

# CUTTERS EDGE FIRE RESCUE SAW SPECIFICATIONS..MODEL #CE-2171-RS

## ENGINE

TYPE: Single-cylinder 2-cycle, with loop scavenging  
DISPLACEMENT: 4.3 cu.in. (70.7cc)  
BORE: 1.97 in. (50mm)  
STROKE: 1.4 in (36mm)  
COMPRESSION RATIO: 10.2:1  
BEARINGS: Heavy-duty deep-groove ball bearings on crankshaft, needle cage bearings on connecting rod, piston pin and clutch  
CYLINDER/PISTON: Closed ported, dual rings with four transfer ports  
CYLINDER MATERIAL: Nikasil  
MAX ENGINE SPEED: No load...13,500 RPM  
HORSEPOWER: 5.67hp (DIN)

## IGNITION SYSTEM

TYPE: Electronic, one piece modular, CD  
BRAND: FHP  
SPARK PLUG: Champion CJ7Y or equivalent  
GAP: 0.020 in. (0.5mm)

## STARTING SYSTEM

ONE STEP STARTING SYSTEM WITH COMPRESSION RELEASE  
Comprised of...  
Momentary contact switch  
Combined choke/throttle lock with Throttle safety guard

## AIR FILTRATION

SYSTEM: "RAM-AIR INDUCTION"  
TYPE: 4-stage external mount with oil tack barrier  
SURFACE AREA: 211.4 sq.in. effective filtration surface area  
MICRON RATING: <1 Micron

## FUEL & ENGINE LUBRICATION

GASOLINE OCTANE RATING: Use 87 octane or higher  
FUEL MIX RATIO: With Cutters Edge Synthetic Oil..... 100:1  
If petroleum base 2-cycle oil used: ...50:1  
FUEL TANK CAPACITY: 26.8 fl.oz. (0.77 liters)

## CARBURETOR ISOLATION

Designed to eliminate Vapor-lock and Vibration  
TYPE: Air gap isolation and Bakeolite insulation  
Pressurized carburetor compartment keeps out dirt

## DRIVE SYSTEM

TYPE: Inboard, 3-shoe centrifugal clutch  
STYLE: Rim & Drum System  
Radially ported to keep rim free of tar & debris buildup... free floating to keep chain in perfect alignment with bar groove  
SIZE: .404 x 8 TOOTH  
CHAIN SPEED: No load chain speed 121.6 FPS (feet per second)

## GUIDE BAR

TYPE: Solid one piece construction with chamfered rails  
11 Tooth Sprocketnose  
20" and 16" slotted for Guard/Depth Gauge

## MATERIAL

STEEL ALLOY: .234" Thick Bar Body  
HIGH SPEED STEEL: Sprocketnose  
CUTTING LENGTHS: 20" 16" and 12"  
SIZE: 404 Pitch .063 Gauge

## CUTTING CHAIN

STYLE: CUTTERS EDGE BULLET® CHAIN  
TYPE: Carbide Tipped with "Locking Key" and Solid Bullet Raker Gauge  
DESIGN: Patented Fire Rescue Design...U.S. Patent No. 5,056,395  
SIZE: .404"Pitch x .063" Gauge with .068 "Drive Links (coined to .063") Heavy Duty Tie Straps, Tempered Rivets and .068"Hubs Meets or exceeds ANSI and OSHA standards Certified according to ISO 9518 Standards as "Extremely Low Kickback"

## CUTTING CHAIN LUBRICATION SYSTEM

TYPE: Fully automatic, adjustable  
DRIVE SYSTEM: Geared to Centrifugal Clutch  
LUBRICANT: Cutters Edge "High Tack" Bar & Chain Oil or High Quality Bar & Chain Oil  
OIL TANK CAPACITY: 14.24 fl.oz. (0.42 liters)

## HANDLES

TYPE: Front/Top...Full Wrap (For ease of use with gloves, from either side of saw) Rubber coated for sure grip  
Rear...Flared base for kickback guard. Full isolation anti-vibration

## VIBRATION LEVELS

\*FRONT HANDLE m/s<sup>2</sup>: *Idling* 3.4  
*Racing* 2.2  
\*REAR HANDLE m/s<sup>2</sup> : *Idling* 1.8  
*Racing* 3.8  
(\*see Note 2)

## SILENCING

MUFFLER: Oversize, top ported, low restriction with fire screen  
\*\*NOISE LEVEL: 104dB(A) at maximum output  
(\*see Note1)

## GUARD/DEFLECTOR

TYPE: Aluminum front mount to cover muffler and control air-flow for delivery of cleaner, cooler air to cylinder heat exchangers...(Keeps engine running cooler and reduces maintenance)

## CHAIN BRAKE

TYPE: Inertia Activated  
STYLE: Free-Swinging Pendulum  
BREAKING TIME: <0.20 second

## GUARD/DEPTH GAUGE (Optional)

(No tools needed for installation, adjustments or removal)  
FUNCTION: Covers all the cutting chain, allows saw operator to set depth of cut to avoid cutting structural members  
MATERIAL: Anodized aluminum  
TYPE: D6 for 16" saw... D8 for 20" saw... 3 point mount, positive lock with depth of cut scale  
DEPTH OF CUT: D6 = 6" D8 = 8"

## WEIGHTS

POWERHEAD ONLY: 15.25 lbs (Dry Weight)  
CE-2171RS-12": 18 lbs  
CE-2171RS-16": 18.5 lbs  
CE-2171RS-20": 19.3 lbs  
CE-2171RS/D6: 20.6 lbs  
CE-2171RS/D8: 21.65 lbs

## STANDARD ACCESSORIES

ACCESSORIES INCLUDED WITH ALL FIRE RESCUE SAWS...  
"Scrench" holder and "Scrench" tool, complete tool kit including grease gun and packet of grease, complete manuals, filter oil, Cutters Edge 2-cycle oil mix, Cutters Edge bar & chain oil, bar scabbard (saws without D6 & D8 only)

\*\*Note 1: Equivalent noise level is, according to ISO 7182 and ISO 9207 calculated as the time-weighted energy total for noise levels under various working conditions with the following time distribution: 1/3 idle, 1/3 full load, 1/3 full speed.

\*Note 2: Equivalent vibration level is, according to ISO 7505, calculated as the time-weighted energy total for vibration levels under various working conditions with the following time distribution: idle, full speed.