



#### OPTIONAL STAND

An optional metal stand is available for use with the Ranger RP-20FC Oil Filter Crusher. The generous design accommodates used oil storage tanks ranging from 5 – 55-gallon sizes. Simply slide storage barrels beneath the stand and you're done! The tanks are now ready to receive waste oil from the crusher's downspout tube. It doesn't get any simpler.



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used oil filter **RECYCLING**

## OIL FILTER CRUSHERS and the Environment

### THE EPA HAS TOUGH REGULATIONS ABOUT THEIR DISPOSAL

If you work in or own an auto repair shop, you likely find yourself burdened with hundreds, sometimes thousands of oil filters every year; all of them filled with sludge and used engine oil. Used oil filters removed from vehicles are viewed as contaminated waste by the EPA until they are processed for disposal or recycling and the EPA has tough regulations about their disposal.

### IT'S THE LAW

Although many states require that used oil filters be drained for a period of 12-24 hours, uninformed repair shop operators find the process too time consuming and will typically gravity drain the oil filters for only a few minutes before discarding them into the trash. Because a larger percentage of the oil could still remain in an improperly drained filter, it is still considered hazardous waste. Repair shop operators can be fined for improper or illegal hazardous waste management if disposing oil filters that have not been properly drained.

Because used oil is a harmful pollutant, all oil should be drained from used filters before they are recycled or disposed of. Used motor oil collected during processing used oil filters is not required to be regulated as a hazardous waste if it is properly managed and transferred to a recycling facility.

### COMPLY WITH EPA GUIDELINES

Used oil filters can be processed to recycle both the used oil and steel remains. The drained oil can be refined in to lower grades of lubricating oils or fuel and the steel scrap can be reprocessed into new steel products such as cans, cars, appliances and construction materials. Proper recycling of used oil filters sold annually in the United States could result in the recovery of about 160,000 tons of steel.

Recycling is the preferred alternative to disposal and using an oil filter crusher makes recycling efforts more productive and less costly. An oil filter crusher presses the filter under high pressure and squeezes the engine sludge, grunge and oil out. Within seconds used filters are reduced to 25% of their original size – about the size of a hockey puck. The end result is a collection drum filled with recyclable metal “pucks” and a storage container of used oil that can be recycled, all while complying with EPA disposal guidelines. Because most disposal companies charge a collection and hauling fee per each drum, the more recycled filters you can fit into each drum means increased savings. No permits will be required for either the collection or transportation of these filters if they are destined for recycling.

### FILTERS REDUCED TO 25% OF THEIR ORIGINAL SIZE

Crushing used oil filters removes the residual oil while leaving the paper and rubber content of the filter with the resulting scrap product. No separate step for media disposal is required as any nonmetallic material remains with the used oil filter and is burned off as impurities in the steelmaking furnace. Repair shops who recycle both the used oil removed from the filter and the filter casing as scrap metal are exempt from hazardous waste regulations and do NOT need to test their filters to determine whether they are hazardous.

To increase the probability that a used oil filter (hazardous scrap metal) will qualify for the scrap metal recycling exemption, a repair shop generally has two options:

1. Gravity drain the filter for an amount of time sufficient to ensure that all free-flowing oil is removed. (The problem with this method is that the amount of drain time will vary based on the size of the filter, temperature (both ambient and that of the filter) and the fluid viscosity).
2. Alternately, the repair shop could crush the oil filter using the most appropriate crushing method that will force excess residual oil from the filter.

## drain the filter to ensure all free-flowing oil is removed



RP-20FC

Modern oil filter crushers like the Ranger RP-20FC connect easily to your existing shop air supply and are designed specifically to crush dirty oil filters and remove up to 95% of the sludge and used engine oil. A collection chamber and collector downspout tube allows for simple oil recovery into a barrel or other collection container.

The Ranger RP-20FC oil filter crusher applies 10 tons of air-operated pressure to just about any used oil filter and reduces it to 25% of its original size. It features a single-control valve operation, welded steel plate construction, 12-1/2" diameter cylinder, pressure regulator and air moisture separator and an automatic safety door that automatically ceases press operation when opened. A transparent door provides a convenient view of the crushing process.

The Ranger RP-20FC is priced around \$1300.00 which includes free shipping to almost anywhere in the United States. When you consider the cost savings for reducing the size of used oil filters for collection and hauling away, the special handling permits and fees no longer needed that would be required by EPA law for disposing of contaminated waste coupled with scrap rebates you may get from recycling the crushed filters, the investment will surely pay for itself very quickly.

**CAUTION  
HAZARDOUS  
WASTE**



### RP-20FC / FEATURES / BENEFITS

- 20,000 lbs. crushing pressure
- Save on disposal costs
- Fulfills EPA standards
- No-mess design
- Single-control valve operation
- Exclusive X-shape press head
- Welded steel plate construction
- 12-1/2" diameter cylinder
- Crushes filters and cans
- 10-20 second cycle time
- Reduces filters to 25% of their original size
- Removes up to 95% of the oil
- 100% air operated
- Automatic safety door
- Transparent door for viewing
- Pressure regulator
- Optional stand fits 55-gallon drums

### RP-20FC / SPECS

- Overall height: 29-1/2" / 749 mm
- Overall width: 17" / 432 mm
- Overall depth: 17" / 432 mm
- Chamber opening height: 11" / 279 mm
- Chamber opening width: 8" / 203 mm
- Chamber opening depth: 11" / 279 mm
- Average cycle time: 15 – 20 seconds
- Air input: 125 – 175 psi
- Unit weight: 228 lbs. / 103 kg

**Ranger**  
PRODUCTS

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