

Changing Carpet
Care Forever



Cascade 20

Self-Contained Recycling
Extractor with Moisture Control



Faster, Cleaner, Greener.

Cascade 20



Recycling, Moisture-Controlled Carpet Extractor



Healthier Buildings

Carpet cleaning professionals, building service contractors and in-house cleaning staff will appreciate the unique and innovative cleaning technology of CFR's Cascade 20 carpet cleaning system. Delivering contractor-grade deep cleaning productivity that far surpasses other interim and restorative carpet cleaning methods, the Cascade 20 system utilizes healthier, sustainable cleaning science to neutralize organic materials in the carpet to eliminate odors and increase the health and safety of building occupants. Through a unique rapid recovery process that atomizes the carpet solution and controls moisture, the revolutionary, eco-friendly Cascade 20 system:

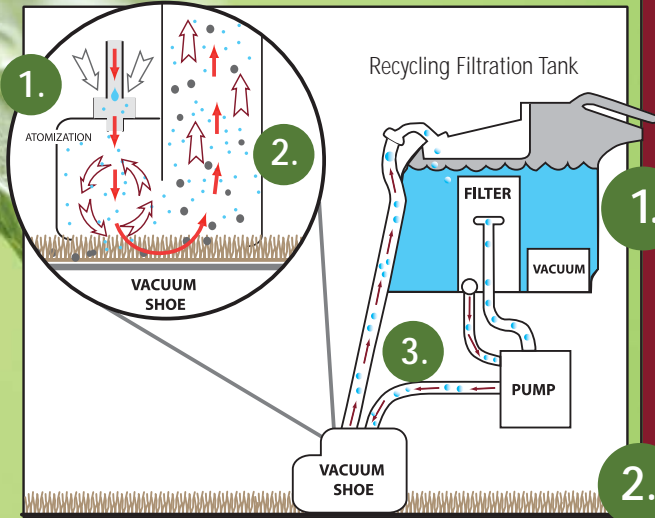
- consumes less water, chemical and energy;
- minimizes the development of mold, fungus and allergens in carpets;
- delivers faster drying times so your space is clean, dry and ready in a fraction of the time of normal extraction;
- provides enhanced ergonomics with patented wand systems for those hard-to-reach places.

Traditional carpet extractors can leave behind excessive moisture during the extraction process that damages the carpet, takes longer to dry and leaves dirt and residue in the carpet, reducing the life span of your carpet. With the revolutionary Cascade 20 system, you get truly deep-cleaned, hypoallergenic, healthy carpets, providing greatly reduced drying times compared to traditional extractors. What's more, the Cascade 20 system is available with an in-line Ozone Assisted™ water purification model perfect for use in schools, hospitals, hotels, nursing care facilities, or any building concerned about carpet odors.

Innovative Cleaning Technology

Unique Rapid Recovery Process

Controls Moisture, Sprays, Cleans and Recovers All in One Step



The key to mold control is moisture control. The Cascade 20 Carpet Extractor provides superior, moisture-controlled solution and recovery atomization to minimize moisture in carpets. Allergens, mold and mildew are greatly reduced, resulting in improved indoor air quality (IAQ), healthier buildings and building occupants.

Unique Rapid Recovery Process Controls Moisture, Sprays, Cleans and Recovers All in One Step

CFR's innovative solution and recovery process atomizes the cleaning solution injected into carpets to control moisture, neutralizing micro organisms and organic substances that can cause odor.

1. Faster:

High-speed cleaning solution is atomized in the unique and patented vacuum shoe to create a high-velocity, continuous flow of cleaning solution that rapidly injects and recovers soil and water from the carpet fibers. **Reduce your dump and refill time, and reduce labor cost with machine down time being minimized.**

2. Cleaner:

At the exact same time the cleaning solution is being atomized within the vacuum shoe, the solution is simultaneously suctioned back out of the carpet fibers, ensuring the cleaning solution never comes to rest on the backing. The result? More water is being pushed through the carpet fibers without soaking the backing and pad. **Moisture is controlled, carpets dry faster, and your space is clean and ready for quicker use.**

3. Greener:

Once the solution has traveled through the carpet and is suctioned back into the patented vacuum shoe, the solution travels through a four-level recycling filtration process to trap heavy and fine debris. **Minimizing use of water and chemical.**

Broad-Range Applications:

- Schools and Universities
- Hospitals
- Nursing Homes
- Hotels
- Restaurants
- Government Facilities
- Commercial Buildings
- Casinos

Changing Carpet Care Forever



FASTER.

Whether it is being used for interim or restorative cleaning, the Cascade 20 tops the industry in productivity. Cascade 20 will clean an 8,000 square foot area in maintenance mode in one hour. With Cascade 20, you will only have to stop to empty and refill the solution tank one time, compared to up to seven times with a traditional extractor. The Cascade 20 has one of the fastest dry times in the industry. Carpets are healthy and dry in half the time of a conventional extractor, which means your space is ready for quicker use.

CLEANER.

Cascade 20's patented cleaning technology is distinctively different from other cleaning systems. Our Rapid Recovery Atomization Process sprays, cleans and recovers solution all in one step. The atomized, high-speed cleaning solution works as an agitator, cleaning the fibers better than a brush without damaging the carpet. At 400 p.s.i. and 1.4 gallons per minute, soil is flushed from the carpet fibers. To get the same level of clean with a traditional extractor, you would have to go over the same area three to four times!

GREENER.

The Cascade 20 system uses sustainable recycling technology to reduce contaminants, mold, and allergens in carpets. Consuming significantly less water, energy and chemicals, the unit also dramatically cuts chemical costs and is made of recyclable polyethylene, minimizing post-consumer waste. For those hard-to-reach areas, the patented roller wands are a first in the industry and make those tight spots easier to clean. With Cascade 20, you get truly deep cleaned, hypoallergenic, green carpets without compromising your strict cleaning standards. Deep clean really is green with Cascade 20.

Do More with Less

REDUCED LABOR COSTS: Labor is the single greatest expense facing in-house service providers and building service contractors. And in an era of ever-tightening budgets, custodial supervisors and managers are being asked to "do more with less" — maintain larger floor areas with less staff. The Cascade 20 cleaning system not only consumes fewer cleaning resources and labor, it extends the need for restorative cleaning cycles and delivers superior results. Cascade 20 enables you to:

- reduce the cost of cleaning for your organization;
- dramatically increase the life-cycle of your carpet;
- minimize time spent on dumps and refills;
- conserve water, chemical and enhance your green cleaning program;
- eradicate fungus, bacteria, viruses and pollen which can cause odors in carpets;
- reduce worker injuries and compensation claims.

DUAL PURPOSE VERSATILITY

Cleaning Category	Frequency	Productivity
Interim Maintenance	Quarterly or As Needed	8,000 square feet per hour
Restorative Maintenance	Annually	5,400 square feet per hour

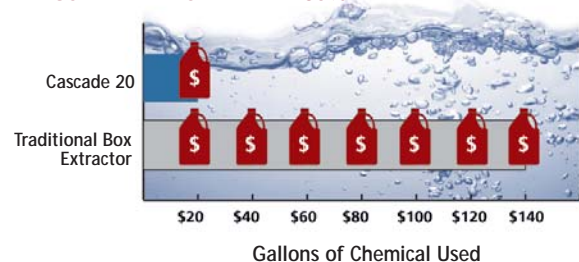
TANK REFILLS (BASED ON CLEANING 15,000 SQ. FT.)



LABOR COSTS PER 1000 SQ. FT. (\$10 PER HOUR WAGE)



CASCADE REDUCES CHEMICAL AND WATER USE BY APPROXIMATELY 85%





"School districts must provide a safe and healthy learning environment for children. When cleaning, I use the Cascade 20 Automatic Extractor with OZONE as a weapon to remove contaminants in carpet such as viruses, bacteria and mold that can cause odors, as well as illness and allergies in children. The Cascade delivers immediate results."

Building Engineer
Chicago-area School



Moisture-controlled cleaning systems meet requirements of the U.S. Green Building Council LEED E-B.



Recognized for Safer Chemistry
www.epa.gov/dfe



CASCADE 20

Base Unit (Machine Only)	
Description	Model
Cascade 20	10416A
Cascade 20 w/ O-Zone Generator	10425A

CONTROL ALLERGENS AND ODOR WITH OZONE

Effectively neutralizes viruses, bacteria, allergens and organic substances that cause offensive odors in carpets with Cascade 20's optional Ozone assisted models. Utilizing a technology similar to in-line water purification systems used in Jacuzzis or water-treatment plants, Cascade 20's Ozone assisted machines are perfect for use in schools, hospitals and nursing homes where carpet odor is a problem. With our Ozone-assisted system, odors are eliminated immediately, leaving your space smelling fresh and clean.



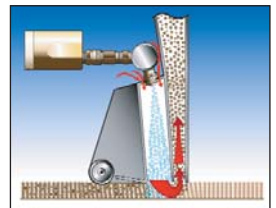
CFR CHEMICAL SYSTEMS

Specially formulated for CFR's machines and containing no volatile organic compounds (VOCs) or harmful ingredients, our recycling technology minimizes your fill and re-fill efforts. One tank of chemical will perform up to seven times the amount of usage compared to other cleaning chemicals. This results in drastically reduced cost of the chemical down to 3 cents per gallon in use.



DfE approved chemicals available

CFR is proud to offer our specially formulated CFR chemicals in a U.S. EPA approved formula. By using these chemicals and a CFR carpet extractor, you will be operating the only truly "green" carpet cleaning system in the industry.



Patented, High-Performance Atomization Wand

SPECIALTY TOOLS

The Cascade 20 can also be used as a workstation with CFR's patented, high performance hand and floor tools to clean congested carpeted areas, upholstery, fabric or covered walls, and fabric office partitions. The unit can even be used on hard surfaces such as grouted tile, walls and floors.

CASCADE 20 COMPLETE CLEANING SYSTEM	
Product	Cascade 20
Model	10416A-FR
Cleaning Path	20" (508 mm)
Tank Capacity	25 gal.
Vacuum Motor	3 stage
Waterlift	130"
CFM	92
Solution Pump (Adjustable p.s.i.)	400 p.s.i.
Drive System	Traction
Drive Motor	0.18 hp (134 watts)
Speed (Variable)	0- 114 ft / min (34.7 m / min)
Interim Cleaning Productivity	8,000 ft_ / hour (743 m_ / hour)
Restorative Cleaning Productivity	5,400 ft_ / hour (502 m_ / hour)
Vacuum Shoe	20" (508 mm)
Power (V/Amps)	120V, 15 amp
Power Cord	75' (23m) / pigtail
Jets	4 "01" quick change jets
Body Construction	rotationally molded polyethylene tank and base
Front Wheel Dimensions	Two 4" (102 mm) dia. casters
Rear Wheel Dimensions	Two 10" (254 mm) dia. casters
Machine Dimensions (LxWxH)	45" x 24" x 43"(1,143 mm x 610 mm x 1,092 mm)
Weight	202 lbs.
11" Rapid Recovery Wand (Type R)	Included in FR Kit
3" Combination Tool	Included in FR Kit
33' Flexible Hose - 1,500 P.S.I (1.5")	Included in FR Kit
Parts / Labor Warranty	1 year*
Tank Warranty	5 years*

* See full warranty for details



Unique atomization hand tool eliminates over-wetting and can even be used for cleaning office partitions!



Revolutionary, patented vacuum shoe integrates atomization of cleaning solution within the shoe.



Control panel to adjust cleaning speed.



Clam-shell design for easy access and maintenance.

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