



**RPC
SERIES**

**OMEGA
VF**



OMEGA VF

RPC SERIES

Omega VF replacement unit is an ideal replacement and upgrade for the old Singer/McQuay VF unit. The chassis is a direct drop in for a fast, simple and easy installation.

The Omega replacement chassis features modern components and advanced microprocessor control providing the user with silent, energy efficient, and reliable year round operation

A matching harness connector, and factory tested and fully charged with R-410A, makes Omega the preferred replacement option.



QUICK & EASY

Omega VF chassis is dimensionally identical to old Singer/McQuay VF unit for a quick and easy installation. Simply remove old chassis and slide in new Omega unit. Unit connects directly with existing control box wiring. Water connections match existing cabinet connections for a complete turn-key installation.

SAFETY

Replacement chassis comes standard with high-pressure and low-pressure safety switches to protect unit due to air-flow blockages, water flow disruptions, or motor failures. Equipped with a lock-out relay to prevent the chassis from operating after a safety switch trip.

COMFORT & RELIABILITY

Quiet and reliable operation from the use of quality components and construction. High-efficient compressors and built-in noise cancelling double isolated compressor base ensure silent unit operation. Low pressure by-pass timer for fault-free start-ups and thermostatic expansion valve (TXV) for optimal operation. All new Omega units comes with our standard 1-year parts and 5-year compressor warranty.

COMPARISON CHART

SINGER/MCQUAY VF		
OMEGA MODEL	REPLACES MCQUAY MODEL	NOMINAL SIZE (TONS)
RPC-MC-VF-030	VF-090/100	3/4
RPC-MC-VF-040	VF-140	1
RPC-MC-VF-060	VF-200	1 ½
RPC-MC-VF-070*	VF-240	1 ¾
RPC-MC-VF-080**	VF-260	2
RPC-MC-VF-100	VF-330	2 ½

* Replaces small cabinet nominal 2 Ton existing VF unit. Verify dimensions at time of order.

** Replaces large cabinet nominal 2 Ton existing VF unit. Verify dimensions at time of order.

STANDARD FEATURES

- Factory charged and tested
- High efficiency compressors
- Advanced microprocessor controller
- 3-Speed fan control on all models
- Unit mounted power disconnect switch
- High and Low-Pressure safety switches
- Freeze Protection sensor
- Entering & Leaving Water Temperature sensors
- Chassis drain pan Condensate Overflow Switch
- Thermal Expansion Valve (TXV) & Filter Drier
- R-410A refrigerant
- Stainless Steel Drain Pan
- Refrigerant service access ports
- Heavy gauge galvanized sheet metal
- 1 Year Parts and 5 Year Compressor Warranty

OPTIONS & ACCESSORIES

- Remote mounted thermostat
- Auto-Flow Balancing valve
- Auto-Shut-Off Control valve
- Geothermal Option
- Air Filters

PERFORMANCE DATA

OMEGA MODEL	REFRIG.	SIZE (TONS)	NOMINAL CFM	COOLING*		HEATING*		NOMINAL GPM	WPD	
				BTUH ¹	EER ¹	BTUH ²	COP ²		PSI	FT
RPC-MC-VF-030	R410A	3/4	350	9,400	12.5	11,300	4.3	2.5	4.8	11
RPC-MC-VF-040		1	420	11,500	12.2	13,800	4.3	3.0	4.8	11
RPC-MC-VF-060		1 ½	600	17,000	12.2	21,200	4.3	4.5	7.8	18
RPC-MC-VF-070		1 ¾	700	20,200	12.2	25,500	4.3	5.0	8.2	19
RPC-MC-VF-080		2	820	23,500	12.3	29,800	4.3	6.0	4.4	10
RPC-MC-VF-100		2 ½	1020	29,300	12.2	37,700	4.3	7.0	5.6	13

* Nominal capacity performance based on 86F EWT Cooling, 68F EWT Heating and rated CFM. Includes fan power 0.365W/CFM

¹ Cooling performance based on 80F DB and 67F WB entering air conditions.

² Heating performance at 68F entering air.

DIMENSIONAL DATA

OMEGA MODEL	DIMENSIONS (INCHES)					WATER CONNECTION		WEIGHT (LBS)
	A	B	C	D	E	OUTLET	INLET	
RPC-MC-VF-030	18 1/8	15	46 1/2	7	8 1/4	1/2 FPT	1/2 FPT	135
RPC-MC-VF-040	18 1/8	15	46 1/2	7	8 1/4	1/2 FPT	1/2 FPT	140
RPC-MC-VF-060	18 1/8	15	46 1/2	7	8 1/4	1/2 FPT	1/2 FPT	160
RPC-MC-VF-070	18 1/8	15	46 1/2	7	8 1/4	1/2 FPT	1/2 FPT	180
RPC-MC-VF-080	22	20 5/8	53 1/2	7	12	3/4 FPT	3/4 FPT	205
RPC-MC-VF-100	22	20 5/8	53 1/2	7	12	3/4 FPT	3/4 FPT	205

