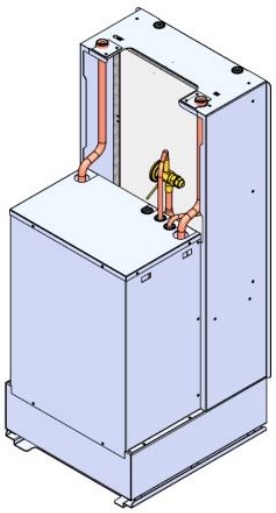
OMEGA 816 SERIES

CLIMATEMASTER 816 Replacement Chassis



Omega 816 replacement chassis unit is an ideal replacement and upgrade for the old ClimateMaster 816 units. The chassis is a direct-drop in for the existing ClimateMaster unit allowing for a fast, simple and easy installation.

The Omega 816 is available in two electrical configurations based on replacement requirements:

- The “M” control option comes with matching 9 pin harness to mate with existing ClimateMaster “M” controls electrical box.
- The Omega electrical package replaces existing electrical controls with a completely new, pre-wired electrical package including updated controls, wiring, and a full featured advanced microprocessor controller.

Each unit features modern components and chassis noise cancelling base providing the user with silent, energy efficient, and reliable year-round operation.

QUICK & EASY

Omega 816 replacement chassis is dimensionally identical to old ClimateMaster 816 unit for a quick and easy installation. Simply remove old chassis and install new Omega unit. The “M” control option comes with a plug-n-play harness* for quick connection to existing controls. The optional Omega electrical package replaces existing electrical box components and controls. Water connections match existing cabinet connections for a seamless transition.

SAFETY

Replacement chassis comes standard with high-pressure and low-pressure safety switches, and refrigerant low temperature switch to protect unit from unwanted operating conditions such as air-flow blockages, water flow disruptions, and motor failures. Omega electrical package control option features water temperature sensors, advanced unit monitoring and diagnostics.

COMFORT & RELIABILITY

Quiet and reliable operation from the use of quality components and construction. High-efficient compressors and built-in noise cancelling features ensures silent unit operation. All new Omega units come with our standard 1 year parts and 5 Year compressor warranty.

*Only compatible with existing ClimateMaster ‘M’ controls box. Verify existing controls and harness connections prior to ordering.

STANDARD FEATURES

- Factory charged and tested
- High efficiency compressors
- High and Low-Pressure safety switches
- Freeze Protection sensor
- Double Isolated Compressor Base
- Thermal Expansion Valve (TXV) & Filter Drier
- R-410A Environmentally friendly refrigerant
- Stainless Steel Drain Pan
- Refrigerant service access ports
- Heavy gauge galvanized sheet metal
- 1 Year Parts and 5 Year Compressor Warranty

OPTIONS & ACCESSORIES

- Omega Electrical Package w/ Advanced Microprocessor
- Thermostat
- Auto-Flow Balancing valve
- Auto Shut-Off Control valve
- Geothermal Option
- Coated Air Coil for Formicary Corrosion Protection
- Air Filters

Check www.omega-heatpump.com for latest information.

Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA 816 SERIES

CLIMATEMASTER 816 Replacement Chassis

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-CM-816-030	R-410A	3/4	310	9,900	12.6	14,100	4.4	2.5	4.3	10
RPC-CM-816-040	R-410A	1	475	13,000	13.3	16,600	4.4	3.0	4.5	10
RPC-CM-816-060	R-410A	1 1/2	600	17,600	12.1	22,600	4.2	4.5	5.1	12

* 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.

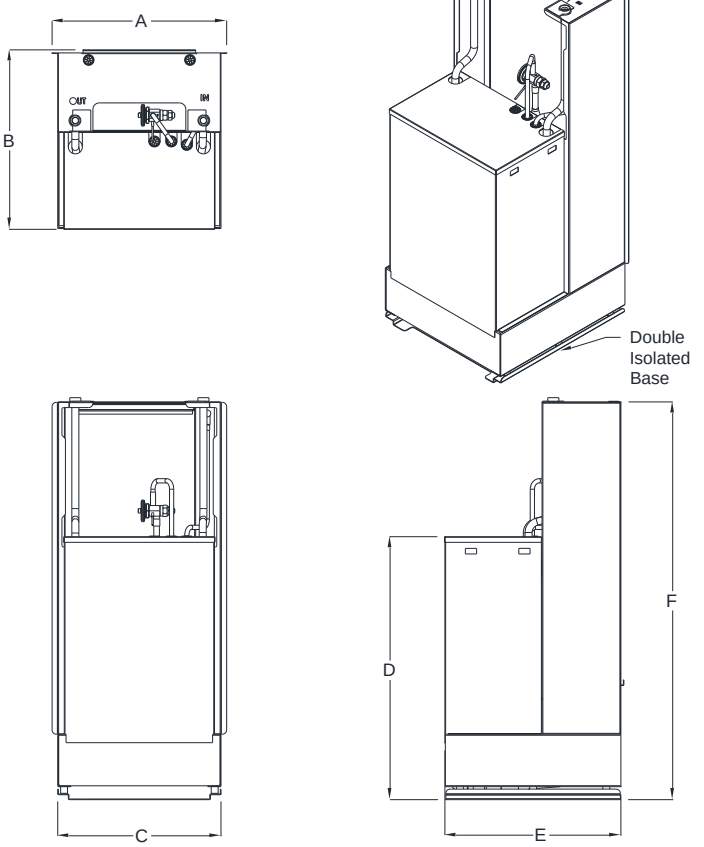
Dimensional Data

Omega Model	Dimensions (inches)						Water Connection		Weight (lbs.)
	A	B	C	D	E	F	Outlet	Inlet	
RPC-CM-816-030	15 1/2	15 5/8	14 1/2	23 3/8	15 5/8	35 1/2	1/2 HA	1/2 HA	70
RPC-CM-816-040	15 1/2	15 5/8	14 1/2	23 3/8	15 5/8	35 1/2	1/2 HA	1/2 HA	75
RPC-CM-816-060	18 1/2	18 5/8	17 1/2	22 1/4	18 5/8	40 7/8	1/2 HA	1/2 HA	100

Electrical Data

MODEL	Compressor Type	Supply Voltage	Compressor			
			QTY		RLA	LRA
RPC-CM-816-030	**Rotary**	208-230/1/60	1	@	3.7	22.0
RPC-CM-816-040	**Rotary**	208-230/1/60	1	@	4.7	25.0
RPC-CM-816-060	**Rotary**	208-230/1/60	1	@	7.4	33.0

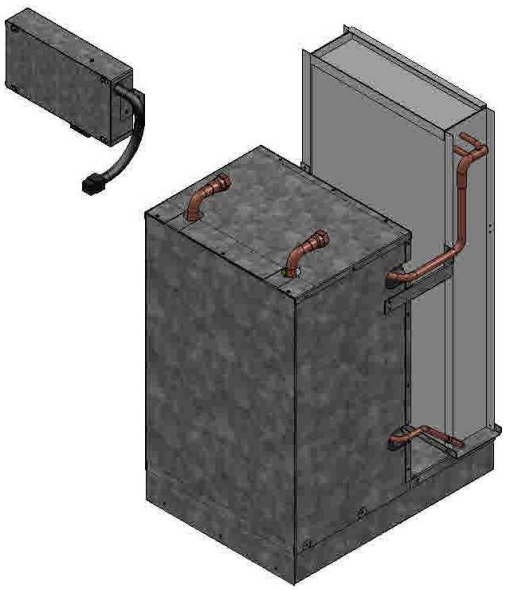
VERIFY EXISTING ELECTRICAL SERVICE IS ADEQUATE FOR NEW REPLACEMENT CHASSIS



Due to a continuous product improvement policy, dimensions and performance data are subject to change without notice.
Check www.omega-heatpump.com for latest information.

Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA ENERZONE SERIES
Enerzone Replacement Chassis Kit



Omega Enerzone replacement chassis kit is the ideal replacement and upgrade for the original Enerzone / HTS Signature electromechanical units. The chassis unit and add-on electrical box are a simple drop-in for the existing Enerzone unit allowing for a fast, simple and easy installation.

The Omega unit features modern components and microprocessor controller providing the user with silent, energy efficient, and reliable year-round operation.

Plug-n-play harness connections, microprocessor controller, and factory tested and fully charged with R-410A brings modern features to old equipment.

QUICK & EASY

Omega Enerzone replacement chassis are dimensionally identical to old Enerzone unit for a quick and easy installation. The standard electrical box add-on package with microprocessor controller is a simple bolt-on installation. With plug-n-play wiring harness connections and no wiring modifications required, Omega is the preferred choice for a simple and easy installation.

SAFETY

Replacement chassis comes standard microprocessor controller which monitors high and low pressure safety switches to protect unit from unwanted operating conditions and switch unit off in case of water or airflow blockages.

COMFORT & RELIABILITY

Quiet and reliable operation from the use of quality components and construction. High-efficient compressors and built-in noise compressor cancelling base ensures silent unit operation. Microprocessor controller continuously monitors operation of the unit for fault-free start-ups and optimal operation. All new Omega replacement units come with our standard 1 year parts and 5 year compressor warranty.

*Enerzone/HTS Signature units came in several wiring configurations, check if you require harness for older legacy units.

Note: Optional hose connection adapters are required to mate with existing NPT hoses.

STANDARD FEATURES

- Factory charged and tested
- High efficiency compressors
- Microprocessor controller (Legacy V5 Kit)
- High and Low-Pressure safety switches
- Thermal Expansion Valve (TXV) & Filter Drier
- R-410A Environmentally friendly refrigerant
- Stainless Steel Drain Pan
- Refrigerant service access ports
- Heavy gauge galvanized sheet metal
- 1 Year Parts and 5 Year Compressor Warranty

OPTIONS & ACCESSORIES

- Thermostat
- Auto-Flow Balancing valve
- Auto Shut-Off Control valve
- Hose Connection Adapters
- Geothermal option
- Coated Air Coil for Formicary Corrosion Protection
- Hose Connection Adapters

Check www.omega-heatpump.com for latest information.

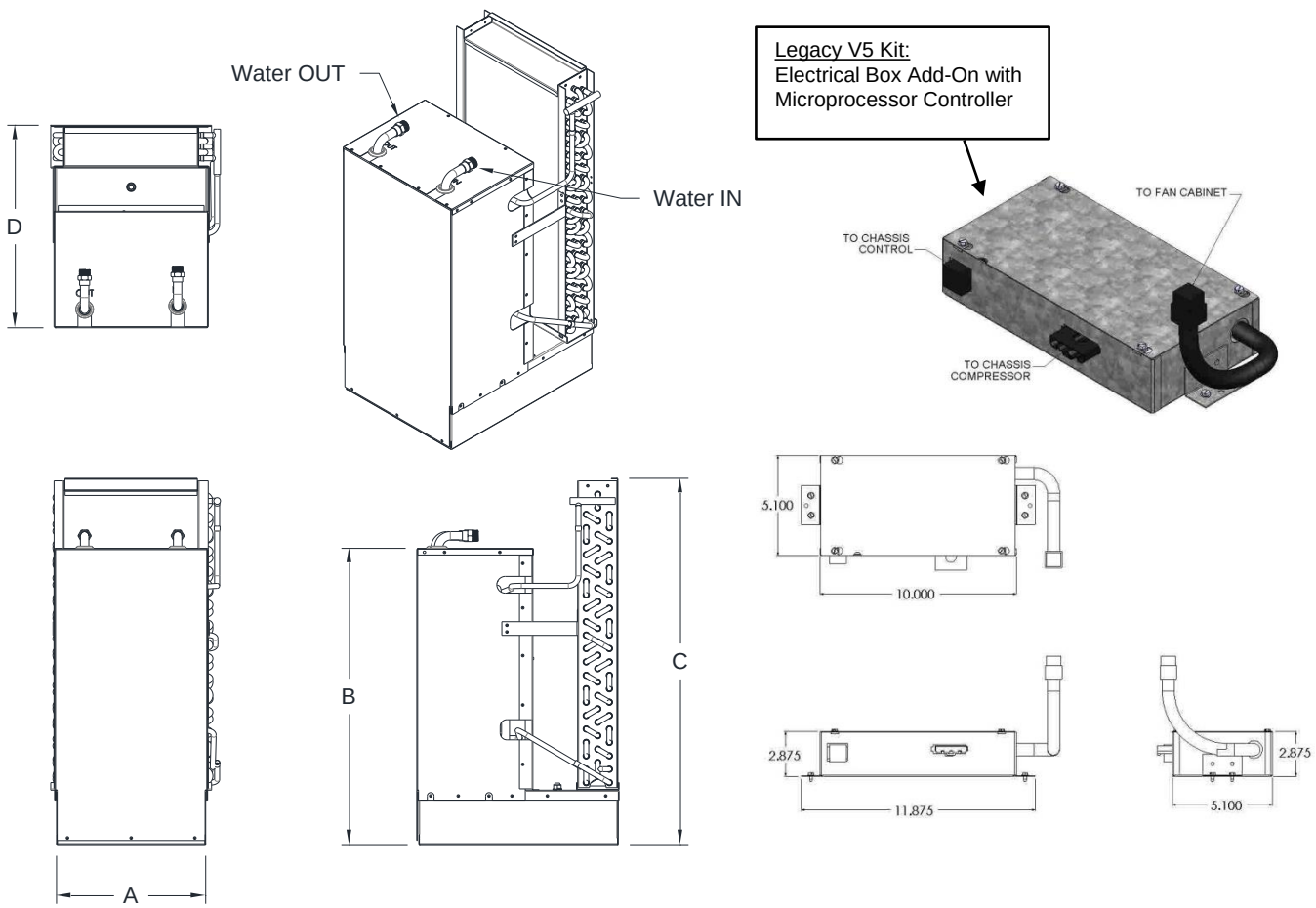
Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA ENERZONE SERIES
Enerzone Replacement Chassis Kit

Performance Data

Omega Model	Enerzone Model	Refrig.	Size (Tons)	Nominal CFM	Cooling*		Heating*		Nominal GPM	WPD	
					BTUH[1]	EER[1]	BTUH[2]	COP[2]		PSI	FT
RPC-EZ-EMC-030	HRP-030	R-410A	3/4	310	9,900	12.6	14,100	4.4	2.5	4.3	10
RPC-EZ-EMC-040	HRP-040	R-410A	1	475	13,000	13.3	16,600	4.4	3.0	4.5	10
RPC-EZ-EMC-060	HRP-060	R-410A	1 1/2	600	17,600	12.1	22,600	4.2	4.5	5.1	12
[3]RPC-EZ-EMC-080	HRP-080	R-410A	2	820	24,000	13.6	30,400	4.2	6.0	4.5	11

* 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.
[3] Old HRP-080 R-22 chassis is replaced with RPC-EZ-EMC-060 replacement unit



Dimensional Data

MODEL	Compressor Type	Supply Voltage	Compressor			
			QTY		RLA	LRA
RPC-EZ-EMC-030	**Rotary**	208-230/1/60	1	@	3.7	22.0
RPC-EZ-EMC-040	**Rotary**	208-230/1/60	1	@	4.7	25.0
RPC-EZ-EMC-060	**Rotary**	208-230/1/60	1	@	7.4	33.0
***RPC-EZ-EMC-080**	**Rotary**	208-230/1/60	1	@	9.5	43.0

*Old HRP-080 R-22 chassis is replaced with RPC-EZ-EMC-060 replacement unit.

Electrical Data

MODEL	Compressor Type	Supply Voltage	Compressor			
			QTY		RLA	LRA
RPC-EZ-EMC-030	**Rotary**	208-230/1/60	1	@	3.7	22.0
RPC-EZ-EMC-040	**Rotary**	208-230/1/60	1	@	4.7	25.0
RPC-EZ-EMC-060	**Rotary**	208-230/1/60	1	@	7.4	33.0
***RPC-EZ-EMC-080**	**Rotary**	208-230/1/60	1	@	9.5	43.0

VERIFY EXISTING ELECTRICAL SERVICE IS ADEQUATE FOR NEW REPLACEMENT CHASSIS

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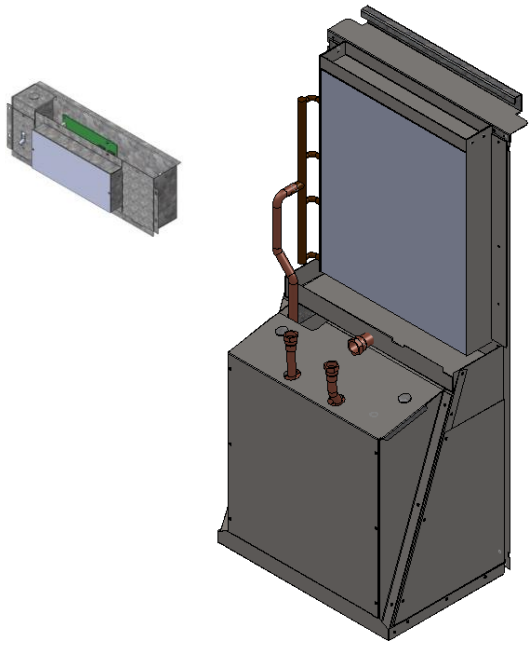
Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA HCA SERIES
McQuay HCA Replacement Chassis Kit



Omega HCA replacement chassis unit is an ideal replacement and upgrade for the old McQuay HCA units. The chassis unit and electrical box are a direct drop-in for the existing McQuay unit allowing for a fast, simple and easy installation.

The Omega HCA unit features modern components and an advanced microprocessor control providing the user with silent, energy efficient, and reliable year-round operation.

Factory tested and fully charged with R-410A makes Omega the preferred replacement option.

QUICK & EASY

Omega HCA replacement chassis kit with electrical box are dimensionally identical to old McQuay HCA unit for a quick and easy installation. Simply remove old chassis and electrical box and install new Omega chassis kit. The HCA unit can now be wired to a remote mounted thermostat. Chassis comes with plug-n-play harnesses for quick connection to new electrical box. Water connections match existing cabinet connections for a seamless transition.

SAFETY

Replacement chassis comes standard with a host of safety features to protect unit from unwanted operating conditions: high-pressure and low-pressure safety switches, water temperature sensing for pre-emptive detection of water flow issues, and condensate overflow switch to protect against water leaks into occupant suite.

COMFORT & RELIABILITY

Quiet and reliable operation from the use of quality components and construction. High-efficient compressors and built-in noise compressor cancelling base ensures silent unit operation. Advanced microprocessor controller continuously monitors operation of the unit for fault-free start-ups and optimal operation. All new Omega units comes with our standard 1 year parts and 5 year compressor warranty.

STANDARD FEATURES

- Factory charged and tested
- High efficiency compressors
- Advanced microprocessor controller
- 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
- Double Isolated Compressor Base
- Thermal Expansion Valve (TXV) & Filter Drier
- R-410A Environmentally friendly 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
- Coated Air Coil for Formicary Corrosion Protection
- Air Filters

Check www.omega-heatpump.com for latest information.

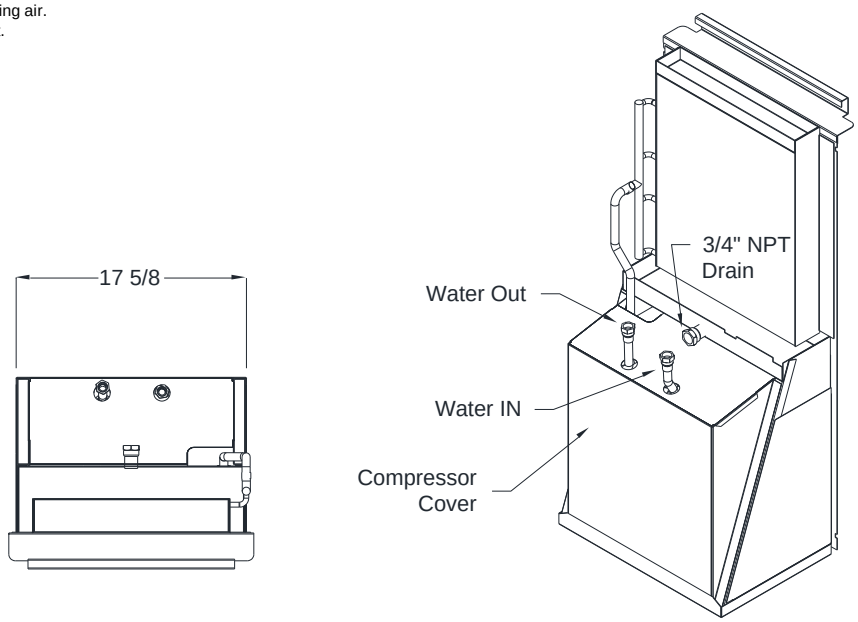
Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

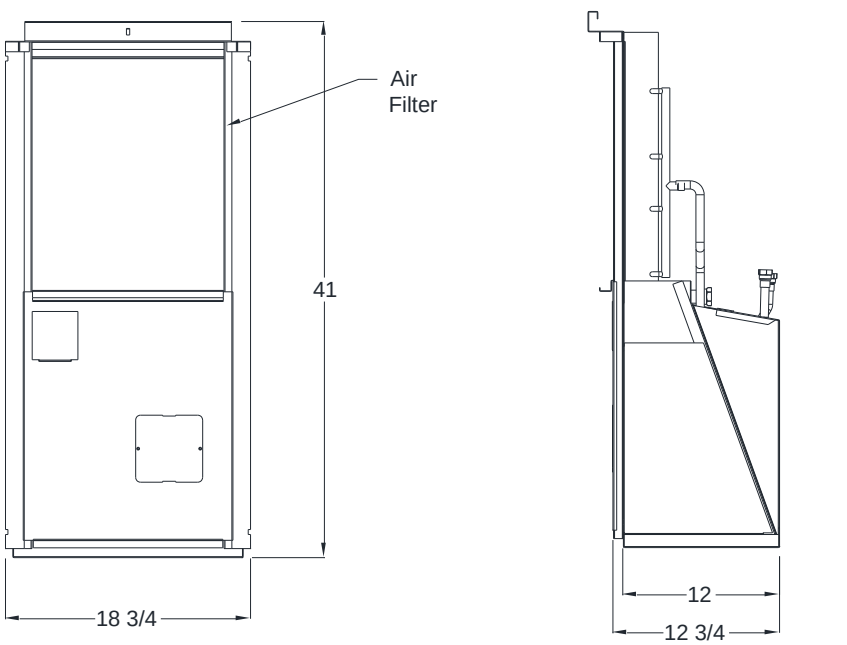
OMEGA HCA SERIES
McQuay HCA Replacement Chassis Kit

Performance Data

Omega Model	Refrig.	Size (Tons)	Nominal CFM	Cooling*	Heating*	Nominal GPM	WPD		Water Connection		Weight (lbs.)
				BTUH[1]	BTUH[2]		PSI	FT	Outlet	Inlet	
RPC-MC-HCA-030	R410	3/4	350	9,100	10,800	2.5	4.5	10.4	1/2" FPT	1/2" FPT	70
RPC-MC-HCA-040	R410	1	420	11,000	14,100	3.0	3.7	8.5	1/2" FPT	1/2" FPT	75
RPC-MC-HCA-060	R410	1 1/2	625	17,600	21,400	4.5	7.0	16.1	1/2" FPT	1/2" FPT	103
RPC-MC-HCA-080	R410	2	820	22,000	25,000	6.0	3.7	8.6	1/2" FPT	1/2" FPT	125

* 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.
**Only for units without electric heat.





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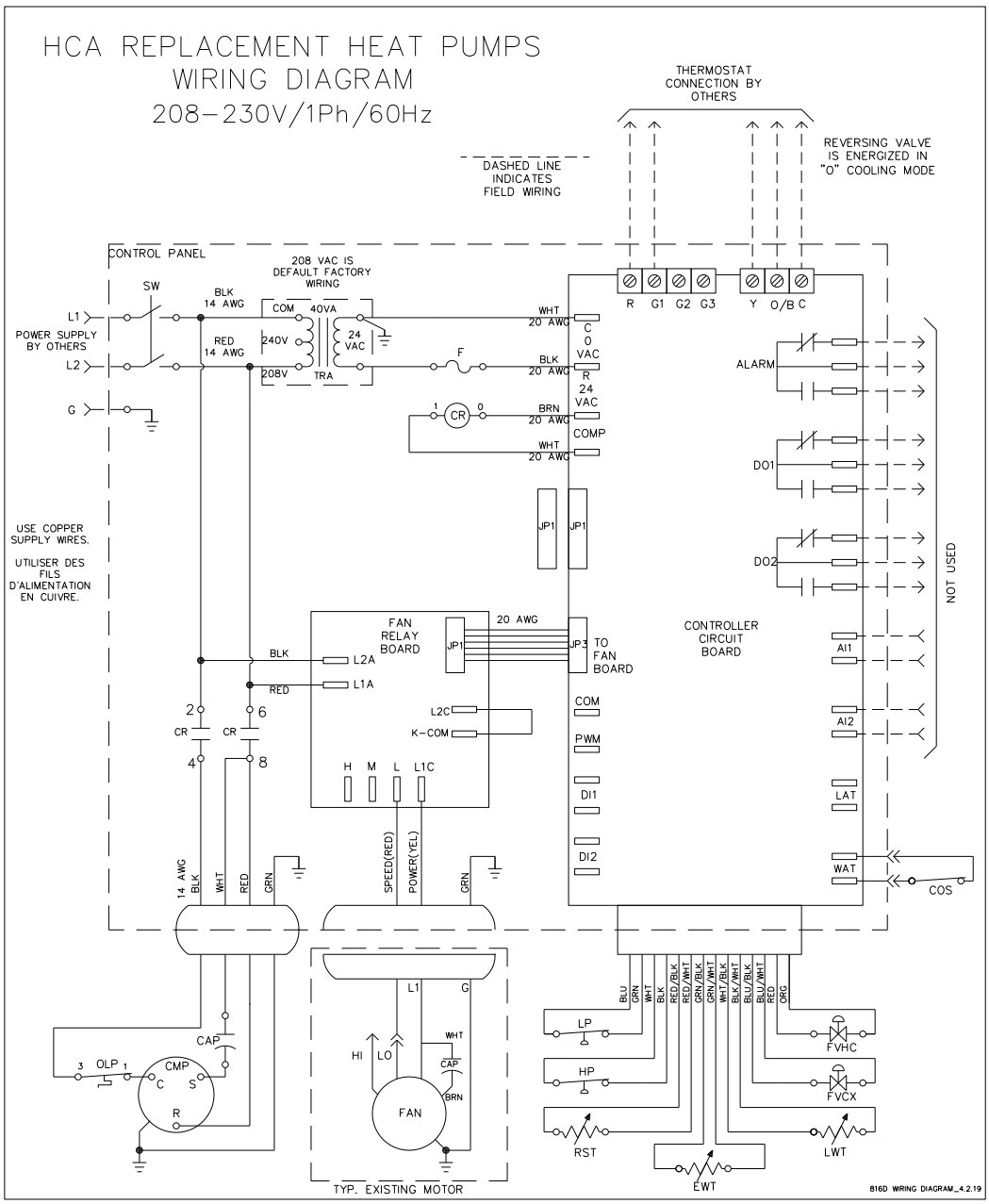
OMEGA HCA SERIES
McQuay HCA Replacement Chassis Kit

Wiring Schematic



Electrical Data

Model	Compressor Type	Supply Voltage	Compressor			
			QTY		RLA	LRA
RPC-MC-HCA-030	Rotary	208-230/1/60	1	@	3.7	22.0
RPC-MC-HCA-040	Rotary	208-230/1/60	1	@	4.7	25.0
RPC-MC-HCA-060	Rotary	208-230/1/60	1	@	7.4	33.0
RPC-MC-HCA-080	Rotary	208-230/1/60	1	@	9.5	43.0

CMP	-	Compressor
COS	-	Condensate Overflow Switch
CR	-	Contactor Relay
EWT	-	Entering Water Temp. Sensor
LWT	-	Leaving Water Temp. Sensor
F	-	Fuse
FVCX	-	Auto Shut-Off Valve
FVHC	-	Reversing Valve
HP	-	High Pressure Switch

LP	-	Low Pressure Switch
L1	-	Power Line 1
L2	-	Power Line 2
OLP	-	Thermal Overload Switch
SW	-	Power Disconnect
RST	-	Refrigerant Suction Temp. Sensor
TB	-	Terminal Block
TRA	-	Transformer

VERIFY EXISTING ELECTRICAL SERVICE IS ADEQUATE FOR NEW REPLACEMENT CHASSIS

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Customer Support
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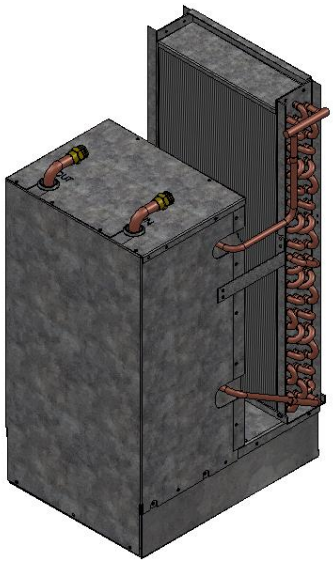
OMEGA HRP SERIES
Omega HRP Replacement Chassis



Omega HRP replacement chassis is the ideal replacement and upgrade for the original Omega HRP units. The chassis unit is our OEM direct drop-in for allowing for a fast, simple and easy installation.

The Omega unit features modern components and works seamlessly with the existing microprocessor controller providing the user with silent, energy efficient, and reliable year-round operation.

Factory tested and fully charged with R-410A makes Omega the preferred replacement option.

QUICK & EASY

Omega HRP replacement chassis units are dimensionally identical to existing unit for a quick and easy installation. Simply remove old chassis, and slide in new Omega chassis. All connections are plug-n-play with no wiring modifications required. Water connections match existing cabinet and hose connections for a seamless transition.

SAFETY

Replacement chassis comes standard with safety features to protect unit from unwanted operating conditions: high-pressure and low-pressure safety switches to shut down unit before damage can occur and pre-emptive detection of water flow issues.

COMFORT & RELIABILITY

Quiet and reliable operation from the use of quality components and construction. High-efficiency compressor ensures silent and reliable operation. Unit integrates with existing microprocessor controller and monitors operation of the unit for fault-free start-ups and optimal operation. All new Omega units come with our standard 1 year parts 5 year compressor warranty.

STANDARD FEATURES

- Factory charged and tested
- High efficiency compressors
- Microprocessor Controller Compatible
- High and Low-Pressure safety switches
- Thermal Expansion Valve (TXV) & Filter Drier
- R-410A Environmentally friendly refrigerant
- Stainless Steel Drain Pan
- Refrigerant service access ports
- Heavy gauge galvanized sheet metal
- 1 Year Parts and 5 Year Compressor Warranty

OPTIONS & ACCESSORIES

- Thermostat
- Auto-Flow Balancing valve
- Auto Shut-Off Control valve
- Hose kits
- Geothermal Option
- Coated Air Coil for Formicary Corrosion Protection
- Air Filters

Check www.omega-heatpump.com for latest information.

Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA HRP SERIES
Omega Replacement Chassis

Performance Data

Omega Model	Replaces Omega Model	Refrig.	Size (Tons)	Nominal CFM	Cooling*		Heating*		Nominal GPM	WPD	
					BTUH[1]	EER[1]	BTUH[2]	COP[2]		PSI	FT
RPC-OM-HRP-020	HRP-020	R-410A	1/2	200	5,800	12.2	7,200	4.3	1.5	1.7	4
RPC-OM-HRP-030	HRP-030	R-410A	3/4	350	8,900	12.5	11,900	4.6	2.5	4.8	11
RPC-OM-HRP-040	HRP-040	R-410A	1	460	11,600	13.7	14,700	4.7	3.0	4.8	11
RPC-OM-HRP-050	HRP-050	R-410A	1 1/4	530	15,100	15.5	17,200	4.8	4.0	6.2	14
RPC-OM-HRP-060	HRP-060	R-410A	1 1/2	630	17,900	14.5	22,500	4.5	4.5	8.7	20
RPC-OM-HRP-080	HRP-080	R-410A	2	820	22,000	13.3	29,500	4.4	6.0	4.4	10
RPC-OM-HRP-100	HRP-100	R-410A	2 1/2	1010	26,400	13.0	36,000	4.3	7.0	5.6	13
RPC-OM-HRP-120	HRP-120	R-410A	3	1200	36,000	12.8	46,700	4.2	9.0	8.0	18

* 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.

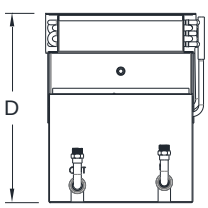
Dimensional Data

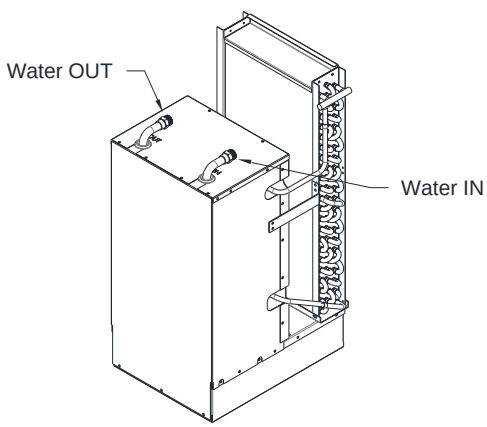
Omega Model	Cabinet Size	Dimensions (inches)				Water Connection (in)		Weight (lbs.)
		A	B	C	D	Outlet	Inlet	
RPC-OM-HRP-020	X	11 1/8	22	16 1/4	15	1/2 NH	1/2 NH	57
RPC-OM-HRP-030		11 1/8	22	27 3/8	15	1/2 NH	1/2 NH	67
RPC-OM-HRP-040						1/2 NH	1/2 NH	72
RPC-OM-HRP-050	Y	13 1/4	22 1/4	28 1/4	18	1/2 NH	1/2 NH	93
RPC-OM-HRP-060						1/2 NH	1/2 NH	95
RPC-OM-HRP-080	Z	17 1/8	23 3/8	29 1/4	22 1/4	3/4 NH	3/4 NH	138
RPC-OM-HRP-100						3/4 NH	3/4 NH	140
RPC-OM-HRP-120						3/4 NH	3/4 NH	150

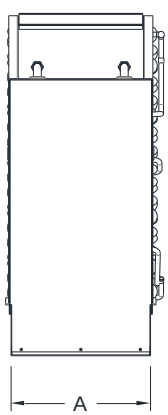
Electrical Data

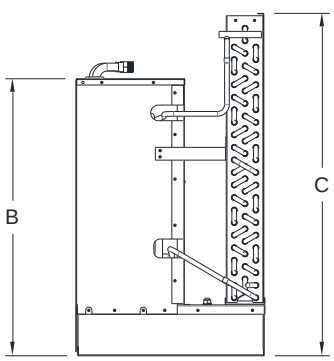
MODEL	Compressor Type	Supply Voltage	Compressor			
			QTY		RLA	LRA
RPC-OM-HRP-020	**Rotary**	208-230/1/60	1	@	3.0	15.0
RPC-OM-HRP-030	**Rotary**	208-230/1/60	1	@	3.7	22.0
RPC-OM-HRP-040	**Rotary**	208-230/1/60	1	@	4.7	25.0
RPC-OM-HRP-050	**Rotary**	208-230/1/60	1	@	5.6	26.0
RPC-OM-HRP-060	**Rotary**	208-230/1/60	1	@	7.4	33.0
RPC-OM-HRP-080	**Scroll**	208-230/1/60	1	@	10.9	62.9
RPC-OM-HRP-100	**Scroll**	208-230/1/60	1	@	13.5	72.5
RPC-OM-HRP-120	**Scroll**	208-230/1/60	1	@	15.4	83.9

VERIFY EXISTING ELECTRICAL SERVICE IS ADEQUATE FOR NEW REPLACEMENT CHASSIS









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Customer Support
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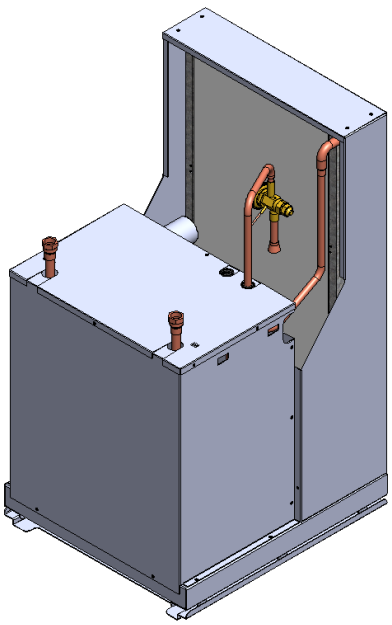
OMEGA VSCS SERIES

Johnson Controls VSCS Replacement Chassis



Omega VSCS replacement chassis unit is an ideal replacement and upgrade for the Johnson Controls VSCS chassis units. The chassis is a direct drop-in for a fast, simple and easy installation.

The Omega VSCS unit features modern components and chassis noise cancelling base 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 VSCS chassis is dimensionally identical to old Johnson Controls VSCS unit for a quick and easy installation. Chassis comes with plug-n-play harness for quick connection to existing electrical box avoiding wire cutting modifications. Water connections are available with adapter kits to match various existing hose and cabinet connections for a seamless transition.

SAFETY

Replacement chassis comes standard with high-pressure and low-pressure safety switches, and freeze stat to protect unit from unwanted operating conditions such as air-flow blockages, water flow disruptions, and motor failures.

COMFORT & RELIABILITY

Quiet and reliable operation from the use of quality components and construction. Built-in noise cancelling features ensures silent unit operation. High-efficient compressors and thermostatic expansion valve (TXV) for optimal operation. All new Omega units comes with our standard 1 year parts and 5 year compressor warranty.

STANDARD FEATURES

- Factory charged and tested
- High efficiency compressors
- High and Low-Pressure safety switches
- Freeze Protection sensor
- Double Isolated Compressor Base
- Thermal Expansion Valve (TXV) & Filter Drier
- R-410A Environmentally friendly refrigerant
- Stainless Steel Drain Pan
- Refrigerant service access ports
- Heavy gauge galvanized sheet metal
- 1 Year Parts and 5 Year Compressor Warranty

OPTIONS & ACCESSORIES

- Thermostat
- Auto-Flow Balancing valve
- Auto Shut-Off Control valve
- Geothermal Option
- Coated Air Coil for Formicary Corrosion Protection
- Air Filters
- Hose Connection Adapters

Check www.omega-heatpump.com for latest information.

Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA VSCS SERIES

Johnson Controls VSCS Replacement Chassis

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-JC-VCS-030	R-410A	3/4	310	9,900	12.6	14,100	4.4	2.5	4.3	10
RPC-JC-VCS-040	R-410A	1	475	13,000	13.3	16,600	4.4	3.0	4.5	10
RPC-JC-VCS-050	R-410A	1 1/4	525	14,500	13.0	17,400	4.3	4.0	4.9	11
RPC-JC-VCS-060	R-410A	1 1/2	600	17,600	12.1	22,600	4.2	4.5	5.1	12

* 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.

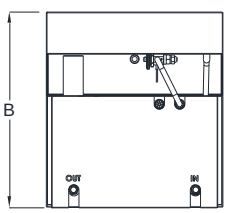
Dimensional Data

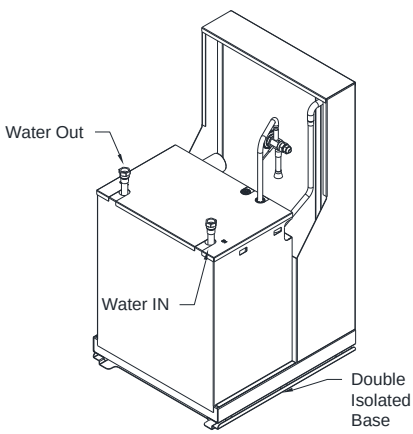
Omega Model	Dimensions (inches)					Water Connection		Weight (lbs.)
	A	B	C	D	E	Outlet	Inlet	
RPC-JC-VCS-030	14 1/4	16 1/8	33 3/4	3 3/8	22 3/4	1/2 FPT	1/2 FPT	70
RPC-JC-VCS-040	14 1/4	16 1/8	33 3/4	3 3/8	22 3/4	1/2 FPT	1/2 FPT	75
RPC-JC-VCS-050	17 1/4	19 1/8	32 1/4	4 1/4	21 1/8	1/2 FPT	1/2 FPT	85
RPC-JC-VCS-060	17 1/4	19 1/8	32 1/4	4 1/4	21 1/8	1/2 FPT	1/2 FPT	100

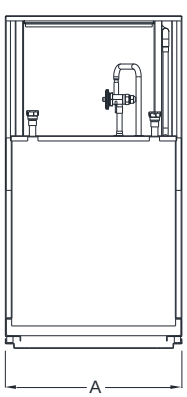
Electrical Data

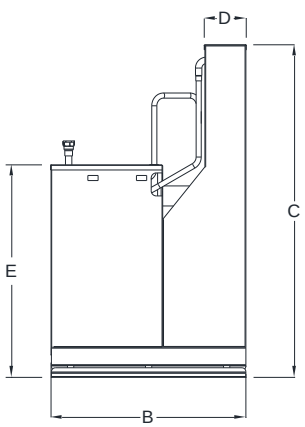
MODEL	Compressor Type	Supply Voltage	Compressor			
			QTY		RLA	LRA
RPC-JC-VCS-030	Rotary	208-230/1/60	1	@	3.7	22.0
RPC-JC-VCS-040	Rotary	208-230/1/60	1	@	4.7	25.0
RPC-JC-VCS-050	Rotary	208-230/1/60	1	@	5.6	29.0
RPC-JC-VCS-060	Rotary	208-230/1/60	1	@	7.4	33.0

VERIFY EXISTING ELECTRICAL SERVICE IS ADEQUATE FOR NEW REPLACEMENT CHASSIS









Due to a continuous product improvement policy, dimensions and performance data are subject to change without notice.
Check www.omega-heatpump.com for latest information.

Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA VF SERIES
Singer/McQuay VF Replacement Chassis

Omega VF replacement units 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 with a host of safety features to protect unit from unwanted operating conditions: high-pressure and low-pressure safety switches, water temperature sensing for pre-emptive detection of water flow issues, and condensate overflow switch to protect against water leaks into occupant suite.

COMFORT & RELIABILITY

Quiet and reliable operation from the use of quality components and construction. High-efficiency compressor ensures silent and reliable unit operation. Advanced microprocessor controller continuously monitors operation of the unit for fault-free start-ups and optimal operation. All new Omega units comes with our standard 1 year parts and 5 year compressor warranty.

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 Environmentally friendly 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
- Coated Air Coil for Formicary Corrosion Protection
- Air Filters
- Return Air Panel to match original Singer/McQuay panel

Check www.omega-heatpump.com for latest information.

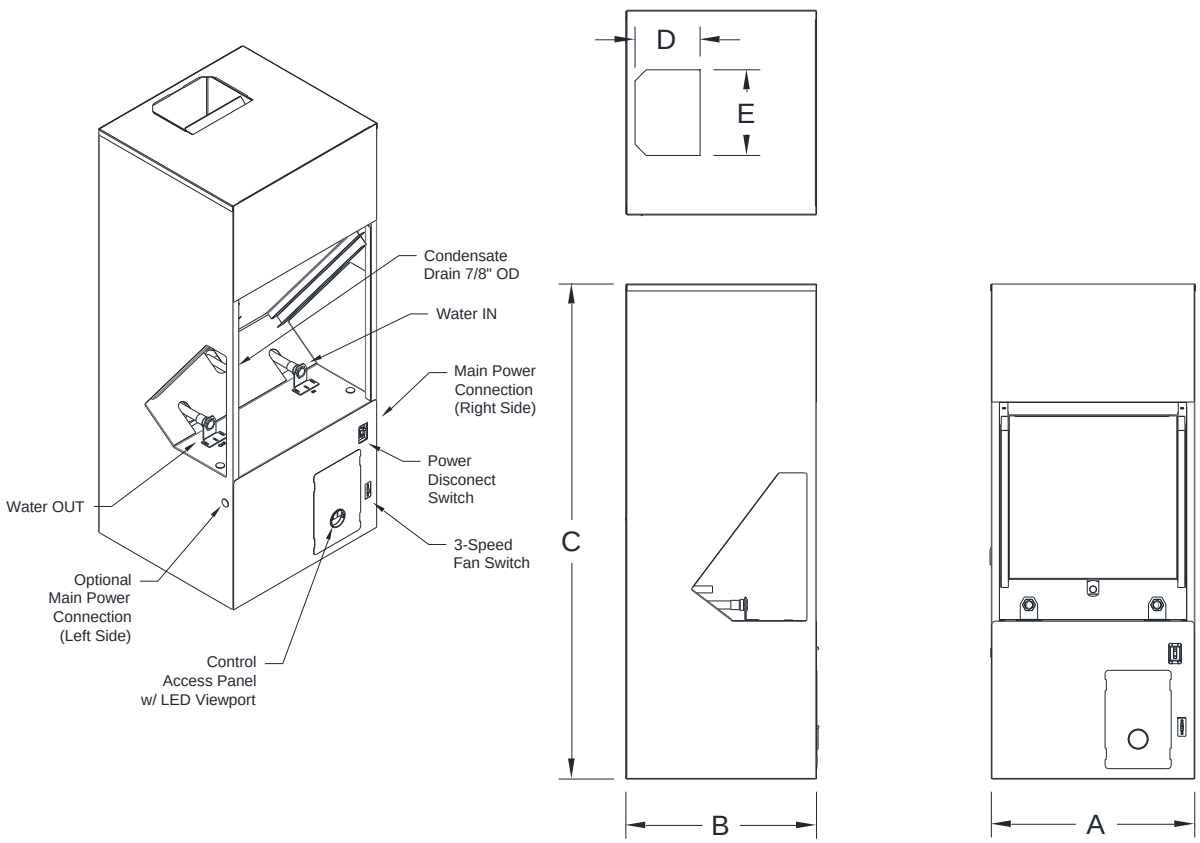
Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA VF SERIES
Singer/McQuay VF Replacement Chassis

Performance Data

Omega Model	Refrig.	Size (Tons)	CFM	Cooling*		Heating*		GPM	Water Pressure Drop	
				BTUH[1]	EER[1]	BTUH[2]	COP[2]		PSI	FT
RPC-MC-VF-030	R-410	3/4	350	9400	12.5	11300	4.3	2.5	4.8	11
RPC-MC-VF-040	R-410	1	420	11500	12.2	13800	4.3	3.0	4.8	11
RPC-MC-VF-060	R-410	1 1/2	600	17000	12.2	21200	4.3	4.5	7.8	18
RPC-MC-VF-070	R-410	1 3/4	700	20200	12.2	25500	4.3	5.0	8.2	19
RPC-MC-VF-080	R-410	2	820	23500	12.3	29800	4.3	6.0	4.4	10
RPC-MC-VF-100	R-410	2 1/2	1020	29300	12.2	37700	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.



Dimension Data

Omega Model	Frame Size	Dimensions (inches)					Water Connection (in)		Chassis Weight (lbs.)
		A	B	C	D	E	Inlet	Outlet	
RPC-MC-VF-030	**Small**	18 1/8	15	46 1/2	7	8 1/4	1/2 FPT	1/2 FPT	135
RPC-MC-VF-040	**Small**	18 1/8	15	46 1/2	7	8 1/4	1/2 FPT	1/2 FPT	140
RPC-MC-VF-060	**Small**	18 1/8	15	46 1/2	7	8 1/4	1/2 FPT	1/2 FPT	160
RPC-MC-VF-070	**Small**	18 1/8	15	46 1/2	7	8 1/4	1/2 FPT	1/2 FPT	180
RPC-MC-VF-080	**Large**	22	20 5/8	53 1/2	7	12	3/4 FPT	3/4 FPT	205
RPC-MC-VF-100	**Large**	22	20 5/8	53 1/2	7	12	3/4 FPT	3/4 FPT	205

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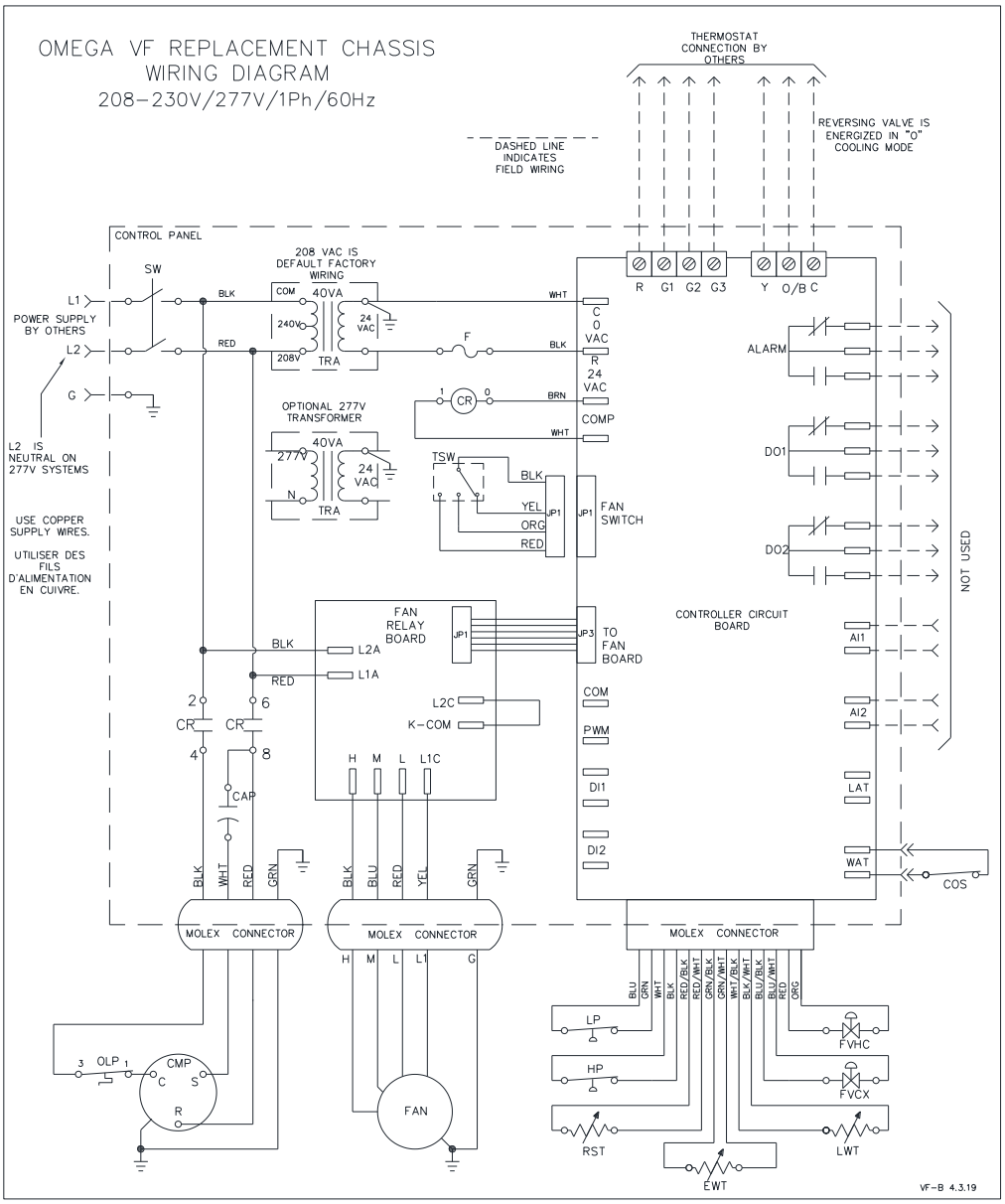
Check www.omega-heatpump.com for latest information.

Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA VF SERIES
Singer/McQuay VF Replacement Chassis

Wiring Schematic



CMP	-	Compressor
COS	-	Condensate Overflow Switch
CR	-	Contactor Relay
EWT	-	Entering Water Temp. Sensor
LWT	-	Leaving Water Temp. Sensor
F	-	Fuse
FVCX	-	Auto Shut-Off Valve
FVHC	-	Reversing Valve
HP	-	High Pressure Switch
LP	-	Low Pressure Switch
L1	-	Power Line 1
L2	-	Power Line 2
OLP	-	Thermal Overload Switch
SW	-	Power Disconnect
RST	-	Refrigerant Suction Temp. Sensor
TB	-	Terminal Block
TRA	-	Transformer
TSW	-	Three Speed Fan Switch

Electrical Data

Omega Model	Compressor Type	Voltage	Compressor		Fan Motor (PSC)		Total Unit FLA	Max Fuse/Circuit Breaker
			RLA	LRA	HP	FLA		
RPC-MC-VF-030	Rotary	208-230/1/60	3.7	22.0	1/10	0.7	4.4	15
RPC-MC-VF-040	Rotary	208-230/1/60	4.7	25.0	1/10	0.7	5.4	15
RPC-MC-VF-060	Rotary	208-230/1/60	7.4	33.0	1/4	2.0	9.4	15
RPC-MC-VF-070	Rotary	208-230/1/60	8.3	44.0	1/4	2.0	10.3	20
RPC-MC-VF-080	Scroll	208-230/1/60	9.5	43.0	1/3	2.8	12.3	20
RPC-MC-VF-100	Scroll	208-230/1/60	13.5	72.5	1/3	2.8	16.3	30

VERIFY EXISTING ELECTRICAL SERVICE IS ADEQUATE FOR NEW REPLACEMENT CHASSIS

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Check www.omega-heatpump.com for latest information.

Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA VI SERIES
Whalen VI Replacement Chassis

Omega VI replacement chassis unit is an ideal replacement and upgrade for the old Whalen VI unit. The chassis is a direct-drop in for a fast, simple and easy installation.

The Omega replacement chassis features modern components and chassis noise cancelling base 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 VI chassis is dimensionally identical to old Whalen VI unit for a quick and easy installation. Chassis comes with plug-n-play *harness for quick connection to existing electrical box avoiding wire cutting modifications. Water connections match existing cabinet connections for a seamless transition.

SAFETY

Replacement chassis comes standard with high-pressure and low-pressure safety switches to protect unit from unwanted operating conditions such as air-flow blockages, water flow disruptions, and motor failures. A lock-out relay prevents 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 compressor base ensures 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.

*Only Whalen 6 Pin configuration with low-voltage controls.

STANDARD FEATURES

- Factory charged and tested
- High efficiency compressors
- High-Pressure and Low-Pressure safety switches
- Double Isolated Compressor Base
- Thermostatic Expansion Valve (TXV) & Filter Drier
- R-410A Environmentally friendly refrigerant
- Stainless Steel Drain Pan
- Refrigerant service access ports
- Heavy gauge galvanized sheet metal
- 1 Year Parts and 5 Year Compressor Warranty
- 1/2 inch hose connections

OPTIONS & ACCESSORIES

- Thermostat
- Auto-Flow Balancing valve
- Auto Shut-Off Control valve
- Geothermal Option
- Coated Air Coil for Formicary Corrosion Protection
- Air Filters

OMEGA VI SERIES
Whalen VI Replacement Chassis

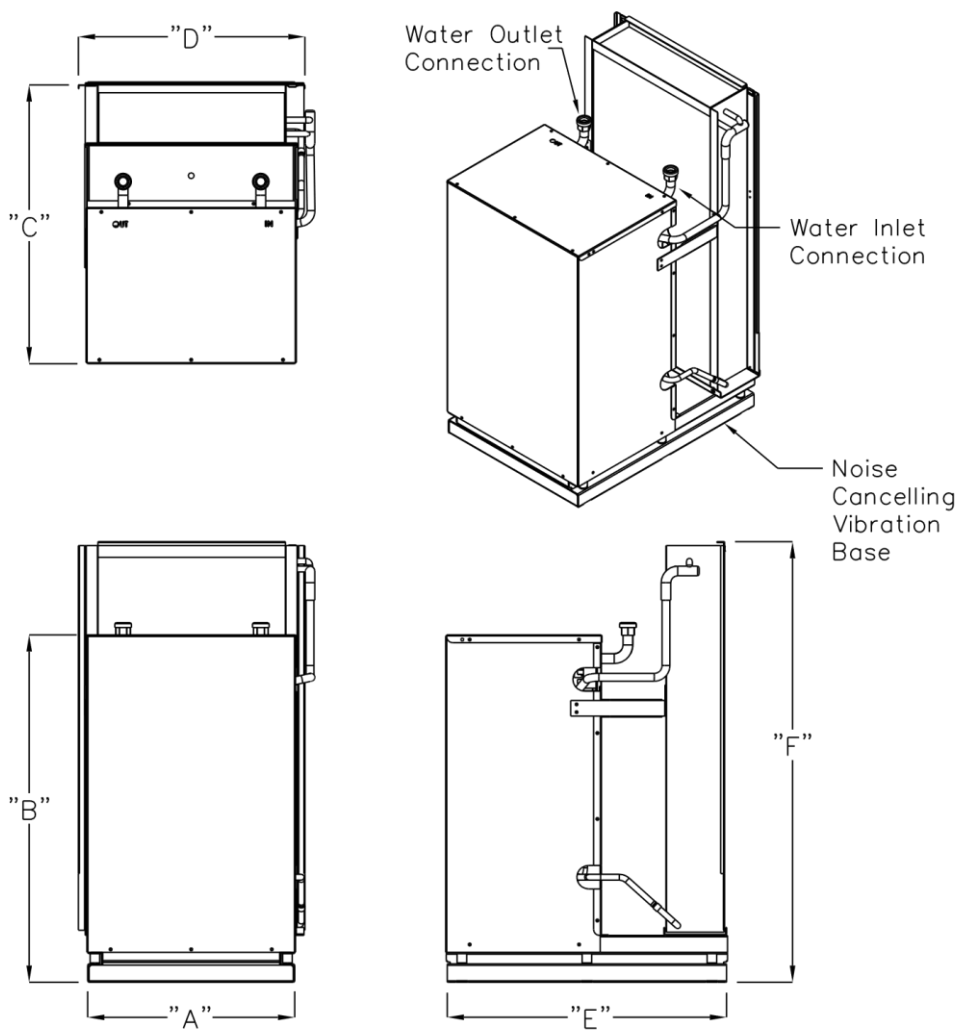
Performance Data

Omega Model	Refrig.	Size (Tons)	Nominal CFM	Cooling*		Heating*		Nominal GPM	WPD	
				BTUH[1]	EER[1]	BTUH[2]	COP[2]		PSI	FT
RPC-WH-VIA-030	R-410A	3/4	310	9,900	12.6	14,100	4.4	2.5	4.3	10
RPC-WH-VIA-040	R-410A	1	475	13,000	13.3	16,600	4.4	3.0	4.5	10
RPC-WH-VIA-060	R-410A	1 1/2	600	17,600	12.1	22,600	4.2	4.5	5.1	12

* 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	F	Outlet	Inlet	
RPC-WH-VIA-030	11 1/8	21 1/4	15	12 3/8	15	22	1/2 HA	1/2 HA	70
RPC-WH-VIA-040	11 1/8	21 1/4	15	12 3/8	15	24	1/2 HA	1/2 HA	75
RPC-WH-VIA-060	13 1/4	23 3/8	18	14 1/2	17 7/8	25	1/2 HA	1/2 HA	100



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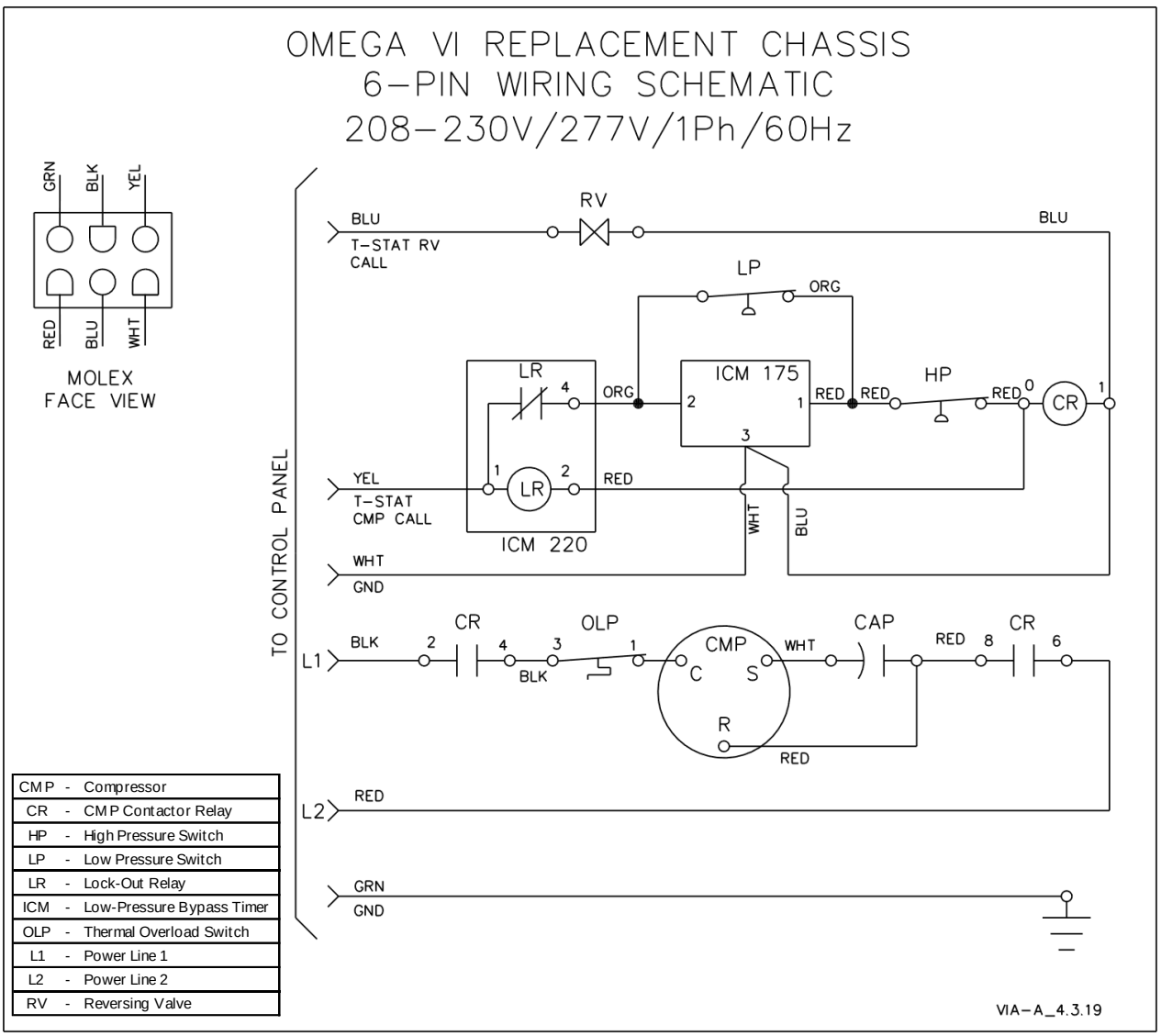
Check www.omega-heatpump.com for latest information.

Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

Wiring Schematic: Whalen 6 Pin Harness



CMP	-	Compressor
CR	-	CMP Contactor Relay
HP	-	High Pressure Switch
LP	-	Low Pressure Switch
LR	-	Lock-Out Relay
ICM	-	Low-Pressure Bypass Timer
OLP	-	Thermal Overload Switch
L1	-	Power Line 1
L2	-	Power Line 2
RV	-	Reversing Valve

Electrical Data

Omega Model	Compressor Type	Supply Voltage	Compressor QTY	RLA	LRA
RPC-WH-VIA-030	**Rotary**	208-230/1/60	1 @	3.7	22.0
RPC-WH-VIA-040	**Rotary**	208-230/1/60	1 @	4.7	25.0
RPC-WH-VIA-060	**Rotary**	208-230/1/60	1 @	7.4	33.0

VERIFY EXISTING ELECTRICAL SERVICE IS ADEQUATE FOR NEW REPLACEMENT CHASSIS

Low-Pressure bypass timer will bypass the low-pressure switch at unit start-up for first 3 minutes to avoid nuisance low-pressure trips.

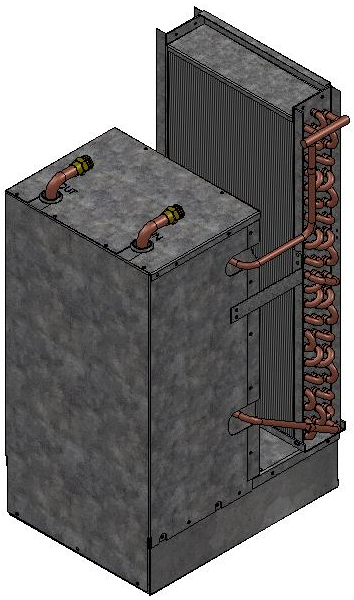
HEAT/COOL Heat Pump Thermostat with compressor anti-short cycle time delay is required. Time delay setting of 6 minutes is recommended.

Reversing valve (RV) is energized in cooling mode (fails to heating mode).

Due to a continuous product improvement policy, dimensions and performance data are subject to change without notice.
Check www.omega-heatpump.com for latest information.

Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA VSHP SERIES
Omega VSHP Replacement Chassis



Omega VSHP replacement chassis is the ideal replacement for Omega's VSHP units. The chassis unit is our OEM direct drop-in allowing for a fast, simple and easy installation.

The Omega unit features modern components and works seamlessly with the existing advanced microprocessor controller providing the user with silent, energy efficient, and reliable year-round operation.

Factory tested and fully charged with R-410A makes Omega the preferred replacement option.

QUICK & EASY

Omega VSHP replacement chassis units are dimensionally identical to existing unit for a quick and easy installation. Simply remove old chassis, and slide in new Omega chassis. All connections are plug-n-play with no wiring modifications required. Water connections match existing cabinet and hose connections for a seamless transition.

SAFETY

Replacement chassis comes standard with a host of safety features to protect unit from unwanted operating conditions: high-pressure and low-pressure safety switches to shut down unit before damage can occur and water temperature sensing for pre-emptive detection of water flow issues.

COMFORT & RELIABILITY

Quiet and reliable operation from the use of quality components and construction. High-efficiency compressor ensures silent and reliable operation. Unit integrates with existing advanced microprocessor controller and continuously monitors operation of the unit for fault-free start-ups and optimal operation. All new Omega units come with our standard 1 year parts and 5 year compressor warranty.

STANDARD FEATURES

- Factory charged and tested
- High efficiency compressors
- Microprocessor Controller Compatible
- High and Low-Pressure safety switches
- Freeze Protection sensor
- Entering & Leaving Water Temperature sensors
- Thermal Expansion Valve (TXV) & Filter Drier
- R-410A Environmentally friendly refrigerant
- Stainless Steel Drain Pan
- Refrigerant service access ports
- Heavy gauge galvanized sheet metal
- 1 Year Parts and 5 Year Compressor Warranty

OPTIONS & ACCESSORIES

- Thermostat
- Auto-Flow Balancing valve
- Auto Shut-Off Control valve
- Hose kits
- Geothermal Option
- Coated Air Coil for Formicary Corrosion Protection
- Air Filters

Check www.omega-heatpump.com for latest information.

Customer Support
Ph. 905.670.2269
Fax: 905.670.3822

OMEGA VSHP SERIES
Omega VSHP Replacement Chassis

Performance Data

Omega Model	Replaces Omega Model	Refrig.	Size (Tons)	Nominal CFM	Cooling*		Heating*		Nominal GPM	WPD	
					BTUH[1]	EER[1]	BTUH[2]	COP[2]		PSI	FT
RPC-OM-VSHP-020	VSHP-020	R-410A	1/2	200	5,800	12.2	7,200	4.3	1.5	1.7	4
RPC-OM-VSHP-030	VSHP-030	R-410A	3/4	350	8,900	12.5	11,900	4.6	2.5	4.8	11
RPC-OM-VSHP-040	VSHP-040	R-410A	1	460	11,600	13.7	14,700	4.7	3.0	4.8	11
RPC-OM-VSHP-050	VSHP-050	R-410A	1 1/4	530	15,100	15.5	17,200	4.8	4.0	6.2	14
RPC-OM-VSHP-060	VSHP-060	R-410A	1 1/2	630	17,900	14.5	22,500	4.5	4.5	8.7	20
RPC-OM-VSHP-080	VSHP-080	R-410A	2	820	22,000	13.3	29,500	4.4	6.0	4.4	10
RPC-OM-VSHP-100	VSHP-100	R-410A	2 1/2	1010	26,400	13.0	36,000	4.3	7.0	5.6	13
RPC-OM-VSHP-120	VSHP-120	R-410A	3	1200	36,000	12.8	46,700	4.2	9.0	8.0	18

* 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.

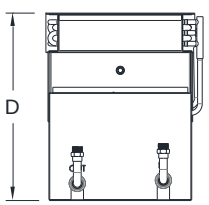
Dimensional Data

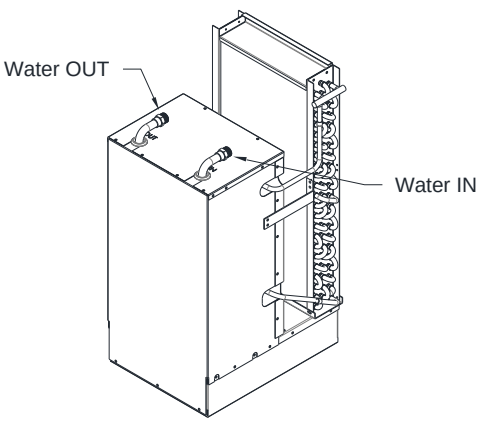
Omega Model	Cabinet Size	Dimensions (inches)				Water Connection (in)		Weight (lbs.)
		A	B	C	D	Outlet	Inlet	
RPC-OM-VSHP-020	X	11 1/8	22	16 1/4	15	1/2 NH	1/2 NH	57
RPC-OM-VSHP-030		11 1/8	22	27 3/8	15	1/2 NH	1/2 NH	67
RPC-OM-VSHP-040						1/2 NH	1/2 NH	72
RPC-OM-VSHP-050	Y	13 1/4	22 1/4	28 1/4	18	1/2 NH	1/2 NH	93
RPC-OM-VSHP-060						1/2 NH	1/2 NH	95
RPC-OM-VSHP-080	Z	17 1/8	23 3/8	29 1/4	22 1/4	3/4 NH	3/4 NH	138
RPC-OM-VSHP-100						3/4 NH	3/4 NH	140
RPC-OM-VSHP-120						3/4 NH	3/4 NH	150

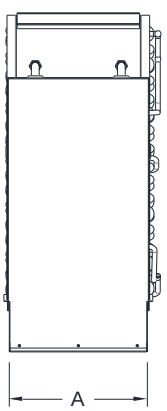
Electrical Data

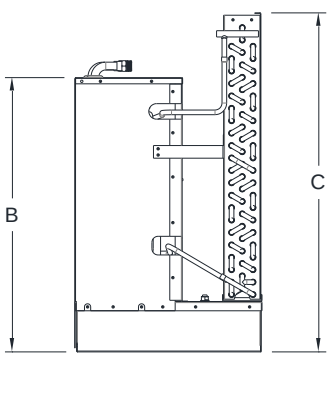
MODEL	Compressor Type	Supply Voltage	Compressor			
			QTY		RLA	LRA
RPC-OM-VSHP-020	**Rotary**	208-230/1/60	1	@	3.0	15.0
RPC-OM-VSHP-030	**Rotary**	208-230/1/60	1	@	3.7	22.0
RPC-OM-VSHP-040	**Rotary**	208-230/1/60	1	@	4.7	25.0
RPC-OM-VSHP-050	**Rotary**	208-230/1/60	1	@	5.6	26.0
RPC-OM-VSHP-060	**Rotary**	208-230/1/60	1	@	7.4	33.0
RPC-OM-VSHP-080	**Scroll**	208-230/1/60	1	@	10.9	62.9
RPC-OM-VSHP-100	**Scroll**	208-230/1/60	1	@	13.5	72.5
RPC-OM-VSHP-120	**Scroll**	208-230/1/60	1	@	15.4	83.9

VERIFY EXISTING ELECTRICAL SERVICE IS ADEQUATE FOR NEW REPLACEMENT CHASSIS









Due to a continuous product improvement policy, dimensions and performance data are subject to change without notice.
Check www.omega-heatpump.com for latest information.

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