

Built under patents  
of Hart-Carter Co.

## Type "RJ"—Reverse Jet

# Carter-Day

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A COMBUSTION EQUIPMENT ASSOCIATES COMPANY

**YESTERDAY 1881**  
A PIONEERING LEADER  
**1981 TOMORROW**  
OUR SECOND CENTURY

# Built-in pre-cleaning system, reverse jet action improve performance.

There's more to controlling air pollution than just filtering dust. Once you clean the air, you must also clean the filter media to maintain porosity, and dispose of the collected material.

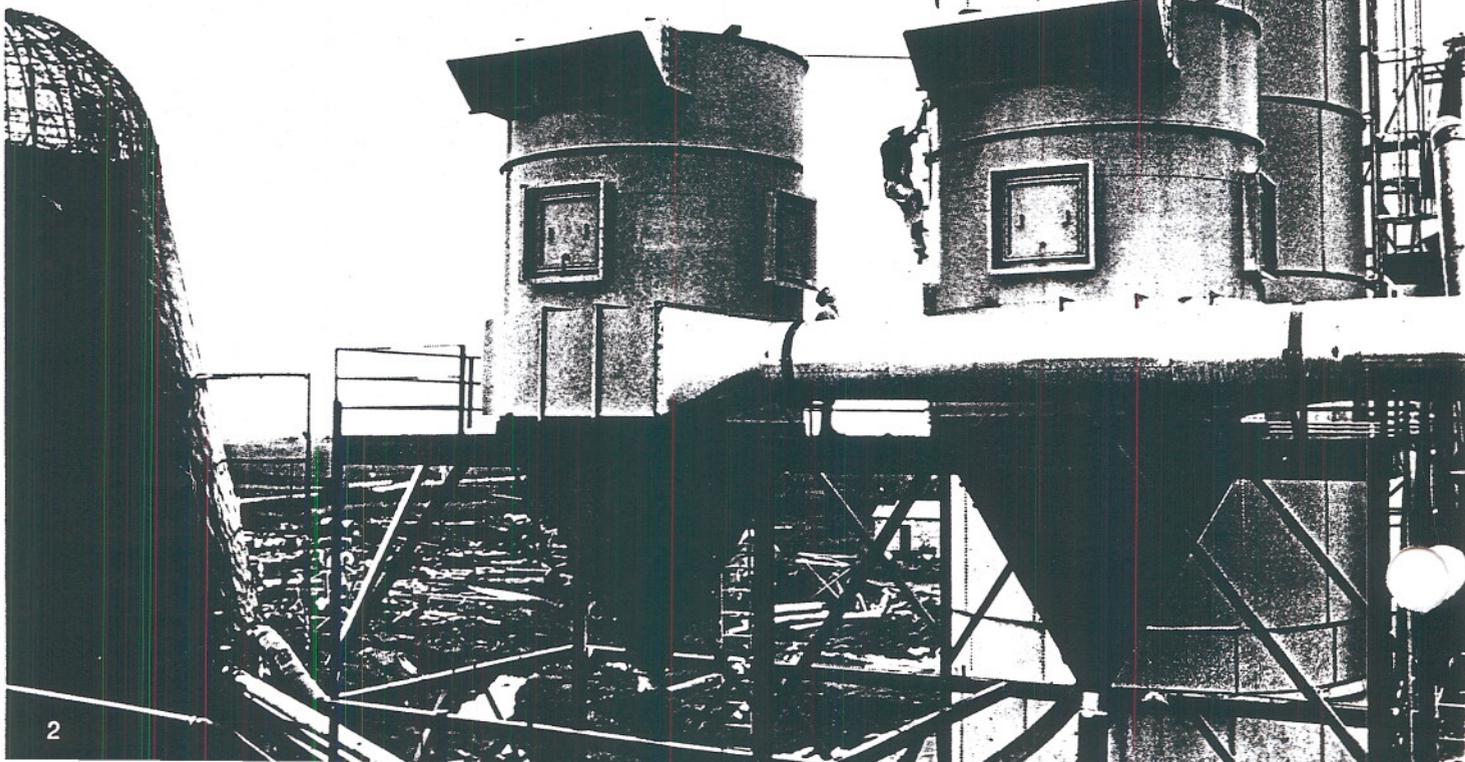
Carter-Day Type "RJ" filters combine built-in pre-cleaning of the incoming dust laden air with positive, reverse jet cleaning of the felted fabric filter tubes to produce an efficiency unmatched by any other filter. You also receive higher air-to-cloth ratios for increased capacity and low cost per CFM.

These features, along with the "RJ's" simple installation, low-cost, trouble-free operation and easy maintenance have made it an air pollution control standard for industries ranging from wood products, food, chemical processing to metallurgical.

Twenty-two sizes, with capacities from 320 CFM to more than 75,000 CFM, insure a wide selection to meet air volume requirements exactly. Or you can select a capacity high enough to handle any system expansions you might make later. Stainless steel models are also available.

Dust loading has virtually no effect upon the performance of "RJ" filters. The "RJ's" pre-cleaning system, round design and tangential inlet placement prevent incoming air from moving directly to the filter tubes. Instead, a baffle (in the 72 and 144 series) sends it spinning around the lower, cylindrical section, creating a cyclone action. This permits heavier particles to fall into the hopper directly.

*These two Carter-Day 144-RJ filters were installed in only 3 days; each is handling 30,000 CFM. They replaced 8 cyclone collectors.*



With 99.99% efficiency, the "RJ" has successfully handled such exacting problems as atmospheric air cleaning for switch gear rooms and candy manufacturing and the collection of overspray in powder coating operations. It's equally effective on highly abrasive materials such as silica, glass cullet and metallurgical dust.

On such abrasive products, the pre-cleaning provides the added benefit of extending the life of the filter tubes. Removable and replaceable wear plates help protect the filter body.

### Reverse jet restores porosity

The "RJ's" exclusive reverse jet cleaning action gets dust off the felted fabric filter media to restore porosity with much greater efficiency than conventional systems.

A high volume, low pressure blower provides air to the plenum traveling above the filter tubes in the top chamber of the filter. The plenum covers the tube opening to prevent air flow from the filter body. Inside the plenum, a butterfly valve releases a quick pulse of high velocity counter-flowing air into the tube in reverse of the filtering oper-

ation. This causes a positive snapping action which removes the dust particles entrapped on the filter media.

As the plenum moves, a trailing plate covers the cleaned filter tube to momentarily prevent particle re-entrainment by allowing more time for the dust to shower into the hopper below before normal filtering air flow resumes.

A centrifugal blower produces all the air needed for the reverse jet cleaning operation; no compressed air required which means no costly compressor motors to increase your system's operating costs.

The butterfly valve eliminates the need for complicated electro-mechanical or hydraulic sequencing devices.

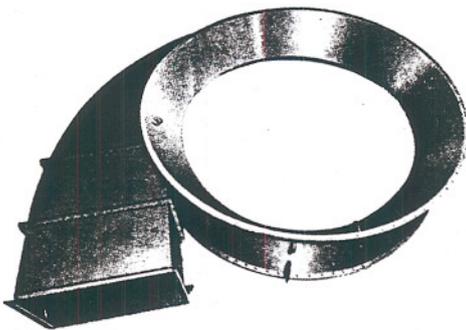
### Simple installation, easy maintenance

Because of their construction design, Carter-Day "RJ" filters offer simple field installation. Many of the filters are pre-assembled in sections when shipped. There are only three basic sections — upper clean air section, the body and the hopper. (Tubes and tube frames not pre-assembled for 72 and 144 series.) Inlets and outlets can be located in the most convenient position to fit particular installation requirements. Round design takes up less floor space.

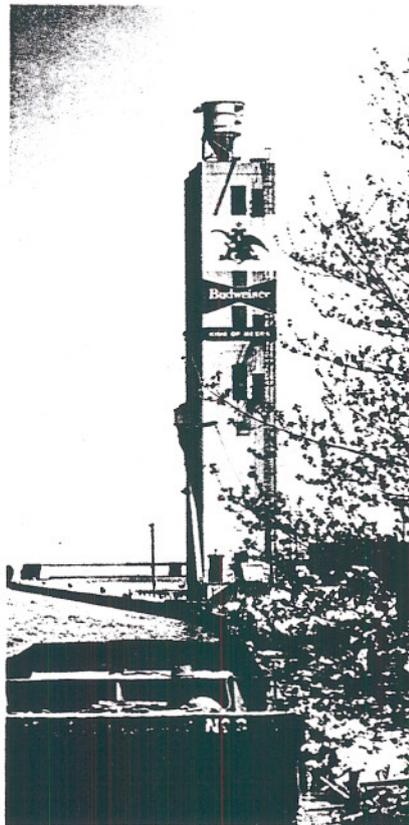
### Carter-Day Systematics

When you buy an "RJ" filter, you're also buying Carter-Day's Systematics approach to air pollution control. Our experienced application engineers will help you select the proper size filter and provide any assistance you might need with installation and start-up.

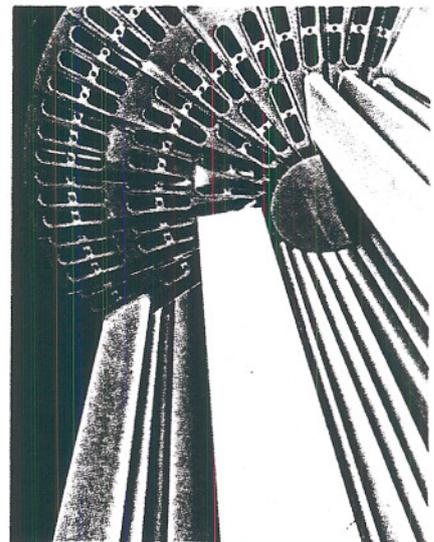
Then you'll continue to get Carter-Day's after-sale service — service which has earned a reputation for dependability and helped make Carter-Day one of the leaders in the field of industrial air pollution control.



Available in the 72 and 144 RJ series is a baffle-type pre-cleaning device pictured here. Located in the lower body section, this permits greater filter efficiency by forcing the heavier dust particles to drop out of the air stream before entering the tube filtering section.



Grain dust created during barge unloading operations by this brewer is completely controlled by the 72 series "RJ" filter atop the marine tower. This Carter-Day filter also handles the dust control of the scale weighing within the tower.

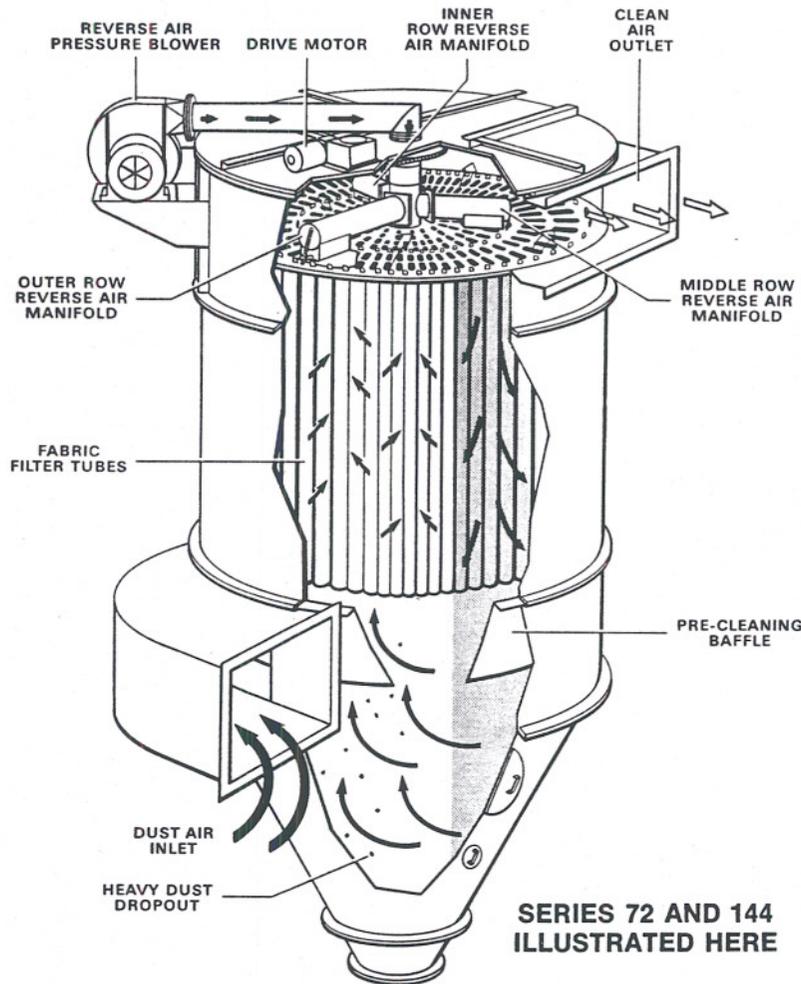


View shows the filter tube arrangement in a model 144-RJ filter. Tubes are quickly, easily removed and replaced through an access door in the filter's hopper.

**GENERAL OPERATION:** This cutaway drawing shows how an "RJ" filter operates. Air carrying the dust laden air enters the filter through the air inlet, as shown by the large black arrows. A pre-cleaning system deflects the air and prevents it from moving directly up through the felted filter tubes. Instead, it first spins around in the lower cylindrical section permitting

heavier particles to drop into the hopper. Air carrying the remaining dust moves up through the felt filter tubes, as shown by the small black arrows. The dust particles are deposited on the outside of the filter media and the cleaned air exhausted through the clean air outlet.

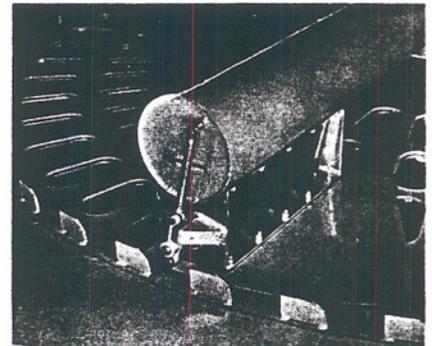
To maintain the porosity of the filter tubes, high volume low pressure air is counter-flowed through the filter tubes in reverse of the filtering action. This is shown by the blue arrows. Each filter tube is cleaned approximately once per minute, regardless of the size of the filter. The diagrams at the bottom of this page at left show how this reverse-air, counter-flow works.



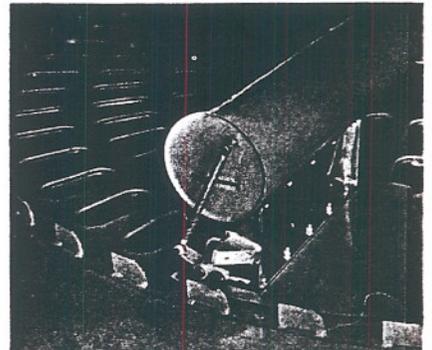
**DIAGRAM 1.** Reverse air plenum rotates in the top chamber of the filter. The butterfly valve is located in the plenum. The trigger for the valve travels along a slotted track around the inside of the filter body. When the plenum cycles between filter sleeve openings, the butterfly valve is held in the closed position and air pressure is built up in the plenum.



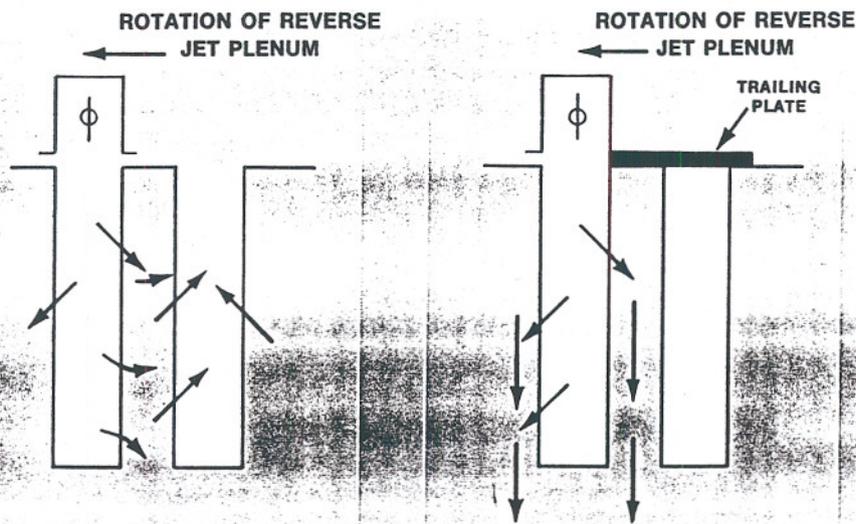
**DIAGRAM 2.** As the plenum centers over a section of filter tube openings, normal air flow from the filter body through those tubes is shut off. The trigger mechanism opens the butterfly valve and a pulse of high velocity air is counter-flowed into the filter tube in reverse of the filtering action. This causes a positive snapping action, dislodging dirt or particles from the tube and causing them to shower into the hopper below for discharge.



*This photo shows plenum moving into open position allowing a pulse of high velocity air to enter filter tubes. Photo below shows plenum cycling between filter tubes (note trigger mechanism in raised position on slotted track). Air pressure is building up in plenum when in closed position.*



*This photo shows the plate which trails the plenum. While the plenum is located over one set of tubes for cleaning, the trailing plate covers the previously cleaned set of tubes, momentarily blocking the immediate air flow through those tubes. This minimizes particle re-entrainment by allowing more time for the dust to fall away from the tubes into the hopper before filtering air flow resumes.*



These drawings show how the trailing plate on Carter-Day "RJ" filters reduce particle re-entrainment. On the left is a reverse jet filter tube without a trailing plate. The pulse of cleaning air knocks off the dust particles. They fall a short distance before filtering air flow carries them back to the filter media, and onto the filter tube previously cleaned.

Without a trailing plate, dust migrates down the filter tube in short hops, approximately 1/4 sec. fall-time duration. Only a small amount is able to fall completely away each time the tube is cleaned and some of this dust is redeposited on the previously cleaned tube. Efficiency is lost.

On the right is an illustration of a Carter-Day "RJ" filter tube with the

plate trailing the cleaning plenum. As the plenum covers one set of tubes, the plate covers the set just cleaned, preventing redeposition to the previously cleaned filter tube. This allows the dust particles more time to fall. Particles move down the tubes in longer, extended hops, from 8 to 20 times longer fall-time than the tube without the trailing plate. This action maintains a greater constant filter porosity, more efficiency and higher air-to-cloth-ratio.

**APPLICATIONS** — Thousands of Carter-Day "RJ" filters and pneumatic receivers have years of successful operation on light, medium and heavy dust concentrations and handling of low bulk density materials. They've handled applications from wood and grain dusts to such difficult materials as clay, metallurgical fumes and carbon black. Abrasive materials such as glass cullet, silica, metallurgical dusts and soda ash are no problem either.

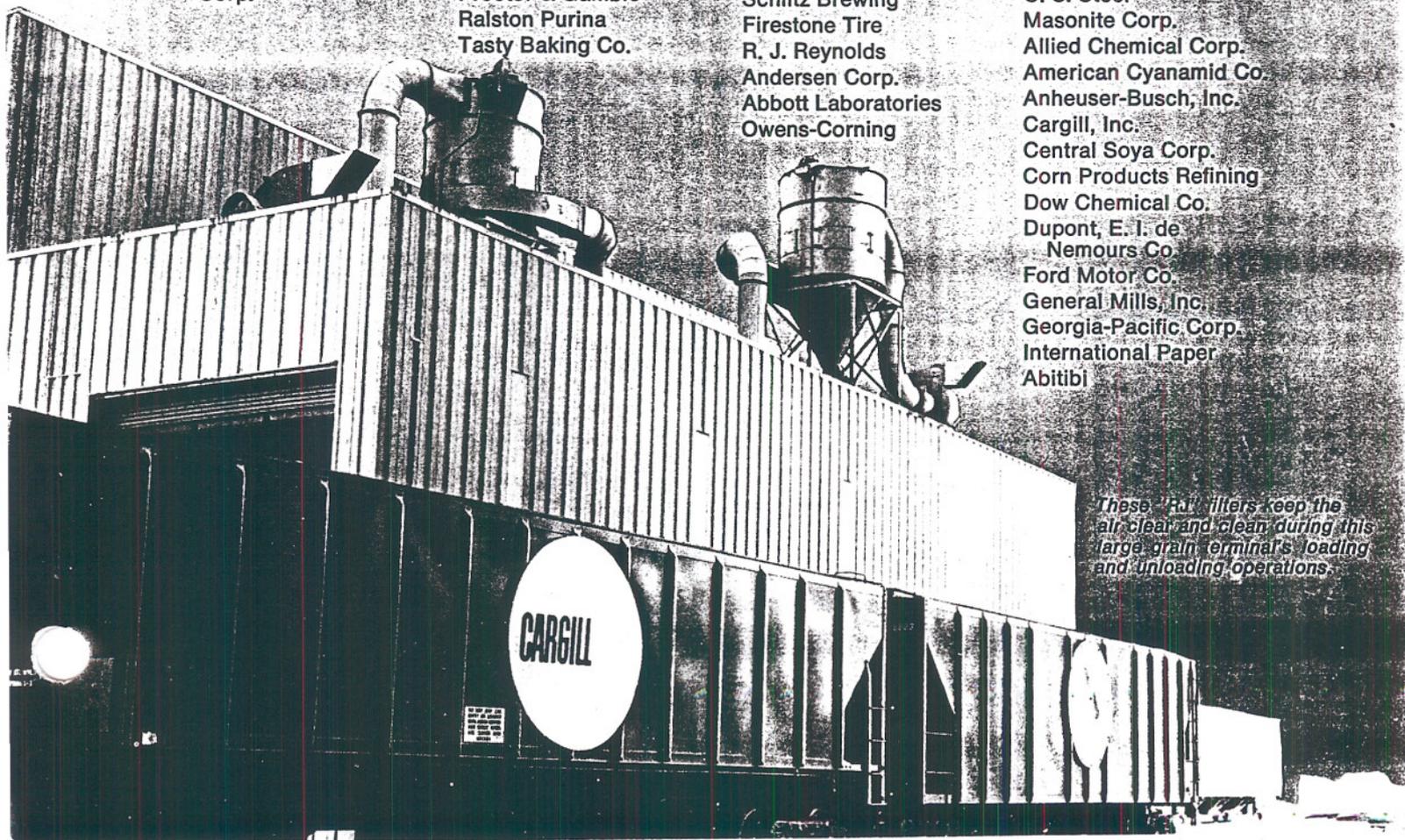
### Here's a partial list of companies using Carter-Day "RJ" Filters on a variety of products:

General Motors  
Hershey Chocolate Co.  
Kellogg  
Kraft Foods Co.  
Mallinckrodt Chemical Corp.

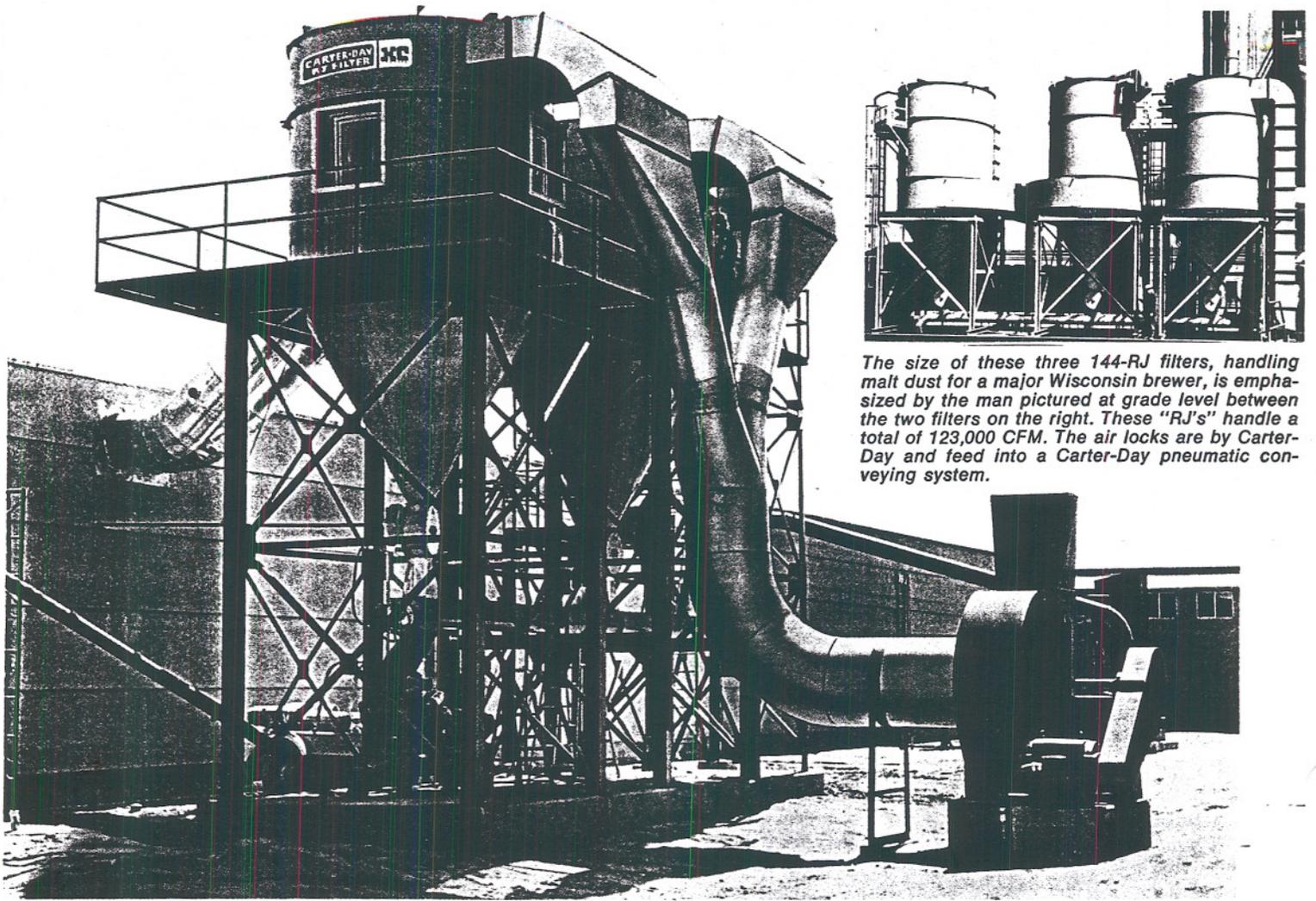
Minnesota Mining & Manufacturing  
National Biscuit Co.  
Pillsbury Mills  
General Foods  
Proctor & Gamble  
Ralston Purina  
Tasty Baking Co.

Weyerhaeuser  
Kimberly-Clark  
Campbell Soup  
Union Carbide  
Hercules  
Schlitz Brewing  
Firestone Tire  
R. J. Reynolds  
Andersen Corp.  
Abbott Laboratories  
Owens-Corning

U. S. Plywood  
Broyhill Furniture  
Burlington House Furniture  
Boise Cascade  
U. S. Steel  
Masonite Corp.  
Allied Chemical Corp.  
American Cyanamid Co.  
Anheuser-Busch, Inc.  
Cargill, Inc.  
Central Soya Corp.  
Corn Products Refining  
Dow Chemical Co.  
Dupont, E. I. de Nemours Co.  
Ford Motor Co.  
General Mills, Inc.  
Georgia-Pacific Corp.  
International Paper  
Abitibi



*These "RJ" filters keep the air clear and clean during this large grain terminal's loading and unloading operations.*



The size of these three 144-RJ filters, handling malt dust for a major Wisconsin brewer, is emphasized by the man pictured at grade level between the two filters on the right. These "RJ's" handle a total of 123,000 CFM. The air locks are by Carter-Day and feed into a Carter-Day pneumatic conveying system.

For the forest products industry, these Carter-Day "RJ" filters handle with ease wood dust loadings from straight sander dust to heavy hog surges.

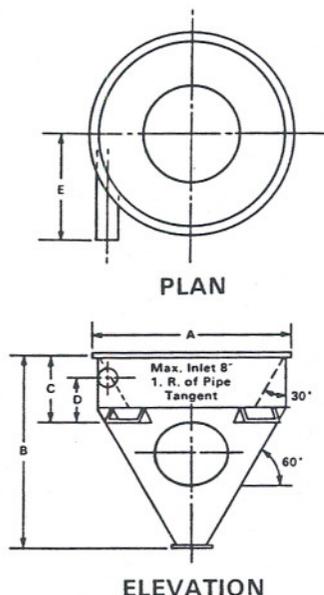
## Pneumatic Inlet Hoppers

for high flow-rate systems such as Pneumatic Conveying, Pulverizers, etc.

FILTER SIZE	A	B	C	D	E
12L-RJ	4'-9 3/4"	4'-7 3/4"	1'-7 3/4"	12 3/4"	2'-6 3/4"
24-RJ	6'-7 3/4"	6'-1 1/2"	1'-8 3/4"	1'-1 3/4"	3'-5"

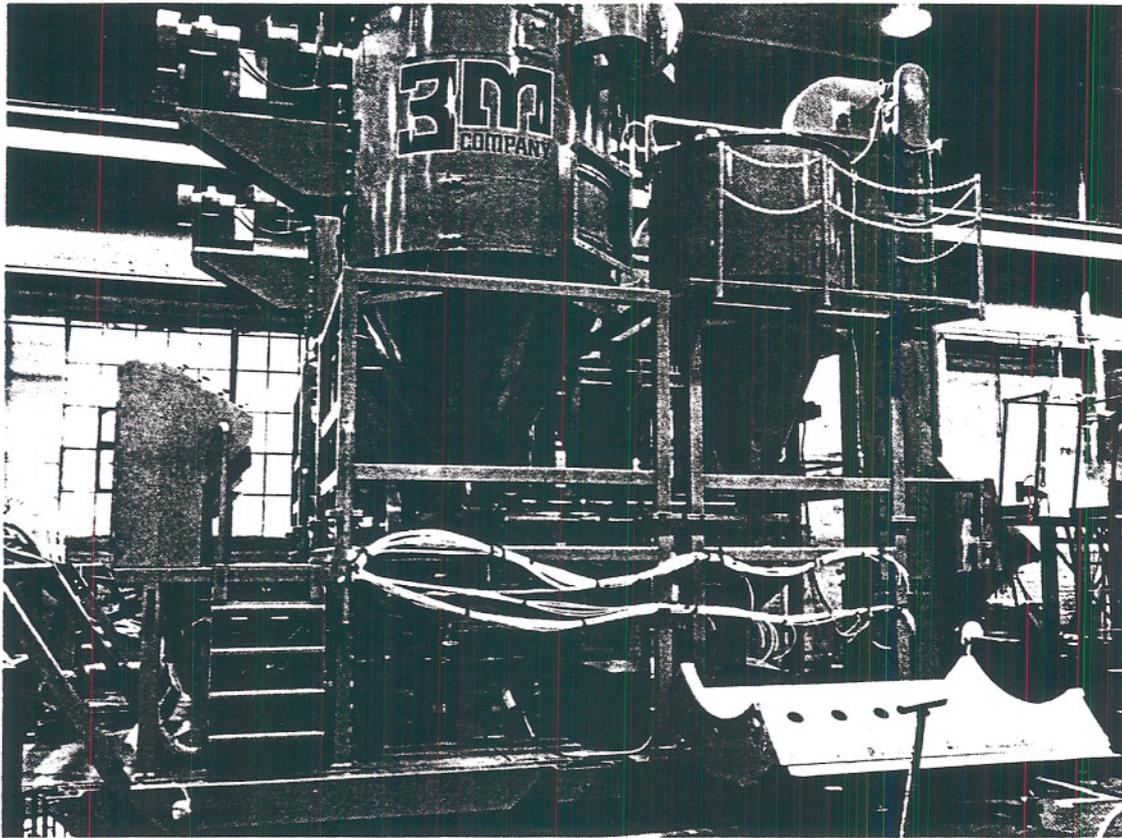
Dimensions and specifications subject to change without notice or obligation. Contact representative or CEA • Carter-Day office for certified drawings.

NOTE: Hopper height depends upon discharge size. Give flange details desired.



## Free lab testing

We can do more than just tell you how efficient Carter-Day "RJ" filters and pneumatic receivers are. We can show you, using actual production size filters. We'll simulate your problem in our lab, including dust loading conditions and the materials you need filtered or conveyed. We can then select equipment best suited to your requirements.



This 3M powder coating system, exclusively utilizing Carter-Day "RJ" filters, was used in three Alaskan plants of Surfco, Inc., for powder coating hundreds of miles of pipeline. Carter-Day filters recaptured

overspray and returned it to the spraying operations; permitting no outside or inside emissions to violate air pollution codes or OSHA regulations.

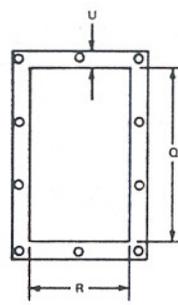
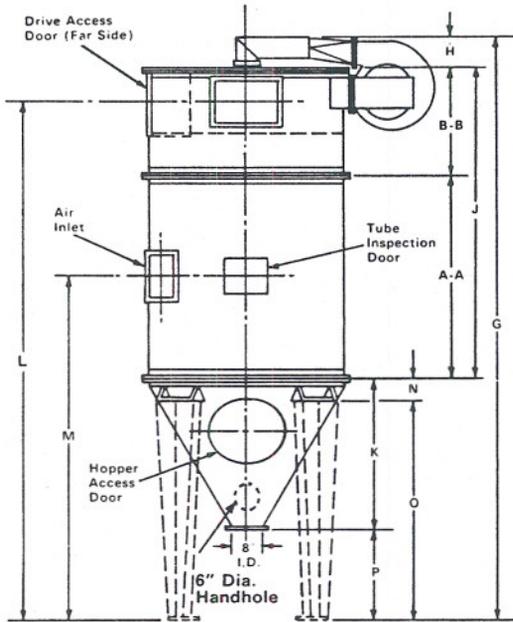
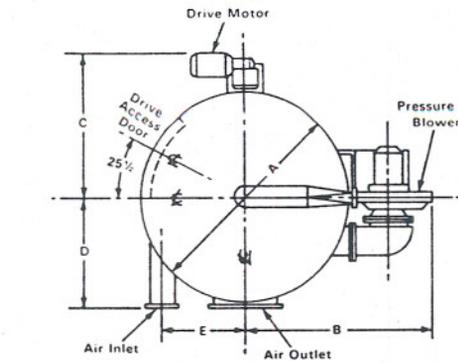
### Capacity Table for Carter-Day "RJ" Filters

Filter No.	Cloth Area Sq. Ft.	Cubic Feet of Air/Min. (CFM)				No. Sleeves	Sleeve Lgth.	Blower No.	Blower H.P.	Drive H.P.
		Air to Media Ratio								
		5	10	15	20					
12LRJ24	64	320	640	960	1280	12	24	3A6	2	½
12LRJ37	100	500	1000	1500	2000	12	37	3A6	2	½
12LRJ48	127	635	1270	1905	2540	12	48	3A6	3	½
12LRJ60	160	800	1600	2400	3200	12	60	3A6	3	½
12LRJ72	193	965	1930	2895	3860	12	72	4A	5	½
24RJ37	200	1000	2000	3000	4000	24	37	3A6	2	½
24RJ48	255	1300	2600	3900	5200	24	48	3A6	3	½
24RJ60	320	1600	3200	4800	6400	24	60	3A6	3	½
24RJ72	385	1925	3850	5775	7700	24	72	4A	5	½
24RJ84	448	2240	4480	6720	8960	24	84	4A	7½	½
24RJ96	510	2550	5100	7650	10200	24	96	4A	7½	½
72RJ37	600	3000	6000	9000	12000	72	37	4A	5	½
72RJ48	765	3825	7650	11475	15300	72	48	4A	7½	½
72RJ60	960	4800	9600	14400	19200	72	60	4A	7½	½
72RJ72	1155	5775	11550	17325	23100	72	72	4A	10	½
72RJ84	1340	6700	13400	20100	26800	72	84	4B	15	½
72RJ96	1530	7650	15300	22950	30600	72	96	4B	15	½
144RJ60	1920	9600	19200	28800	38400	144	60	4B	15	½
144RJ72	2300	11500	23000	34500	46000	144	72	4B	15	½
144RJ84	2680	13400	26800	40200	53600	144	84	4B	20	½
144RJ96	3060	15300	30600	45900	61200	144	96	4B	20	½
144RJ120	3825	19125	38250	57375	76500	144	120	4B	25	½

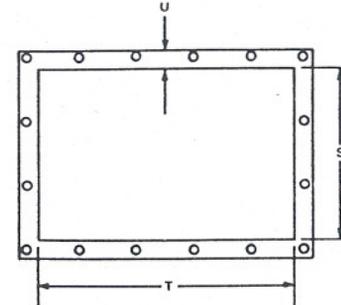
# "RJ" FILTER DIMENSIONS

Service platforms, ladders,

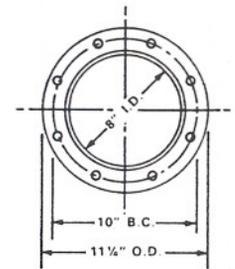
## SERIES 12L-RJ



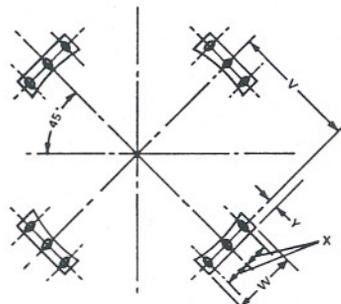
AIR INLET



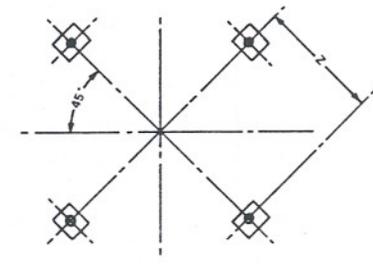
AIR OUTLET



HOPPER OUTLET



HOPPER FOUNDATION PLAN



FOUNDATION PLAN

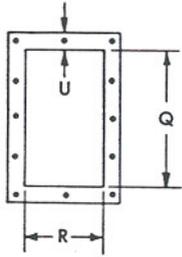
FILTER SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
12LRJ24	4'-9 3/8"	4'-4 1/8"	3'-3 3/8"	2'-6 3/8"	1'-11 1/2"	—	10'-4 1/16"	8 3/4"	4'-1 1/16"	3'-6"	8'-10 3/8"	6'-4 3/8"	6"	5'-0 3/8"	2'-0 3/8"
12LRJ37	4'-9 3/8"	4'-4 1/8"	3'-3 3/8"	2'-6 3/8"	1'-11 1/2"	—	11'-5 1/16"	8 3/4"	5'-2 3/16"	3'-6"	9'-11 3/8"	6'-11 3/8"	6"	5'-0 3/8"	2'-0 3/8"
12LRJ48	4'-9 3/8"	4'-4 1/8"	3'-3 3/8"	2'-6 3/8"	1'-11 1/2"	—	12'-4 1/16"	8 3/4"	6'-1 1/16"	3'-6"	10'-10 3/8"	7'-4 3/8"	6"	5'-0 3/8"	2'-0 3/8"
12LRJ60	4'-9 3/8"	4'-4 1/8"	3'-3 3/8"	2'-6 3/8"	1'-11 1/2"	—	13'-4 1/16"	8 3/4"	7'-1 1/16"	3'-6"	11'-10 3/8"	7'-10 3/8"	6"	5'-0 3/8"	2'-0 3/8"
12LRJ72	4'-9 3/8"	4'-2 1/4"	3'-3 3/8"	2'-6 3/8"	1'-11 1/2"	—	14'-5 3/4"	9 9/16"	8'-1 1/16"	3'-6"	12'-10 3/8"	8'-4 3/8"	6"	5'-0 3/8"	2'-0 3/8"
24RJ37	6'-7 7/8"	5'-2 3/8"	4'-3 3/4"	3'-5"	2'-8 3/8"	—	12'-11 15/16"	8 3/4"	5'-2 3/16"	5'-0 3/8"	11'-6"	8'-5 1/2"	7"	6'-6"	2'-0 3/8"
24RJ48	6'-7 7/8"	5'-2 3/8"	4'-3 3/4"	3'-5"	2'-8 3/8"	—	13'-10 15/16"	8 3/4"	6'-1 3/16"	5'-0 3/8"	12'-5"	8'-11"	7"	6'-6"	2'-0 3/8"
24RJ60	6'-7 7/8"	5'-2 3/8"	4'-3 3/4"	3'-5"	2'-8 3/8"	—	14'-10 15/16"	8 3/4"	7'-1 3/16"	5'-0 3/8"	13'-5"	9'-5"	7"	6'-6"	2'-0 3/8"
24RJ72	6'-7 7/8"	6'-1"	4'-3 3/4"	3'-5"	2'-8 3/8"	—	16'-0"	9 9/16"	8'-1 3/16"	5'-0 3/8"	14'-5"	9'-11"	7"	6'-6"	2'-0 3/8"
24RJ84	6'-7 7/8"	6'-1"	4'-3 3/4"	3'-5"	2'-8 3/8"	—	17'-0"	9 9/16"	9'-1 3/16"	5'-0 3/8"	15'-5"	10'-5"	7"	6'-6"	2'-0 3/8"
24RJ96	6'-7 7/8"	6'-1"	4'-3 3/4"	3'-5"	2'-8 3/8"	—	18'-0"	9 9/16"	10'-1 3/16"	5'-0 3/8"	16'-5"	10'-11"	7"	6'-6"	2'-0 3/8"

Dimensions and specifications subject to change without notice or obligation. Contact representative or Carter-Day office for certified drawings.

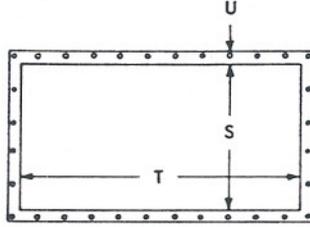
# AND SPECIFICATIONS

explosion doors optional.

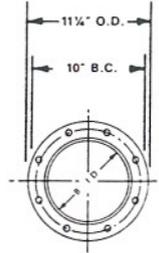
## SERIES 24



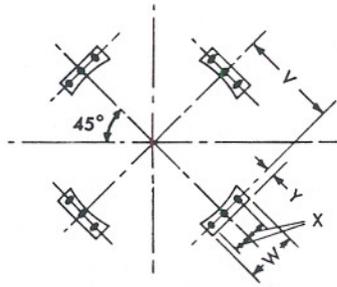
AIR INLET



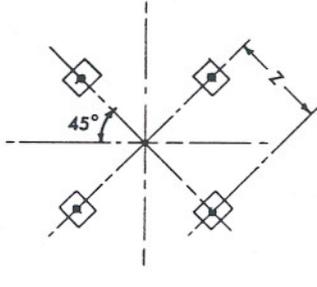
AIR OUTLET



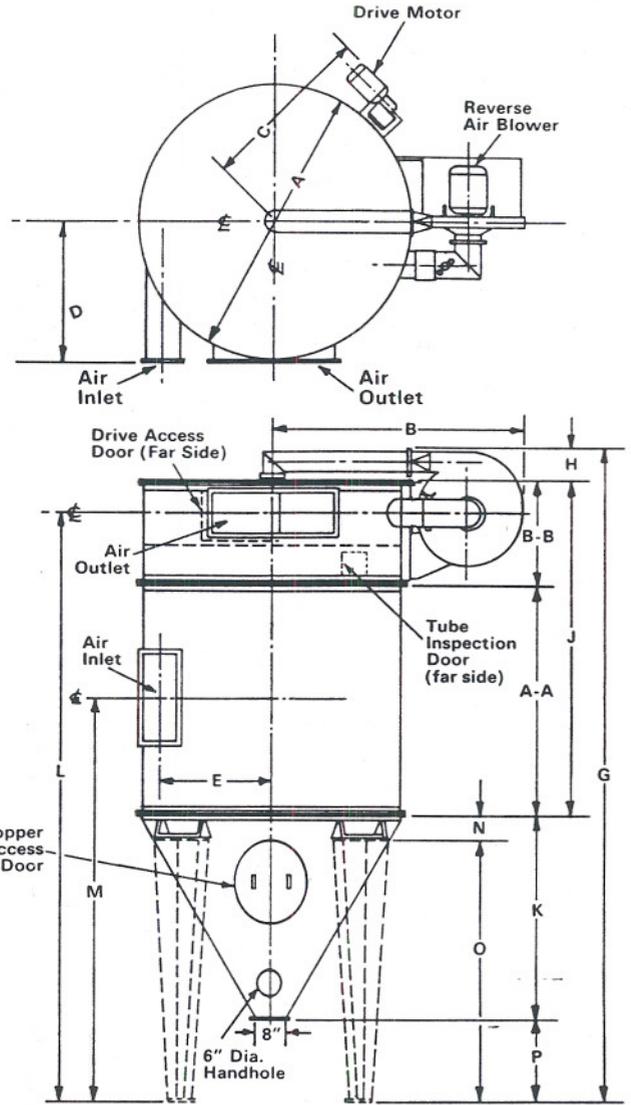
HOPPER OUTLET



HOPPER FOUNDATION PLAN



FOUNDATION PLAN

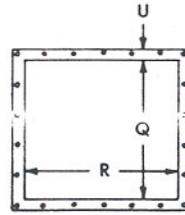
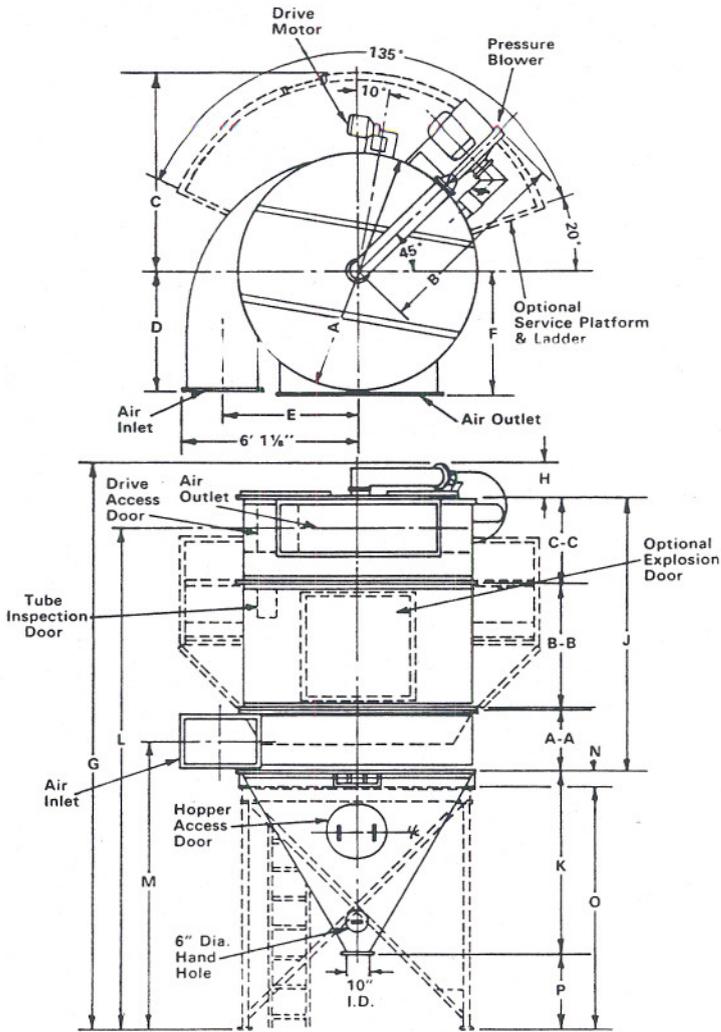


Q	R	S	T	U	V	W	X	Y	Z	A-A	B-B	C-C	HP of DRIVE MOTOR*	HP of BLOWER MOTOR*	FILTER SIZE
1'-0"	7"	1'-0"	1'-6"	1 1/2"	2'-2 3/8"	1'-1 1/4"	5 1/2"	1 1/8"	2'-1 1/4"	1'-8"	2'-5 5/8"	—	1/2	2	12LRJ24
1'-0"	7"	1'-0"	1'-6"	1 1/2"	2'-2 3/8"	1'-1 1/4"	5 1/2"	1 1/8"	2'-1 1/4"	2'-9"	2'-5 5/8"	—	1/2	2	12LRJ37
1'-0"	7"	1'-0"	1'-6"	1 1/2"	2'-2 3/8"	1'-1 1/4"	5 1/2"	1 1/8"	2'-1 1/4"	3'-8"	2'-5 5/8"	—	1/2	3	12LRJ48
1'-0"	7"	1'-0"	1'-6"	1 1/2"	2'-2 3/8"	1'-1 1/4"	5 1/2"	1 1/8"	2'-1 1/4"	4'-8"	2'-5 5/8"	—	1/2	3	12LRJ60
1'-6"	7"	1'-0"	1'-6"	1 1/2"	2'-2 3/8"	1'-1 1/4"	5 1/2"	1 1/8"	2'-1 1/4"	5'-8"	2'-5 5/8"	—	1/2	5	12LRJ72
1'-4 1/2"	10"	1'-0"	2'-0"	1 1/2"	3'-0 7/8"	1'-5 5/8"	7"	2 1/8"	2'-11 1/2"	2'-9"	2'-5 5/8"	—	1/2	2	24RJ37
1'-4 1/2"	10"	1'-0"	2'-0"	1 1/2"	3'-0 7/8"	1'-5 5/8"	7"	2 1/8"	2'-11 1/2"	3'-8"	2'-5 5/8"	—	1/2	3	24RJ48
1'-4 1/2"	10"	1'-0"	2'-0"	1 1/2"	3'-0 7/8"	1'-5 5/8"	7"	2 1/8"	2'-11 1/2"	4'-8"	2'-5 5/8"	—	1/2	3	24RJ60
2'-2"	10"	1'-0"	3'-0"	1 1/2"	3'-0 7/8"	1'-5 5/8"	7"	2 1/8"	2'-11 1/2"	5'-8"	2'-5 5/8"	—	1/2	5	24RJ72
2'-2"	10"	1'-0"	3'-0"	1 1/2"	3'-0 7/8"	1'-5 5/8"	7"	2 1/8"	2'-11 1/2"	6'-8"	2'-5 5/8"	—	1/2	7 1/2	24RJ84
2'-6"	10"	1'-0"	3'-0"	1 1/2"	3'-0 7/8"	1'-5 5/8"	7"	2 1/8"	2'-11 1/2"	7'-8"	2'-5 5/8"	—	1/2	7 1/2	24RJ96

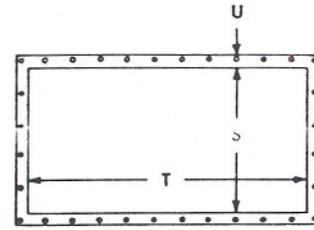
\*Motors: Standard motors are TEFC type for 230-460 volt, 3 phase, 60 cycle current. Other motor types available.

# "RJ" FILTER DIMENSIONS

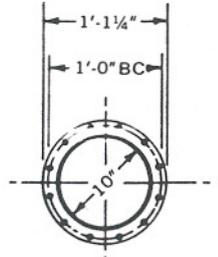
## SERIES 72



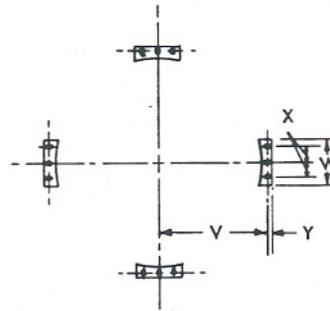
AIR INLET



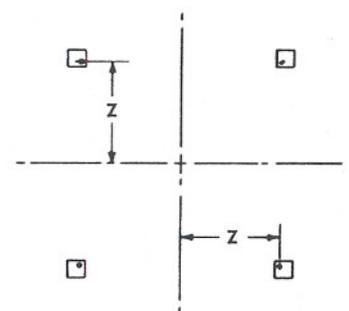
AIR OUTLET



HOPPER OUTLET



HOPPER FOUNDATION PLAN



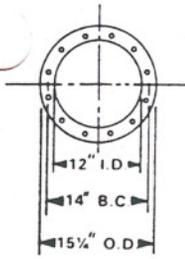
FOUNDATION PLAN

FILTER SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
72RJ37	8'-4"	6'-11 1/2"	6'-11"	4'-2"	4'-8 1/2"	4'-4"	17'-2 5/16"	1'-1 1/2"	7'-1 1/16"	6'-4 7/8"	15'-0 3/8"	9'-9 1/16"	6 1/2"	8'-5 1/2"	2'-7 7/8"
72RJ48	8'-4"	6'-11 1/2"	6'-11"	4'-2"	4'-8 1/2"	4'-4"	18'-1 1/16"	1'-1 1/2"	8'-0 1/16"	6'-4 7/8"	15'-11 3/4"	9'-9 1/16"	6 1/2"	8'-5 1/2"	2'-7 7/8"
72RJ60	8'-4"	6'-11 1/2"	6'-11"	4'-2"	4'-8 1/2"	4'-4"	19'-8 1/16"	1'-1 1/2"	9'-7 7/16"	6'-4 7/8"	17'-6 3/8"	10'-1 1/16"	6 1/2"	8'-5 1/2"	2'-7 7/8"
72RJ72	8'-4"	6'-11 1/2"	6'-11"	4'-2"	4'-8 1/2"	4'-4"	20'-8 1/16"	1'-1 1/2"	10'-7 7/16"	6'-4 7/8"	18'-6 3/8"	10'-1 1/16"	6 1/2"	8'-5 1/2"	2'-7 7/8"
72RJ84	8'-4"	6'-11 1/2"	6'-11"	4'-2"	4'-8 1/2"	4'-4"	22'-4 1/16"	1'-1 1/2"	12'-3 7/16"	6'-4 7/8"	20'-2 3/8"	10'-5 3/16"	6 1/2"	8'-5 1/2"	2'-7 7/8"
72RJ96	8'-4"	6'-11 1/2"	6'-11"	4'-2"	4'-8 1/2"	4'-4"	23'-4 1/16"	1'-1 1/2"	13'-3 7/16"	6'-4 7/8"	21'-2 3/8"	10'-5 3/16"	6 1/2"	8'-5 1/2"	2'-7 7/8"
144RJ60	11'-7 7/8"	8'-8 3/4"	11'-1"	5'-9 3/4"	7'-1 1/16"	6'-0"	24'-6 9/16"	1'-1 1/2"	10'-7 7/16"	9'-1 1/4"	22'-2 3/8"	14'-2 3/8"	6 1/2"	12'-3"	3'-7 7/8"
144RJ72	11'-7 7/8"	8'-8 3/4"	11'-1"	5'-9 3/4"	7'-1 1/16"	6'-0"	25'-6 9/16"	1'-1 1/2"	11'-7 7/16"	9'-1 1/4"	23'-2 3/8"	14'-2 3/8"	6 1/2"	12'-3"	3'-7 7/8"
144RJ84	11'-7 7/8"	8'-8 3/4"	11'-1"	5'-9 3/4"	7'-1 1/16"	6'-0"	27'-3 9/16"	1'-1 1/2"	13'-4 7/16"	9'-1 1/4"	24'-11 3/8"	14'-7 1/4"	6 1/2"	12'-3"	3'-7 7/8"
144RJ96	11'-7 7/8"	8'-8 3/4"	11'-1"	5'-9 3/4"	7'-1 1/16"	6'-0"	28'-3 9/16"	1'-1 1/2"	14'-4 7/16"	9'-1 1/4"	25'-11 3/8"	14'-7 1/4"	6 1/2"	12'-3"	3'-7 7/8"
144RJ120	11'-7 7/8"	8'-8 3/4"	11'-1"	5'-9 3/4"	7'-1 1/16"	6'-0"	32'-3 3/4"	1'-1 1/2"	18'-4 7/16"	9'-1 1/4"	29'-11"	14'-11 1/4"	6 1/2"	12'-3"	3'-7 7/8"

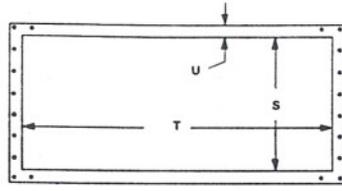
Dimensions and specifications subject to change without notice or obligation. Contact representative or Carter-Day office for certified drawings.

# AND SPECIFICATIONS

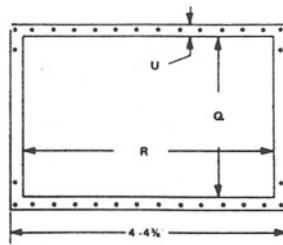
## SERIES 144



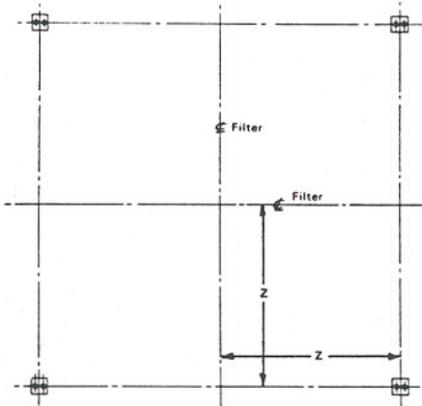
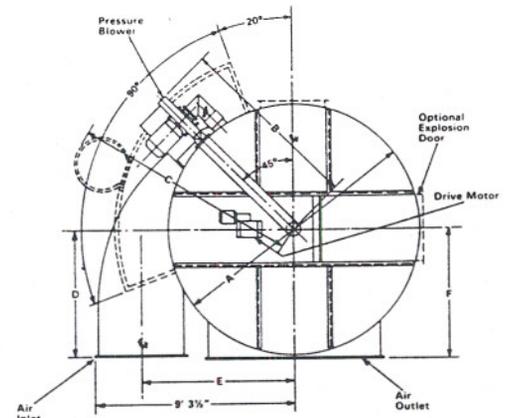
HOPPER OUTLET



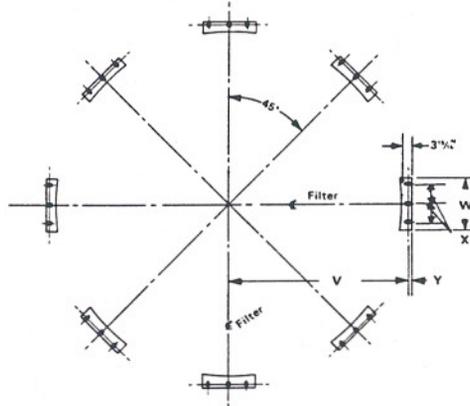
AIR OUTLET



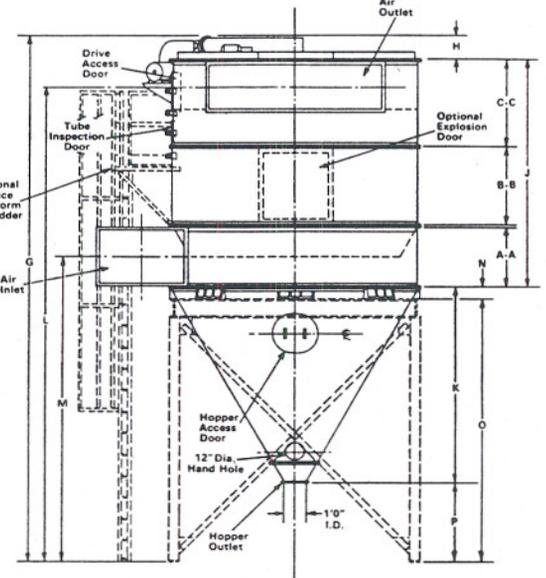
AIR INLET



FOUNDATION PLAN

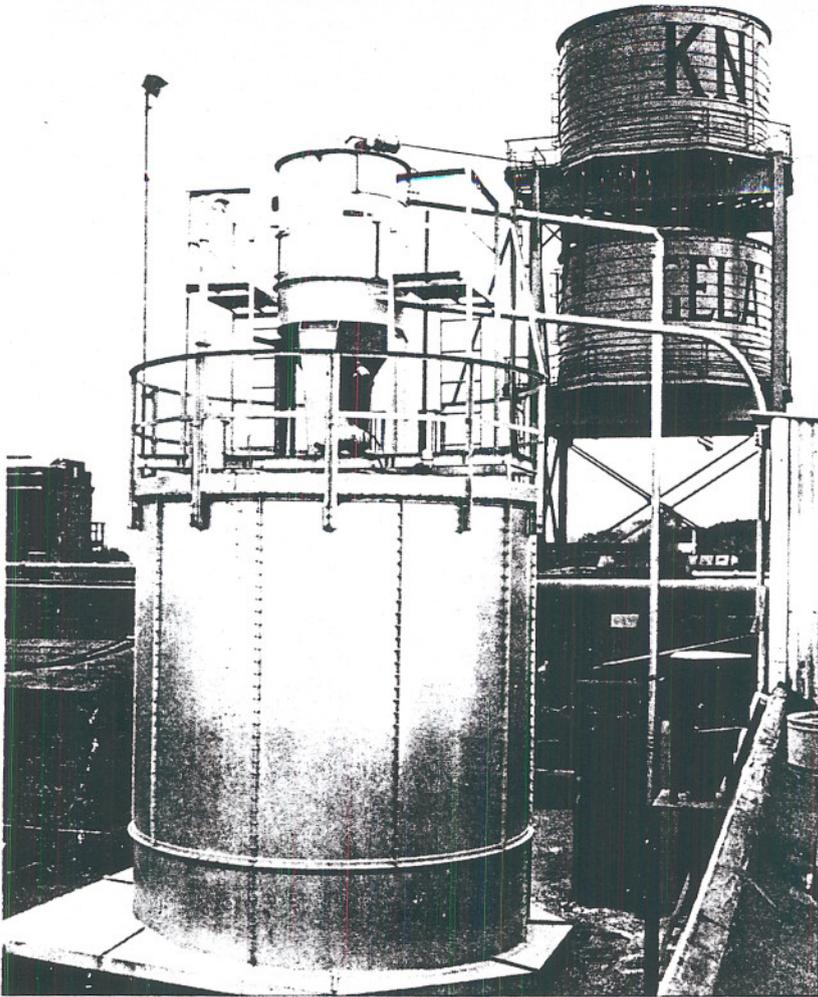


HOPPER FOUNDATION PLAN

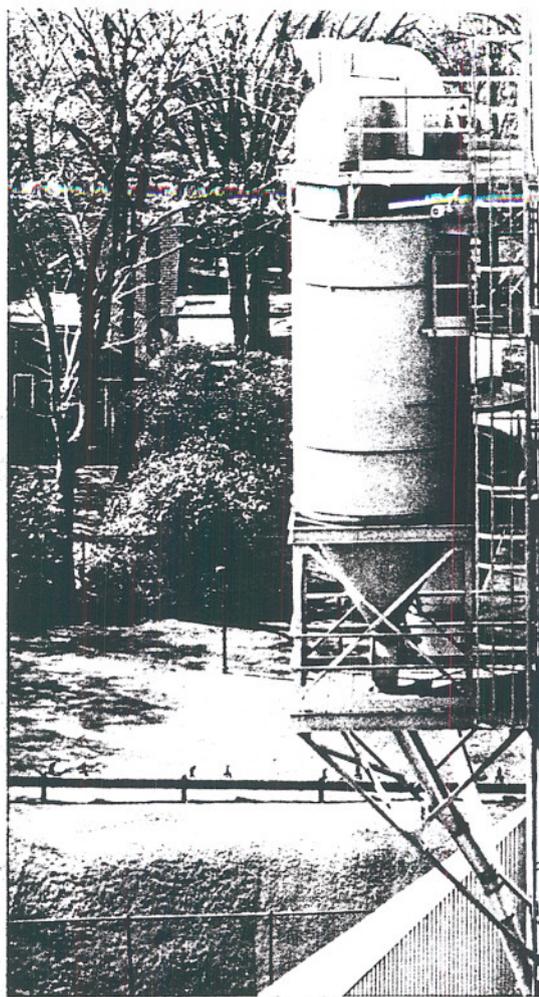


Q	R	S	T	U	V	W	X	Y	Z	A-A	B-B	C-C	HP of DRIVE MOTOR*	HP of BLOWER MOTOR*	FILTER SIZE
1'-3"	2'-6"	1'-8 3/4"	5'-6"	1 1/8"	4'-0 3/4"	1'-8"	7 1/4"	3/4"	3'-9 1/8"	1'-7 3/8"	2'-5 1/16"	3'-0 1/4"	1/2	5	72RJ37
1'-3"	2'-6"	1'-8 3/4"	5'-6"	1 1/8"	4'-0 3/4"	1'-8"	7 1/4"	3/4"	3'-9 1/8"	1'-7 3/8"	3'-4 3/16"	3'-0 1/4"	1/2	7 1/2	72RJ48
1'-10"	2'-6"	1'-8 3/4"	5'-6"	1 1/8"	4'-0 3/4"	1'-8"	7 1/4"	3/4"	3'-9 1/8"	2'-2 3/8"	4'-4 1/16"	3'-0 1/4"	1/2	7 1/2	72RJ60
1'-10"	2'-6"	1'-8 3/4"	5'-6"	1 1/8"	4'-0 3/4"	1'-8"	7 1/4"	3/4"	3'-9 1/8"	2'-2 3/8"	5'-4 1/16"	3'-0 1/4"	1/2	10	72RJ72
2'-6"	2'-6"	1'-8 3/4"	5'-6"	1 1/8"	4'-0 3/4"	1'-8"	7 1/4"	3/4"	3'-9 1/8"	2'-10 3/8"	6'-4 1/16"	3'-0 1/4"	1/2	15	72RJ84
2'-6"	2'-6"	1'-8 3/4"	5'-6"	1 1/8"	4'-0 3/4"	1'-8"	7 1/4"	3/4"	3'-9 1/8"	2'-10 3/8"	7'-4 1/16"	3'-0 1/4"	1/2	15	72RJ96
2'-6"	4'-0"	2'-1"	8'-0"	2 3/16"	5'-8 9/16"	1'-8"	7 1/4"	3/4"	5'-7 1/16"	2'-10 1/2"	3'-8 1/16"	4'-0 1/4"	1/2	15	144RJ60
2'-6"	4'-0"	2'-1"	8'-0"	2 3/16"	5'-8 9/16"	1'-8"	7 1/4"	3/4"	5'-7 1/16"	2'-10 1/2"	4'-8 1/16"	4'-0 1/4"	1/2	15	144RJ72
3'-3"	4'-0"	2'-1"	8'-0"	2 3/16"	5'-8 9/16"	1'-8"	7 1/4"	3/4"	5'-7 1/16"	3'-7 1/2"	5'-8 1/16"	4'-0 1/4"	1/2	20	144RJ84
3'-3"	4'-0"	2'-1"	8'-0"	2 3/16"	5'-8 9/16"	1'-8"	7 1/4"	3/4"	5'-7 1/16"	3'-7 1/2"	6'-8 1/16"	4'-0 1/4"	1/2	20	144RJ96
4'-0"	4'-0"	2'-1"	8'-0"	2 3/16"	5'-8 9/16"	1'-8"	7 1/4"	3/4"	5'-7 1/16"	4'-4 1/2"	9'-11 1/2"	4'-0 1/4"	1/2	25	144RJ120

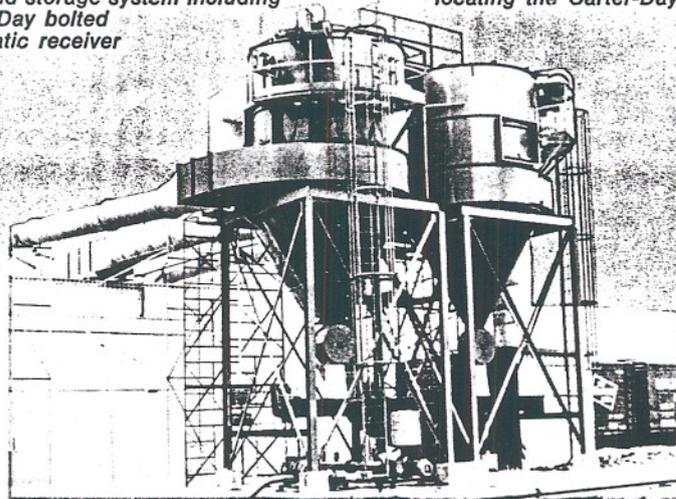
\*Motors: Standard motors are TEFC type for 230-460 volt, 3 phase, 60 cycle current. Other motor types available.



*This New Jersey gelatin producer is equipped with a Carter-Day pneumatic conveying and storage system including the "RJ" receiver atop the Carter-Day bolted steel tank. The Carter-Day pneumatic receiver is handling dicalcium phosphate.*



*This installation economically solves a space problem by locating the Carter-Day dust control system's suction fan top the Carter-Day "RJ" fi*



*This wood dust filtration system uses two 144-series "RJ" filters for a particle board plant.*

## CARTER-DAY COMPANY

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