



**Marc Climatic Controls, Inc.**

**DUST-IGNITIONPROOF 60 HZ**

**Room Air Conditioners & Heat Pumps  
Class II, Division 1, Groups E, F, G**

Model RCBX24-21-E1 shown here, is typical of Marc room air conditioners and heat pumps for use in Class II, Division 1, Groups E, F, G hazardous (classified) locations. Typical installations include locations where sufficient quantities of combustible dust is in the air under normal operating conditions to produce explosive or ignitable mixtures; or where abnormal equipment operation or failure might cause such dust mixtures to be produced and such failure, or other sources, might cause a simultaneous source of ignition; or where electrically conductive combustible dust maybe present in hazardous quantities (Refer to NFPA 70, N.E.C., 500.5(C)(1) for additional information).

### **RCBX-E1 SERIES**



### **Features:**

- Spark-proof construction.
- Dust-Ignitionproof motor.
- Intrinsically safe thermostat and selector switch.
- Self-contained with integral controls reduces installation time and cost.
- 3/4" NPT conduit connection and terminals for easy power connection.
- Aluminum-finned copper tube coils provide maximum transfer.
- Fully insulated plenum chamber for quiet operation.
- Totally recirculating indoor air.
- Washable filter reduces inventory and maintenance costs.

### **Options:**

- Stainless steel cabinet.
- Corrosion coatings extend cabinet and coil life in harsh environments for reduced maintenance and increased long term cost savings.
- Tropicalization.
- Copper-finned copper tube coils.
- Thermostat with Fahrenheit or Celsius scales for easy adjustment to desired room temperature.
- Thermostat with auto-changeover heat-cool feature permits unattended year round comfort (for heat pump).
- Low volume fresh air intake and/or exhaust.

# ROOM AIR CONDITIONERS AND HEAT PUMPS RCBX-E1 & RHBX-E1 SERIES

**- 60 HZ -**

**DUST-IGNITIONPROOF**  
**CLASS II, DIVISION 1, GROUPS E,F,G**

OPERATING TEMPERATURE CODE

T3B - 329° F (165° C)

## ROOM AIR CONDITIONERS

Model	BTUH Cooling	Volts Phase Hertz	Amps	Fuse Size (1)	Field Wire Size (2)	CFM Air Delivery	Cabinet Size	Net Weight (lbs)
RCBX08-11-E1	8400	115-1-60	15.6	25	10	265	B	390
RCBX10-11-E1	10400	115-1-60	17.1	25	10	260	B	400
RCBX12-11-E1	11800	115-1-60	21.3	30	10	350	B	400
RCBX12-21-E1	12100/11900	230/208-1-60	10.7/10.5	20	12	320	B	400
RCBX14-11-E1	14000	115-1-60	22.0	35	8	375	B	410
RCBX16-21-E1	16200/15900	230/208-1-60	11.8/11.6	20	12	360	B	400
RCBX18-21-E1	17500/17300	230/208-1-60	14.0/13.5	20	12	375	C	445
RCBX20-21-E1	20600/20200	230/208-1-60	16.3/16.2	25	10	425	C	445
RCBX24-21-E1	23500/23000	230/208-1-60	16.8/16.5	30	10	400	C	445
RCBX28-21-E1	28000/27700	230/208-1-60	19.9/19.8	35	8	600	D	495
RCBX36-21-E1	36000/35700	230/208-1-60	23.1/22.8	40	8	725	D	515

## ROOM HEAT PUMPS

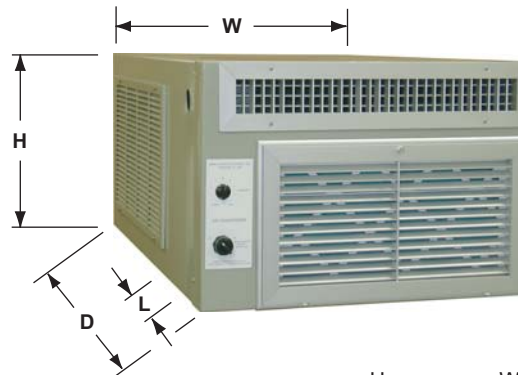
Model	BTUH Cool Heat (3)	Volts Phase Hertz	Amps Cool	Fuse Size (1)	Field Wire Size (2)	CFM Air Delivery	Cabinet Size	Net Weight (lbs)
RHBX09-11-E1	9200 7400	115-1-60	15.6	25	10	300	B	415
RHBX12-21-E1	12700 11000	230/208-1-60	10.1/9.9	20	12	325	B	420
RHBX18-21-E1	18000 16800	230/208-1-60	15.5/15.4	25	10	400	C	470
RHBX24-21-E1	24000 22000	230/208-1-60	16.5/15.4	25	10	600	D	505

- (1) Time Delay Fuse or HACR Type Circuit Breaker.  
(2) 75°C Copper Wire Size.  
(3) Heat Pump Rating at 47°F Ambient.

### IMPORTANT NOTICE:

It is essential to know the **lower** of the Cloud and Layer minimum ignition temperatures of your combustible dust. The minimum ignition temperature of a Layer of a specific dust is normally lower than that of a Cloud of that same dust, although not in every case. Minimum ignition temperatures for various combustible dusts can be found in NFPA 70 (N.E.C), Article 500, Table 5.2.

These air conditioners and heat pumps are rated T3B and may be used in an area with a T3B (329° F, 165° C), T3A (356° F, 180° C), or higher rating.



### INSTALLATION NOTES:

- Add 1/4" to height and width for wall cut-out.
- Unit has connection for 3/4" conduit on left side near top of cabinet.

	H	W	D	* L
B	16"	26"	44-1/2"	6-3/4"
C	18"	26"	44-1/2"	6-3/4"
D	20-1/4"	28"	51"	10"

\* L - Maximum Wall Thickness (Cabinet can be extended for greater wall thickness).

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE 10-16-06 (Supersedes 11-28-05)



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