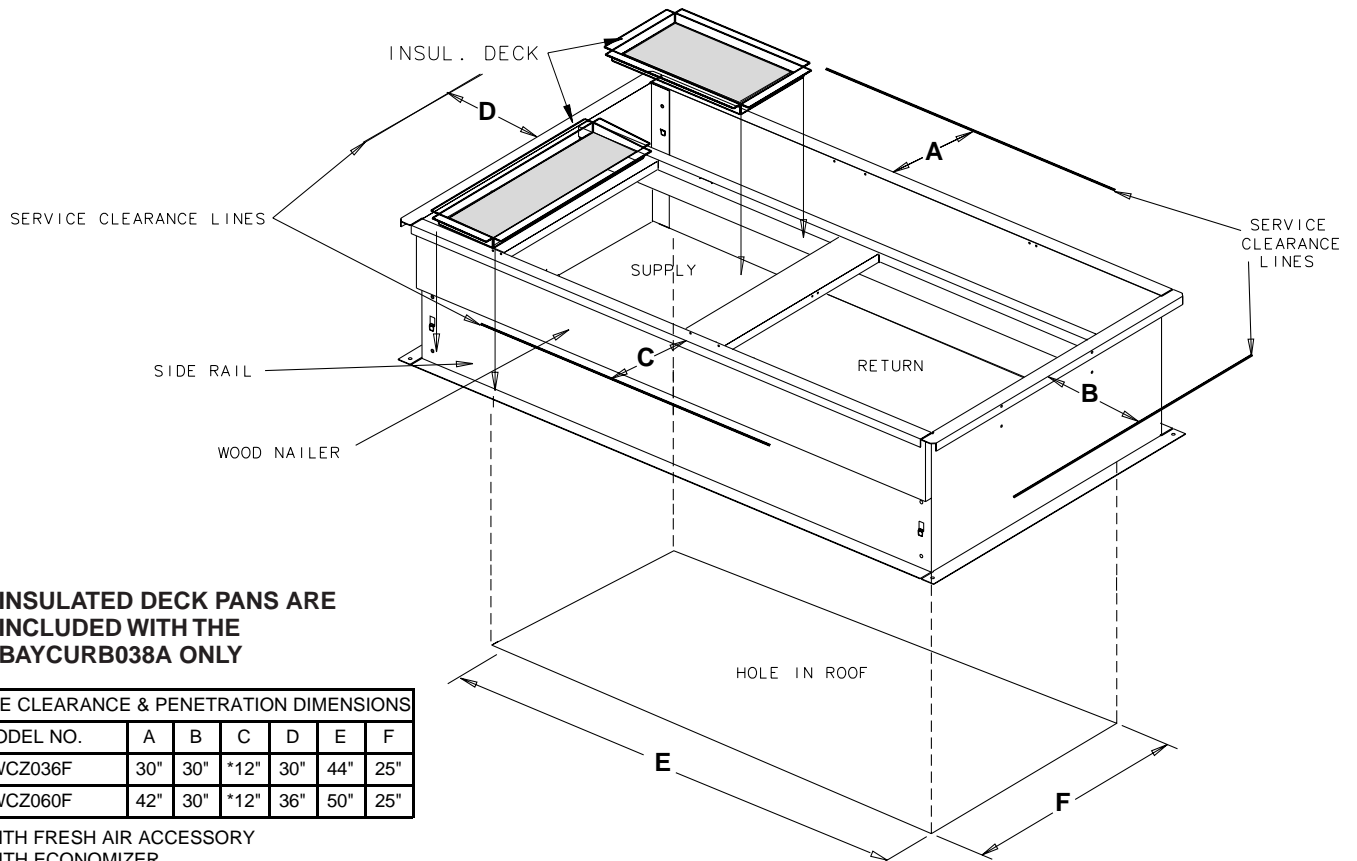
# Dimensional Data

## BAYCURB030A,038A ROOF MOUNTING CURB OUTLINE WCZ 036,060F--UNITS



MODEL NO.	AIR DUCT OPENINGS	A	B	C	D
WCZ036F	SUPPLY	21	16-3/4	--	--
	RETURN	21	--	21-1/8	6-1/4
WCZ060F	SUPPLY	21	19	--	--
	RETURN	21	--	22-1/8	3

### REQUIRED CLEARANCE FOR UNIT INSTALLATION AND ROOF PENETRATION HOLE SIZE REQUIRED



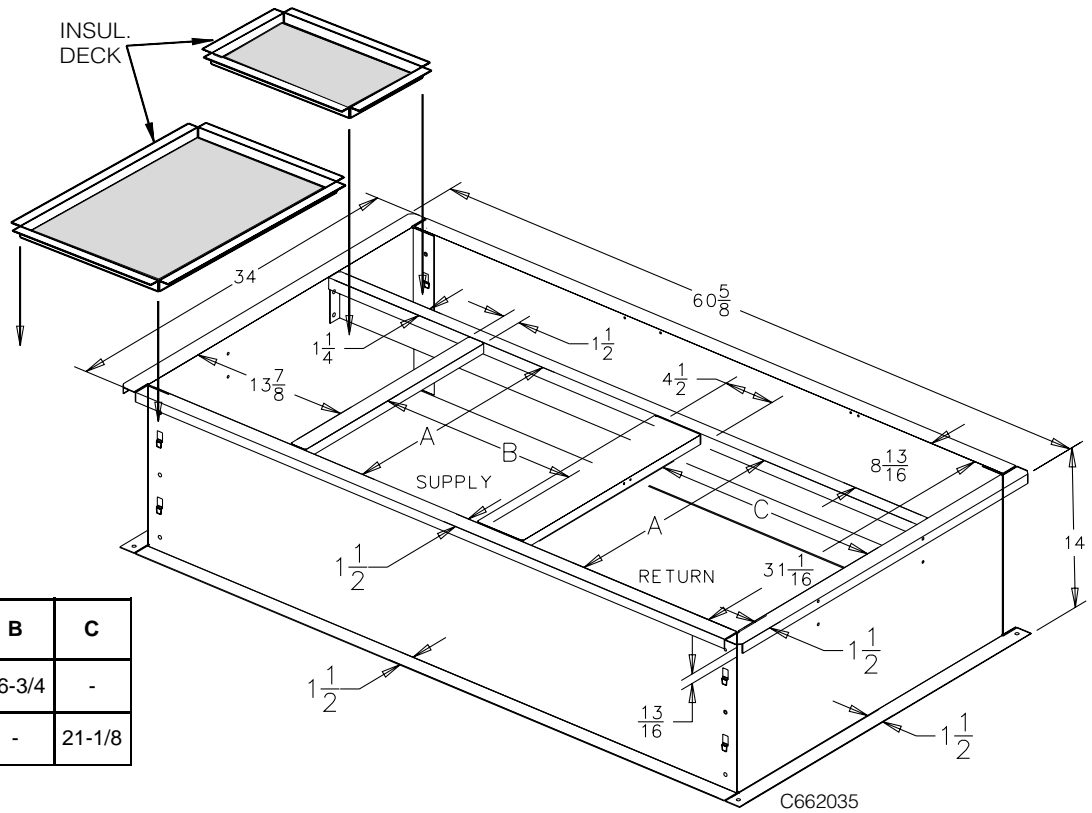
**INSULATED DECK PANS ARE INCLUDED WITH THE BAYCURB038A ONLY**

SERVICE CLEARANCE & PENETRATION DIMENSIONS						
MODEL NO.	A	B	C	D	E	F
WCZ036F	30"	30"	*12"	30"	44"	25"
WCZ060F	42"	30"	*12"	36"	50"	25"

\* 18" WITH FRESH AIR ACCESSORY  
\* 30" WITH ECONOMIZER

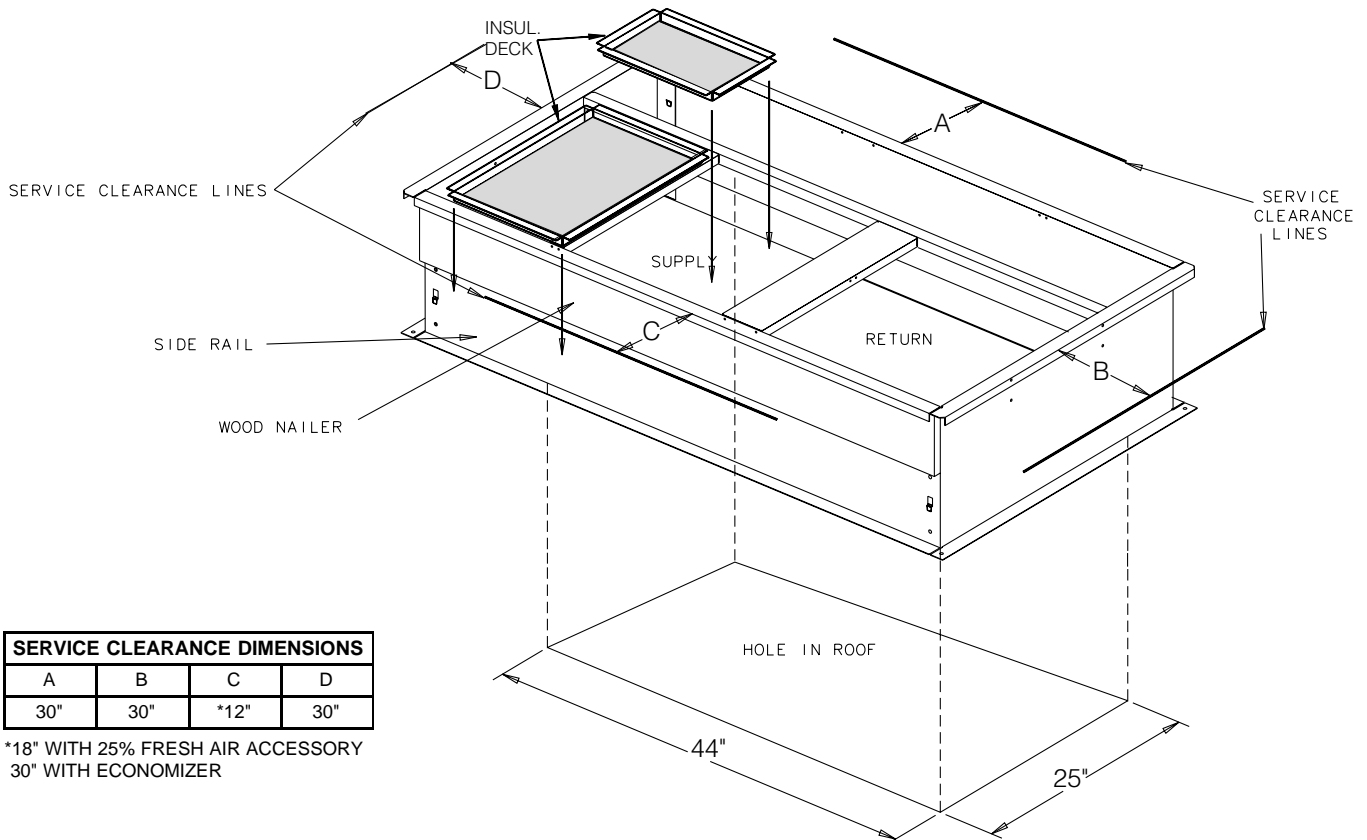
# Dimensional Data

## BAYCURB033A ROOF MOUNTING CURB OUTLINE WCZ036F--UNIT



AIR DUCT OPENINGS	A	B	C
SUPPLY DUCT	21	16-3/4	-
RETURN DUCT	21	-	21-1/8

## REQUIRED CLEARANCE FOR UNIT INSTALLATION AND ROOF PENETRATION HOLE SIZE REQUIRED

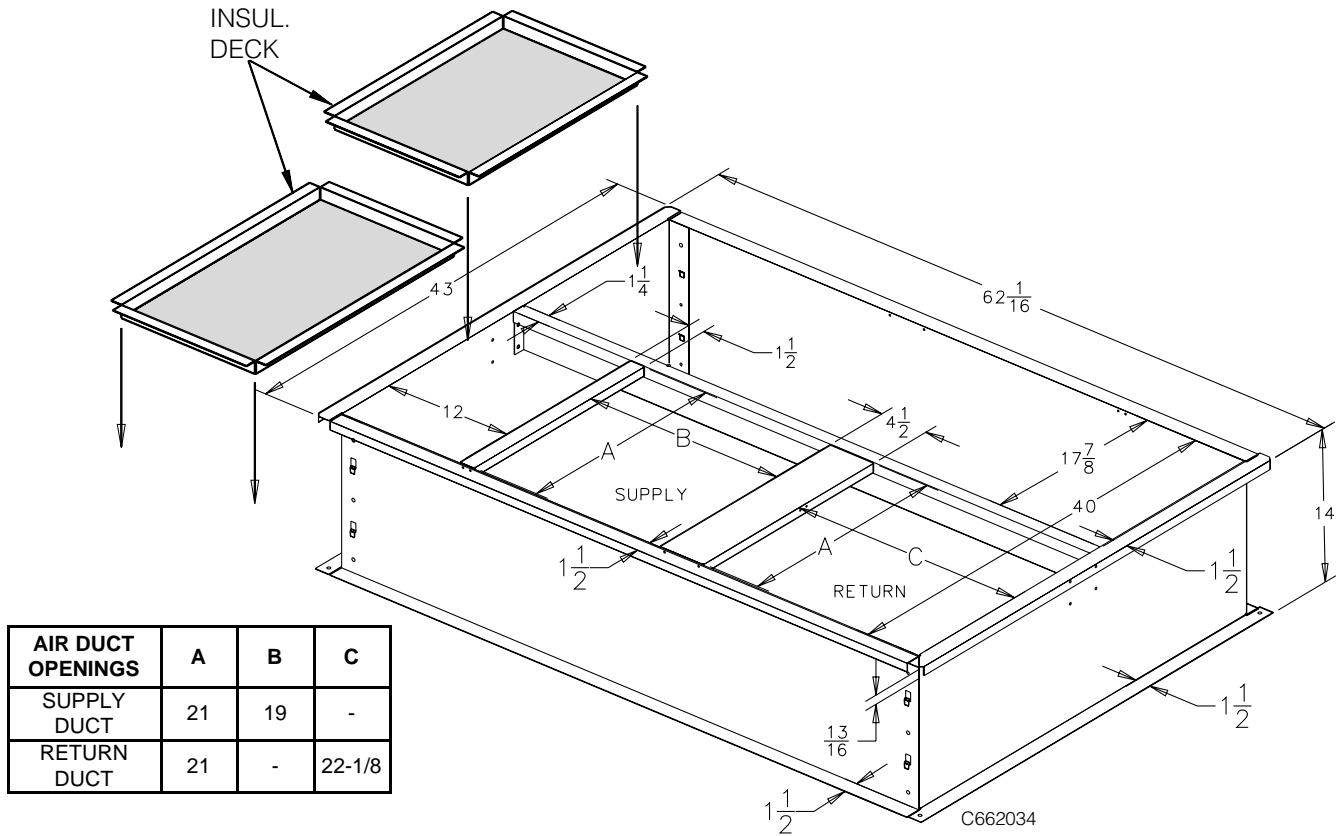


SERVICE CLEARANCE DIMENSIONS			
A	B	C	D
30"	30"	*12"	30"

\*18" WITH 25% FRESH AIR ACCESSORY  
30" WITH ECONOMIZER

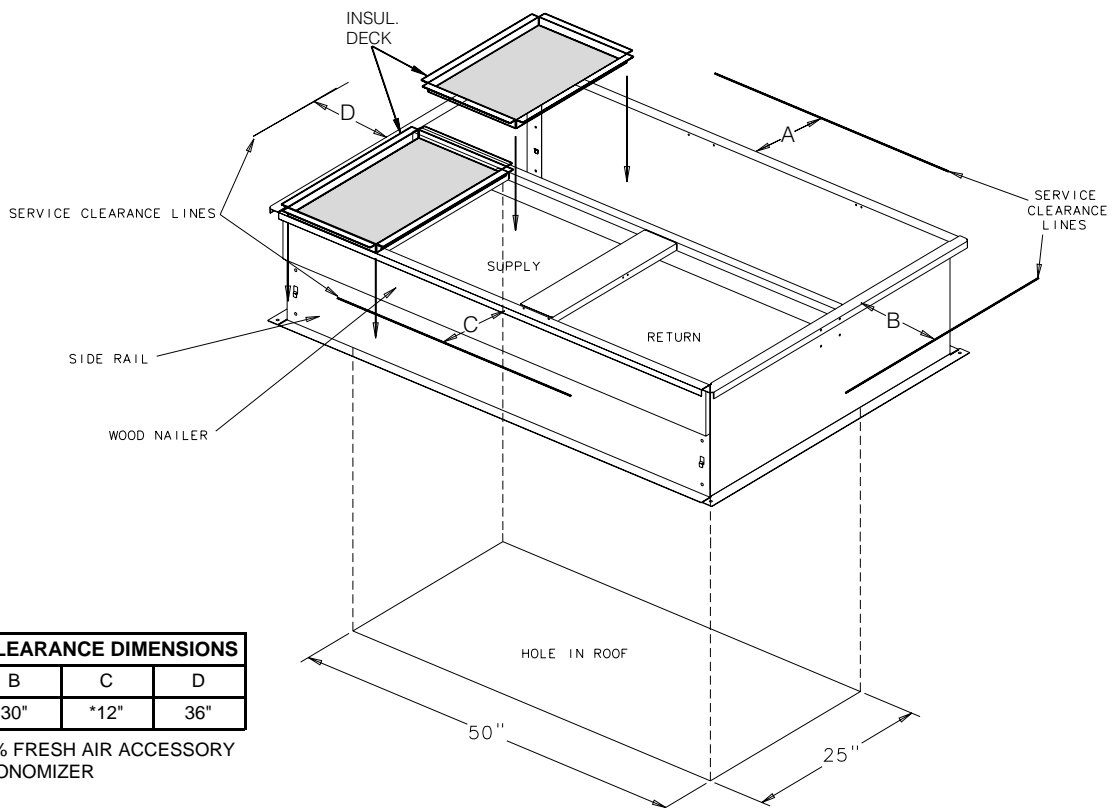
# Dimensional Data

## BAYCURB034A ROOF MOUNTING CURB OUTLINE WCZ060F--UNIT



AIR DUCT OPENINGS	A	B	C
SUPPLY DUCT	21	19	-
RETURN DUCT	21	-	22-1/8

## REQUIRED CLEARANCE FOR UNIT INSTALLATION AND ROOF PENETRATION HOLE SIZE REQUIRED

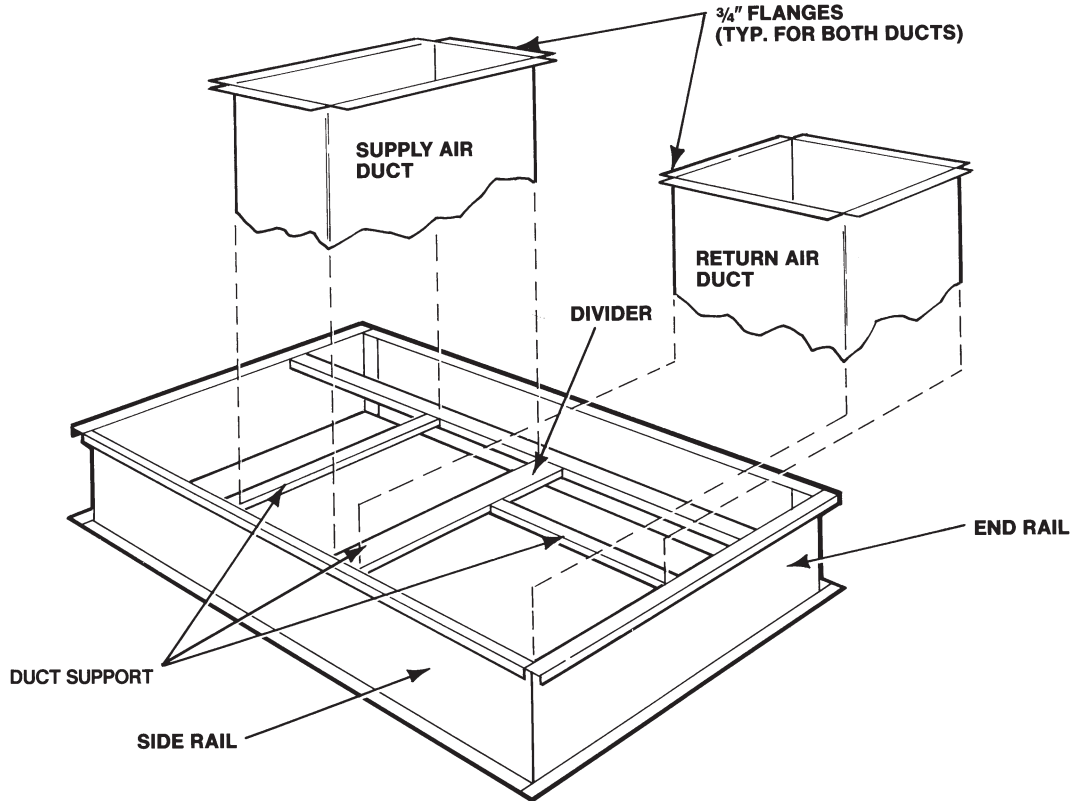


SERVICE CLEARANCE DIMENSIONS			
A	B	C	D
42"	30"	*12"	36"

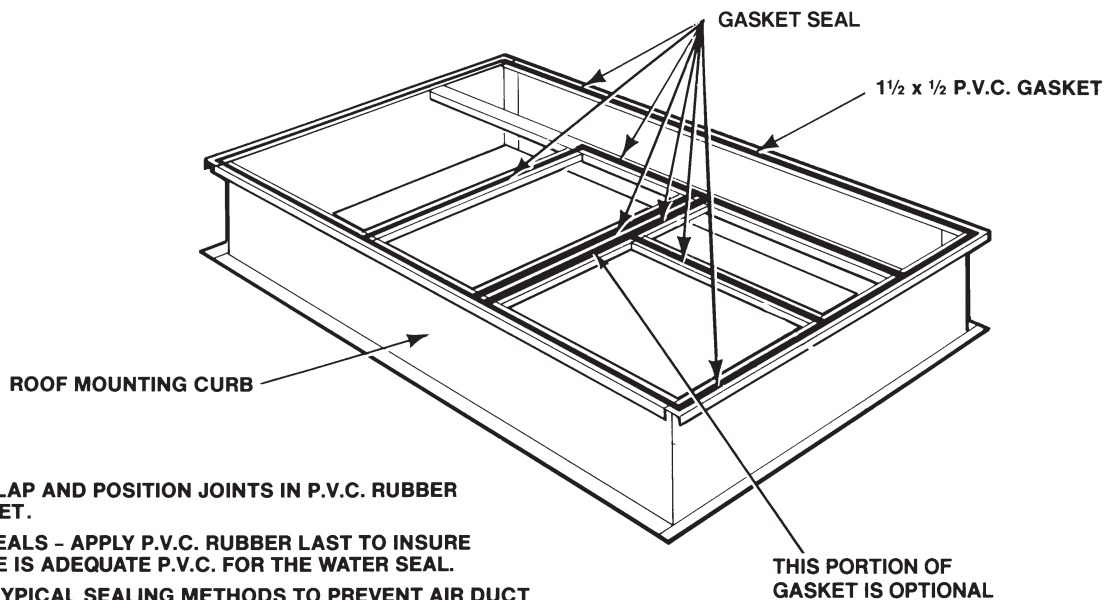
\*18" WITH 25% FRESH AIR ACCESSORY  
30" WITH ECONOMIZER

# Dimensional Data

## Field Fabricated (Side X Side) Ducts — WCZ036,060F Units Installed from Above Mounting Curb



## P.V.C. Rubber Gasket Position on BAYCURB030A for Unit Placement - WCZ036,060F Units



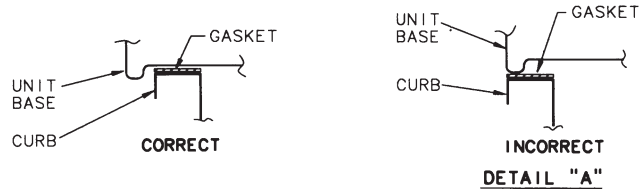
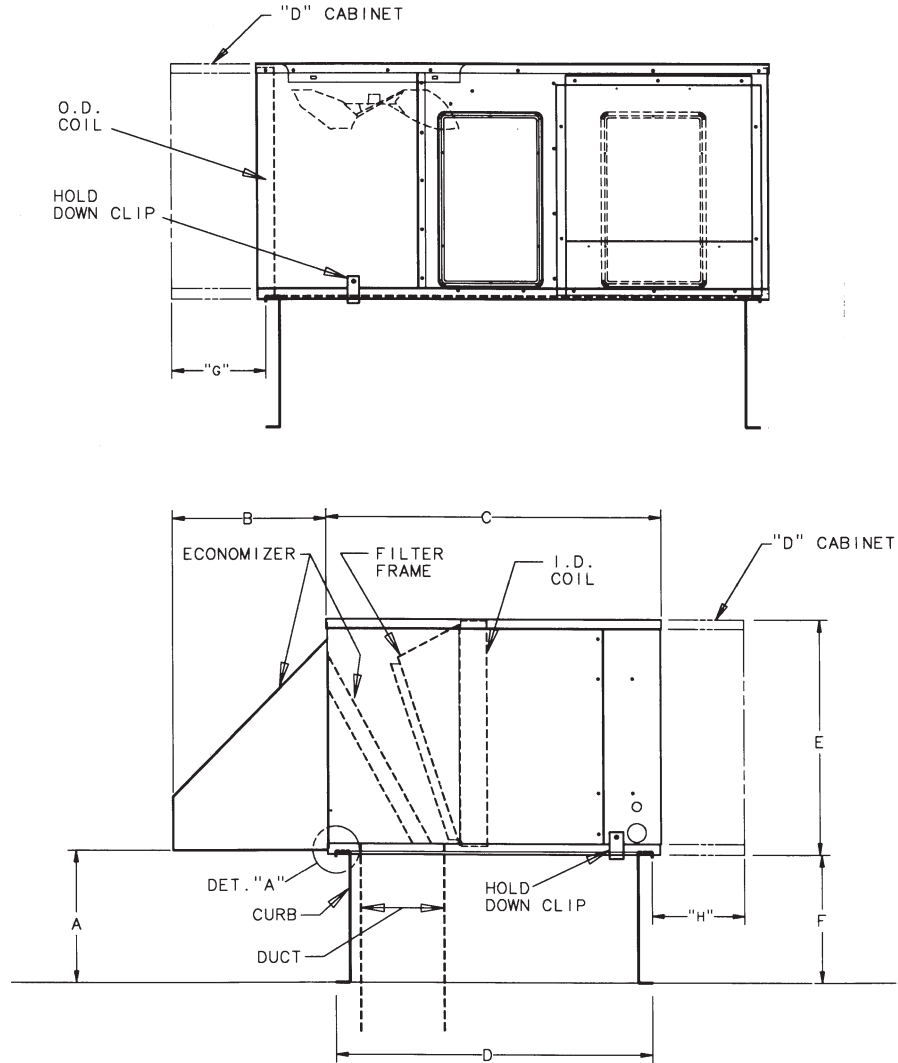
### NOTES:

1. OVERLAP AND POSITION JOINTS IN P.V.C. RUBBER GASKET.
2. AIR SEALS - APPLY P.V.C. RUBBER LAST TO INSURE THERE IS ADEQUATE P.V.C. FOR THE WATER SEAL.
3. USE TYPICAL SEALING METHODS TO PREVENT AIR DUCT LEAKAGE AT CURB-DUCT JOINT.

# Dimensional Data

## WCZ036,060F OUTLINE — FRONT

(ALL DIMENSIONS ARE IN INCHES)

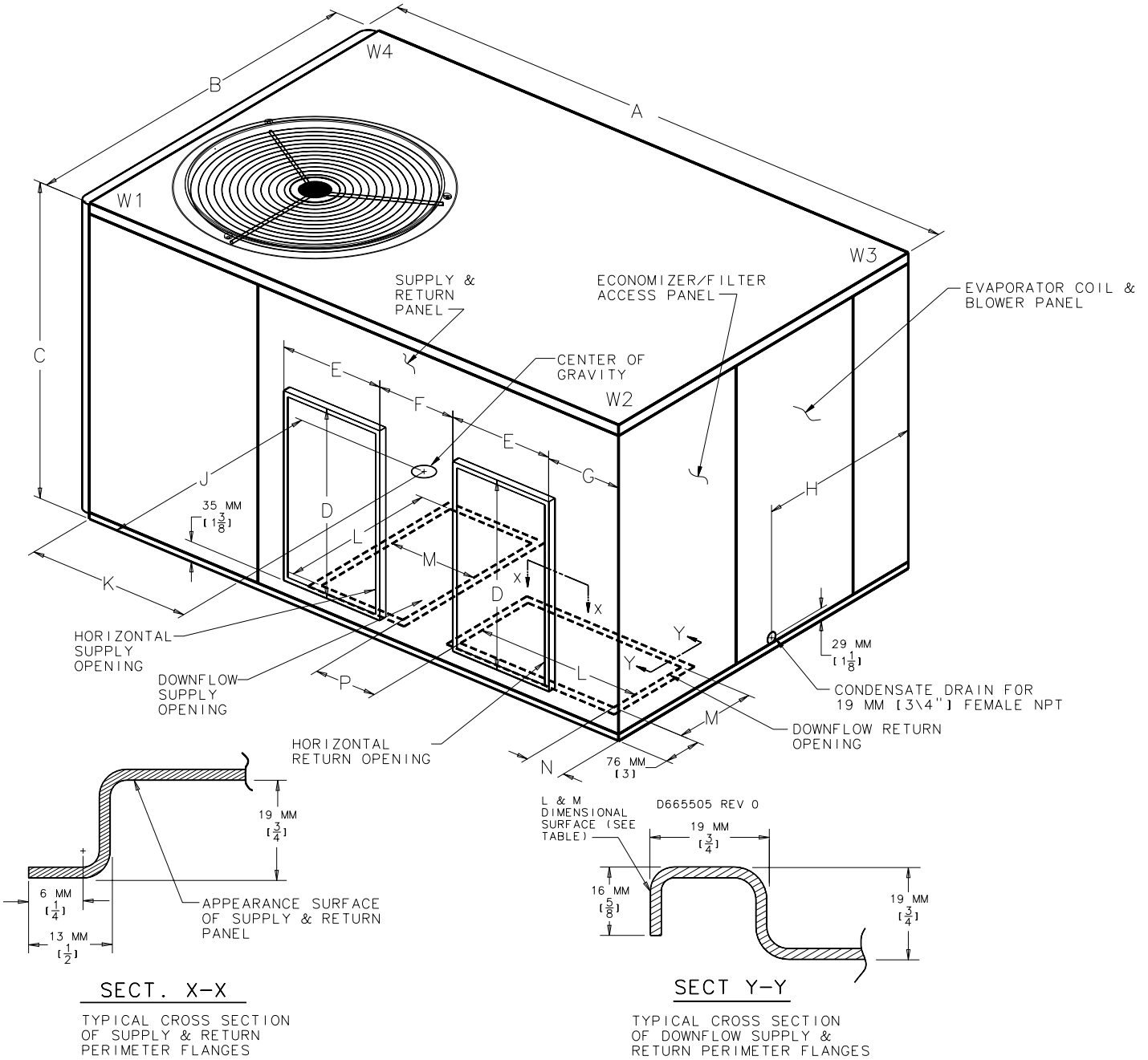


CABINET SIZE	MODEL	BAYCURB	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
"C"	WCZ036	030,38A	14-1/8	16-5/8	36	34	25-3/16	13-3/4	—	—
"C"	WCZ036	033A	14-1/8	16-5/8	36	34	29-3/16	13-3/4	—	—
"D"	WCZ060	030,38A	14-13/16	21	45	34	33-3/8	13-3/4	10-1/8	9-7/8
"D"	WCZ060	034A	14-13/16	21	45	43	33-3/8	13-3/4	—	—

From Dwg. 21D661772 Rev. 2

# Dimensional Data

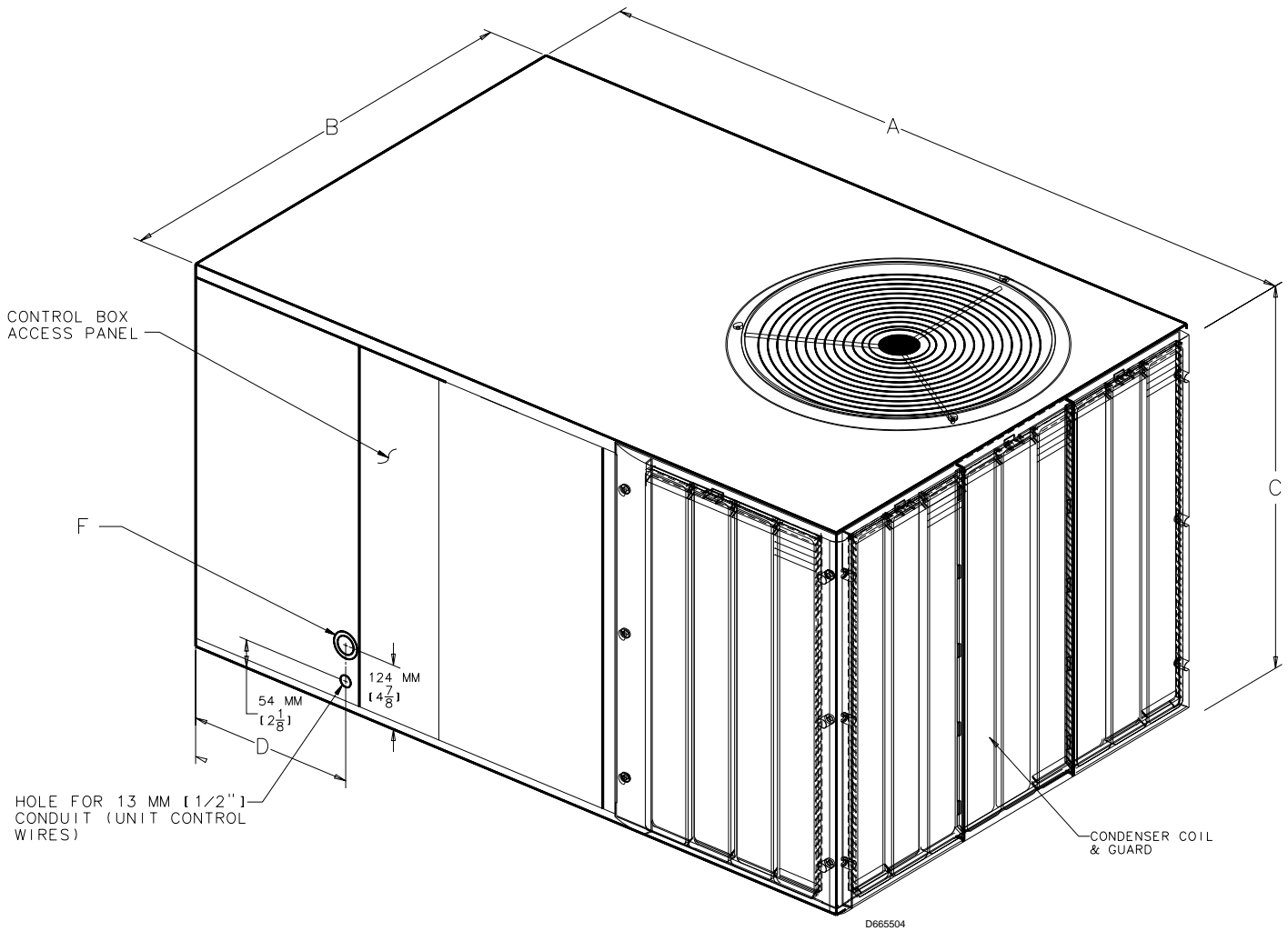
## WCZ036,060F OUTLINE — BACK



MODEL	CORNER WEIGHT (Kg/LBS)				NET UNIT WEIGHT (Kg/LBS)	A	B	C	D	E	F	G	H	J	K	L	M	N	P
	W1	W2	W3	W4															
WCZ036F	67.6 [149]	43 [95]	42.2 [93]	65.7 [145]	218.4 [482]	1626	914 [36]	741 [29 3/16]	471 [18 9/16]	281 [11 1/16]	167 [6 9/16]	283 [11 1/8]	432 [17]	470 [18 1/2]	635 [25]	444 [17 1/2]	254 [10]	76 [3]	222 [8 3/4]
WCZ060F	85 [187]	54 [120]	53 [117]	83 [183]	275 [607]	1654	1143 [45]	848 [33 3/8]	535 [21 1/16]	383 [15 1/16]	125 [4 15/16]	232 [9 1/8]	557 [21 15/16]	565 [22 1/4]	635 [25]	508 [20]	356 [14]	89 [3 1/2]	211 [8 5/16]

# Dimensional Data

## WCZ036,060F OUTLINE — FRONT



RECOMMENDED SERVICE CLEARANCE	
BACK	* 152 MM [6.0"]
LEFT SIDE	762 MM [30.0"]
RIGHT SIDE	610 MM [24.0"]
FRONT SIDE	762 MM [30.0"]

\*457 MM [18"] WITH FRESH AIR ACCESSORY

\*762 MM [30"] WITH ECONOMIZER

MODEL	A	B	C	D	F
WCZ036F	1626 [64]	914 [36]	741 [29-3/16]	368 [14-1/2]	KNOCKOUTS FOR 19 MM [3/4"] AND 32MM [1-1/4"] CONDUIT
WCZ060F	1654 [65-1/8]	1143 [45]	854 [33-3/8]	376 [14-13/16]	KNOCKOUTS FOR 19MM [3/4"] AND 38MM [1-1/2"] CONDUIT

# Mechanical Specifications

## General

The units shall be horizontal airflow as shipped and convertible to downflow. All units shall be factory assembled, piped, internally wired and fully charged with R-22. Units shall be UL listed and carry a UL label. All units shall be factory run tested to check cooling operation, fan and blower rotation and control or TXV sequence. Units shall be designed to operate at ambient temperatures between 115°F and 55°F in cooling as manufactured. Cooling performance shall be rated in accordance with ARI standards.

## Unit Casing

All components shall be mounted in a weather-resistant steel cabinet with an enamel finish. Access panels shall be provided for unit controls and indoor coil and fans. Indoor air section compartment shall be completely insulated with fireproof, permanent, odorless glass fiber material. Knockouts shall be provided for utility and control connections. Drain connections shall be provided to accommodate indoor water runoff.

## Compressors

The compressors shall be hermetically sealed, high efficiency Climatuff® compressors. Internal overcurrent and over temperature protection, internal pressure relief shall be standard. Crankcase heaters shall be standard on all models.

## Refrigeration System

All units shall have TXV in cooling and TXV in heating. Service pressure tap ports, and a refrigerant line filter dryer shall be standard.

## Indoor and Outdoor Coils

Coils shall be internally finned or smooth bore 3/8" copper tubes mechanically bonded to configured aluminum plate fin as standard. Evaporator

coil leak and pressure tested to 200 psig; condenser coil tested to 450 psig.

## Indoor Fan

The indoor fan shall be a forward curved, centrifugal-type fan with a multiple-speed, direct drive motor. Motor is permanently lubricated and shall have built-in overload protection.

## Outdoor Fan

One, direct-drive, statically and dynamically balanced propeller fan shall be used in a draw-through vertical discharge configuration. Permanently lubricated weather proof motor shall have built-in thermal overload protection.

## System Controls

System controls include condenser fan, evaporator fan and compressor contactors.

## Accessories

**Roof Curb** — The roof curb shall be designed to mate with the unit and provide support and complete weathertight installation when properly installed. Adhesive back polyurethane sealing strips shall be provided to ensure an airtight seal between supply and return openings of the curb and unit. The roof curb design allows field fabricated ductwork to be connected directly to the curb. Curb ships knocked down for field assembly, and includes factory-installed wood nailer strips.

**Electric Heaters** — Each heater assembly shall include power supply fusing if over 48 amps, automatic resetting limit switches and heat limiters for thermal protection. Heaters shall be provided with polarized plugs for quick connection to unit low voltage wiring. Electric heat modules shall be UL listed.

**Single Source Power Entry** — This accessory when used with electric heat accessory shall allow single source

power connection to unit and heater combination. Single source power entry kits shall have specific matching heater(s). Kit shall include high voltage terminal blocks, fuse blocks and fuses, cut-to-length interconnecting wiring, and junction box (if required) to provide power sources with fuse protection as required for both the unit and accessory heater. Kit components shall install within the unit cabinet in the heater access section. Single source branch power circuit shall be protected and wired in accordance with local codes.

**Fully Modulating Economizer** — This accessory shall be field installed and be composed of the following items: 0-100% fresh air damper, damper drive motor, fixed dry bulb enthalpy control, and low voltage wiring plug for electrical connections. Solid state enthalpy or differential enthalpy control is optional. Economizer operations shall be controlled by the preset position of the enthalpy control. A barometric relief damper shall be standard with the economizer and provide a pressure operated damper that shall be gravity closing and prohibit entrance of outside air on equipment "off" cycle. Economizer requires BAYRLAY004A relay kit to interface the economizer to the heat pump.

**Manual Outside Air Dampers** — Rain hood and screen shall be field installed. Suitable for up to 25% outside air.

## Control Options

**Programmable Electronic Night Setback Thermostat** — Programmable electronic thermostat shall provide heating setback and cooling setup with 7-day programming capability. 1H/1C or 2H/2C models available.

Since The Trane Company has a policy of continuous product improvement, it reserves the right to change the specifications and design without notice.

Technical Literature - Printed in U.S.A.

## The Trane Company

Unitary Products Group  
6200 Troup Highway  
Tyler, TX 75707-9010

An American-Standard Company

Library	Product Literature
Product Section	Unitary
Product	Packaged Heat Pump Rooftop
Model	WCZ — 3,5 Tons
Literature Type	Data Catalog
Sequence	1
Date	September 1997
File No.	PL-UN-RT-WCZ-D-1 9/97
Supersedes	New