

RETROAIRE™

The Right Fit for Comfort

RQTH

Single Package Vertical Unit

A Vertical Packaged Heat Pump that Maximizes Comfort with Minimal Expense

- ▶ Drop-In Replacement for Original Carrier 50QT 1.5 & 2-Ton Equipment
- ▶ Heat Pumps (Limited Range) with Electric Heat
- ▶ AHRI Certified Performance
 - Cooling: 17,000 or 21,500 Btuh
 - Heating: 15,800 or 21,200 Btuh
- ▶ Meets Efficiency Criteria for Replacement or New Construction Applications



CONDOMINIUMS

APARTMENT BUILDINGS

DORMITORIES

HOTELS/MOTELS

RetroAire's new Vertical Packaged Unit, the RQTH, is an economical means to provide cooling and heating to multiple rooms. Proudly designed and made in Utica, NY exclusively to meet the needs of the replacement application for the Carrier 50QT that was discontinued in the late 1980s. There are many thousands of these units up and down the East Coast, dominantly used in high-rise condominiums that were built during that time period.

RetroAire's Vertical Packaged Unit is installed in a closet which allows for ducting to adjacent rooms for maximum comfort at minimal expense. Ideally suited for hotel/motel, extended care and assisted living facilities, apartments and dormitories, the VPRC/VPRH allows for design flexibility to meet many applications.

Ease of Installation & Service

- ▶ RetroAire's replacement RQTH uses is designed to be a drop-in replacement for an original Carrier 50QT 1.5 and 2-Ton equipment models. This reduces the amount of time required to replace the chassis, as few or no additional modifications are required to fit the RQTH into the same original wall opening. Controls, power and drain connections are in the same general area. RetroAire offers externally mounted louvers for balcony applications, and internally mounted louvers for those rare applications where external unit access is not feasible. The RQTH has panel-mounted refrigerant service ports on the indoor side, next to the control box.

Environmentally Friendly

- ▶ RetroAire's replacement RQTH uses R-410A, a hydrofluorocarbon refrigerant that does not contribute to ozone depletion, as it does not contain Bromine or Chlorine like many older refrigerants; and is therefore, not being phased out under the Montreal Protocol-EPA.
- ▶ RQTH units satisfy the ASHRAE 90.1-2010 minimum efficiency Standards, 9.0 EER and 3.0 COP. All units are AHRI Performance Certified to the AHRI 390 Standard, listed under the SPVU AHRI section, insuring their performance compliance.
- ▶ Significantly higher efficiency that the original Carrier 50QT 1.5 & 2-Ton equipment.

RQTH Single Package Vertical Unit



Easy Start-Up and Reliable Operation

- ▶ Each unit is factory-tested to insure a reliable start-up. A test function on the control board allows for a quick test of the unit's function at commissioning.
- ▶ Built-in reliability control functions help to provide years of dependable service. The control prevents compressor short cycling, protects the unit from coil freeze-ups, and prohibits compressor operation in freezing temperatures to prolong the life of the compressor.

BENEFITS

- Much lower cost than a split system, where a condenser would occupy valuable balcony/porch space
- Higher efficiency units save on utility bills
- Minimal intrusion and time to installation
- Quiet, reliable operation
- Peace of mind: ETL Certified for safety, and AHRI Certified for performance

Model	Cooling Btuh (kW)	Sensible Heat Ratio	EER	Heat Pump Btuh (kW)	COP	Air Flow vs External Static Pressure			Fresh Air Inlet Flow	Outdoor Sound Level
						Static Pressure				
						0.10 in. w.c. (2.5 mm w.c.)	0.20 in. w.c. (5.1 mm w.c.)	0.30 in. w.c. (7.6 mm w.c.)		
						CFM (L/s)	CFM (L/s)	CFM (L/s)		
RQTH18	17,000 (4.98)	0.77	9.0	15,800 (4.63)	3.0	600 (283)	550 (260)	500 (236)	60	71
RQTH24	21,500 (6.30)	0.75	9.0	21,200 (6.21)	3.0	710 (335)	650 (307)	600 (283)	60	71

	Power Supply Volt 1-60		Compressor		Indoor Fan Motor		Outdoor Fan Motor		Electric Heat				Unit Electrical Ratings				
	Volt	Min	RLA	LRA	FLA	Hp	FLA	Hp	Htr #	Volt	W	HA	TCA	THA	MCA	MOCP	H-Wire
RQTH18	208/ 230V	197	7.3	48	1.3	0.25	0.5 0.5	0.125	5	208	4089	19.7	9.6	21.0	26.2	30	H-Wire
										230	5000	21.7		23.0	28.8		
									7	280	5725	27.5		28.8	36.0	40	H-Wire
										230	7000	30.4		31.7	39.7		
RQTH24	208/ 230V	197	10	58.3	1.3	0.25	0.5 0.5	0.125 0.125	7	208	5725	27.5	12.3	28.8	36.0	40	H-Wire
										230	7000	30.4		31.7	39.7		
									10	208	8178	39.3		40.6	50.8	60	H-Wire
										230	10,000	43.5		44.8	28.4		

Contact your local RetroAire Representative or call RetroAire for more details.
Specifications subject to change without notice.

