

# RETROAIRE

*The Right Fit for Comfort*

**RC/RH25 PTAC**

P/N# 240-3256, Rev. 1.6 [2/05]

**REPLACEMENT FOR  
FRIEDRICH/CLIMATE MASTER MODEL ET**



**STRAIGHT COOL/HEAT PUMP**

Nominal Capacities: 9,000 - 12,000 - 15,000 Btuh

**DESCRIPTION**

The RetroAire RC/RH25 replacement chassis is a conditioner designed to allow owners of Friedrich Climate Master ET packaged terminal units to upgrade room comfort while reducing operating costs through higher efficiency and enhanced reliability.

A heat pump version (the RH/RH25 chassis) is also available. Like the RC25, it will fit the existing wall sleeve. This heat pump will reduce heating energy costs with outdoor temperatures as low as 35°F.

The RC/RH25 uses a high-efficiency rotary compressor protected under a 5 year warranty and an enhanced high-efficiency heat exchanger to make the replacement of worn-out and inefficient units a very attractive option.

The RC/RH25 offers two fan speeds and has an optional motorized fresh-air feature with a positive pressure seal, override switch, and positive condensate re-evaporation to improve efficiency.

Energy efficiency ratings as high as 9.8 can mean rapid payback of your replacement investment through energy savings.

Whisper-quiet operation improves the room ambience and a washable mesh filter makes service a snap. The 20 gauge, galvanized steel construction of the chassis ensures long service life.

All RetroAire products are backed by Enviromaster International LLC and are tested and rated in accordance with ARI Standards 310 & 380 and UL 484. A full service parts inventory is always available.

▲▼ **Capacities:** The RC/RH25 Replacement Chassis is available in nominal capacities of 9,000, 12,000, and 15,000 Btuh.

▲▼ **Air Systems:**

- Fans are forward-curved type, directly mounted to the motor shaft
- Motor is PSC type with overheat protection
- Blower deck air stream surfaces are insulated with 1/4" fiberglass and/or 1/8" Volara™
- Filter is removable washable mesh and accessible without tools

▲▼ **High Efficiency Heat Exchanger** – Coil is seamless, rifled copper tubing arranged in staggered configuration with enhanced aluminum fins, tested to 460 psig. The tubes are mechanically expanded for secure bonding to fin shoulders.

▲▼ **Condensing Section & Refrigeration Circuit:**

- High efficiency rotary compressor (with 5 year standard warranty)
- PSC-type Condenser Fan Motor with overheat protection
- Automatic expansion valve refrigerant metering for low-ambient protection

▲▼ **Heat Pump:**

- Operates as low as 35°F outdoor temperature
- Includes adjustable changeover temperature point and emergency heat position
- Includes a standard temperature actuated drain pan valve for heat cycle condensate disposal

▲▼ **Options:**

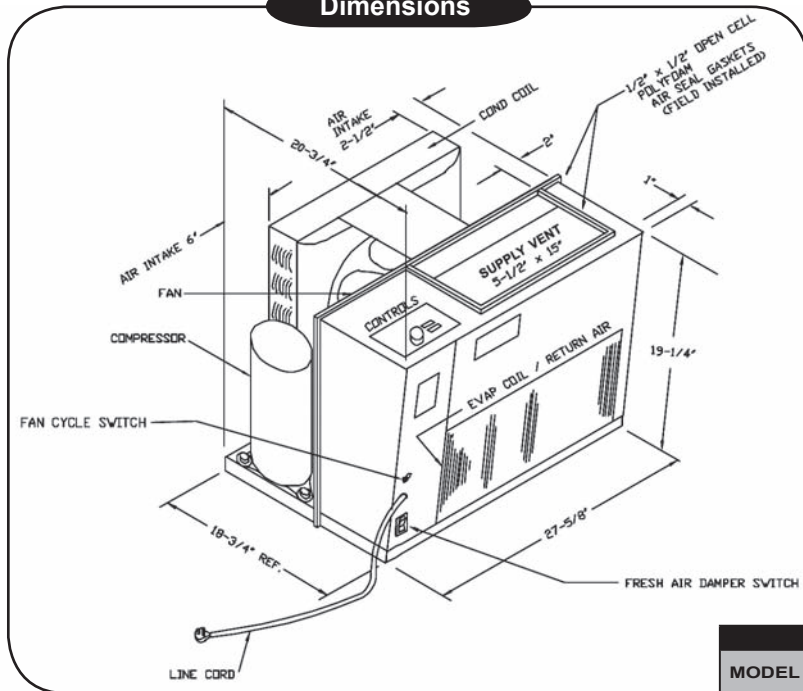
- Long life 3, 3.5, or 5 KW electric heat element with redundant safety controls
- Continuous/cycling fan control switch
- Motorized fresh air damper with positive pressure seal and override switch
- 115 Volt

**IMPORTANT:** *The RC/RH25 is designed to fit both the existing wall sleeve and cabinet of the old unit but, when either the sleeve or the cabinet must be replaced because of rust or damage, RetroAire will supply custom replacements if minimum order quantity requirements are met.*

# RC/RH25 SPECIFICATIONS AND PERFORMANCE

**IMPORTANT:** Due to ongoing product development, designs, specifications, and performance are subject to change without notice. Please consult factory for further information.

## Dimensions



NEMA Specifications Non-Locking/Receptacles									
VOLTAGE	125V			250V			265V		
	15(A)	20(A)		15(A)	20(A)	30(A)	15(A)	20(A)	30(A)
PLUS									
RECEPTACLE									

## RC/RH25 PERFORMANCE DATA

MODEL	COOLING Btuh	EER	HEATING Btuh	COP	EVAP CFM HIGH/LOW	FRESH AIR CFM
09	9,200	9.8	8,600	3.2	410/305	40/35
12	12,300	9.7	11,800	3.2	410/305	40/35
15	15,100	8.0	13,700	2.6	410/305	55/45

## RC/RH 25 Electrical Specifications

Model Number	Voltage/hz/ph	Fan Motor		Compressor		Total amps	MCA	Max Fuse	Min Voltage	Line Cord
		FLA	Hp	RLA	LRA					
9	208/230/60/1	1.1	0.18	3.8	20	4.9	5.9	15	197	6-15P
	265/60/1	1.1	0.25	3.3	18.6	4.4	5.2	15	240	7-20P
12	208/230/60/1	1.1	0.18	4.8	26.3	5.9	7.1	15	197	6-15P
	265/60/1	1.1	0.25	4.2	28	5.3	6.4	15	240	7-20P
15	208/230/60/1	1.1	0.18	7.6	45	8.7	10.6	15	197	6-15P
	265/60/1	1.1	0.25	6.3	32	7.4	9.0	15	240	7-20P

## RC/RH 25 Optional Electric Heat

Heater No.	Voltage	Watts	Btuh	Amps	Total Heat Amps	MCA	Max Fuse	Line Cord
2	208	1963	6700	9.4	10.5	12.9	15	6-15P
	230	2400	8200	10.4	11.5	14.1	15	6-15P
	265	3186	10900	12.0	13.1	16.1	20	7-20P
3	208	2454	8400	11.8	12.9	15.8	20	6-20P
	230	3000	10300	13.0	14.1	17.4	20	6-20P
	265	3752	12900	14.2	15.3	18.8	20	7-20P
4 (3.5)	277	4100	14000	14.8	15.9	19.6	20	7-20P
	208	2862	9800	13.8	14.9	18.3	20	6-20P
	230	3500	12000	15.2	16.3	20.1	20	6-20P
5	265	4646	15900	17.5	18.6	23.0	25	7-30P
	208	4089	14000	19.7	20.8	25.7	30	6-30P
	230	5000	17100	21.7	22.8	28.3	30	6-30P



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