

# PLATINUM<sup>®</sup>

## OWNER'S MANUAL

### *SECTION 5*

### HVAC & PLUMBING SYSTEMS

#### Section 5 - HVAC & Plumbing

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# FURNACE (L.P.G.)

Refer to the following chart for the location of your Furnace:

<u>Model</u>	<u>Placement</u>
220	Under the Galley
261 XL (Twin Bed)	Under the Galley
261 XL (Sleeper Sofa)	Under the Dinette
271 XL	Under the Lounge Chair
272 XL	Under the Lounge Chair

The furnace is controlled by the Firefly Control Panel which also controls the air conditioning system. The furnace blower and automatic ignition are powered by the 12 volt DC system. The manufacturers operating instructions, contained in the Instruction Kit at the end of this manual, should be reviewed before using the furnace. As with all L.P. Gas appliances, all precautionary notes and labels should be carefully reviewed for maximum safety and comfort. (See Section 4)



See owners booklet in the Information Kit in the back of this Owners Manual.

**NOTE: Be sure to set the fan on the AC to “AUTO” when running the furnace otherwise the AC fan will run.**

# AIR CONDITIONER HEAT PUMP

The air conditioner/heat pump for your Coach House PLATINUM is manufactured specifically for RV use and is located in the center of the motor home on the roof with outlets in the ceiling. The AC/Heat Pump is controlled by the Firefly Control Center.

The air conditioner operates on the 120 volt A/C system and will operate only when the external power cord is connected to a power source or when the generator is operating.



See owners booklet in the Information Kit in the back of this Owners Manual.

# FAN-TASTIC ROOF VENT FAN

There are two (2) Fan-Tastic Vent roof fans in your Platinum Motorhome. One is located towards the front near the gallery, and one is located towards the rear near the bathroom. (Exact locations will vary by floor plan)

The roof vent fans are located in the ceiling and are operated by the Firefly Control Panel. Cranking up the fan covers is also controlled by the Firefly Control Panel, but can be done manually if necessary. The 12-volt DC system powers the fans. The fans have an automatic rain sensor.

Coach House does not use Fan-Tastic Vents with the 'Reverse' feature. For your safety, this eliminates the unlikely event that noxious fumes could permeate your motorhome while unattended, or while you are sleeping. Please disregard any reference to the 'Reverse' feature in literature from Fan-Tastic Vents.



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## VENTLINE VANAIR

### BATHROOM ROOF VENT

NOTE: Not all floor plans have this fan.



Ventline Vanair Trailer Roof Vent w/ 12V Fan VP-543SP

Rounded, plastic vent cover opens and closes with a simple push on the handle.

# WATER PUMP/GRAVITY FILL

**Location:** The water pump is located in the bed base on the passenger's side.

When parked where a city or R.V. park water supply is available, the motor home should be connected by using a hose connected to the city water connection. The water pump should not be used when the motor home is connected to city water. The Coach House has a potable water tank with a 12-volt DC demand pump connected to the system. The demand pump is controlled by the Firefly Control Panel. The pump should only be turned on when water is needed from the potable holding tank. Do NOT operate the pump dry or when there is no water in the potable water tank.



Drain valves are supplied on the potable water tank and in the water system near the pump to allow draining the system to prevent freezing.

**NOTE:** The water pump has a filter located on its side and must be checked and cleaned occasionally.

**NOTE:** When winterizing, the pump must be drained.

The potable water fill is located on the side of the motor home behind the labeled door. The potable water tank can also be filled from city water pressure. Open a valve to fill fresh (potable) water tank - turn off when tank is full. The location of the valve (on all models) is inside exterior door - drivers side behind rear wheel.



# WATER HEATER



Ford E-450 models are equipped with a 120 volt a/c electric / motor aid water heater. The motor aid will automatically heat water when you drive the motor home. The radiator system of the engine helps to heat the water. The 120 volt electric heater can be used while the motor home is parked and hooked up to shore power, or the generator is running.

**Remember to only operate the water heater with water in the system.**

A lighted rocker switch is used to turn the water heater ON and OFF.



## Warranty Information:

Whale Customer Service  
2 Enterprise Road  
Bangor  
Co. Down  
BT19 7TA  
Northern Ireland  
+44(0)345 9090 911  
info@whalepumps.com



# OUTSIDE SHOWER ASSEMBLY

Coach House Motorhomes come with an outside shower assembly which provides hot and cold running water for outdoor applications.

## Specifications:

- Designed for use in a pressure regulated, portable water system with a maximum operating pressure of 40 psi.
- Maximum flow rate with the faucets fully opened - 2/5 GPM.
- DO NOT ALLOW TO FREEZE. (Do not overlook when winterizing)
- Do not connect directly to a high pressure residential water supply.



# SANITIZING THE POTABLE WATER SYSTEM



Potable water only. Sanitize, flush, and drain water tank before using. See below for instructions, care, and maintenance information. Failure to maintain tank may result in death or serious injury.

To assure complete sanitation of your potable water system, the following procedures are recommended for a new system, or for one that has not been used for a period of time, and for one which may have become contaminated.

- 1) Prepare a chlorine solution using one (1) gallon of water and one-quarter (1/4) cup of household bleach (2% sodium hypochlorite solution). With tank empty pour two (2) gallon of solution into the tank.
- 2) Complete filling of tank with fresh water. Operate all faucets to release trapped air. Pressurize the entire system with a pump, if available, and turn off pump.
- 3) Allow to stand for three (3) hours.
- 4) Drain and flush with fresh potable water.
- 5) To remove excessive chlorine taste or odor, which may remain, prepare a solution of one (1) quart vinegar to five (5) gallons of water and pour into tank. Allow solution to agitate in tank by vehicle motion (several days if possible)
- 6) Drain tank and flush with fresh potable water.



# HOW TO WINTERIZE

## Blow Dry Method

- 1) Empty and thoroughly rinse both the black and gray waste holding tanks at a sanitary dump station.
- 2) Drain the fresh water tank. The fresh water tank drain is accessible inside an access panel located on the driver side behind the wheel well
- 3) Drain all water lines. Drain valves are located behind a hinged panel on the rear of the driver's side of motor home. Be sure to drain shower, toilet and all faucets. If a water purifier or filter is in line, remove the cartridge. Close all faucets.
- 4) Install an R.V. "Blow Out Plug" on your city water inlet. These plugs are inexpensive and are available at R.V. Parts stores or Home Improvement stores (Lowe's, Home Depot)



R.V. Blow Out Plug

- 5) Set your air compressor to 30 psi, and start blowing air into the water inlet. While your compressor is blowing air into your water lines, walk around your RV and open up water valves, one at a time, to blow the water out from the lines. When the water has been blown out then close the valve and move on to the next water opening. Remember to flush the toilet. Don't forget the shower head and the outside shower if you have one. Don't forget to open up both the hot water line and the cold water line. Once you have done each and every fixture in the rig, you should have most of the water out of your freshwater system. Remove the air source and bleed off any remaining pressure by opening a faucet.
- 6) At this point, your RV has been winterized.

## RV Antifreeze method

If you wish to absolutely make sure your water lines are protected you can perform the following. The reason for putting antifreeze through your lines is in case any water

# HOW TO WINTERIZE (CON'T)

collects at low levels of your water lines and freezes. This could be enough to rupture a line. Putting RV antifreeze through your lines will eliminate this from being an issue.

**NOTE: Be sure to use RV Antifreeze. NOT automotive radiator antifreeze.**



1) Your water heater is equipped with a bypass valve. Drain the water from the water heater and set the valves for the “bypass” position.

1) Pour 2-3 Gallons of RV antifreeze in the City Water Fill inlet which is located on the passenger side of your motorhome.

2) Turn on the R.V. water pump which will pull the antifreeze out of the fresh water tank and into the system. Open each fixture, allowing it to flow until you see pure antifreeze. Monitor the level in the antifreeze bottle and make sure it doesn't run dry. Remember to flush the toilet and operate the toilet sprayer if installed. Don't forget the shower head and the outside shower if you have one. Once you have done each and every fixture in the rig, you should have protection against freezing pipes in your water system.

3) Once you have the RV parked in it's final storage spot for the winter, pour some RV antifreeze down each drain to protect the trap. Open the toilet flush valve and allow about one quart (4 cups) of antifreeze to flow into the black water tank. Close the toilet flush valve and pour a little antifreeze into the toilet bowl. Pour about one quart (4 cups) down the shower drain to flow into the grey water tank.

4) NOTE: Your water heater has specific winterizing instructions. Refer to the manual in the INFORMATION KIT for complete instructions.

# R.V. TOILET

Based on the model of your **PLATINUM** motorhome, we have installed either a gravity flush toilet, or an electronic flush TECMA macerator toilet. Both toilets are manufactured by the Thetford Corporation.

<u>Model</u>	<u>Installed Toilet</u>
220	Tecma Macerator
261 XL (Twin Bed)	Gravity Flush
261 XL (Sleeper Sofa)	Gravity Flush
271 XL	Gravity Flush
272 XL	Gravity Flush



When using the toilet, either the water demand pump should be turned on (water pump switch is on the Firefly Panel located above the lavatory sink cabinet) or the city water connection made and pressurized to assure a water supply to the toilet.

## Gravity Flush

The gravity flush toilet in the Coach House is connected directly to a waste holding tank and has a water line routed to it for rinsing and flushing. There are separate levers on the side of the toilet for rinsing and flushing, and the instructions on the toilet should be followed for best results.

## Tecma Macerator

The Tecma toilet is electronically flushed and has different modes for liquid or solid waste. Consult the Tecma owner's manual for instructions. This toilet has a tank sensor which prevents operation if your black water tank is full. You will need to dump your holding tanks to operate the toilet when this situation occurs.

# BLACK AND GRAY WATER HOLDING TANKS

The connection for draining the holding tanks are located on the left side of the motor home. To drain the system, connect one end of an appropriate drain hose to the drain connection and the other end to a proper dump station. After the connections are made, opening the dump valve or valves can dump the system. The valves are located under the motor home on the driver's side rear and are labeled.

Dump the black water holding tank first, then dump the gray water holding tank.



## NOTE:

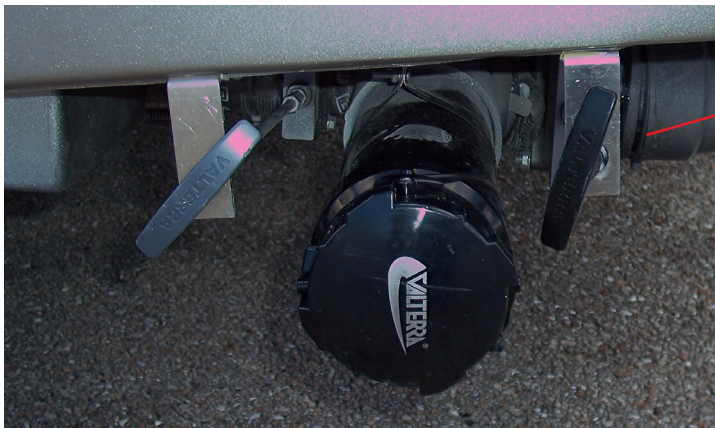
Do not leave the valve on the black water tank open when connected to a drain, The liquid will drain out leaving the solids to accumulate becoming very difficult to remove.

Do not dump the black water tank until it is over one-half full.

# BLACK WATER HOLDING TANK

## FLUSH SYSTEM

Drain the black water holding tank and leave valve open.



**Black Water  
Drain Valve**

Attach garden hose to the water inlet (located behind the utility access door behind the drivers side rear tires, black cap). Turn on water (from outside source) to spray the interior of the black water holding tank. Continue to leave drain valve open until flushed. Turn off water, disconnect hose and close valve.

### **NOTE:**

This panel is not the same on all models  
Look for the Black  
Water Hose Inlet on  
your panel.



NOTE: There is a backflow preventer which prevents the black water tank from contaminating the system when flushing with a hose. The back flow preventer is located in the driver's side rear corner of the bathroom behind a small removable panel.

# HEATED HOLDING TANKS

Heated Holding tanks are installed on your Coach House Platinum.

Manufactured by ULTRA HEAT INDUSTRIES, the tank heaters come in four sizes.

The larger tank heaters are equipped with a thermal sensor which will prevent the heaters from being activated unless the ambient air temperature is below 46 degrees Fahrenheit. This protection is to make sure your heaters do not come on inadvertently and “cook” the contents of your holding tanks.

ULTRA HEAT INDUSTRIES warrants tank heaters for a period of one year from the time of purchase and any failures should be reported directly to them at their factory.



See owners booklet in the Information Kit in the back of this Owners Manual.