



CUSHMAN

MODEL: REFRESHER® OASIS

TYPE: GASOLINE POWERED REFRESHMENT VEHICLE

MODEL YEAR: 2016

Option Part No: 648341 & Base Refresher 633911



PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

Refresher Unit Overview: Refresher unit designed for inventory of unopened, pre-packaged, non-perishable foods for distribution through daily use. This Refresher unit is not meant for long term food storage or storage of opened food and beverage items. Adherence to local food handling regulations is required.

Each Refresher Unit Consist Of: Windshield with Frame; Struts and Slate Canopy; Side Mirrors, left and right; Beverage tank with built-in dividers; 4 locking lids in white countertop with hold open brackets; Drain valve; Extended countertop at rear of deck with trash/recycle storage with lid and hold open bracket, 2 plastic removeable bins (1 blue, 1 green).

Engine: 13.5 hp (10.1 kW) Exceeds SAE J1940 Standard, 4 cycle, 24.5 ci (401 cc) single cylinder, air-cooled by Kawasaki

- **Valve Train:** Overhead valve
- **Fuel System:** Fixed float bowl with remote pulse fuel pump
- **Lubrication:** Pressurized oil system, spin-on oil filter
- **Ignition:** Electronic spark/magneto
- **Balancer:** Internal counter rotating balance shaft
- **Air Cleaner:** Replaceable dry cartridge

Electrical: Starter/Generator, solid-state regulator, 12 Volt maintenance free battery (425 CCA, 60 minute reserve)

Drive Train: Automatic, continuously variable transmission (CVT)

Brakes: Dual rear wheel mechanical self-adjusting drum brakes. Single point park brake release with self-compensating system

Transaxle: Differential with helical gears, ground speed governor, forward/reverse

Canopy: Slate Canopy

Beverage Unit: 5000 Series Aluminum, Super Durable TGIC Polyester Powder Coating

Beverage Unit Storage Capacity:

- **Beverage Bin:** Four divided compartments, capacity 500 cans
- **Trash Bin Volume:** 3.4 cu ft (0.96 m3)
- **Merchandising Capacity:** 6.7 cu ft (.189 m3)
- **Work Space:** 12.1 ft2 (1.12 m2)

PRODUCT OVERVIEW

Dimensions

Overall Length	118.0 in (299.7 cm)
Overall Width	51 in (129.5 cm)
Overall Height (No Canopy)	48.5 in (123.2 cm) (Top of steering wheel)
Overall Height (With Canopy)	73 in (185.4 cm)
Wheel Base	77.0 in (196 cm)
Front Wheel Track	37.0 in (94 cm)
Rear Wheel Track	38.0 in (97 cm)
Gnd Clearance @ Differential	3.5 in (9 cm)

Vehicle Power

Power Source	4 Cycle 24.5 cu in (401 cc)
Valve Train	Single Cylinder OHV
Horsepower (kW)	13.5 hp (10.1 kW) Exceeds SAE J1940 Std.
Electrical System	Starter/Generator. Solid State Regulator
Batteries (Qty, Type)	One, 12 Volt Maintenance Free
Key or Pedal Start	Pedal
Air Cleaner	Industrial Rated Dry Filter
Lubrication	Pressurized Oil System
Oil Filter	Spin-On
Cooling System	Air Cooled
Max Fuel Volume	6.0 Gallon (22.7 L) tank
Drive Train	Continuously variable transmission (CVT)
Transaxle	Differential with helical gears
Gear Selection	Forward - Reverse
Rear Axle Ratio	16.53:1 (Forward) 16.81:1 (Reverse)

Performance

Seating Capacity	2 Persons
Dry Weight	1112 lb (504 kg)
Curb Weight	1152 lb (522 kg)
Vehicle load capacity	1066 lb (483 kg)
Outside Clearance Circle	22.0 ft (6.7 m)
Intersecting Aisle Clearance	N/A
Speed (Level Ground)	Fwd - 11.0 mph ± 0.5 mph (17.7 kph ± 0.8 kph) Rev - 10 mph ± 0.5 mph (16 kph ± 0.8 kph)
Towing Capacity	N/A

Steering & Suspension

Steering	Self-compensating rack and pinion
Front Suspension	Leaf springs with hydraulic shock absorbers
Rear Suspension	Leaf springs with hydraulic shock absorbers
Service Brake	Rear wheel mechanical self-adjusting drum
Parking Brake	Self-compensating, single point engagement
Front Tires	Links 18 x 8.50 - 8 (4 Ply Rated)
Rear Tires	Load Star 18 x 8.50 - 8 (6 Ply Rated)

Body & Chassis

Frame	Welded steel with DuraShield™ powder coat
Front Body & Finish	Injection Molded TPO, painted
Rear Body & Finish	Steel. Base coat/clear coat
Standard Color	Forest Green

Noise & Vibration

Noise	Sound pressure; continued A-weighted equal to or less than 76 db(A).
Vibration, WBV	Highest RMS value of weighted acceleration is less than 2.5 m/s ² .
Vibration, HAV	Highest RMS value of weighted acceleration is less than 2.5 m/s ² .
	The uncertainty of measurement is 1.08 m/s ²
	Measurement methods were applied per the ISO 2631 and ISO 5349 standards under conditions of typical vehicle surfaces.

Some items shown may be optional equipment

**CUSHMAN****Refresher Unit Dimensions**

Refresher Unit Length	51 in (129.54 cm)
Refresher Unit Width	50.5 in (128.27 cm)
Refresher Unit Height	47.4 in (120.39 cm)
Refresher Unit Weight: All Parts	332 lb (150 kg)
Standard Color	Graphite Gray
Canopy	Slate Canopy

Refresher Unit Dimensions Cont.

Maximum Merchandising Capacity	6.7 cu ft (.189 m3)
Cold Storage Drainage	Single Drain at bottom of tank
Cold Storage Capacity	12 oz cans: 500
Trash Bin Volume	3.4 cu ft (0.96 m3)
U Shaped Work Space	12.1 ft2 (1.12 m2)
Beverage Unit	5000 Series Aluminum
	- TGIC Polyester Powder Coating
	- Product Doors w/Locks

OPTIONS & FIELD INSTALLED ACCESSORIES (Installation not included)*

Item	Std	Opt	Fld
Refresher Unit			
Base Unit - Graphite Gray	X		
Base Unit - Custom Color		X	
Refresher Countertop - White	X		
Canopy - Slate	X		
Canopy - Additional Color Options		X	
End Cap with Trash & Recycle	X		
Windshield	X		
Side Mirrors	X		

Refresher Accessories

Consumable Ice Bin With Lid		X	X
3.0 Liter Airpot (2 Mounted to dry goods cabinet)		X	
Reversible Insert For Airpots/Bottles		X	
Humidor		X	X
Ice Sink		X	

TIRES & WHEELS:**Front:**

18 x 8.50 - 8 (4 Ply Rated)	X		
Turf Tire 18 x 8.50 - 8 (Load Range B)		X	

Rear:

18 x 8.50 - 8 (6 Ply Rated)	X		
Turf Tire 20 x 10 - 10 (4 Ply Rated)		X	

Wheel Covers:

Spoke, Silver		X	
Spoke, Gold		X	

COLORS:

Body Color Forest Green	X		
Body Color Ivory		X	
Body Color White		X	
Body Color Yellow		X	
Body Color Orange		X	
Custom Body Color (upon request)		X	

Item	Std	Opt	Fld
Seating:			
Seat Color (Gray)		X	
Seat Color (Tan)			X
Seat Color (Oyster)			X
Custom Seat Color (upon request)			X
Pinstripping			
Black			X
Silver			X
Pewter			X

ELECTRICAL:

Headlights		X	
Horn		X	
Low Oil Indicator		X	
Fuel Gauge		X	
Hour Meter			X
Brake Lights			X
LED Headlights			X
Turn Signals with 4-Way Flashers			X
12 Volt Outlet			X
Heavy Duty Battery			X
Unique Group Key Switch			X
Unique Individual Key Switch			X

OTHER PERFORMANCE:

Front Bumper & Guard (Black)		X	
Ash Tray			X
Front Hydraulic Disc Brakes			X
International Shipping			X

Rear Axle

High Altitude			X
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