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Model Number: 12505.1

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Manufacturer: Clean Storm

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Description

The Clean Storm 12505.1 Waste Tank Filter and Ball Float Assembly features a 1-1/2 in FIP female thread connection designed to protect vacuum motors from liquid ingestion, debris, and foam in high-performance carpet cleaning extractors and flood pumping systems. Engineered with an open-flow bottom design, this intake filter cage maximizes air volume and CFM throughput over traditional solid-bottom units, ensuring peak suction efficiency while automatically shutting off airflow when recovery tank water levels reach capacity.

Features

- High-Flow Open Bottom Construction: Delivers superior CFM airflow compared to standard solid-bottom intake filters, preventing performance drop-off during heavy extraction.
- Integrated Ball Float Valve: Automatically rises with recovery tank fluid levels to seal off the vacuum intake pipe, preventing water overflow and catastrophic vacuum motor damage.
- Durable Chemical-Resistant Cage: Built from heavy-duty, corrosion-resistant PVC filter mesh to withstand harsh cleaning solutions, high-temperature recovery water, and debris impacts.
- Direct-Thread Connection: Features standard 1-1/2 inch FIP (Female Iron Pipe / NPT) female threads for straightforward, leak-free installation onto existing tank standpipes.
- Compact 5-Inch Form Factor: Space-saving 5" overall height allows optimal clearance within standard and low-profile recovery tanks without sacrificing float travel range.

Applications

- Clean Storm Goliath Industrial Carpet Extractor Series
- Commercial Flood Extraction and Water Damage Restoration Pumper Machines
- Portable Carpet Cleaning Extractors & Truckmount Recovery Tanks
- Custom Mobile Pressure Washer Waste Recovery Systems
- Wet/Dry Commercial Vacuum Intake Line Filtering

Specifications

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Brand
Clean Storm

Model / Part Number
12505.1

Product Type
Waste Tank Filter & Ball Float Shut-Off Assembly

Connection Size & Type
1-1/2" FIP (Female Iron Pipe / NPT Straight-Taper Thread Interface)

Filter Base Design
Open-Flow Bottom Screen Mesh

Overall Height
Approximately 5.0 Inches

Material / Finish
Chemical-Resistant Molded PVC / Mesh Screen Cage

Internal Shut-off Mechanism
Hollow Polyethylene Float Ball

Operating Function
Debris Filtration & Automatic Liquid Overflow Vacuum Shut-Off

Flow Orientation
Non-Live / Static Intake Standpipe Mount

Cross-Reference SKUs

12505.1

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125051

CS-12505-1

GOLIATH-FLOAT-15

PHY1-12505.1

WTR-BALL-15FIP

Tips and Additional Information

Installation & Sealing Guidelines: Wrap male threads of the tank standpipe with 3 to 4 wraps of standard PTFE thread sealant tape or apply non-hardening pipe dope prior to threading the 1-1/2" FIP collar onto the pipe. Hand-tighten firmly; do not over-tighten with heavy metal wrenches, as excessive torque can crack PVC threads.

Pre-Operation Inspection: Ensure the float ball moves freely up and down inside the cage before reinstalling the assembly. Clean out dried lint, hair, or carpet fibers from the outer cage mesh to maintain maximum unrestricted suction during extraction operations.

Frequently Asked Questions

Q: What is the benefit of an open-flow bottom filter over a solid-bottom filter?

A: An open-flow bottom screen allows air to pass through both the sides and the bottom of the filter cage, significantly increasing total surface area and total airflow (CFM). Solid-bottom filters restrict intake to side mesh only, which can throttle vacuum pump performance when lint builds up along the sides.

Q: Will this fit standard 1-1/2" PVC pipe inside my recovery tank?

A: Yes. The 1-1/2" FIP (Female Iron Pipe) connection threads directly onto standard 1-1/2" male NPT threaded pipe fittings or adapter nipples commonly used on extractor standpipes.

Q: How does this assembly protect my vacuum motors?

A: As liquid levels rise inside the waste tank, the internal float ball floats upward. When the tank reaches full capacity, the ball seals against the top intake neck, blocking liquid from traveling down the vacuum line into the motor bearings and coils.

Warranty & Safety Information

Warranty Coverage: Clean Storm products carry a 90-day manufacturer defect warranty covering structural integrity and material failure under normal operating conditions.

Safety & Misuse Warnings: Void conditions include over-tightening leading to

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cracked thread collars, exposure to incompatible solvents (such as strong chlorinated solvents or harsh acids that degrade PVC), or operating with heavy foam without defoamer additives. Note that while the float ball stops liquid rise, fine foam can still bypass float shut-off valves; always use a chemical defoamer in recovery tanks to prevent electrical shorts and vacuum motor damage.

Availability: This product was added to our catalog on Saturday 11 August, 2012