



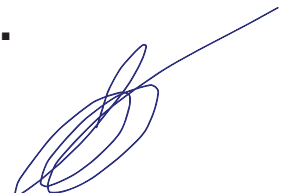
*Happier Camper*

## OWNER'S MANUAL 2016

**Congratulations on acquiring your HC1. You are now the proud owner of the most advanced recreational vehicle in the world with a modular interior and 100% fiberglass shell.**

**The enclosed information is provided to assist you with your new ultralight portable modular home. Please familiarize yourself with its contents so that you have solid confidence in the HC1's functionality.**

**We know you and your family will have many, many years of carefree, comfortable and safe enjoyment and we welcome you to our family of Happier Camper HC1 owners.**



# Happier Camper

## ULTRA-LIGHT TRAVEL AND UTILITY TRAILERS

\* Specifications and pricing subject to change



Retro-modern at heart, delivering affordable adventure and ground-breaking flexibility in an ultra-light package. Featuring our **Adaptiv™** modular interior for maximum utility and fun.

### FEATURES

- ULTRA-LIGHT 1100 LBS
- TOW WITH MOST STANDARD CARS
- 100% FIBERGLASS CONSTRUCTION IN & OUT
- ADAPTIV™ MODULAR INTERIOR
- LARGE REAR HATCH DOOR
- SLEEPS UP TO FIVE (6' 11" BED SPACE)
- RIGID FRAME W/BUILT-IN STABILIZERS
- INDEPENDENT TORSION AXLES / 13" WHEELS
- FITS IN A SINGLE PARKING SPACE

### SPECIFICATION

DRY WEIGHT	1100 LBS
TONGUE WEIGHT	110 LBS
FENDER TO FENDER	10'
EXTERIOR HEIGHT	7' 4"
OVERALL LENGTH	13'
INSIDE WIDTH	6' 6"
INSIDE WIDTH AT BED	6' 11"
INSIDE HEIGHT	6' 1"
GROSS VEHICLE WEIGHT RATING	3500 LBS
REAR HATCH OPENING	55" W x 54" H
WALKABLE FLOOR SPACE	42 SF

### CONFIGURATION PACKAGES

- BASIC
- BASIC SLEEPER
- FULLY EQUIPPED
- PREMIUM
- COMMERCIAL

### WARRANTY

WE ARE PROUD OF OUR PRODUCT AND WILL STAND BY OUR QUALITY AND WORKMANSHIP WITH A 3-YEAR WARRANTY. SEE WEBSITE FOR DETAILS.



### COLOR OPTIONS (LOWER HALF GEL-COAT FINISH)



### MODULAR INTERIOR

Our highly flexible **Adaptiv™** modular interior system allows you to easily customize your trailer on-the-fly to suit a variety of needs. From camping, to hauling, to guest quarters, create the layout you want in just minutes. Configuring and reconfiguring is a snap, and the possibilities are limitless. We have reimagined what is possible with an ultra-light.



LARGE REAR HATCH AND DOOR



ADAPTIV™ MODULAR INTERIOR



EASILY CONVERTS TO A MINI TOY-HAULER

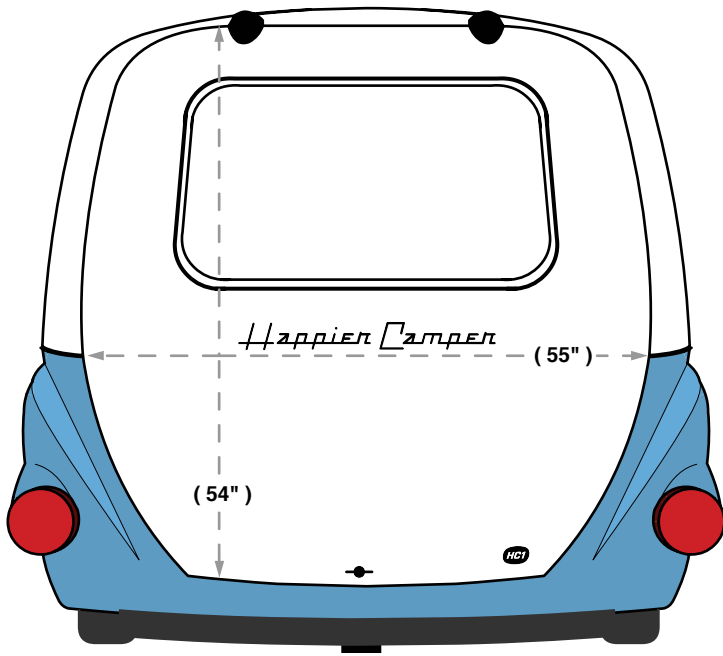
Designed and built in California USA



• contact us for updated pricing [sales@happiercamper.com](mailto:sales@happiercamper.com) • [www.hc1.info](http://www.hc1.info)

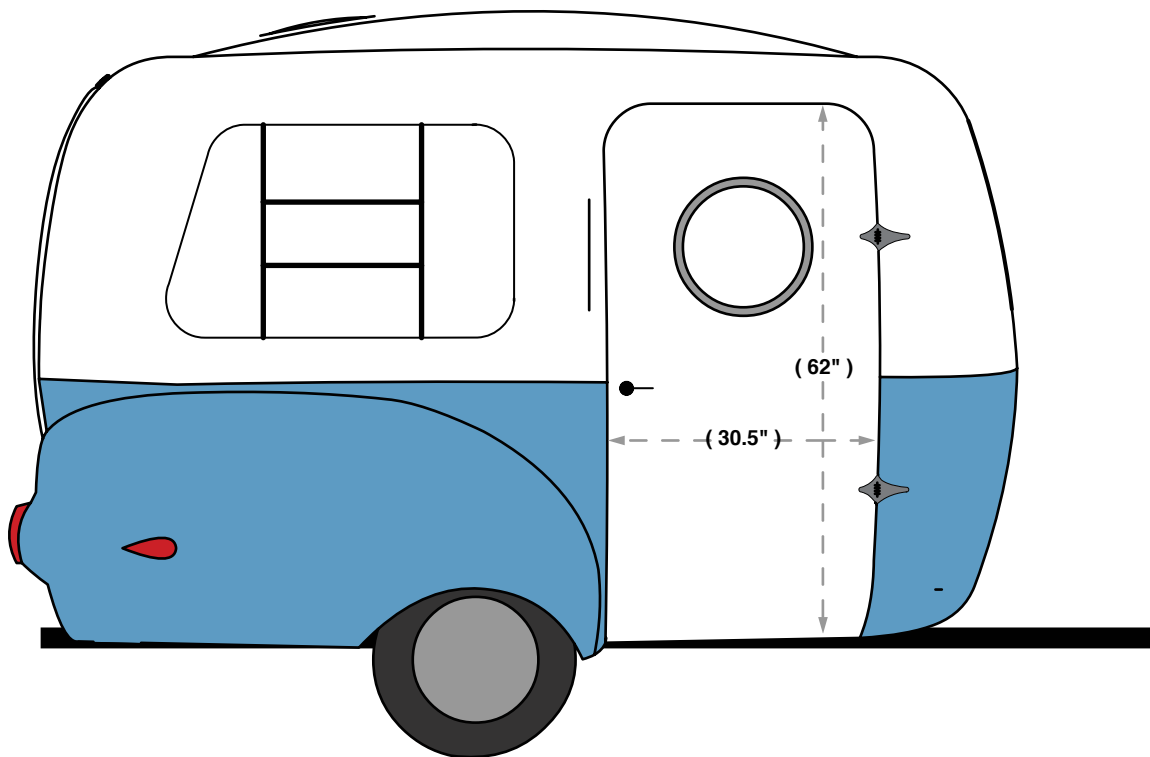
# MEASUREMENTS AND FEATURES

HC1



(6'6")  
(6'11")

- ULTRA-LIGHT 1100 LBS DRY WEIGHT
- TOW WITH MOST VEHICLES
- 100% TOUGH FIBERGLASS CONSTRUCTION
- ADAPTIV™ MODULAR PLATFORM
- LARGE REAR HATCH DOOR
- SLEEPS UP TO FIVE ACROSS 6' 11"
- 70SF with 42SF OF WALKABLE FLOOR SPACE
- STORAGE SPACE THROUGHOUT
- CUSTOM PRECISION COMPONENTS
- PANORAMIC JALOUSIE WINDOWS
- SOLAR-POWERED W/ CONTOURED PANEL
- RIGID FRAME W/BUILT-IN STABILIZERS
- INDEPENDENT TORSION AXLES / 13" WHEELS
- ADVANCED BATTERY AND ELECTRICAL COMPONENTS
- FITS IN A SINGLE PARKING SPACE & MOST GARAGES
- MODULAR UPGRADES WITH MANY OPTIONS AVAILABLE



(10')  
(13')

(6.1')  
(7.4')

\* Specifications and features subject to change

The HC1 is the result of a lifetime of enthusiasm and five years of careful design. An Adaptiv™ interior comes standard along with features like a huge rear hatch, wide entry door, classic wheel fenders, honeycomb fiberglass floor, and large panoramic windows.

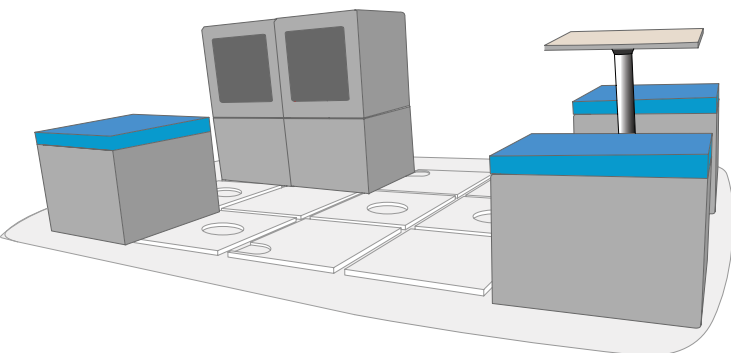
## EXTERIOR SHELL

100% DOUBLE HULL FIBERGLASS SHELL  
CUSTOM ENGRAVED DOOR HINGES  
FRONT ROCKGUARD AND PORTHOLE DOOR WINDOW  
PRECISION HARDWARE, LOCKS, AND COMPONENTS  
MARINE-QUALITY PARTS AND ACCESSORIES  
FULTON® HEAVY-DUTY FRONT WHEEL JACK

## INTERIOR SHELL

PANORAMIC JALOUSIE LEVER WINDOWS  
HONEYCOMB FIBERGLASS BASE  
ADAPTIV™ DYNAMIC INTERIOR  
PREMIUM STYLISH SNAPDOWN BLINDS  
NESTED SIDE-DOOR STORAGE  
PREMIUM SLIDING BLIND CLOSURES  
STAINLESS STEEL FLOOR DRAIN  
PERIMETER WALL STORAGE SPACE  
INTERIOR SHELL UPPER STORAGE SHELF  
5 RECESSED TABLE LEG MOUNTS  
6 HEAVY-DUTY RECESSED D-RING TIE DOWNS

## ADAPTIV™ MODULAR INTERIOR



## FRAME AND CHASSIS

STURDY REINFORCED TUBE FRAME  
BUILT-IN REAR STABILIZING JACKS  
SWIVEL-BACK TONGUE  
2" HITCH RECEIVER (SIDE AND REAR DOOR)  
TORSION AXLE INDEPENDENT SUSPENSION  
STANDARD ELECTRONIC BRAKING SYSTEM  
13" ALUMINUM WHEELS  
UNDERCARRIAGE 13" FULL-SIZED SPARE TIRE  
RETRACTABLE JACK WHEEL  
7-PIN WIRING HARNESS  
6 RECESSED D-RING TIE DOWN MOUNTS  
CUSTOM CURBSIDE FOOTSTEP

## ELECTRICAL AND LIGHTING

INDEPENDENT DIMMABLE LED LIGHTING  
LARGE 7" LED TAIL LIGHTS  
VINTAGE-INSPIRED TEARDROP REAR SIDE MARKERS  
EXTRA-BRIGHT LED FRONT MARKERS  
AGM MARINE BATTERY AND MOUNT  
AC-DC CONVERTER/BATTERY CHARGER/FUSE PANEL  
AC POWER DUAL WALL PLUGS W/ USB PLUG  
BUILT-IN DC POWER "CIGARETTE LIGHTER" PORTS  
MARINE-GRADE EXTERIOR AC POWER INLET

Our highly flexible Adaptiv™ modular interior system allows you to easily customize your trailer on-the-fly, to suit a variety of needs. From camping, to hauling, to guest quarters, create the layout you want in just minutes. Configuring and reconfiguring is a snap, and the possibilities are limitless.

## Table of Contents

Safety information

Chassis

Main Camper Assembly

Adaptiv™ Interior

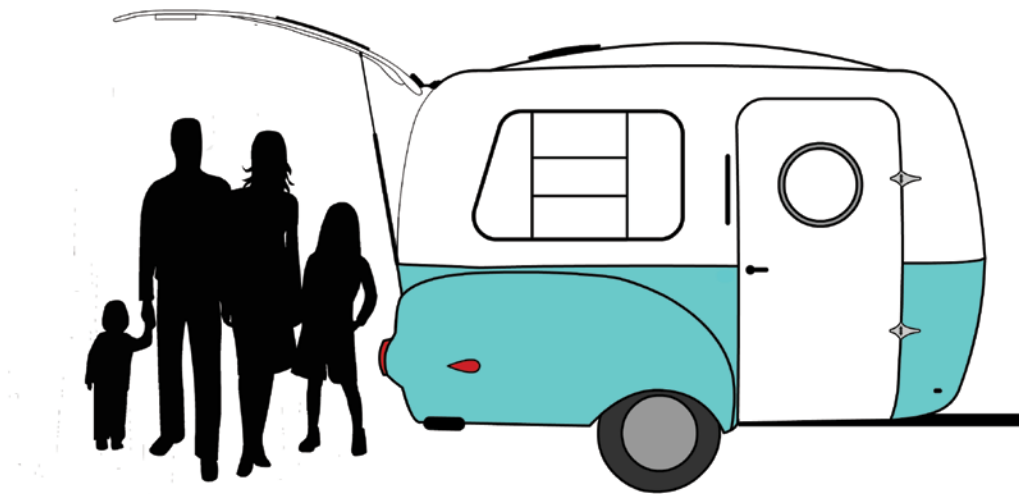
Featured Accessories

Propane System

Water System

Warranty

7-Way Wiring Diagram



### Helpful Hints:

- Make sure your trailer is properly connected to your vehicle prior to towing
- Be sure the connecting ball is securely locked into the hitch tongue
- Never tow your trailer with the wheel jack down— stow it up prior to travel
- Never tow your trailer without your safety chains attached securely
- Open your roof fan and/or windows for ventilation prior to sleeping
- Never carry any passengers in the trailer while it is in tow
- Ensure your doors, hatch, roof fan and windows are closed and locked prior to towing
- Make sure the stabilizer jacks are locked in the “up” position prior to towing
- Exercise caution when opening hatch (stored items may have shifted around)
- Secure any loose items in your cabin and galley to avoid damage
- Be sure modular components are secured into place, use hardware when needed
- Be sure side door and rear hatch are closed and locked when traveling
- Check that all running lights are working properly before your drive

\*\*To help reduce the chance of theft, make sure to lock the ball hitch lock with a padlock after unhitching your vehicle from the trailer. The ball hitch is located right at the tip of the hitch tongue.

**IMPORTANT SAFETY INSTRUCTIONS PLEASE READ AND FOLLOW ALL RELATED OPERATIONAL MANUALS AND THE INSTRUCTIONS IN THIS OWNER MANUAL BEFORE USE. THIS OWNER'S MANUAL IS INTENDED TO ACT AS A GENERAL GUIDE FOR OPERATION. THIS MANUAL IS SUBJECT TO CHANGE WITHOUT NOTICE AND MAY/MAY NOT INCLUDE INFORMATION REGARDING YOUR CAMPER. ALWAYS REFER TO THE SPECIFIC MANUFACTURER'S OWNER, OPERATIONS, AND SAFETY MANUAL FOR OPTIONAL EQUIPMENT WHICH INCLUDES, BUT IS NOT LIMITED TO, FURNACES, REFRIGERATORS, WATER HEATERS, COOKTOPS, AND DETECTORS. SAVE ALL INSTRUCTIONS.**

**Reporting Safety Defects** If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying HAPPIER CAMPER. If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or HAPPIER CAMPER. To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to <http://www.safercar.gov> or write to:

Administrator  
NHTSA  
1200 New Jersey Ave SE  
Washington, DC 20590

You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>

## **Chassis**

**MECHANICAL MAINTENANCE SHOULD ONLY BE PERFORMED BY A QUALIFIED MECHANIC. IF YOU DO NOT HAVE THE EXPERIENCE OR THE TOOLS TO SAFELY COMPLETE MAINTENANCE PROCEDURES, PLEASE CONTACT YOUR DEALER. WE ASSUME NO LIABILITY FOR INJURIES OR DAMAGES INCURRED AS A RESULT OF IRRESPONSIBLE, UNAUTHORIZED SERVICING.**

## **Tires/ Air Pressure**

Air pressure is the most important factor determining tire life and under inflation is the number one cause of trailer tire failure. Generic advice would be to maintain recommended airpressure listed on the tire sidewall, and periodically inspect both tires for tread wear and damage from road hazards. However, for a smoother, truer pull, we advise that your trailer tires be 35psi. All tires must be identical in size for the tires to properly manage the weight of the trailer. To properly maintain your tires, clean with mild soap and water. Do not use tire-care products containing alcohol or petroleum distillates and be sure to inspect the tires for any cuts, snags, bulges or punctures.

## **Tire Sizes**

The tires are 5-lug

50 psi (we recommend not filling it to that level).

It is important to maintain proper wheel mounting torque on your lug nuts. When possible, use a torque wrench to prevent loose wheels and broken studs. Start all nuts by hand to prevent cross threading. Tighten the lug nuts in stages. First, tighten to 20-25 ft./lb., then to 50-60 ft. /lb., and finally to 85-90ft. /lb. Check lug nut torque before the first use. Check periodically thereafter.

## **How to Change a Flat**

First, get your trailer to a safe area where you have the space to work on it freely. Now, you are ready to begin:

- Loosen the lugs
- Drop the nose of the trailer by cranking the wheel jack all the way DOWN
- Flip out and extend the rear jacks as long as they can go
- Crank the weel jack all the way UP
- Remove the lugs and the tires – replace with the spare located under the frame on front curb side (undo housing bolt)
- Repeat the above steps in reverse
- Torque the lugs – YOU ARE READY TO GO!

## **Axle**

**\*\*Follow all safety and specific operating instructions supplied by the axle manufacturer.\*\*** All models use rubber torsion axles which offer greater dampening than conventional spring suspensions and allow each tire to move independently. This feature gives a smoother ride and improved tracking and cornering over rough road conditions. In addition, this typeof axle has no metal to metal contact or springs, shackles, hangers, or U-bolts to wear out.



## **Electric Brakes**

The STANDARD electric brake on your camper is similar to the brakes on your towing vehicle, with the exception that the camper's brakes are electromagnetic, while your towing vehicle's brakes are hydraulic.

Keep in mind that you must have a controller installed in your tow vehicle in order to enjoy the intended benefits of electric brakes. When the brakes in the towing vehicle are activated, your controller determines how hard they are being pressed, and sends the appropriate current through the hitch wire to the brake assembly. As you depress the brake pedal, the controller sends more current to the electromagnet, and the brake shoes press harder into the brake drums, forcing the wheel to resist rotation. Releasing the brake pedal decreases the current to the brake assembly, allowing the wheel to spin freely. The brakes are self-adjusting, but will need an initial manual adjustment after the first 200 miles. The brakes should be inspected every 3000 miles. Contact your dealer unless you have the tools and experience to do a brake inspection, adjustment, and replacement.

## **Brake Adjustment (SEEK PROFESSIONAL ASSISTANCE):**

- Elevate the camper by positioning jacks under the frame 12" to 20" behind the axle. Use the jack stands under the frame to support the camper any time it is elevated.
- NEVER PLACE THE JACKS UNDER THE FLOOR OR USE THE STABILIZERS TO ELEVATE THE CAMPER.
- Do not remove the wheels or hub/drum assembly.
- Locate the adjusting slot at the bottom of the backing plate and remove the protective cover.
- Loosen until the wheel turns freely.
- Replace the protective plug.
- Repeat adjustment steps for the other wheel.
- Never adjust just one brake.

## **Brake Inspection**

The brake linings and magnets are subject to wear and require inspection every 6,000 miles or annually. Replacement is necessary if the linings are worn (to within 1/16" or less), contaminated with grease or oil, or abnormally scored or gouged. It is important to replace all linings (both wheels) at the same time to maintain even braking action across the axle. Annually inspect the wires under the trailer and on the axle for broken insulation or faulty connections. Repair or replace as necessary.

## **Bearing Inspection**

Wash all grease and oil from the bearing and cone using a suitable solvent. Dry the bearing with a clean, lint free cloth and completely inspect each roller. Replace the bearing cone and cup if there are any signs of pitting, wear, or corrosion. Repeat the inspection procedure for the inner bearing cone.

## **Bearing Lubrication**

Proper adjustment and adequate lubrication of the bearings are essential to the longevity and performance of your trailer axle. The bearings should be lubricated every 6000 miles or 6months.

## **Procedure**

- Remove the rubber plug from grease cap.
- Insert grease gun on the grease zerk.
- Pump until new grease begins to appear.
- Replace rubber plug.



**Frame**

No normal maintenance is required, but if the welds or scratches need attention, first remove any rust, dirt, or grease and coat with gloss black touch up paint. There is a receiver located on the rear bumper. This receiver is designed for light weight cargo with the load positioned close to the receiver and bumper. The HC1 has a GWR of 3500.

**Coupler**

Your coupler needs no adjusting or maintenance other than periodic oiling to ensure smooth operation. The HC1 uses a coupler that receives a 2" ball. Set the hitch height of the tow vehicle so that the trailer is being pulled in a horizontal position. The height 15" is the optimal height after the tongue weight is resting on the hitch. Trailers must be towed as level as possible for proper handling and weight distribution. Be surveyor hitch is connected securely to the ball, and that the pin is secured in your fold away tongue.

**Attaching the Trailer to the Tow Vehicle**

Position the receiver over the ball, and lift the tab handle of the hitch upward as you lower the jack. After the ball is seated, allow the handle to return back down, parallel to the frame.

**Stabilizers**

All trailers are equipped with lightweight 17" stabilizer jacks. Use the provided crank to quickly stabilize the trailer from the rear. Their high-strength design allows for increased load stabilization and fine leveling. Use in conjunction with the front wheel jack.

**HC1 Assembly****100% Fiberglass Shell**

The HC1 shell is made of 100% double-hull fiberglass. This includes the honeycomb floor and both interior and exterior molded shells.

**Fiberglass Maintenance**

Fiberglass should be maintained on a regular basis. So just how regular is regular? In order to answer that question we have to ask what kind of exposure to the elements the vehicle receives. If the vehicle is kept dry and inside a garage away from the elements, then exposure is minimal and the fiberglass can be maintained about every 6 months or so with great results. However, if the vehicle is kept out in the elements under constant exposure, then regular maintenance should be done every 3 months without fail. Without regular care and maintenance, fiberglass will begin to show signs of oxidizing in 4 to 12 months.

Choose a wax suitable for fiberglass, like Protect All, Polish, Wax and Treatment with UV Protectant. Regardless of the product you select, be sure to follow the application instructions to ensure that you get the best results and all the benefits that the product has to offer. Youtube.com is a great resource for videos on fiberglass maintenance.



## Fiberglass Off-Gassing

### *What exactly is off-gassing, and should you be concerned?*

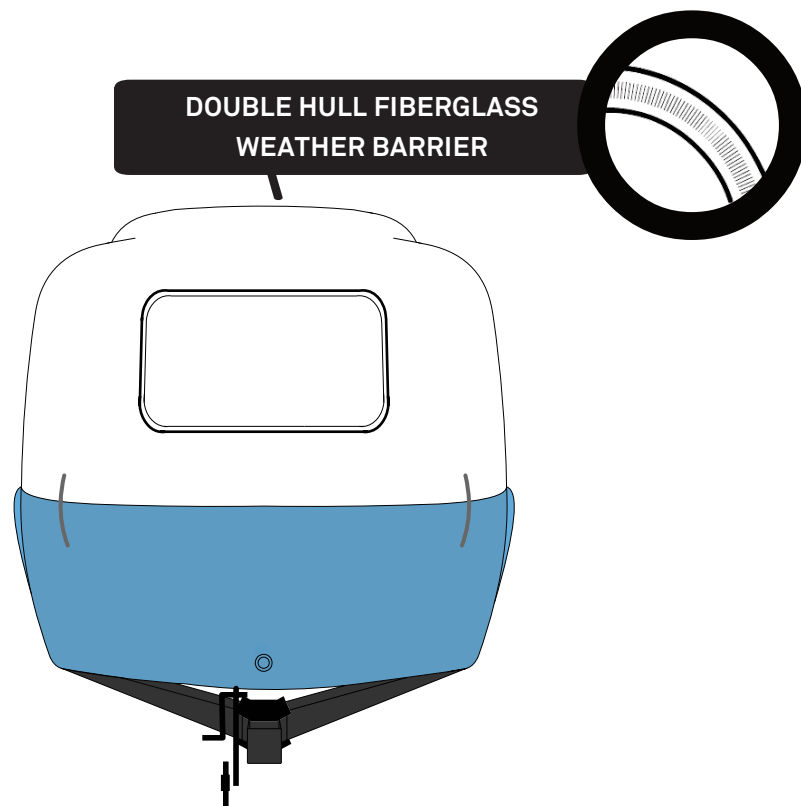
Sometimes common building materials, in this case ones used in the fiberglass manufacturing process, continue to release chemical vapors after the manufacture is complete. The main chemical in question is formaldehyde. This occurrence is called off-gassing. Our state-of-the-art fiberglass factory uses the safest, eco-friendly manufacturing practices in the industry to keep exposure to harmful chemicals to the very minimum. You may also notice some leftover fiberglass “dust” near the edges of cabinet openings, etc. for about a week after purchase. This is common to the manufacturing process and will subside shortly after use.

All fiberglass products must undergo a "curing" process of 30 days before being usable. Once the fiberglass has cured, the material is stable, and the chances of any off-gassing occurring are next to none. Your HC1 will have been curing in a well-ventilated area for 30-60 days prior to arriving at our sales lot.

\*\*If you're planning on storing your trailer in a sealed area for an extended period of time, we recommend airing it out for 24 hours prior to use.

### **Insulated Weather Barrier**

The HC1 features a thin but highly protective layer of insulation wedged between the two layers of the inner and outer fiberglass hull. The insulation is used in the upper portion of the trailer along the roof and side walls. There is no layer of insulation in the space where the windows go, along the upper shelving and around the lower cabinets (to make more usable space).





## ADAPTIV™ Modular interior

Our highly flexible Adaptiv™ modular interior system allows you to easily customize your trailer on-the-fly to suit a variety of needs. From camping, to hauling, to guest quarters, create the layout you want in just minutes. Configuring and reconfiguring is a snap, and the possibilities are limitless.

Our Adaptiv™ modular system is designed to allow you to easily configure the interior of the trailer on-the-fly and in a variety of ways, with several sleeping arrangements for up to five people, as well as many storage and countertop options. Consisting of modular components or cubes, the Adaptiv™ system is unique in its ability to easily and conveniently change a small space into whatever configuration you may need at the time. Whether a standard camper that can comfortably sleep a family of four, complete with kitchenette, dining table, and storage, or just one big bed to jump around on! A mobile office, a sales space, or a completely empty “mini-toy hauler” capable of hauling larger gear — let your imagination run free with endless possibility. Many of our modular components perform double-duty as indoor-outdoor furniture. Take the cubes outside to use for sitting, storage, or washing. The rugged materials will stand up to the elements and provide the ultimate in camping convenience.

### **The modular floor, cubes and components**

The modular floor of the HC1 is made of 1.5” thick honeycomb fiberglass. It’s super strong yet incredibly light. Grooves are embedded in the floor to hold the Adaptiv™ cube components in place — just like Lego®. The floor panels have additional embedded features like table bases, frame-mounted D-Ring tie-downs, and a front drain to easily hose down the floor for quick and convenient cleanups.

Our Adaptiv™ cube components are made from highly-durable and weather-resistant molded materials. Designed to securely snap together, the cubes are light-weight yet rugged, and are easily cleaned. Optional locking hardware is available to secure the boxes to the fiberglass walls for partially fixed layouts. Our wood components, table-tops, counter-tops, lids, and doors, are precision crafted using “Lite-Ply®”, a specialized material which is 55% lighter than regular plywood yet just as strong. Table legs easily snap into the floor and are uniquely placed for maximum convenience. **Premium cushions and carpeted floor panels share a molded base for snapping onto the floor or on top of bench cubes for additional comfort and style.**

- **Standard 16” bench cube**
- **Standard 20” x 20” counter top cube**
- **Standard 20” x 20” form-fitting cushion**
- **Standard 20” x 21.5” nesting table top**
- **Standard 20” x 20” floor panels**
  
- **20” x 60” folding flat cushion**
- **Wooden countertop cube**
- **Wooden lid concealing cube**
- **Countertop 13” x 20” extension**
- **Modular ice box/cooler cube**
  
- **Electronic AC/DC cooler/heater fridge cube**
- **Kitchenette sink module w/ clean & gray water**
- **Toilet cover component**
- **Deluxe kitchen w/sink, stovetop range & pull-out fridge**
- **Outside patio tablebase mount**
- **Side-wall and cube locking hardware**

Our **Adaptiv™** modular interior system is designed to allow you to easily reconfigure the interior of the trailer hundreds of ways, with several sleeping arrangements (up to 5), storage, utility, and flexibility. Consisting of six base components or *cubes*, the Adaptiv™ system is unique in its ability to easily and conveniently change a small space into whatever configuration you may need. A variety of bed sizes, counter tops, tables, and storage can be put together in nearly limitless ways to quickly build your ideal compact space, a standard camper that can comfortably sleep a family of four complete with kitchenette, dining table, and storage or just one big bed to jump around on. A mobile office, a sales space, a completely empty "mini-toy hauler" capable of hauling larger gear — let your imagination free with limitless possibilities in a finite space. Many of our modular components perform double duty as indoor-outdoor furniture. Take the cubes outside to use for sitting, storage, or washing. The rugged materials will stand up to the elements and provide the ultimate in camping convenience.



**BENCH COMPONENT**



**KITCHENETTE COMPONENT**



**TABLE COMPONENT**



**CUSHION COMPONENT**



**FLOOR PANEL COMPONENT**



**LID COMPONENT**

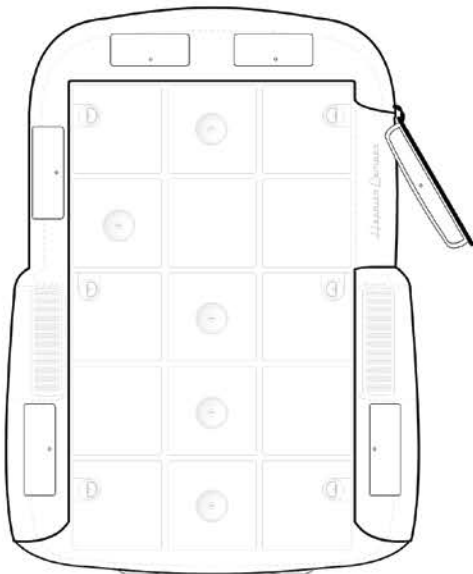
## AVAILABLE COMPONENTS

Surrounding cushions  
Standard 16" bench cube  
Standard 20" countertop cube  
Standard 20 x 20" form-fitting cushion  
Standard 20" x 21.5" nesting table top  
Standard 20" x 20" floor panels

Basic 20" x 20" cushion w/o molded base  
20" x 60" folding flat cushion  
Wooden countertop cube  
Wooden lid concealing cube  
Counter top flip-n-lock 13" x 20" extension

Cooler/Ice box cube  
Mini kitchenette cube w/sink  
Toilet port-a-potty cube  
Deluxe kitchen w/pull-out fridge, stove & sink  
Patio tablebase mount/cube lid

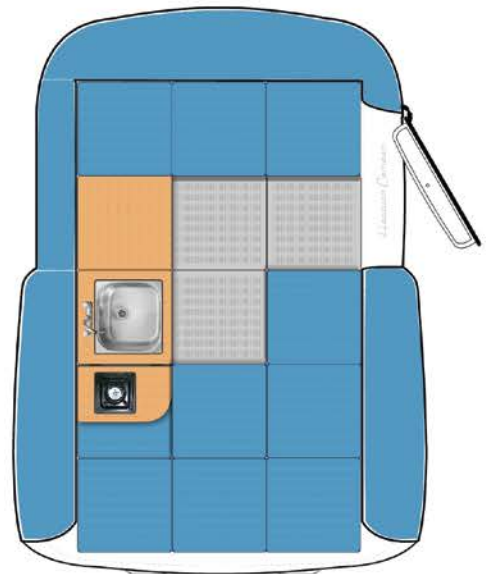
# CONFIGURATION EXAMPLES



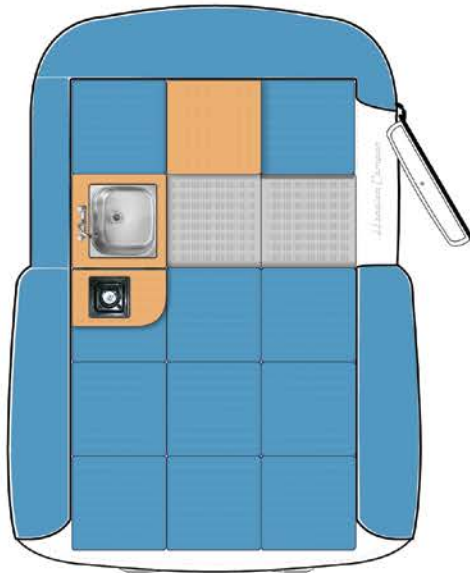
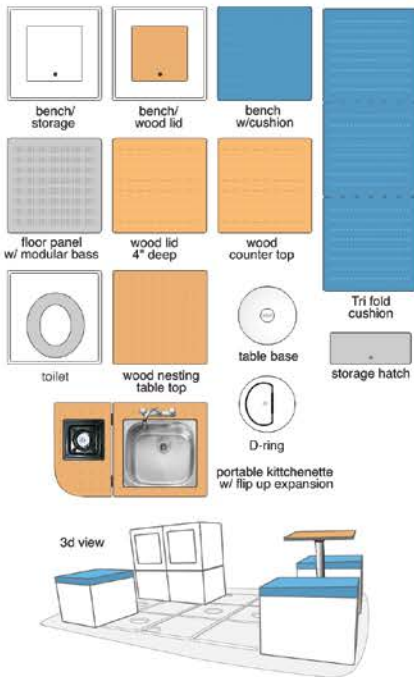
Naked



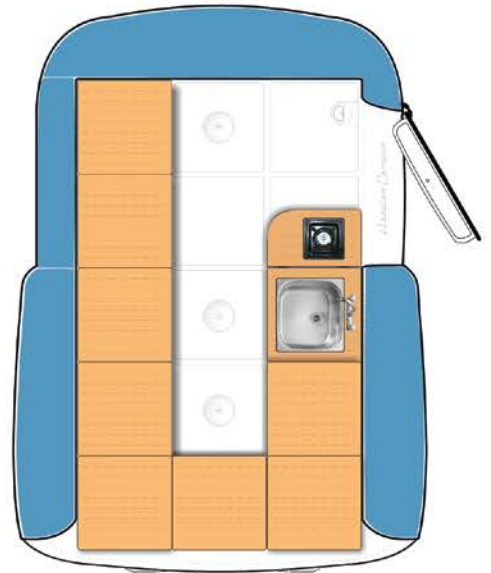
Hauler



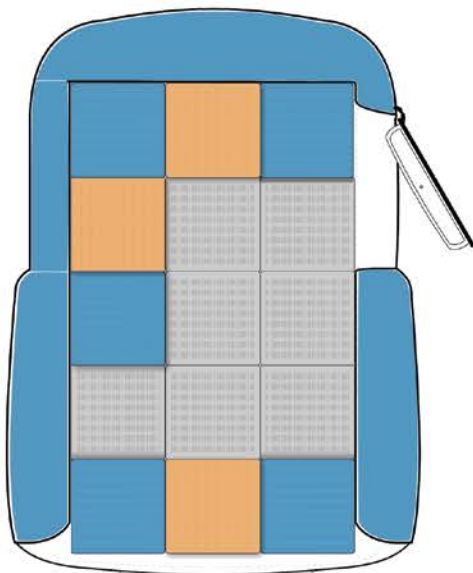
2X double bed w/ kitchen



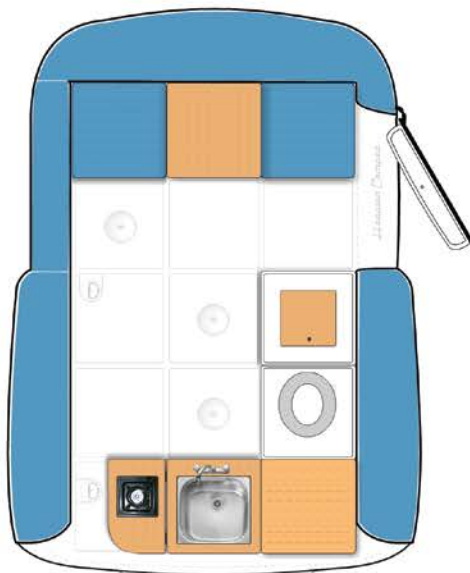
King bed w/ front dinette & Kitchenette



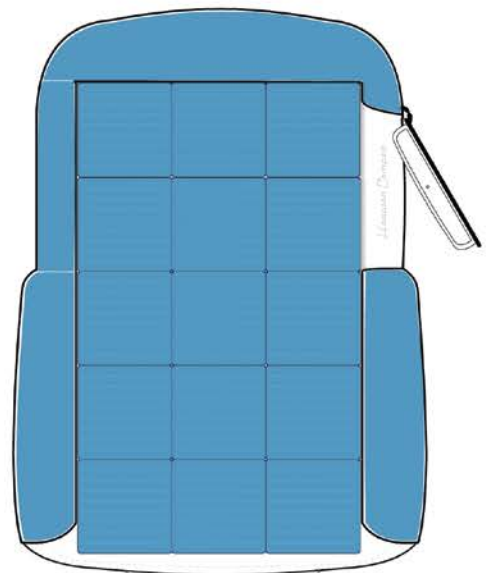
comercial counter space



portable office



sportsman



MEGA BED - sleep 5





## **Featured Accessories**

### **SUSPENSION AWNING**

Simply insert the supporting rods into the designated holes and tuck the opposite ends into the pockets of the fabric. Supplied guy lines allow you to adjust the height of the fabric. Taking it down is the reverse procedure: wrap the fabric around the rods and roll it towards the awning case. The fabric and rods can easily be removed from the case if you want to store it during the off-season.

### **ROADSHOWER™**

The road shower is a pressurized 5 gallon solar-heated water tank mounted sleekly beneath the rear hatch. Create pressure with a standard bicycle pump.

### **CEILING FAN**

Top quality ceiling fan, which evacuates the hot air that collects inside the roof peak. Best results can be achieved by closing all other roof vents and opening a window on the shaded side of the camper. The roof vent must be open approximately 3" before the motor will operate. Always lower and lock the vent in the down position before travel.

## **Standard Electrical Features**

### **Exterior Running Lights**

The HC1 is equipped with state of the art LED technology lighting throughout the trailer. The exterior lights are high performance and extra bright, there are no bulbs to replace and should last for many years. If a light is not working, please check your trailer wiring hook up, or be sure nothing has pinched the trailers interior wiring harness. The HC1 uses a 7-pin connector for vehicle hook up.

### **Interior Lights with Dimmer Switch**

The interior lights of the HC1 use powerful, long-lasting LED bulbs. The upper cabinet lights are click-operated; just press them in to turn on and off. The dimmer controls are located just inside, next to the side door entrance.

### **MIGHTY MINI™ Converter**

**\*\*Follow all safety and specific operating instructions supplied by converter manufacturer. \*\***

The converter changes standard household electrical power into 12 volt DC, the type of electrical power necessary for the operation of RV appliances and recharging RV batteries.

- When connected to shore power, the converter will charge and supply power to electronics (AC to DC power).

- When connected to shore power, the converter will automatically charge the onboard AGM battery deep cycle battery. The converter will charge the battery quickly to 95% and then slowly trickle-charge the remaining percentage, lengthening the life cycle of your battery. The converter works as a breaker box for both AC fuses and DC fuses.

Please follow converter manual for operation and safety instructions. Do not block the small, automatic cooling fan on the converter.



## **Auxiliary Battery**

TO AVOID CONVERTER DAMAGE, DO NOT REVERSE THE BATTERY POLARITY!

Caution: Wet RV Batteries can contain sulfuric acid. Handle with care. An auxiliary battery enables you to operate 12-volt dc appliances without draining your tow vehicle battery or plugging your converter into a 120-volt AC receptacle. Lights, heater fans, water pumps, roof fans, radios, and cigarette lighter receptacles can run on the auxiliary battery power. Air conditioners, microwave ovens, and standard outlets operate exclusively on 120 volts AC and therefore cannot run from auxiliary battery power. THE HC1 uses a large high powered AGM deep cycle battery because its design gives maximum performance between recharging without damaging the battery. Note: A deep cycle battery will take longer to recharge as compared to a regular automotive battery. Secure the lug and wire that has the 20-amp in line fuse to the battery's positive terminal. The lugs on the remaining two white wires connect to the battery's negative terminal.

**\*\* Do not reverse the polarity of the battery and 12 volt wires as damage can occur to the converter and wiring system \*\***

If there is an electrical problem, first check the 20-amp fuse at the battery then check the fuses located in the converter. Do not replace battery fuses with anything other than a 20-amp fuse. Some models are equipped with an internal storage box for the battery. This dual-vented battery box is required to discharge the hydrogen gas produced during charging. In cold weather, store the battery in a location where the temperature remains above freezing. Do not charge or store your battery in the camper unless it is in its proper enclosure.

## **120 Volt AC Amp Ratings Appliance or Electronic Equipment Estimated Amps**

- Air Conditioner 12-16 Amps
- Blender 5-6 Amps
- Coffee Maker 5-8 Amps
- Compact Disc Player 1 Amp
- Computer (Laptop) 2-3 Amps
- Converter 1-8 Amps
- Crock Pot 1-2 Amps
- Curling Iron <1 Amp
- Drill 2-6 Amps
- Electric Blanket 0.5-1.5 Amps
- Electric Fan 1 Amp
- Electric Water Heater 9-13 Amps
- Electric Skillet 6-12 Amps
- Hair Dryer 5-12 Amps
- Iron 5-10 Amps
- Light (60 watt % 120V) <1 Amp
- Microwave 8-13 Amps
- Microwave (Convection Oven) 13 Amps
- Refrigerator in AC mode 5-8 Amps
- Space Heater 8-13 Amps
- Television 1.5-4 Amps
- Toaster 7-10 Amps
- Vacuum (handheld) 2-6 Amps
- VCR 1-2 Amps
- Washer/Dryer 14-16Amps





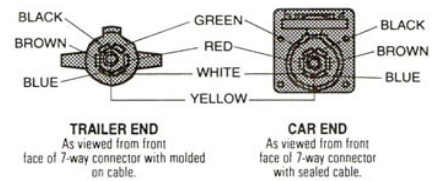


## 12 Volt DC Amp Ratings Appliance or Accessory Estimated Amps

- Aisle Light 1 Amp
- CO Detector 1 Amp
- LED Lights <1 Amps
- Furnace 10-12 Amps
- LP Gas Leak Detector 1 Amp
- Overhead lights (Per Bulb) 1 Amp
- Porch Light 1 Amp
- Power Roof Vent 1.5 Amps
- Radio/Stereo 4 Amps
- Range Hood (Fan & Light) 2-3 Amps
- Refrigerator (LP Gas Mode) 1.5- 2 Amps
- Security System 1 Amp
- Television (12 volt) 4-5 Amps
- TV Antenna Booster <1 Amp
- TV Antenna Booster 12 Volt outlet Up to 8 Amps
- Variable Speed Ceiling / Vent Fan 4 Amps
- VCR Recorder / Player 2 Amps
- Water Pump 4 Amp

Wattage % Volts = Amps ; Amps X Volts = Watts

### 7-WAY MOLDED TRAILER/ SEALED CAR CONNECTOR & CABLE



### 7 - WAY WIRING INDEX

Wire Color & Gauge	Molded Trailer/Sealed Car Connector Terminal
White / 10 gauge	Common Ground
Blue / 12 gauge	Electric Brake
Green / 14 gauge	Tail & License
Black / 10 gauge	Battery Charge
Red / 14 gauge	Left Stop & Turn
Brown / 14 gauge	Right Stop & Turn
Yellow / 14 gauge	Center Auxiliary

## Solar Panels and Inverter

It is possible for the HC1 to have perpetual power for its built-in electronics. The beefy AGM Deep Cycle battery is continuously charged by the contoured 100-watt solar panel. The auto-switching power converter provides both a DC and AC fuse panel and charges your battery when plugged in. The super-clean waveform Zamp Solar™ power inverter provides 600 watts of medical-grade power for your sensitive devices (computers, CPAP). We built the HC1's power system to be extremely efficient for extreme fun.

## LP (Liquid Petroleum) Gas Tanks

The HC1 does not have a large propane tank. After years of experience, we feel strongly that a large propane tank can be a safety hazard in a small, ultra-light fiberglass trailer. Propane is a powerful fuel with many uses, but it can also be costly, smelly and is very combustible. We recommend you use caution when using any flammable materials, and ALWAYS use in a well-ventilated area to prevent any carbon monoxide accumulation. The HC1 uses 1LB tanks for its portable propane heater and Dometic® stove top. The portable butane stovetop uses disposable butane cartridges. If you have added your own propane tank to the HC1, follow these instructions to maximize your LP gas experience:

To remove the tanks (or bottles) for filling, turn the tank valves off. Disconnect the hose or fitting to the tank valve. Loosen the wing nut on the mounting bracket. To transport or store the tank, install the plastic plug into the valve body. This prevents dust, dirt, and moisture from collecting in the valve. This plug also protects the threads. After filling the tanks, fasten them securely to the mounting bracket using the wing nuts. Checking for Leaks A hissing sound, condensation, or LP odor may indicate a ruptured gas line, in which case you should turn the tank valve off immediately and have the system service by an authorized service center. Before checking for leaks, make sure all LP gas appliances are turned off. Put out all flames and sources of sparks. Turn the tank valve on and generously apply a mild soap and water solution to each connection. Bubbles will appear if there is a

At Happier Camper we have put many camping and trailer accessories to the test. Based on personal use and customer feedback, we've hand-selected an array of compatible accessories and upgrades that enrich or extend the HC1 experience.

## INTERIOR ACCESSORIES

REAR HATCH STORAGE POCKET  
BLUETOOTH PORTABLE SOUND SYSTEM  
ADDITIONAL USB/AC/DC POWER PORTS  
EFFICIENT POWER GENERATOR  
DRY FLUSH / DOMETIC / TURBO TOILETS  
4000-9000 BTU PORTABLE PROPANE HEATER  
CLEAN SINE-WAVE INVERTER W/ REMOTE FACE  
BUTANE SINGLE-BURNER STOVETOP  
FOLD-DOWN CLOTHES HANGER  
REAR HATCH SHOWER FITTING  
REAR HATCH PRIVACY SCREEN  
DOMETIC AC/DC FRIDGE  
HIGH-PERFORMANCE ALL-WEATHER BLANKET  
FLAG POLE AND MOUNT

## EXTERIOR ACCESSORIES

LIGHTWEIGHT AIR CONDITIONER  
LOADING RAMP  
14" CEILING FAN  
13" WHEEL "MOON CAPS"  
SIDE/REAR DOOR FOLD-BACK FOOTSTEP  
REAR HITCH ARM DOOR LOADING RAMP  
CONTOURED SOLAR PANEL  
HEATED, PRESSURIZED ROAD SHOWER™  
SUSPENSION AWNING  
OUTDOOR SHELTER & TAILGATE TENT  
FRONT STABILIZING JACKS  
PORCH LIGHT  
HC1 EXTERIOR COVER  
HEAVY-DUTY 12-GAUGE EXTENSION CORD

## COMMERCIAL OPTIONS

From the beginning, we have built the HC1 with trade uses in mind. From branded food trucks, to product sampling, to a mobile office, this is where the flexibility and modularity of the HC1 really shines. Contact us to explore the possibilities for your brand or venture.

LARGE SIDE "CONCESSION" GAS LIFT FOLD-UP WINDOW  
CLIP ON WRAP-AROUND FIBERGLASS EXTERIOR BAR  
ADAPTIV™ MODULAR COUNTERTOP SERVING BAR  
ADJUSTABLE TABLET MOUNT  
LOADING RAMP  
CUSTOM BRAND COLOR GEL COAT



Contact us at [sales@happiercamper.com](mailto:sales@happiercamper.com) to explore the possibilities for your brand or venture.

\* Specifications and pricing subject to change

leak. If it leaks at a fitting, simply tightening the fitting may stop the leak. Caution: Do not over tighten the fitting as they may crack. If the leak continues even after tightening, replace the fittings. Leaks around the seals or vents of the regulator will require replacing the regulator. After testing for leaks, purge the air in the gas lines by opening a valve until you detect the odor of LP gas. Allow enough time for the gas to dissipate before lighting any appliances. Periodically inspect the tanks for dents, cracks, and corrosion. Inspect the mounting hardware and hoses for signs of wear, and replace if necessary. Always keep the valve on the tank closed when not in use or when traveling. Never fill a tank over 80%. Never test for leaks with a flame, or use products containing ammonia or chlorine to test for leaks. Do not store your tank in an enclosed place with extreme temperature changes. If necessary, you may repaint your tank.

### **Stovetop**

\*\* Follow all safety and specific operating instructions supplied by stove manufacturer.

\*\* NEVER OPERATE THE STOVE FOR COMFORT HEATING! BEFORE LIGHTING THE STOVE, OPEN A WINDOW AND A ROOF VENT FOR ADEQUATE VENTILATION. Failure to observe these rules may result in potentially dangerous levels of carbon monoxide inside the camper if equipped with a built-in counter cooktop burner indoor/outdoor cook top.

### **Manual Lighting Instructions:**

- Make sure LP gas is on at the shutoff valve.
- Press burner control inwards and turn counter-clock wise.
- Immediately light the burner by holding a match or handheld spark igniter near the burner ports.
- Extinguishing instructions: Turn the appropriate burner knob clockwise to off.

### **Indoor / Outdoor Butane Stove Instructions:**

\*\* Follow all safety and specific operating instructions supplied by stove manufacturer. \*  
For units equipped with the indoor/outdoor stove or grill:

\*\* Do not operate indoor / outdoor stove or grill with optional awning erect. \*\*

### **Water System**

The HC1 sink/kitchenette component features an onboard water tank that can be filled manually through the inlet on the rear of tank. It holds approx. 5 gallons of water. Your camper has two hoses, one for filling the storage tank with fresh water and one for grey (used) water. When connected, you can drain the grey water through the exterior drainage port located on the inside wall of the camper's interior.

### **Common Issues & Troubleshooting**

Contact Happier Camper  
sales@happiercamper.com  
310.570.8864

### **3-Year Structural Warranty**

Happier Camper warrants the fiberglass structure to be free from defects in workmanship for a period of 36 months from the date of sale. The warranty does not apply to any trailer which has been altered outside our factory, or which has been subject to misuse, negligence, or accident. Correspondence regarding the warranty should include the serial number, date of purchase, owner's name, and full contact information. Many appliances and components offered carry their own warranties. Please consult your manual for a complete list. Happier Camper conducts ongoing product development and thus reserves the right to change specifications and pricing without notice or obligation to prior sales.





*our intrepid mascot Lulu*

**Happier Camper**

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