

AARON PROCESS EQUIPMENT COMPANY, INC.

DUST COLLECTORS



PROCESS EQUIPMENT COMPANY INC

9301 W. BERNICE ST. SCHILLER PARK, IL 60176 312/678-1500 TX. 28-9454

MFGR. OF MACHINERY AND EQUIPMENT FOR THE PROCESS INDUSTRIES

The Aaron Process Equipment Company designs and manufactures a complete line of pulse-jet type dust collectors. These collectors are capable of meeting current federal, state and local air pollution codes.

The Aaron Process Equipment Company collector is a continuous duty, self cleaning type. It operates effectively and economically on an extremely wide range of dry materials and over a wide range of CFM's and loadings from filtering atmospheric air to handling the load of a pneumatic conveying system.

Aaron Process Equipment Company's working team has the technical abilities and experience to assist you in choosing the proper dust collectors for your system.

THE FINEST IN NEW PROCESS EQUIPMENT SERVING INDUSTRY

HOW THE AARON PROCESS EQUIPMENT PULSE-JET OPERATES



The particulate laden air enters the dust collector by means of an inlet tube into the dirty air chamber. Upon entering the dirty air chamber, the velocity of the conveying air is immediately reduced allowing some of the larger and heavier particles to drop to the bottom discharge. The finer particles remain suspended in the air stream and rise to the filter area. Air is free to pass through the felted filter media while the fine dust particles are trapped and accumulated on the outside of the filter bag.

The bags are cleaned by removing this accumulation of dust cake with a momentary blast of high pressure air. This injection of air shoots into a precision made nozzle inside the filter element, which immediately stops the normal upward flow of air and sends a shock wave which flexes the bag, dislodging the dust cake on the outside of the filter. The compressed air then passes through the filter media washing additional dust from the media, resulting in a clean bag which is immediately returned on stream. The entire cleaning cycle is automatically controlled through a programming module and series of valves and is accomplished in less than 1/10 second.



EACH AARON PROCESS EQUIPMENT COLLECTOR INCLUDES THE FOLLOWING:

COMPLETE HOUSING	Consisting of a clean air plenum, dirty air plenum, plenum divider with caps and 60 degree hopper section for discharge of product.
PRIMED EXTERIOR	Medium oil alkyd primer.
STUB DIRTY GAS INLET	Flanged inlet available at additional cost.
STUB CLEAN GAS OUTLET	Flanged outlet available at additional cost.
FLANGED DUST DISCHARGE	Standard unless otherwise specified.
HEAVY DUTY PLENUM DIVIDER	Designed for 17" W.G. differential.
LARGE MAN SERVICE DOOR IN DIRTY AIR PLENUM	Every unit is supplied with one man access door.
CLEAN AIR PLENUM SERVICE PORT	Most units include a service port on the clean side for inspection and cleaning. Please see specific collector series to determine if there will be one on your unit.
FILTERS	One set 16 oz. (nominal) polyester felt filter bags. One set of filter supports.
ONE PROGRAMMING MODULE	A timing and sequencing device of proven design incorporating the latest in mechanical and solid state circuitry.
NEMA IV ELECTRICAL ENCLOSURES	Other ratings are available at additional cost.
PRESSURE DIFFERENTIAL GAUGE	A magnehelic gauge is standard.
INTERNAL SERVICE PLATFORM	Standard on round units over 3' dia. and the baghouse series. It is a recommended option in square units over 3' square.

AARON PROCESS EQUIPMENT GIVES YOU THESE EXTRA FEATURES:

OUR PATENTED POSI-SEAL BAG CONNECTION

Provides a positive dust seal over a wide range of filter medias.

Requires no hand or power tools for installation.

STEEL VENTURIS (NOZZLES)

Connected to the filter support cage for easy replacement if necessary.

Superior to aluminum venturi because of greater abrasion resistance and resistance to higher temperatures.

Provides an additional support to the filter support cage.

NICKEL PLATED CAP AND LOCKING RING

The bag connection hardware is plated with nickel on all mild steel and epoxy coated collectors as standard.

On stainless and other exotic materials the cap and locking ring are teflon coated for superior resistivity.

TOTALLY PREWIRED VALVING

The program module is wired to the valve and mounted on the collector in NEMA rated enclosure. The only field wiring necessary is a 110 volt circuit to the program module.

SLOPED ACCESS DOOR

The bottom sill of all access doors is sloped down at 45°. This prevents a dust build-up which spills out into the working area whenever the access door is opened.

OPTIONAL DOOR HINGING

Man access door can be hinged from either left or right. This is accomplished in the field in a matter of minutes with a single wrench.





A LIST OF OPTIONS FOR AARON PROCESS EQUIPMENT COLLECTORS

SANITARY COLLECTORS	Fully finished, ground and polished without corners or ledges.
MATERIALS OF CONSTRUCTION	304 Stainless Steel Aluminum Others
COATINGS	Epoxy Teflon Customer Specification
EXPLOSION VENTING	Spring loaded doors for negative pressure. Rupture discs for positive pressure.
STRUCTURALS	Indoor installation. Outdoor installation.
PLATFORMING & LADDERS	Grating platforms conforming to OSHA standards.
HIGH PRESSURE COLLECTORS	ASME

For special design, material or coatings other than covered above, please contact our technical advisors.

A LIST OF AUXILIARY EQUIPMENT AVAILABLE

BLOWERS	Fan type full range of sizes
DISCHARGE VALVES	Airlocks Butterfly Valves Screw Conveyors Hopper Sweepers Gate Valves Slide Valves
LEVEL INDICATORS	Variety of types, paddle, probe or diaphragm.
VIBRATORS	Full range of sizes and models.
AIR COMPRESSORS	Full range of sizes and also auxiliary equipment such as dessicant dryer, silencer, filters etc.

**For special material handling equipment or controlling equipment, either new or used,
please contact Aaron Process Equipment Company. We will be able to help you.**

AARON PROCESS EQUIPMENT COMPANY PROVIDES A COMPLETE LINE OF BOTH NATURAL AND SYNTHETIC FIBERS FOR YOU.

Primarily for non-abrasive low temperature installations.

Excellent abrasion resistance not affected by moisture.

Good resistance to most acids and weak alkalis. Good abrasion resistance.

Primarily for high temperature applications.

Not affected by most acids or alkalis. Excellent cake release.

Temperature range to 450°.

Grounding Wire In Seam - Siliconizing - Glazing

COLLECTORS AVAILABLE

BIN FILTER SERIES

Square units designed for venting bins and silos generally without hopper. Available in sizes from 200 CFM to 3600 CFM.

NUISANCE FILTER SERIES

Square or rectangular units designed for venting, filling or dumping operation and exhaust air cleaning in small volumes. Available in sizes from 450 CFM to 12,000 CFM.

FILTER RECEIVER SERIES

Round units designed for up to ± 17 Hg operation such as found in pneumatic conveying systems. General range from 200 CFM to 10,000 CFM. Consult our technical advisers for larger units or higher pressure range from 10" to 30' W.G. as required.

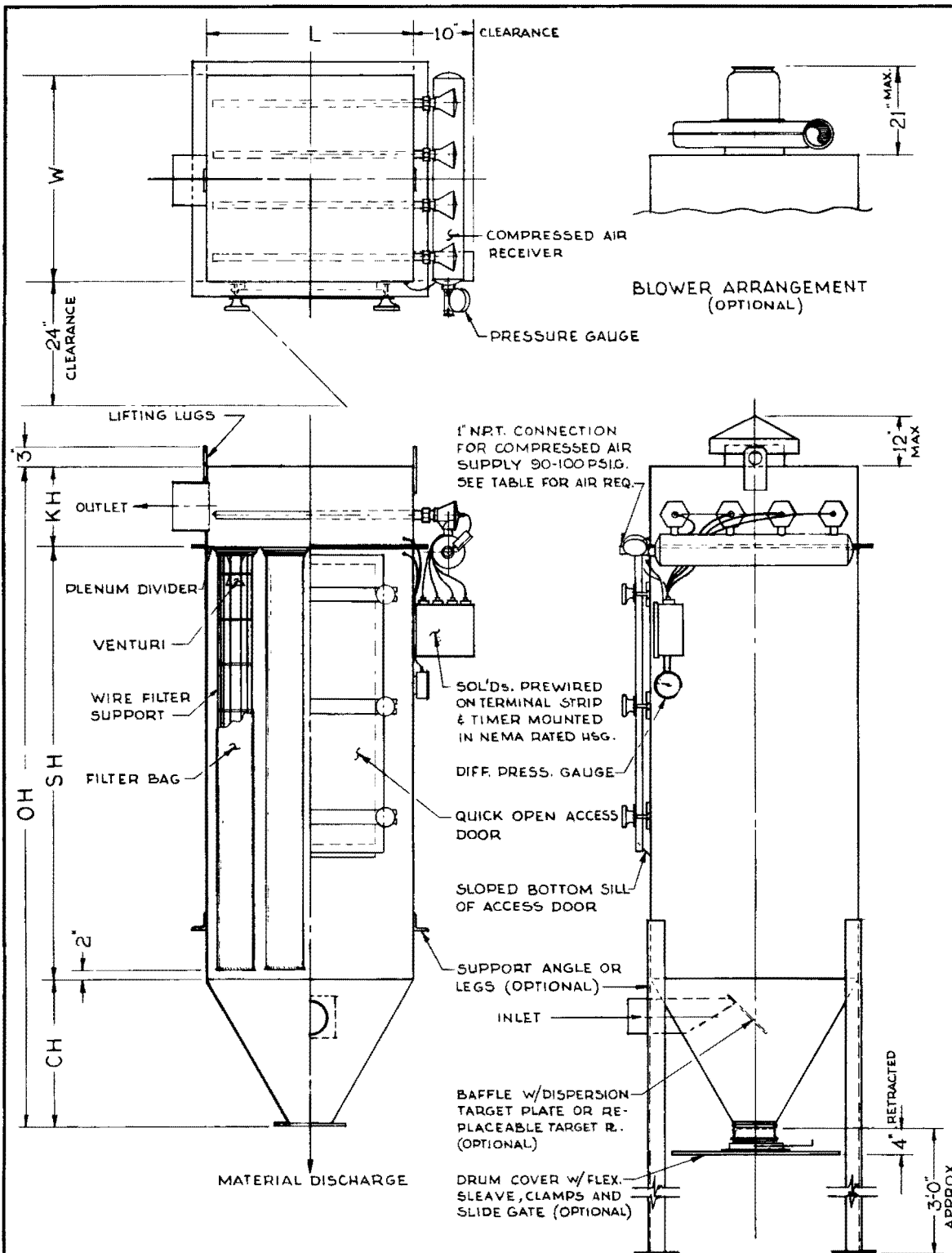
BAG HOUSE SERIES

Rectangular construction for handling large air volumes from dryers, process systems or exhaust air cleaning with a pressure range from 10" to 30" W.G. as required. Available from 12,000 CFM and up.

SHAKER SERIES*

Modular Mechanical Shakers for light dust loading. May be used singly or in groups for intermittent operation and in groups with valving to provide a continuous dust collector system.

* All other series of the pulse jet type and are continuous cleaning. Shaker series require a stoppage of the airflow before activating the bag cleaning mechanism.



MODEL NO.	FILTER AREA SQ. FT.	NO. OF BAGS	BAG LENGTH (IN.)	NO. SOL'D VALVES	COMPAIR REQ'D. (SCFM)	W (IN.)	L (IN.)	CH (IN.)	SH (IN.)	KH (IN.)	OH (FT.)	RISE VELOC. @ 5/1 FT./MIN	APPROX SHIP'G WEIGHT
NF9-5	45	9	45	3	3.0	24	24	14 1/2	47	12	6-1 1/2	82	325
NF9-7.5	68	9	68	3	3.2	24	24	14 1/2	70	12	6-0 1/2	124	394
NF9-10	90	9	90	3	3.5	24	24	14 1/2	92	12	5-10	164	477
NF12-5	60	12	45	3	3.7	23	30	19 1/2	47	12	6-6 1/2	96	401
NF12-7.5	90	12	68	3	4.0	23	30	19 1/2	70	12	5-5 1/2	145	481
NF12-10	120	12	90	3	4.2	23	30	19 1/2	92	12	10-3 1/2	194	561
NF16-5	80	16	45	4	4.8	32	32	21	47	14	6-10	82	480
NF16-7.5	120	16	68	4	5.2	32	32	21	70	14	8-9	123	575
NF16-10	160	16	90	4	5.6	32	32	21	92	14	10-7	164	655
NF20-5	100	20	45	4	5.8	30	37	25 1/2	47	14	7-2 1/2	102	573
NF20-7.5	150	20	68	4	6.3	30	37	25 1/2	70	14	9-1 1/2	153	680
NF20-10	200	20	90	4	6.6	30	37	25 1/2	92	14	10-1 1/2	202	808
NF25-7.5	188	25	68	5	7.0	40	40	28	70	16	9-6	124	801
NF25-10	250	25	90	5	7.4	40	40	28	92	16	11-4	165	953
NF30-7.5	225	30	68	5	7.9	37	44	31 1/2	70	16	9-9 1/2	148	923
NF30-10	300	30	90	5	8.6	37	44	31 1/2	92	16	11-7 1/2	212	1095
NF36-7.5	260	36	68	6	9.4	48	48	34 1/2	70	16	10-0	118	1059
NF36-10	360	36	90	6	9.5	48	48	34 1/2	92	16	11-0 1/2	164	1249
NF42-7.5	315	42	68	6	9.7	44	51	37 1/2	70	16	10-3 1/2	140	1186
NF42-10	420	42	90	6	9.8	44	51	37 1/2	92	16	12-1 1/2	187	1414
NF49-7.5	368	49	68	7	10.3	56	56	41 1/2	70	16	10-7 1/2	123	1332
NF49-10	490	49	90	7	10.5	56	56	41 1/2	92	16	12-3 1/2	164	1576
NF56-7.5	420	56	68	7	10.7	51	58	43 1/2	70	16	10-9 1/2	166	1494
NF56-10	560	56	90	7	10.8	51	58	43 1/2	92	16	12-7 1/2	221	1728
NF64-7.5	480	64	68	8	11.2	64	64	48 1/2	70	16	11-2 1/2	123	1616
NF64-10	640	64	90	8	11.3	64	64	48 1/2	92	16	13-0 1/2	164	1892
NF72-7.5	540	72	68	8	11.5	58	65	49 1/2	70	16	11-3 1/2	168	1797
NF72-10	720	72	90	8	11.7	58	65	49 1/2	92	16	13-1 1/2	224	2097
NF81-7.5	610	81	68	9	12.0	72	72	55 1/2	70	18	11-1 1/2	123	1972
NF81-10	810	81	90	9	12.4	72	72	55 1/2	92	18	13-5 1/2	164	2264
NF90-7.5	675	90	68	9	12.8	65	72	55 1/2	70	18	11-1 1/2	169	2153
NF90-10	900	90	90	9	13.0	65	72	55 1/2	92	18	13-9 1/2	225	2506
NF100-7.5	750	100	68	10	13.3	80	80	62 1/2	70	18	12-6 1/2	122	2355
NF100-10	1000	100	90	10	13.5	80	80	62 1/2	92	18	14-4 1/2	164	2730

NOTES

1. INLET SIZE SHALL BE BASED ON RECOMMENDED 4000-5000 FT./MIN. VELOCITY.
2. OUTLET SIZE SHALL BE BASED ON RECOMMENDED 3000-4000 FT./MIN. VELOCITY.
3. CONE HEIGHT DIMENSIONS ARE BASED ON AN 8" SQ. MATERIAL DISCHARGE OPENING (OTHER SIZES ARE AVAILABLE).
4. COLLECTOR MODELS WITH 49 BAGS AND LARGER SHALL HAVE TWO (2) ACCESS DOORS.
5. COMPRESSED AIR CONSUMPTION ASSUMES PROPER SIZING OF DUST COLL.
6. TOP MOUNTING OF BLOWERS, AS SHOWN ON THE DRAWING, IS LIMITED TO 2500 CFM @ 6" S.P. OTHER RATINGS WITH DIFFERENT BLOWER ARRANGEMENTS ARE AVAILABLE.
7. THIS DRAWING TO BE USED FOR GENERAL ARRANGEMENT AND ENGINEERING ONLY, NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS CERTIFIED.

AARON PROCESS EQUIPMENT COMPANY INC
9301 W BERNICE ST. SCHILLER PARK, IL 60176
DIVISION OF ARECO

PHONE (312) 678-1500 TELEX 28-9454

AARON Dust Collectors!

NF SERIES



GENERAL DATA—FILTER RECEIVERS

Design Pressure	$\pm 17''$ WC
CFM Range	150 to 10,000 CFM
Configuration	Square
Construction	All welded 12 gauge

THE NUISANCE FILTER

The nuisance filter series is a series of square or rectangular low pressure collectors for low to medium volumes of air. These are provided in all welded construction and when the width exceeds 35", a bag free area can be provided for permanent or temporary platforming (available at additional cost).

These units are generally shipped in one piece unless installation limitations require smaller components.

If structural supports are provided, we will generally weld the legs directly to the tanks unless shipping becomes a problem.

As with all other units, bags, cages and auxiliary equipment will be shipped loose for field installation. All efforts will be made to ship collector and parts on one truck for ease of receiving.

UNIQUE FEATURES—STANDARD ON ALL AARON DUST COLLECTORS

- PATENTED POSI-SEAL bag connection requiring no hand or power tools for installation (U.S. Patent No. 3856 489)
- Steel venturis
- Coated internal hardware. Teflon parts for corrosive applications
- Timer and air headers are shipped assembled on unit
- Access doors are hinged and can be field adjusted for either left or right hand opening
- Access doors with sloped bottom sill to reduce dust build-up on door frame

THE BASE PRICE OF AARON DUST COLLECTORS INCLUDES:

- Complete housing
- Primed Exterior
- Stub inlet and outlet
- Internal diffusion baffle
- Flanged dust discharge
- Large man service door
- Clean air plenum access port (additional cost)
- Choice of solid state or mechanical solid state timing device
- One set of 15-16 oz. Dacron felt filter elements (other materials available depending on application)
- Nema IV electricals (explosion proof available at additional cost)
- Pressure indicator gauge
- Pressure differential gauge

- CONTINUOUS AUTOMATIC CLEANING
- HIGH EFFICIENCIES—MEETS ALL CODES
- NO INTERNAL MOVING PARTS
- EASY MAINTENANCE
- IN STOCK—IMMEDIATE DELIVERY

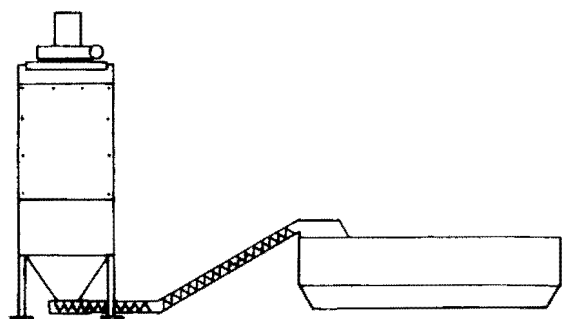
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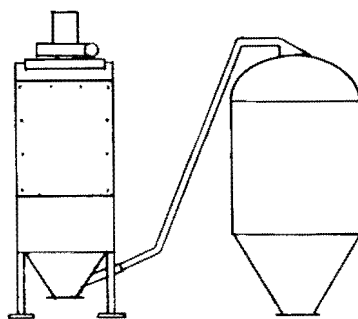
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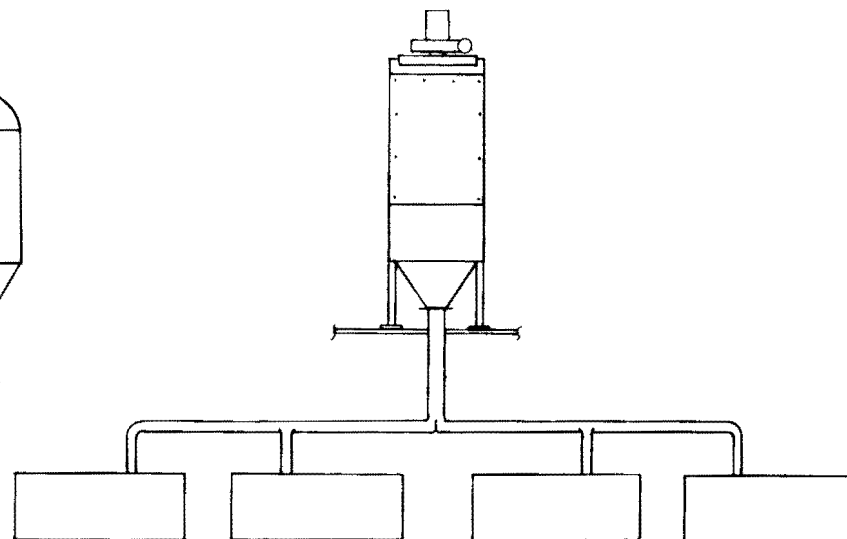
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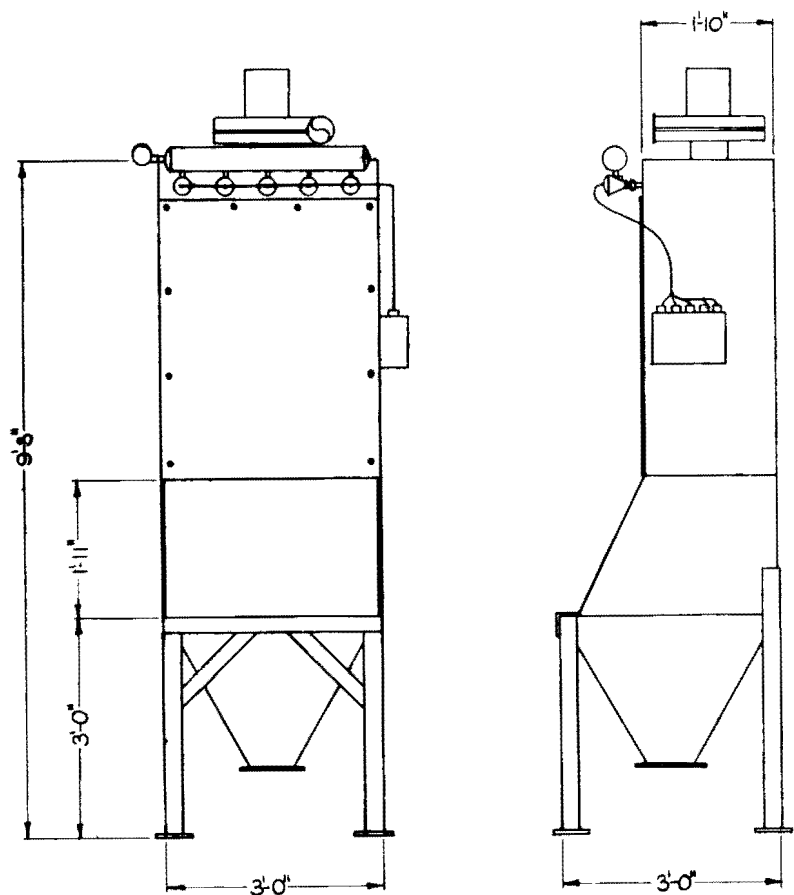
MECHANICAL DELIVERY



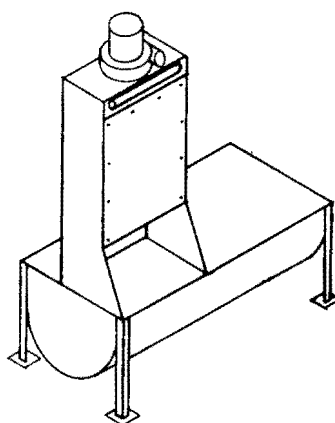
PNEUMATIC DELIVERY



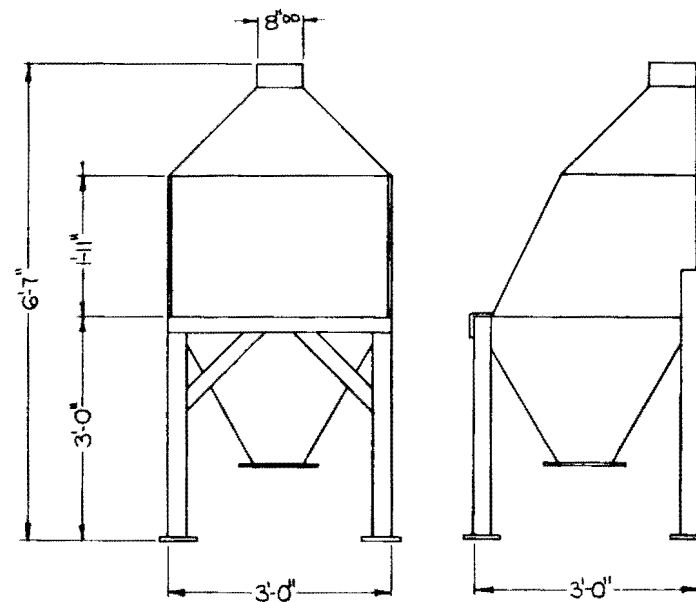
GRAVITY DELIVERY



GENERAL DIMENSIONS



DIRECT FILL



DUMP ONLY

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AARON Bag Dump Stations!

BD SERIES



BAG DUMP STATION

The AARON bag dump station is a self contained dump hopper with a continuous cleaning dust collector and blower incorporated as a single unit.

Units are available in carbon steel, epoxy, 304 or 316 stainless materials or in combinations of the above.

These units are generally shipped in one piece unless installation limitations require smaller components.

Structural supports are provided. The legs will be welded directly to the hopper.

As with all other units, bags, cages and auxiliary equipment will be shipped loose for field installation. All efforts will be made to ship Dump Station and parts on one truck for ease of receiving.

OPTIONAL FEATURES AVAILABLE ON AARON DUMP STATIONS

- Dump Station only (no filter)
- Filter regulator
- Interior welds ground and polished
- Pneumatic vacuum pickup at discharge
- 10" blow through airlock for positive pick-up systems
- Side mount blower (for low head room)
- Door for dump opening
- Manual control on Dust Collector

THE BASE PRICE OF AARON DUMP STATIONS INCLUDE:

- 36" high work table
- Angle iron legs
- 36" x 18" dump opening
- Complete dust collector (pulse-jet type)
- Direct drive blower, 3HP 220/440v. 3 phase motor (starter not included)
- Flanged material discharge
- Finish coat of paint on exterior
- Outlet damper and screen on blower
- 14½" clearance below discharge flange

• CONTINUOUS AUTOMATIC DUST COLLECTOR

• HIGH EFFICIENCIES—MEETS ALL CODES

• NO INTERNAL MOVING PARTS

• EASY MAINTENANCE

• IN STOCK—IMMEDIATE DELIVERY

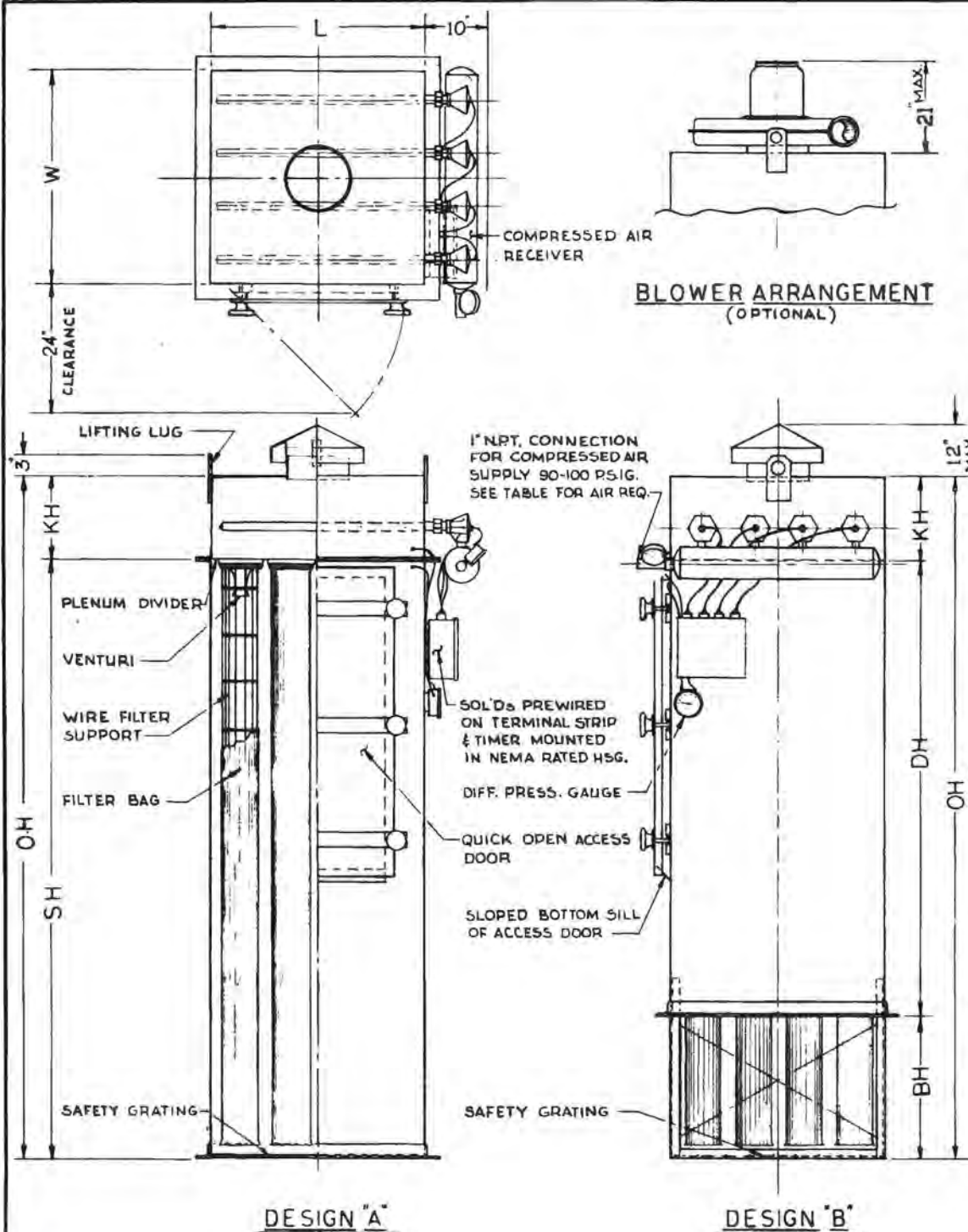
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AARON

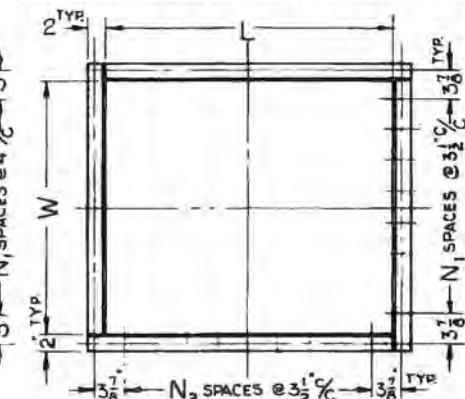
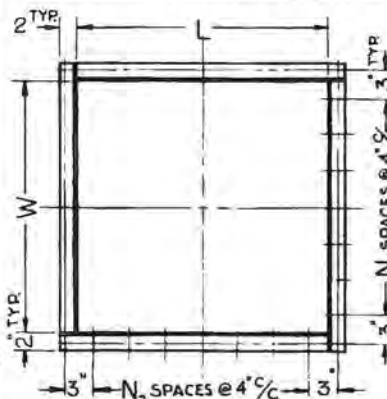
PROCESS EQUIPMENT COMPANY INC

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Manufacturers of Machinery and Equipment for the Process Industries



MODEL NO.	FILTER AREA SQ. FT.	NO OF BAGS	BAG LENGTH (IN.)	NO. SOL'D REQ'D.	COMPR. REQ'D. SCFM	W (IN.)	L (IN.)	SH (IN.)	KH (IN.)	OH (IN.)	BH (IN.)	DH (IN.)	NO. SPACES N ₁ -N ₂	APPROX. SHIP'G. WEIGHT
BF 9 - 5	45	9	45	3	3.0	24	24	49	12	61	—	49	5-5	250
BF 9 - 7.5	68	9	68	3	3.2	24	24	72	12	84	—	72	5-5	295
BF 9 - 10	90	9	90	3	3.5	24	24	94	12	106	22	72	5-5	350
BF 12 - 5	60	12	45	3	3.7	23	30	49	12	61	—	49	5-7	345
BF 12 - 7.5	90	12	68	3	4.0	23	30	72	12	84	—	72	5-7	395
BF 12 - 10	120	12	90	3	4.2	23	30	94	12	106	22	72	5-7	450
BF 16 - 5	80	16	45	4	4.8	32	32	49	14	61	—	49	7-7	405
BF 16 - 7.5	120	16	68	4	5.2	32	32	72	14	84	—	72	7-7	465
BF 16 - 10	160	16	90	4	5.6	32	32	94	14	106	22	72	7-7	525
BF 20 - 7.5	150	20	68	4	6.3	30	37	72	14	84	—	72	7-9	575
BF 20 - 10	200	20	90	4	6.6	30	37	94	14	108	22	72	7-9	660
BF 25 - 7.5	188	25	68	5	7.0	40	40	72	16	88	—	72	9-9	685
BF 25 - 10	250	25	90	5	7.4	40	40	94	16	108	22	72	9-9	770
BF 30 - 7.5	225	30	68	5	7.9	37	44	72	16	88	—	72	9-11	750
BF 30 - 10	300	30	90	5	8.6	37	44	94	16	108	22	72	9-11	875
BF 36 - 7.5	260	36	68	6	9.4	48	48	72	16	88	—	72	11-11	845
BF 36 - 10	360	36	90	6	9.6	48	48	94	16	108	22	72	11-11	990
BF 42 - 7.5	315	42	68	6	9.7	44	51	72	16	88	—	72	11-13	975
BF 42 - 10	420	42	90	6	9.8	44	51	94	16	108	22	72	11-13	1135
BF 49 - 7.5	368	49	68	7	10.3	56	56	72	16	88	—	72	13-13	1150
BF 49 - 10	490	49	90	7	10.5	56	56	94	16	108	22	72	13-13	1340



NOTES:

1. COLLECTOR MODEL WITH 49 BAGS HAS TWO (2) ACCESS DOORS.
2. COMPRESSED AIR CONSUMPTION ASSUMES PROPER SIZING OF DUST COLL.
3. TOP MOUNTING OF BLOWERS, AS SHOWN ON THE DRAWING IS LIMITED TO 2500 CFM. @ 6" S.P. OTHER RATINGS WITH DIFFERENT BLOWER ARRANGEMENTS ARE AVAILABLE
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AARON Dust Collectors!

BF SERIES



GENERAL DATA—BIN FILTERS

Design Pressure	± 17" WC
CFM Range	150 to 10,000 ACFM
Configuration	Square & Rectangular
Construction	All welded 12 gauge

THE BIN FILTER SERIES

The bin filter series is a series of square collectors having no hopper but terminating in an angle flanged housing. Their primary application is venting bins, silos or other dust storage vessels. The predominant feature of this collector is that the open bottom serves as an inlet and material discharge whereas the material storage vessel contains the special inlet.

These units are generally shipped in one piece unless installation limitations require smaller components.

As with all other units, bags, cages and auxiliary equipment will be shipped loose for field installation. All efforts will be made to ship collector and parts on one truck for ease of receiving.

UNIQUE FEATURES—STANDARD ON ALL AARON DUST COLLECTORS

- PATENTED POSI-SEAL bag connection requiring no hand or power tools for installation (U.S. Patent No. 3856 489)
- Steel venturis
- Coated internal hardware. Teflon parts for corrosive applications
- Timer and air headers are shipped assembled on unit
- Access doors are hinged and can be field adjusted for either left or right hand opening
- Access doors with sloped bottom sill to reduce dust build-up on door frame

THE BASE PRICE OF AARON DUST COLLECTORS INCLUDES:

- Complete housing
- Primed Exterior
- Outlet weatherhood
- Large man service door
- Choice of solid state or mechanical solid state timing device
- One set of 15-16 oz. Dacron felt filter elements (other materials available depending on application)
- Nema IV electricals (explosion proof available at additional cost)
- Pressure indicator gauge
- Pressure differential gauge
- Bag safety grid

• CONTINUOUS AUTOMATIC CLEANING

• HIGH EFFICIENCIES—MEETS ALL CODES

• NO INTERNAL MOVING PARTS

• EASY MAINTENANCE

• IN STOCK—IMMEDIATE DELIVERY

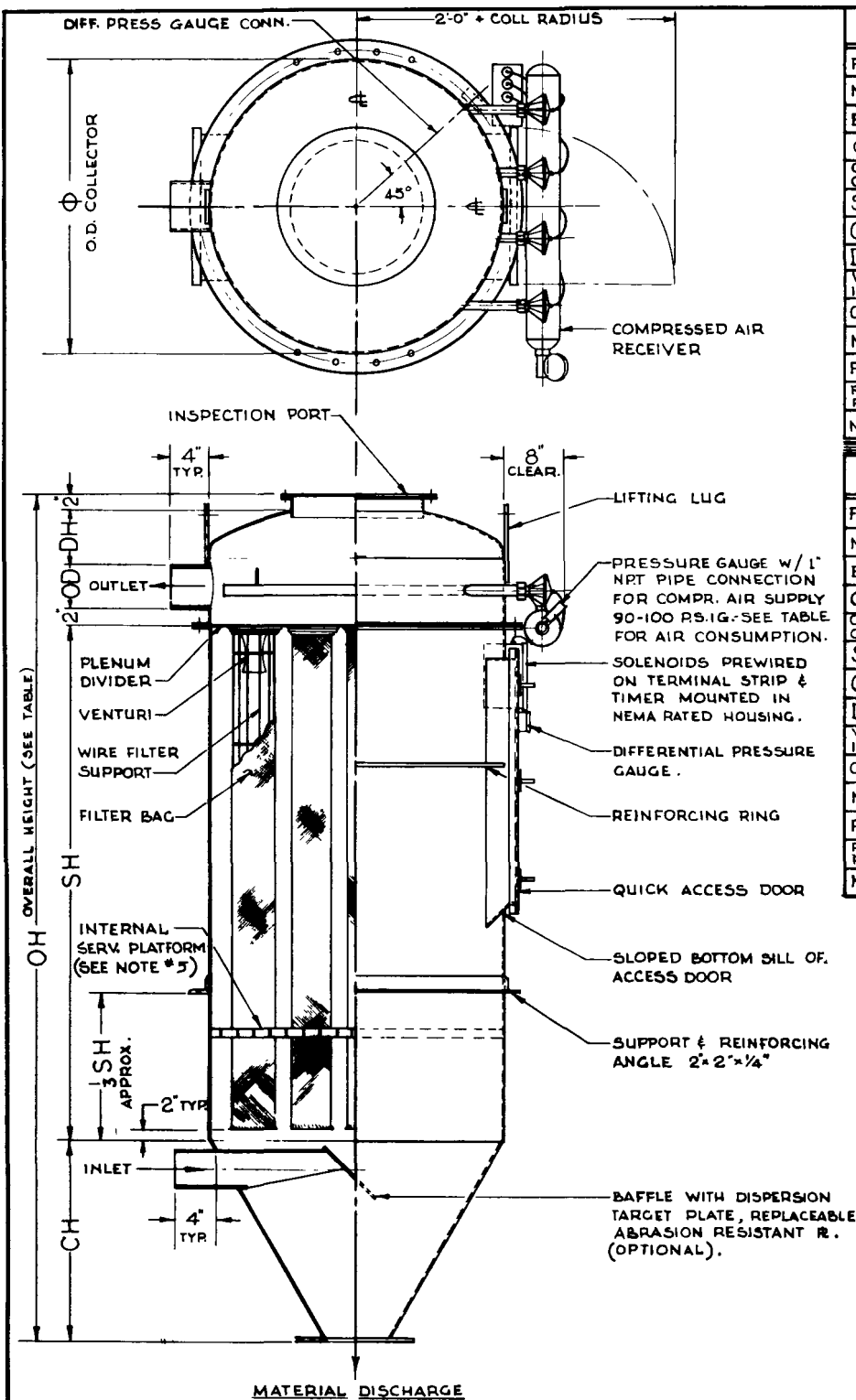
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MODEL →	FR 4-5	FR 4-7.5	FR 7-5	FR 7-7.5	FR 7-10	FR 9-5	FR 9-7.5	FR 9-10	FR 12-5	FR 12-7.5	FR 12-10	FR 16-7.5	FR 16-10	FR 18-7.5	FR 18-10	FR 25-7.5	FR 25-10
FILTER AREA (SQ. FT.)	20	30	35	52.5	70	45	67.5	90	60	90	120	120	160	135	180	187.5	250
NUMBER OF BAGS	4	4	7	7	7	9	9	9	12	12	12	16	16	18	18	25	25
BAG LENGTH (IN.)	45	68	45	68	90	45	68	90	45	68	90	68	90	68	90	68	90
Φ (OUTSIDE DIA. IN.)	18	18	24	24	24	30	30	30	30	30	30	36	36	42	42	48	48
O.H. (OVERALL HEIGHT) = O.D. OUTLET + TABLE DIM.	5'-4 1/2"	7'-3 1/2"	5'-0 1/2"	7'-9 1/2"	9'-7 1/2"	6'-4 1/2"	8'-3 1/2"	10'-1 1/2"	6'-4 1/2"	8'-3 1/2"	10'-1 1/2"	8'-9 1/2"	10'-7 1/2"	9'-2 1/2"	11'-0 1/2"	9'-8 1/2"	11'-6 1/2"
S.H. (SHELL HEIGHT IN.)	47	70	47	70	92	47	70	92	47	70	92	70	92	70	92	70	92
C.H. (CONE HEIGHT IN.)	8 1/2	8 1/2	13 1/8	13 1/8	13 1/8	19 1/8	19 1/8	19 1/8	19 1/8	19 1/8	19 1/8	24 1/4	24 1/4	29 1/2	29 1/2	34 1/8	34 1/8
D.H. (DISHED HD. HT. IN.)	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	7	7
VOLUMETRIC DISPLACEM'T. INCL. CLEAN AIR CHAMBR. (FT ³)	8.8	12.2	16.5	22.5	28.4	26.6	35.3	45	26.6	35.3	45	53	66.3	68	86	99.5	124
COMPR. AIR REQMT. (SCFM)	3.0	3.2	3.4	3.6	3.8	4.2	4.6	4.8	5.3	5.7	6.0	6.3	6.5	6.7	7.0	8.5	9.0
NO. OF SOLENOID VALVES	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	7	7
PRESS. RATING (IN. HG. ±)	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
RISE (CAN) VELOCITY FT./MIN. @ 5/1 RATIO	83	129	78	117	157	62	93	139	93	139	185	124	166	95	127	104	138
NET WT. LBS. APPROX.	520	578	570	610	650	695	761	820	830	935	1040	1020	1145	1270	1230	1385	1540

MODEL →	FR 32-7.5	FR 32-10	FR 42-7.5	FR 42-10	FR 49-7.5	FR 49-10	FR 56-7.5	FR 56-10	FR 64-7.5	FR 64-10	FR 82-7.5	FR 82-10	FR 90-7.5	FR 90-10	FR 106-7.5	FR 106-10
FILTER AREA (SQ. FT.)	240	320	315	420	367.5	490	420	560	480	640	615	820	675	900	795	1060
NUMBER OF BAGS	32	32	42	42	49	49	56	56	64	64	82	82	90	90	106	106
BAG LENGTH (IN.)	68	90	68	90	68	90	68	90	68	90	68	90	68	90	68	90
Φ (OUTSIDE DIA. IN.)	54	54	60	60	66	66	72	72	78	78	84	84	90	90	96	96
O.H. (OVERALL HEIGHT) = O.D. OUTLET + TABLE DIM.	10'-9 1/2"	12'-7 1/2"	11'-4"	13'-3"	11'-1 1/2"	13'-9 1/2"	12'-6 1/2"	14'-4 1/2"	13'-5 1/2"	15'-0 1/2"	13'-8 1/2"	15'-6 1/2"	14'-6 1/2"	16'-4 1/2"	15'-1 1/2"	16'-1 1/2"
S.H. (SHELL HEIGHT IN.)	70	92	70	92	70	92	70	92	70	92	70	92	70	92	70	92
C.H. (CONE HEIGHT IN.)	39 1/8	39 1/8	45	45	50 1/4	50 1/4	55 1/2	55 1/2	60 5/8	60 5/8	65 3/4	65 3/4	72 3/4	72 3/4	76 1/4	76 1/4
D.H. (DISHED HD. HT. IN.)	8	8	9	9	10	10	10	10	11	11	12	12	13	13	14	14
VOLUMETRIC DISPLACEM'T. INCL. CLEAN AIR CHAMBR. (FT ³)	141	172	174	212	217	260	261	313	306	358	366	435	427	506	492	582
COMPR. AIR REQMT. (SCFM)	9.5	10.2	11.4	11.6	11.8	11.9	10.6	10.8	11.0	11.3	12.3	12.6	13.0	13.6	14.2	15.0
NO. OF SOLENOID VALVES	7	7	9	9	9	9	8	8	8	8	10	10	10	10	12	12
PRESS. RATING (IN. HG. ±)	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
RISE (CAN) VELOCITY FT./MIN. @ 5/1 RATIO	110	146	115	153	106	141	106	137	100	132	114	152	106	142	113	150
NET WT. LBS. APPROX.	1687	1805	1995	2190	2345	2625	2705	2960	3025	3455	4585	5075	5125	5640	5720	6274

NOTES:

1. INLET SIZE SHALL BE BASED ON RECOMMENDED 4,000-5,000 FT./MIN. VELOCITY.
2. OUTLET SIZE SHALL BE BASED ON RECOMMENDED 3,000-4,000 FT./MIN. VELOCITY.
3. CLEAN AIR PLENUM HEIGHT IS DETERMINED BY OUTLET O.D. (MINIMUM HEIGHT 10")
4. CONE HEIGHT DIMENSIONS ARE BASED ON AN 8" I.D. MATERIAL DISCHARGE FLANGE (OTHER SIZES ARE AVAILABLE).
5. COLLECTOR MODELS OVER 3'-0" DIA. SHALL HAVE INTERNAL SERVICE PLATFORM
6. COMPRESSED AIR CONSUMPTION ASSUMES PROPER SIZING OF DUST COLLECTOR.
7. UNITS OVER 8'-0" DIA. ARE AVAILABLE, CONTACT EVO CORP.

AARON PROCESS EQUIPMENT COMPANY INC
9301 W. BERNICE ST. SCHILLER PARK, IL 60176
DIVISION OF ARECO

PHONE (312) 678-1500 TELEX 28-9454

AARON Dust Collectors !

FR SERIES



GENERAL DATA—FILTER RECEIVERS

Design Pressure	$\pm 17''$ Hg
CFM Range	150 to 20,000 ACFM
Configuration	Cylindrical
Construction	All welded 12 gauge to $\frac{1}{4}''$ plate

THE FILTER RECEIVER SERIES

The filter receiver series are cylindrical collectors generally used where higher pressures are necessary ($\pm 17''$ Hg static). The Aaron filter receivers are unique in that bag free areas are available for easier servicing. Units over 3 feet in diameter provide a clear area at the door for permanent or temporary service platforming.

Our standard line of cylindrical units stop at 8' in diameter because of standard shipping limitations. Larger diameters are available upon request to the home office.

These units are generally shipped in one piece unless installation limitations require smaller components.

If structural supports are provided, we will generally weld the legs directly to the tanks unless shipping becomes a problem.

As with all other units, bags, cages and auxiliary equipment will be shipped loose for field installation. All efforts will be made to ship collector and parts on one truck for ease of receiving.

UNIQUE FEATURES—STANDARD ON ALL AARON DUST COLLECTORS

- PATENTED POSI-SEAL bag connection requiring no hand or power tools for installation (U.S. Patent No. 3856 489)
- Steel venturis
- Coated internal hardware. Teflon parts for corrosive applications
- Timer and air headers are shipped assembled on unit
- Access doors are hinged and can be field adjusted for either left or right hand opening
- Access doors with sloped bottom sill to reduce dust build-up on door frame

THE BASE PRICE OF AARON DUST COLLECTORS INCLUDES:

- Complete housing
- Primed Exterior
- Stub inlet and outlet
- Internal diffusion baffle
- Flanged dust discharge
- Large man service door
- Clean Air plenum access port
- Choice of solid state or mechanical solid state timing device
- One set of 15-16 oz. Dacron felt filter elements (other materials available depending on application)
- Nema IV electricals (explosion proof available at additional cost)
- Pressure indicator gauge
- Pressure differential gauge

- CONTINUOUS AUTOMATIC CLEANING
- HIGH EFFICIENCIES—MEETS ALL CODES
- NO INTERNAL MOVING PARTS
- EASY MAINTENANCE
- IN STOCK—IMMEDIATE DELIVERY

9301 W. BERNICE ST., SCHILLER PARK, ILLINOIS 60176

AARON

PROCESS EQUIPMENT COMPANY INC

PHONE (312) 678-1500 TELEX 28-9454

Manufacturers of Machinery and Equipment for the Process Industries

For All Your Process Equipment Needs

AARON

PROCESS EQUIPMENT COMPANY, INC.

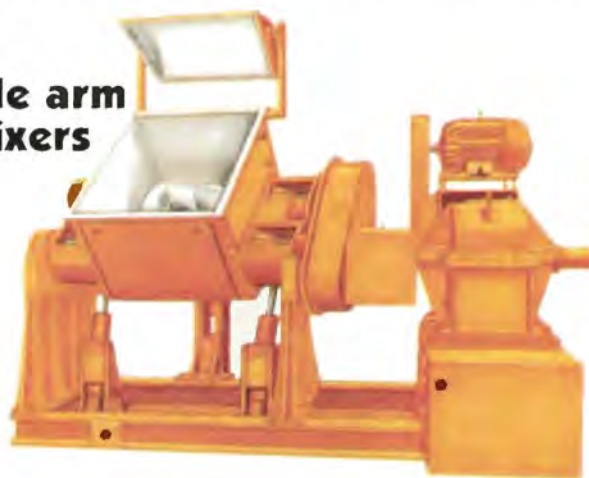


1/2 GALLON
Lab Mixer

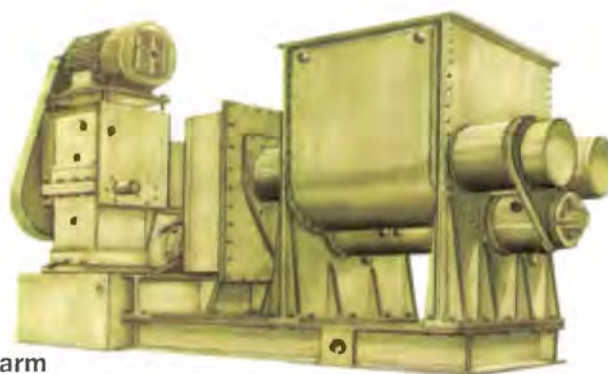
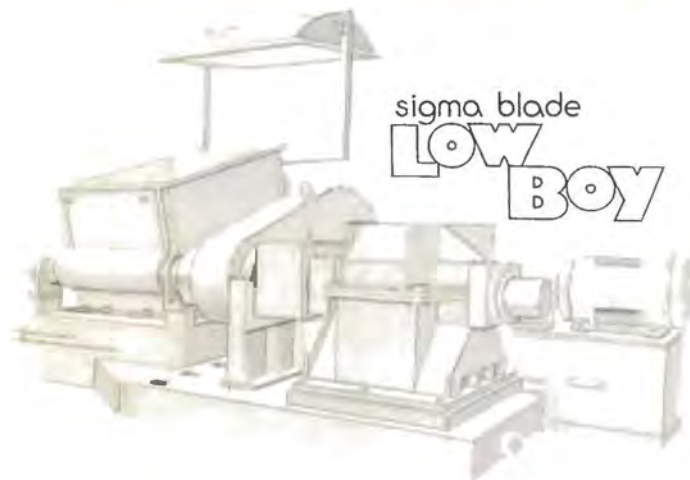


ONE GALLON
Lab Mixer

double arm
tilt mixers



sigma blade
**LOW
BOY**

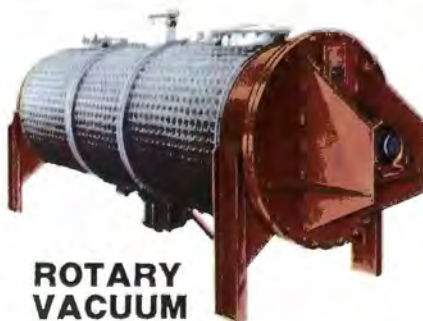


double arm
MIXER/EXTRUDERS

**PLOW
MIXERS**



**ROTARY
VACUUM
DRYERS**

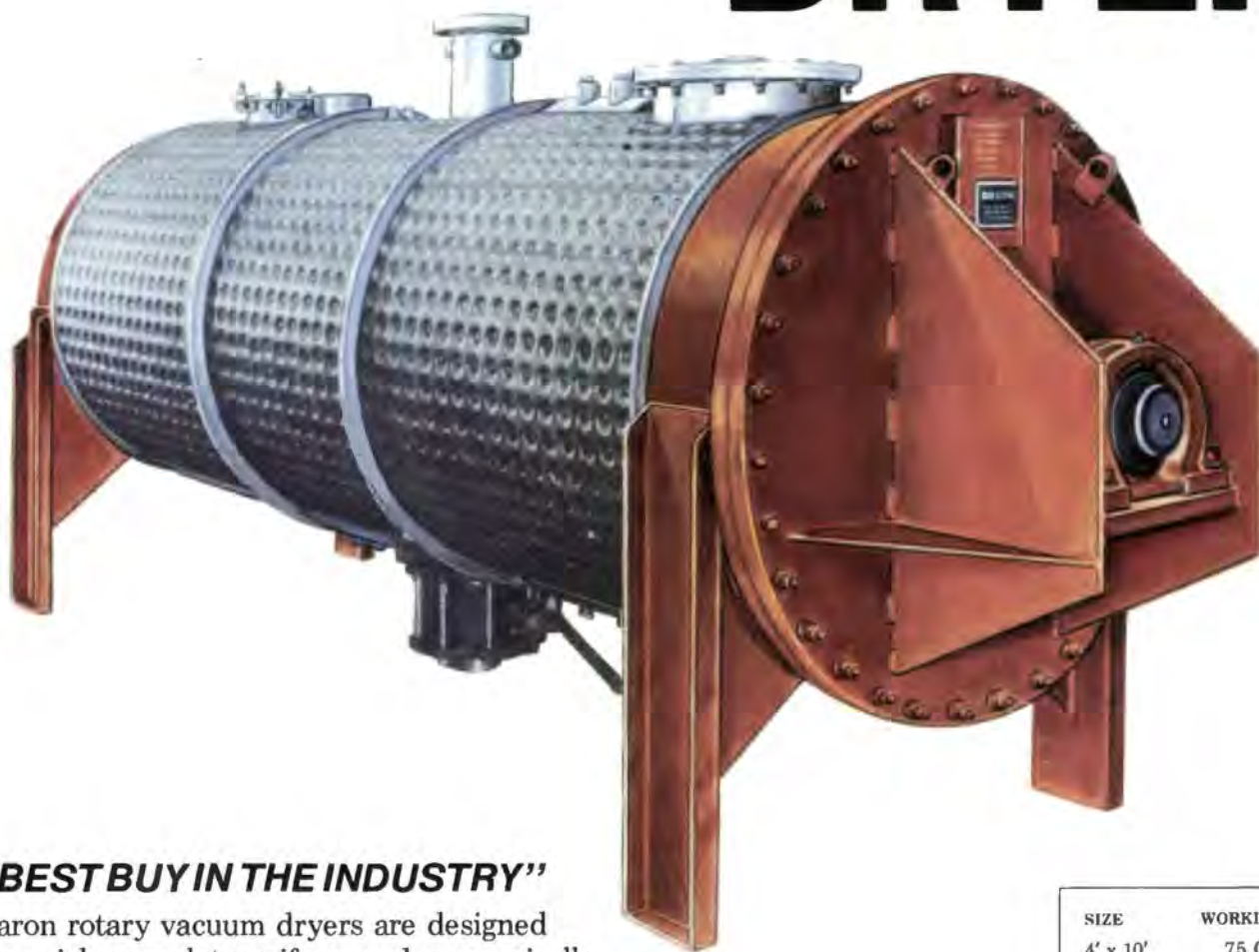


**Ribbon
Mixers**



Look to the Best...for the Best!

AARON ROTARY VACUUM DRYERS



"BEST BUY IN THE INDUSTRY"

Aaron rotary vacuum dryers are designed for quick, complete uniform and economically low temperature drying of materials that may be mixed or tumbled while drying, such as pharmaceutical products, fine chemicals, dyes, shellac, explosives, resins, etc. Also, they may be used as extractors in certain cases and then as vacuum drying and solvent recovery units, thus saving handling and the need for separate extractors.

Types of agitation available includes double-spiral ribbons, broken ribbons and plow type (which lifts and turns the charge).

The specs for the new T304SS rotary vacuum dryer with dimple jacket are: vessel FV @ 350F. Dimple jacket 150 psig @ 350 F, test. Built with 20" manway, 12" center bottom discharge flange. 2-6" flanged fittings in top. Paddle agitator. Agitator speed of 5-10 rpm to suit customer need. (10-25 HP drives).

SIZE	WORKING CAP.	FULL CAP.
4' x 10'	75 Cu. Ft.	113 Cu. Ft.
4' x 13'	90 Cu. Ft.	135 Cu. Ft.
4' x 15'	115 Cu. Ft.	170 Cu. Ft.
4' x 20'	150 Cu. Ft.	226 Cu. Ft.

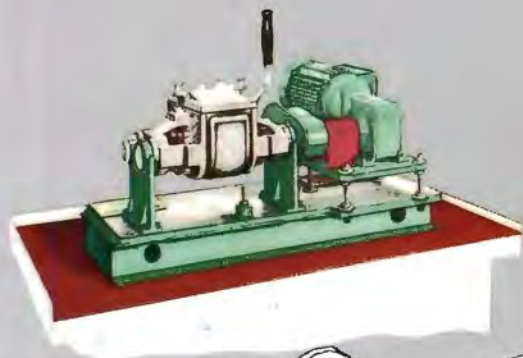
Working capacity based on $\frac{3}{4}$ full. Coded vessels can be supplied at slightly higher cost. Ribbon agitator can also be supplied. Extra for T316SS contact parts.

AARON

For All Your Process Equipment Needs

AARON

PROCESS EQUIPMENT COMPANY, INC.

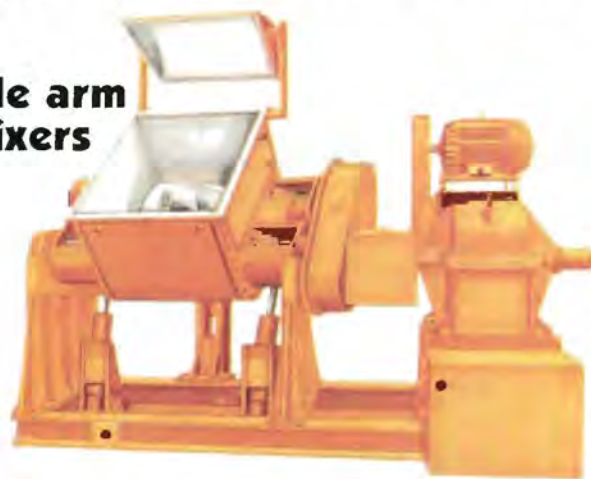


1/4 GALLON
Lab Mixer

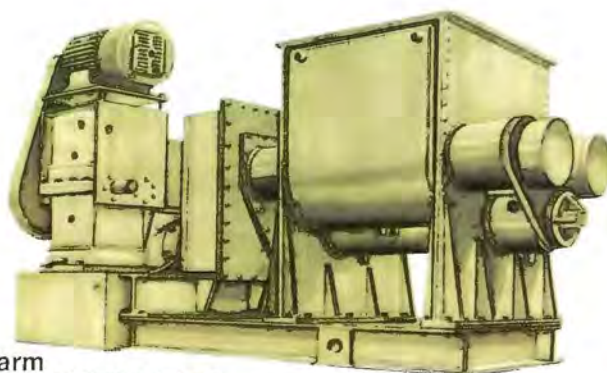
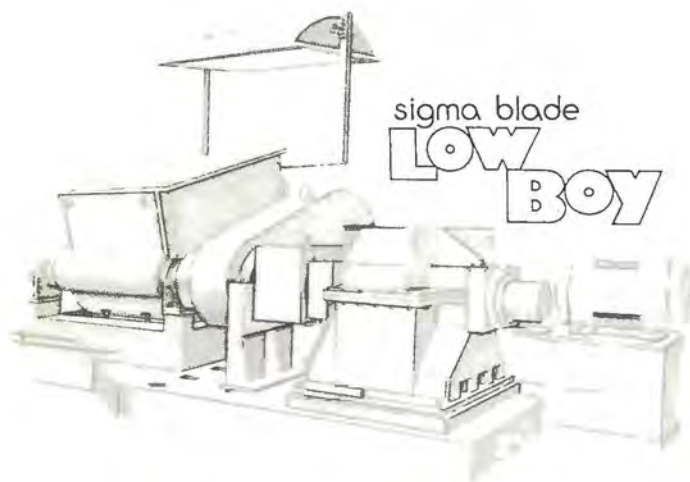


ONE GALLON
Lab Mixer

double arm
tilt mixers

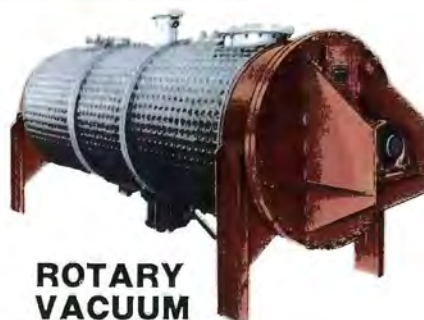


sigma blade
LOW BOY



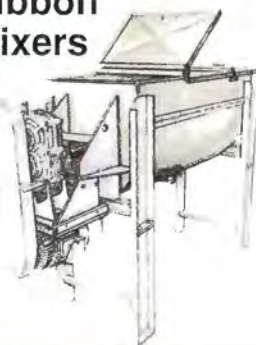
double arm
MIXER/EXTRUDERS

**PLOW
MIXERS**

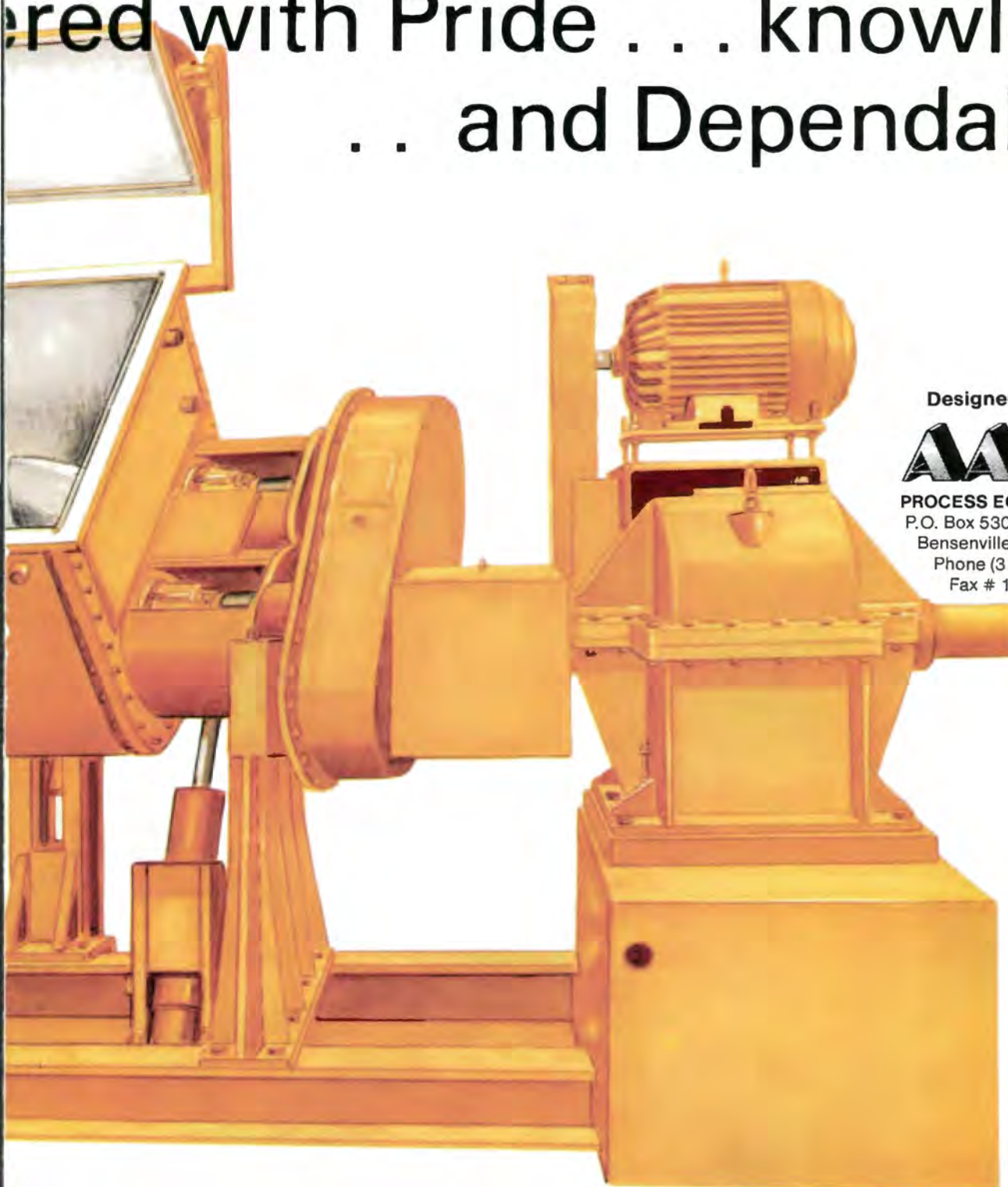


**ROTARY
VACUUM
DRYERS**

**Ribbon
Mixers**



ered with Pride . . . knowledge . . . and Dependability



Designed by

AARON

PROCESS EQUIPMENT COMPANY, Inc.

P.O. Box 530

Bensenville, Illinois 60106-0530

Phone (312) 350-2200

Fax # 1-312-595-3993

- **BLADES**—Sigma blades are of cast steel and are arranged to operate in a tangential path. The front and rear blades operate at 30 and 17 rpm respectively, thus affording complete mixing action. The blades are driven from one end. Gears are encased in a steel, oil bath guard.
- **BEARINGS**—The Aaron mixer comes equipped with spherical roller bearings and is readily cleaned with removable split type shaft stuffing boxes.
- **DISCHARGE**—Discharge is accomplished by tilting the bowl with twin hydraulic cylinders, activated by either a manual or a solenoid valve mounted on the hydropack. The weight of the Aaron mixers, less the motor, is approximately 40,000 lbs. thru 85,000 lbs.
- **ADD ONS**—A lower horsepower jogging motor can be provided on request. Consult your Aaron Process Equipment Company representative. All mixers are capable of full vacuum service with the addition of a separate vacuum cover kit.

Engineer

300 400 500 600 GALLON double arm tilt mixers

- HEAVY-DUTY
- SIGMA BLADE DESIGN



- **FEATURES**—Featuring sigma-blade design and working capacities of 300 to 600 gallons. These machines have been well received because they are engineered for most heavy-duty applications.
- **DRIVE**—These mixers are capable of handling up to 400 horsepower, depending on the model. The front blade is directly connected thru a gear coupling to a speed reducer. Speed reducers can be either belt driven or directly coupled to the electric motor.
- **BOWL**—The mixing bowl is fabricated from 1 ¼ inch type A36 carbon steel, and is fitted with a jacket (200 psi @ 450 F horizontal serpentine). Internal surfaces of the double-arm mixer are line bored for minimum clearances of 1/8 inch between bowl and blade. The bowl tilts over front blade thru bronze bearings by twin hydraulic cylinders. Other materials of construction and inside finishes are available.
- **Weight**—40,000 lbs. thru 85,000 lbs.

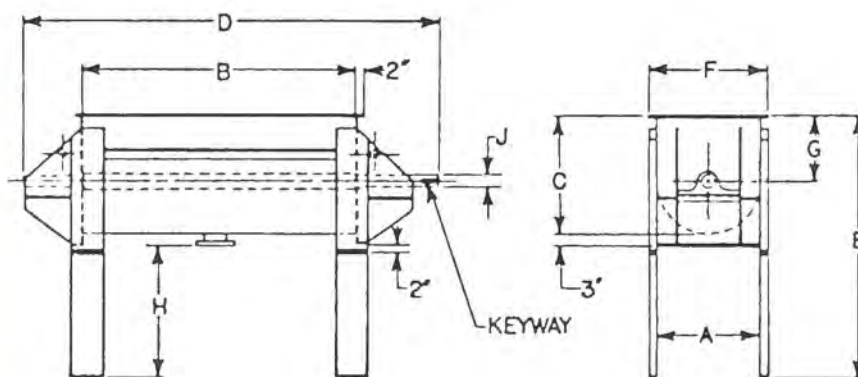
PROCESS EQUIPMENT
COMPANY, INCORPORATED

double arm tilt mixers



AARON ribbon mixers

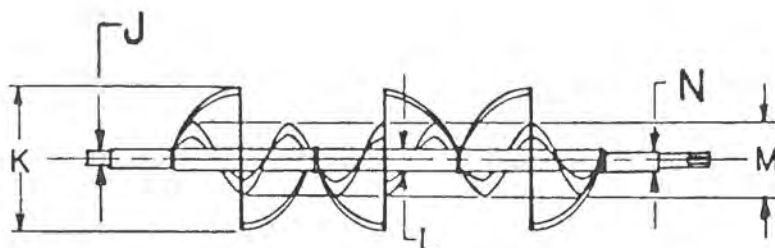
SPECIFICATIONS



TROUGH diagram

Aaron Ribbon Mixers unique features make them the leaders in the field. These special adaptations fulfill every need for blenders.

- Aaron's Split Packing Gland
- Reinforced Post Design
- Slide Paddle Discharge Gate
- Special 3 Piece Cover, Designed With No Hinges



AGITATOR diagram

CU. FT.	GAL.	A	B	C	D	E	F	G	H	J	K	L	M	N
4	30	18	24	22	50	37	20	13	13½	1-15/16	17½	2¾	9	2-1/4
14	105	24	48	28	86	69	28	16	38	1-15/16	23¾	2½/40	12	2-3/4
24	180	26	66	30	105	71	30	17	38	2-15/16	25¾	3/40	13	3-1/2
36	270	30	78	34	117½	75	34	19	38	3	27¾	4/40	15	3-7/16
55	410	34	90	39	129½	80	38	22	38	3-7/16	33¾	6 x ¾	17	4-7/16
66	470	36	96	41	149½	82	41	23	38	3-15/16	35¾	6 x ¾	18	4-7/16
80	600	40	96	48	149½	89	44	28	38	3-15/16	39¾	6 x ¾	20	4-15/16
100	750	48	96	54	147½	95	52	30	38	4-7/16	47½	8 x ½	24	5-7/16
150	1125	48	144	54	197½	95	52	30	38	4-15/16	47½	8 x ½	24	5-7/16
200	1500	54	144	60	197½	101	58	33	38	4-15/16	53¾	8 x ½	27	5-15/16
300	2250	66	144	72	197½	109	70	39	38	4-15/16	65¾	10 x ¾	33	6-15/16

350 CU. FT. AND UP BY REQUEST ONLY!

AARON PROCESS EQUIPMENT COMPANY WILL BUY OR TAKE AS TRADE-IN YOUR OLDER OR SMALLER MIXER....WHAT OTHER MANUFACTURER WILL OFFER AS MUCH?

AARON
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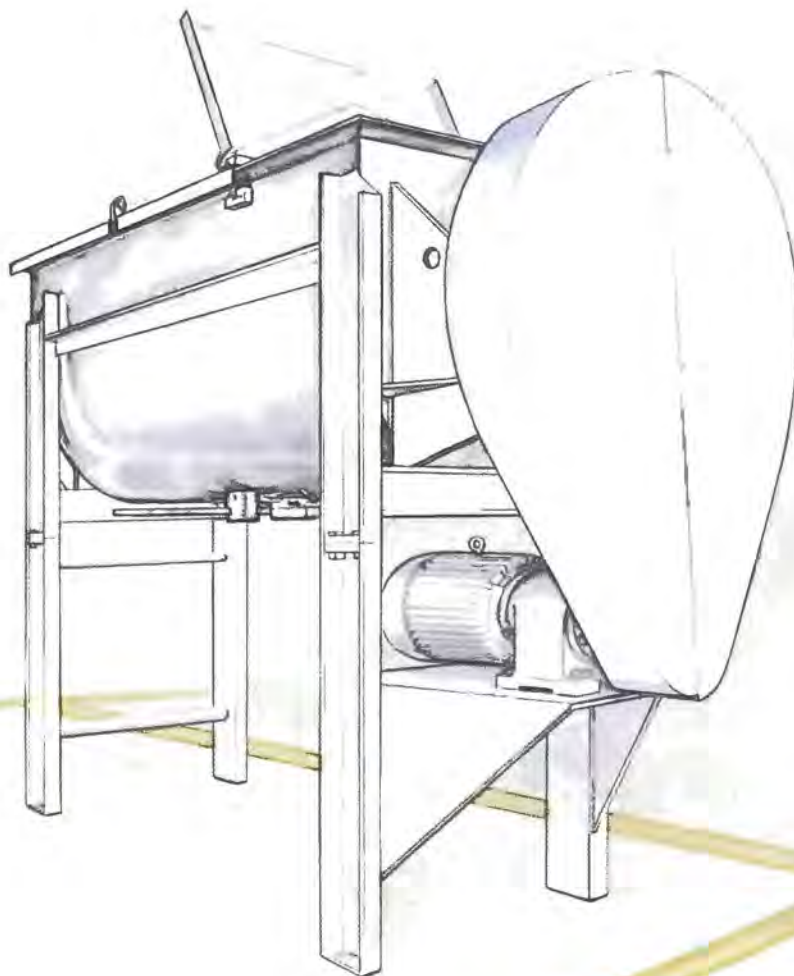
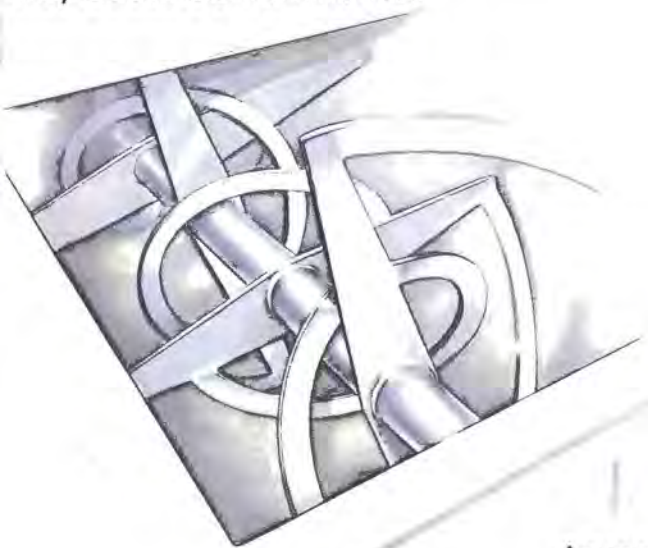
Fax# 1-708-350-9047 • Telex 28-9454

Quality . . .

AARON

ity and homogeneous, accurate ular, heavy density cakes, plastics . Engineered and constructed for rugged, heavy-duty production. Aaron Process Equipment Company Mixers are completely dependable. Their tough, all-steel construction is fully welded for maximum strength, rigidity and to meet sanitary requirements.

All machine surfaces are clean and smooth for sanitation purposes and minimal waste. Contents can't cake or stick because the chamber interior is slick and level. There are no projecting screws, nuts, bolts, pockets or ledges and all corners are rounded to help eliminate material build-up which may cause contamination.



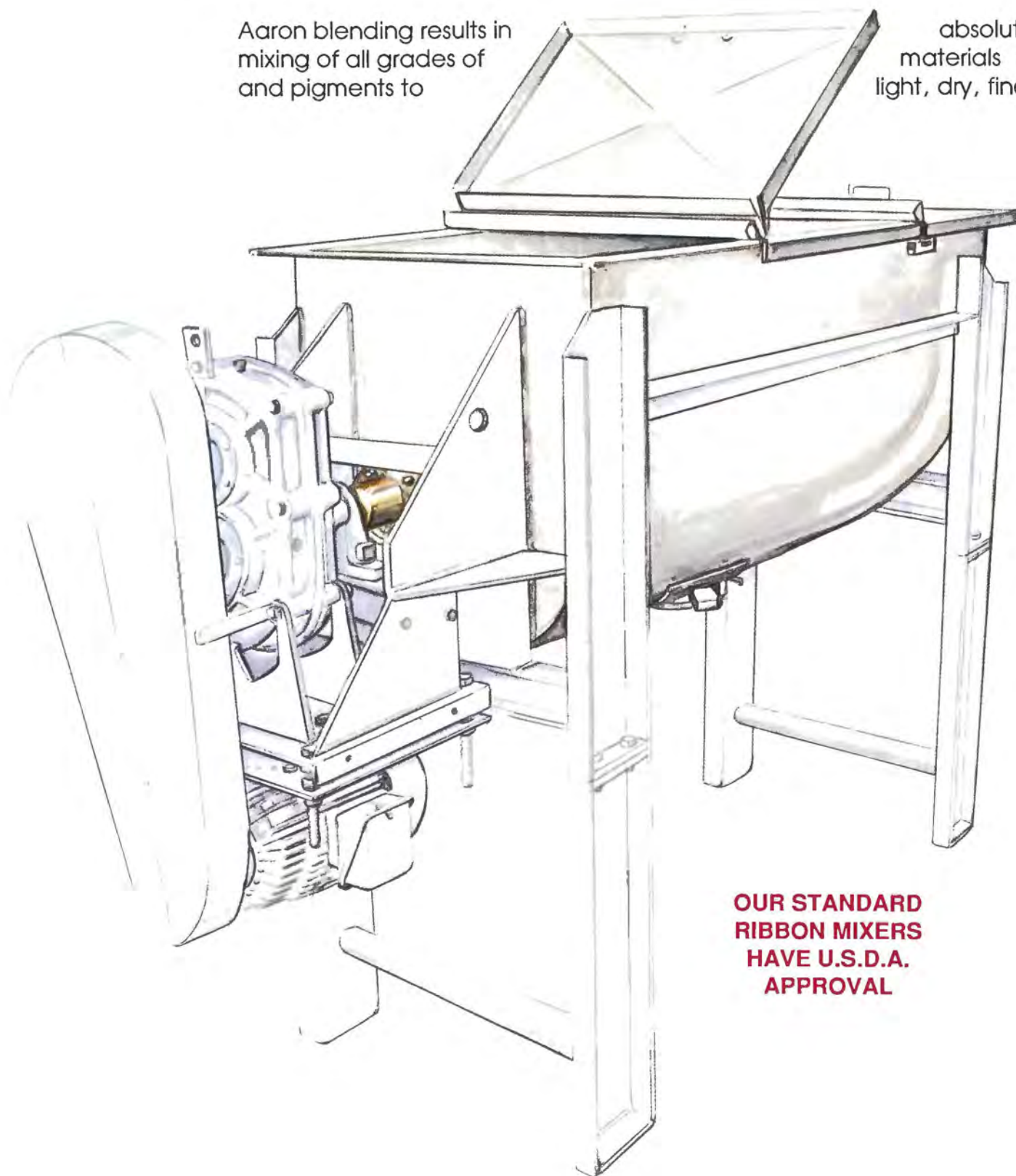
Anti-friction bearings in self aligning pillow blocks assure a free, smooth and quiet running operation. Discharge of the finished batch is quick and clean through a choice of positive shear gate or butterfly valve that provides for complete or throttle discharge. Other types of discharge valves are also available. The Aaron standard of highest quality and precision engineering is built into every mixer. Aaron Ribbon mixers unique features make them the leaders in the field.

Aaron's split gland is the best available design to meet the most rigid standards for sanitary servicing. Available with various packing materials to meet your requirements. Glands open into four pieces allowing access to the shaft and the end plate for easy cleaning. Dimpled jackets are available on all Aaron Mixers for steam, hot water or oil, if specified. Jackets can be built to ASME code.

Ribbon Mixers . . . First in Quality First in Dependability by

Aaron blending results in
mixing of all grades of
and pigments to

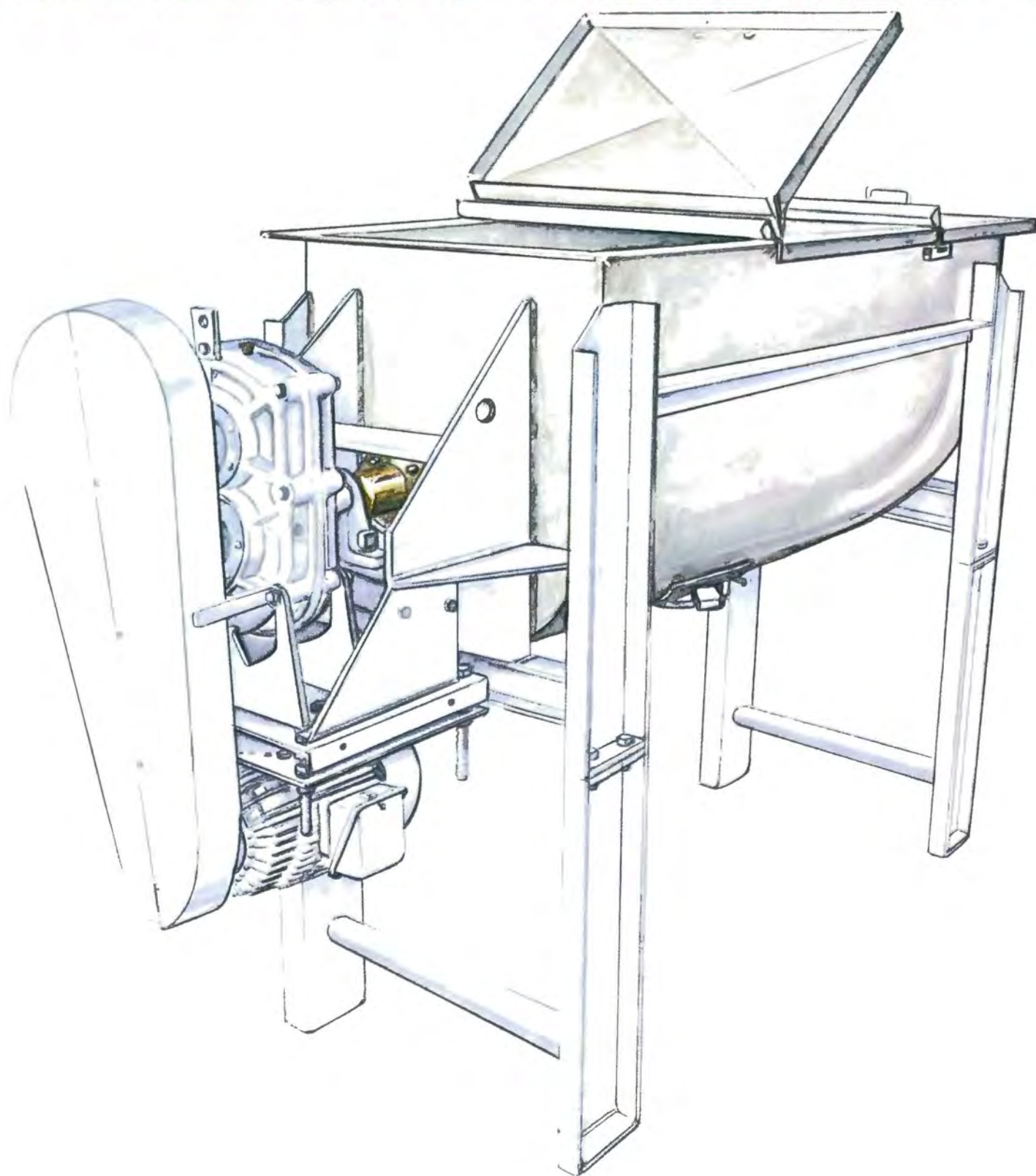
absolute uniform
materials from gran
light, dry, fine powders



**OUR STANDARD
RIBBON MIXERS
HAVE U.S.D.A.
APPROVAL**

PROCESS EQUIPMENT
COMPANY, INC.

ribbon mixers

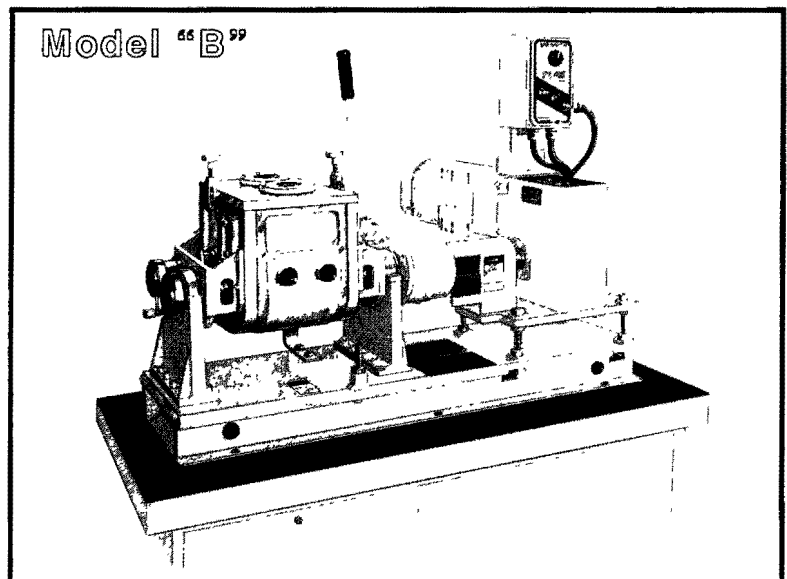


A A R O N

P R O C E S S E Q U I P M E N T C O M P A N Y

NEW **ONE GALLON LAB MIXER**

**GREAT FOR RESEARCH AND
DEVELOPMENT:
PLASTICS • FOODS • CHEMICALS •
PHARMACEUTICALS •
COSMETICS • ETC.**



AARON PROCESS EQUIPMENT COMPANY MANUFACTURES A ONE GALLON (AND A ONE QUARTER GALLON) LAB MIXER FOR TESTING PROTOTYPE MATERIALS AND DETERMINING EXACT MIXING RATIOS OF MATERIAL COMPONENTS PRIOR TO FULL PRODUCTION RUNS.

OUR LAB MIXERS HELP TAKE THE GUESS WORK OUT OF LARGE PRODUCTION COMMITMENTS AND AID OUR CUSTOMERS IN THEIR RESEARCH AND DEVELOPMENT PROJECTS.

STANDARD WITH ONE GALLON AARON PROCESS EQUIPMENT LAB MIXER:

Bowl: Constructed of T304 SS material (standard units) and line bored thru working segments to maintain bowl to blade clearances. Polished interior. Working capacity of 1 gallon; total capacity of 2.3 gallons.

Mixing Blades: Standard units furnished with heavy duty tangential sigma blades in cast T304 SS machined and polished. Blade bearings are permanently sealed ball bearings eliminating the need for periodic lubrication. Driven via one side thru 2" face gears.

Tilting Mechanism: Manual tilt over front journal stanchions with tilt handle. Pivot bearing constructed of oil impregnated bronze eliminating the need for periodic lubrication.

Jacket: Designed for 150 psi at 400 F with internal cross over baffle to insure positive and even distribution of heating/cooling transfer materials. ASME units available as an option.

Drive: 2 hp/80 v DC motor completely wired to cover activated limit switch and 230 v single phase AC controller with forward/reverse, run/jog and start/stop buttons. Arranged to provide 0-70 rpm on the fast (driver) blade.

Cover: Suitable for dust and/or vacuum. Constructed of T304 SS material complete with Buna-N gasket, handles, (2) 1/4" NPT ports and (2) sight glasses.

Among the many safety features are: Lid activated limit switch, renders machine inoperable without cover in place; spring loaded anti-tilt plunger; enclosed gears & drive coupling; and graphic warning/caution labels.

AARON

PROCESS EQUIPMENT COMPANY

P.O. BOX 530 • BENSENVILLE, ILLINOIS 60106

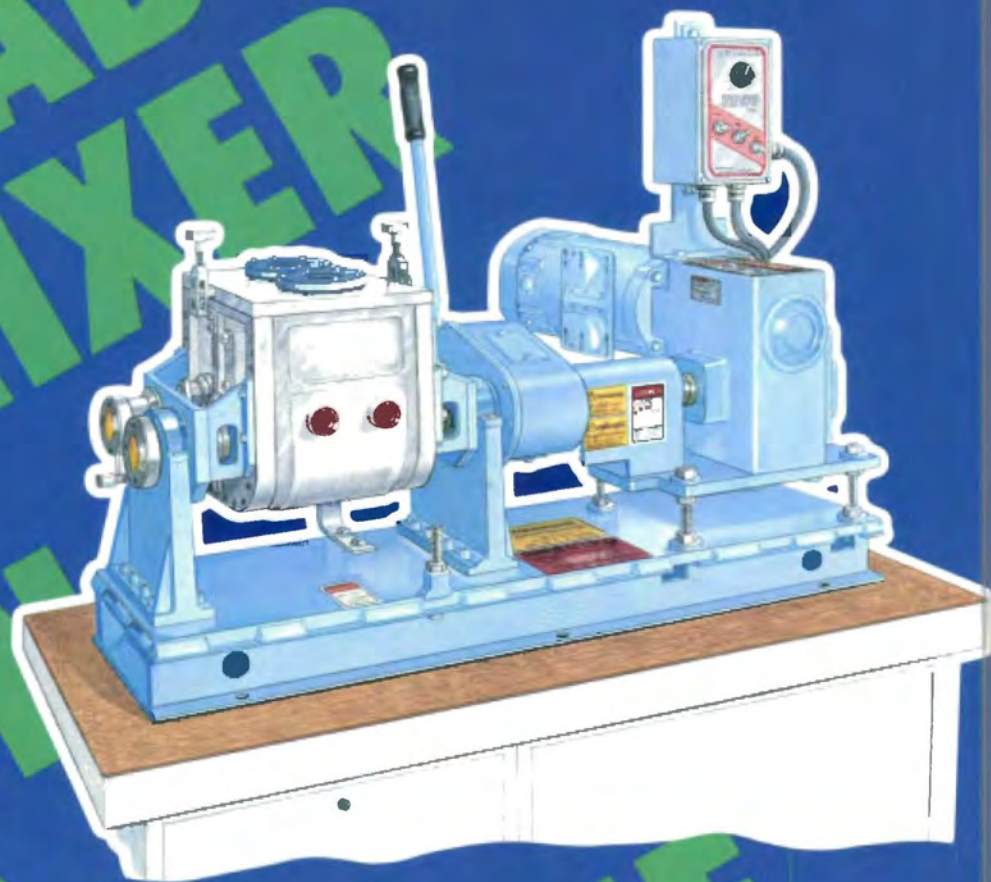
"For All Your Process Equipment Needs"

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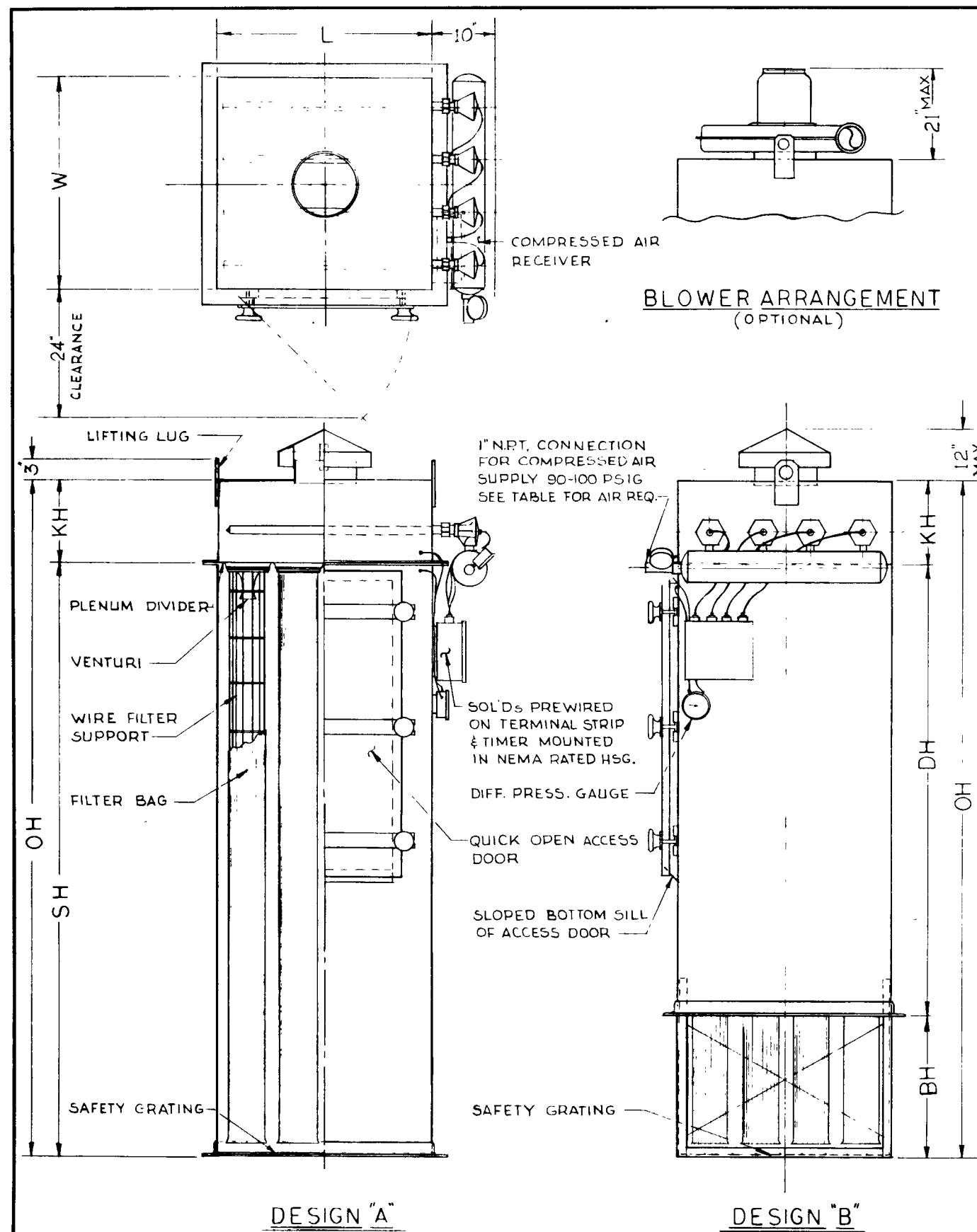
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PROCESS EQUIPMENT COMPANY

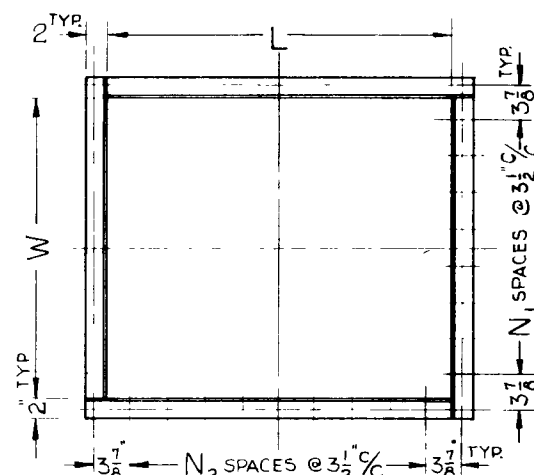
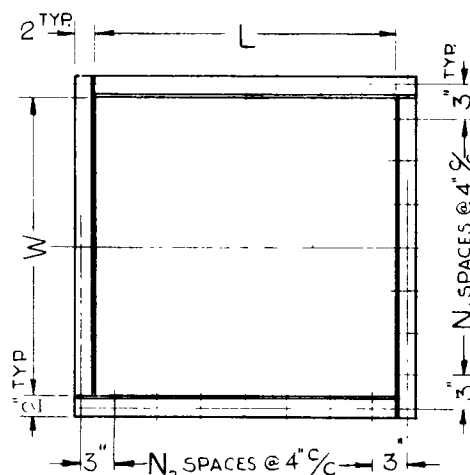


Model 'B'

LATEST DESIGN TECHNOLOGY



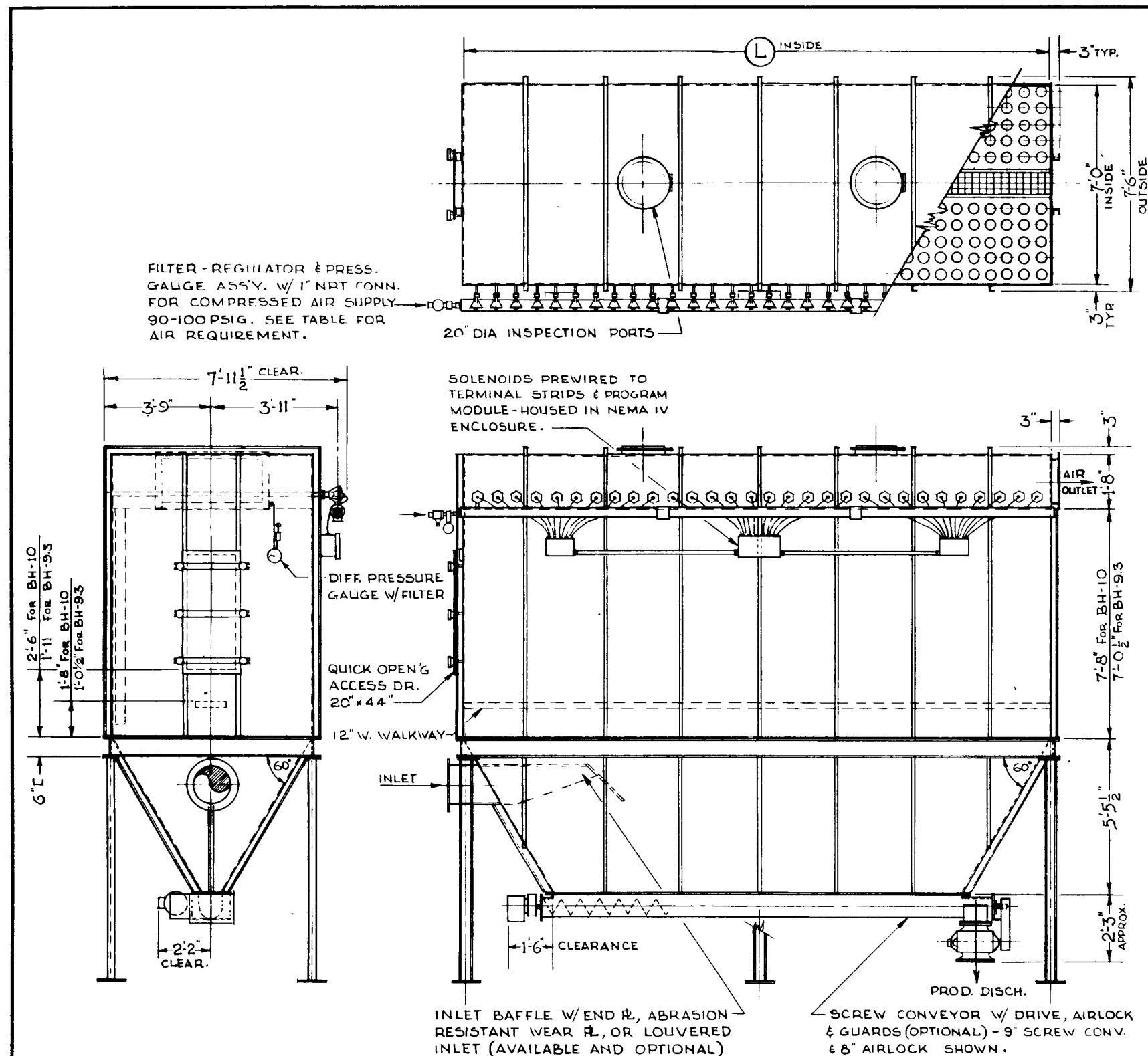
MODEL NO.	FILTER AREA SQ. FT.	NO OF BAGS	BAG LENGTH (IN.)	NO SOL'D REQ'D	COMPR REQ'D SCFM	W (IN.)	L (IN.)	SH (IN.)	KH (IN.)	OH (IN.)	BH (IN.)	DH (IN.)	NO. OF SPACES N ₁ -N ₂	APPROX SHIP'G. WEIGHT
BF 9 - 5	45	9	45	3	3.0	24	24	49	12	61	—	49	5-5	250
BF 9 - 7.5	68	9	68	3	3.2	24	24	72	12	84	—	72	5-5	295
BF 9 - 10	90	9	90	3	3.5	24	24	94	12	106	22	72	5-5	350
BF 12 - 5	60	12	45	3	3.7	23	30	49	12	61	—	49	5-7	345
BF 12 - 7.5	90	12	68	3	4.0	23	30	72	12	84	—	72	5-7	395
BF 12 - 10	120	12	90	3	4.2	23	30	94	12	106	22	72	5-7	450
BF 16 - 5	80	16	45	4	4.8	32	32	49	14	61	—	49	7-7	405
BF 16 - 7.5	120	16	68	4	5.2	32	32	72	14	84	—	72	7-7	465
BF 16 - 10	160	16	90	4	5.6	32	32	94	14	106	22	72	7-7	525
BF 20 - 7.5	150	20	68	4	6.3	30	37	72	14	84	—	72	7-9	575
BF 20 - 10	200	20	90	4	6.6	30	37	94	14	108	22	72	7-9	660
BF 25 - 7.5	188	25	68	5	7.0	40	40	72	16	88	—	72	9-9	685
BF 25 - 10	250	25	90	5	7.4	40	40	94	16	108	22	72	9-9	770
BF 30 - 7.5	225	30	68	5	7.9	37	44	72	16	88	—	72	9-11	750
BF 30 - 10	300	30	90	5	8.6	37	44	94	16	108	22	72	9-11	875
BF 36 - 7.5	260	36	68	6	9.4	48	48	72	16	88	—	72	11-11	845
BF 36 - 10	360	36	90	6	9.6	48	48	94	16	108	22	72	11-11	990
BF 42 - 7.5	315	42	68	6	9.7	44	51	72	16	88	—	72	11-13	975
BF 42 - 10	420	42	90	6	9.8	44	51	94	16	108	22	72	11-13	1135
BF 49 - 7.5	368	49	68	7	10.3	56	56	72	16	88	—	72	13-13	1150
BF 49 - 10	490	49	90	7	10.5	56	56	94	16	108	22	72	13-13	1340



- NOTES:
1. COLLECTOR MODEL WITH 49 BAGS HAS TWO (2) ACCESS DOORS.
 2. COMPRESSED AIR CONSUMPTION ASSUMES PROPER SIZING OF DUST COLL.
 3. TOP MOUNTING OF BLOWERS, AS SHOWN ON THE DRAWING IS LIMITED TO 2500 CFM. @ 6" S.P. OTHER RATINGS WITH DIFFERENT BLOWER ARRANGEMENTS ARE AVAILABLE
 4. THIS DRAWING TO BE USED FOR GENERAL ARRANGEMENT AND ENGINEERING ONLY, NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS CERTIFIED.

ARADON PROCESS EQUIPMENT COMPANY INC 9301 W. BERNICE ST SCHILLER PARK, IL 60176			
SCALE: NONE	APPROVED BY:	DRAWN BY Les J.W.	
DATE 3-1-74	CUSTOMER:	REVISED 1-2	
GENERAL DATA — BIN FILTER			
MODEL "BF" SERIES - 17" W.C. DESIGN		DRAWING NUMBER 3901-9002	

1	12-15-74	2	GEN. REV.
NO.	DATE	ISSUE	



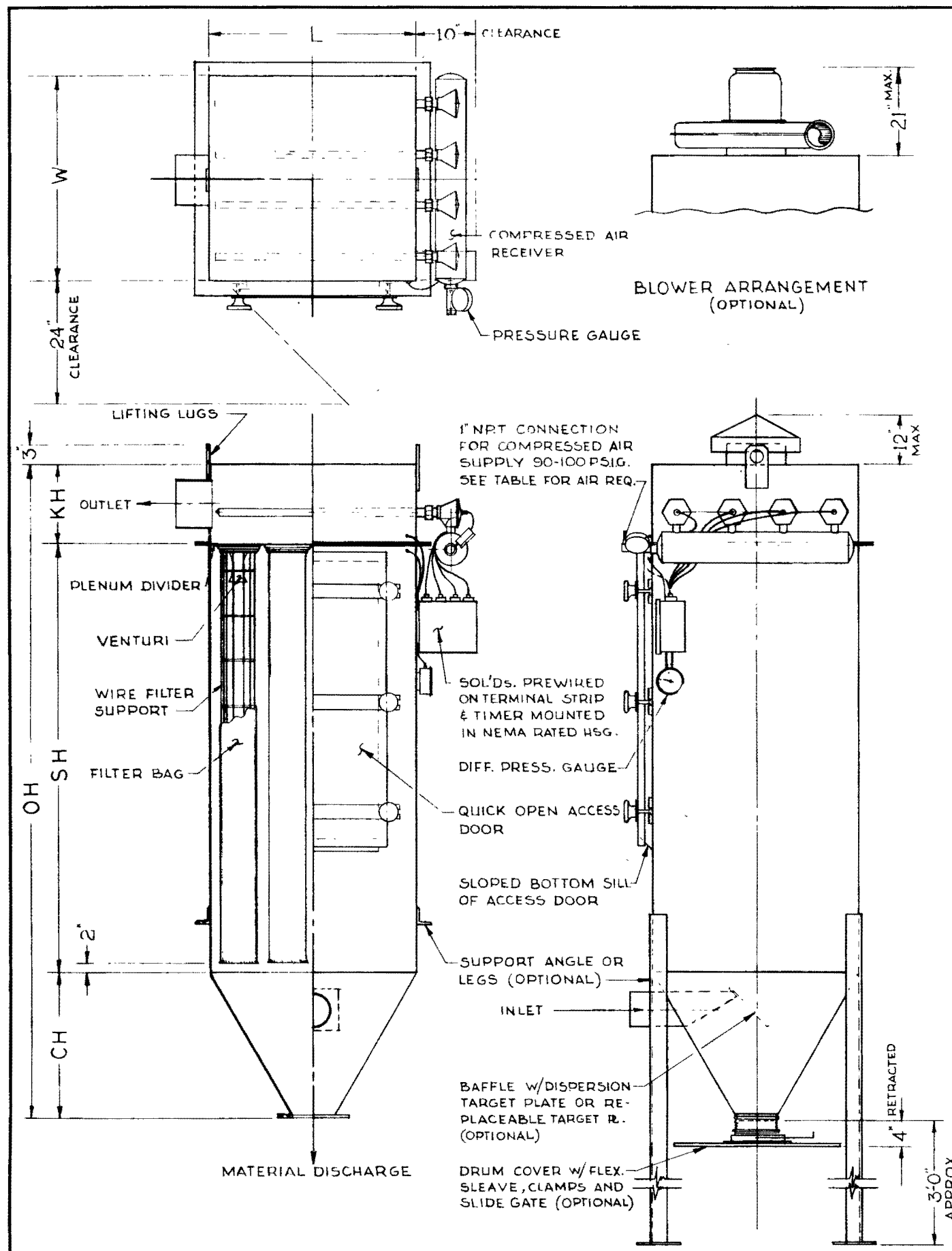
MODEL	FILTER AREA SQ. FT.	L	COMPR. AIR REQ'D SCFM.	CAN VEL. FT./MIN. @ 5/1 RATIO	NET WEIGHT (LBS.)
BH 120-9.3	1117	7'-0"	13.8	174	3120
BH 120-10	1200	7'-0"	14.2	187	3220
BH 140-9.3	1302	8'-2"	16.0	164	3520
BH 140-10	1400	8'-2"	16.4	177	3620
BH 160-9.3	1488	9'-4"	18.3	173	3910
BH 160-10	1600	9'-4"	18.7	186	4020
BH 180-9.3	1675	10'-6"	20.6	173	4300
BH 180-10	1800	10'-6"	21.0	186	4430
BH 200-9.3	1860	11'-8"	23.0	172	4690
BH 200-10	2000	11'-8"	23.4	185	4820
BH 240-9.3	2230	14'-0"	27.6	173	5470
BH 240-10	2400	14'-0"	28.0	186	5620
BH 280-9.3	2610	16'-4"	32.8	174	6250
BH 280-10	2800	16'-4"	33.2	187	6420
BH 300-9.3	2790	17'-6"	34.6	173	6640
BH 300-10	3000	17'-6"	35.0	186	6830
BH 340-9.3	3160	19'-10"	39.3	174	7420
BH 340-10	3400	19'-10"	39.7	187	7640
BH 380-9.3	3530	22'-2"	43.4	174	8200
BH 380-10	3800	22'-2"	43.8	187	8410
BH 400-9.3	3720	23'-4"	45.8	175	8590
BH 400-10	4000	23'-4"	46.2	187	8830
BH 440-9.3	4090	25'-8"	50.9	174	9380
BH 440-10	4400	25'-8"	51.3	187	9620
BH 480-9.3	4470	28'-0"	55.6	175	10170
BH 480-10	4800	28'-0"	56.0	187	10420
BH 500-9.3	4650	29'-2"	58.4	174	10560
BH 500-10	5000	29'-2"	58.8	187	10820
BH 540-9.3	5020	31'-6"	62.6	175	11350
BH 540-10	5400	31'-6"	63.0	186	11720
BH 580-9.3	5390	33'-10"	67.8	174	12130
BH 580-10	5800	33'-10"	68.2	187	12420
BH 600-9.3	5580	35'-0"	70.6	175	12510
BH 600-10	6000	35'-0"	71.0	186	12820
BH 640-9.3	5950	37'-4"	74.6	174	13290
BH 640-10	6400	37'-4"	75.0	187	13620
BH 680-9.3	6320	39'-8"	78.6	175	14070
BH 680-10	6800	39'-8"	79.0	186	14420
BH 700-9.3	6520	40'-10"	81.2	174	14460
BH 700-10	7000	40'-10"	81.6	187	14830

DESIGN PRESSURE: $\pm 17"$ W.G.

NOTES:

1. MODEL BH-9.3 SERIES HAS BEEN DESIGNED PRIMARILY FOR TRUCK SHIPMENT WITHOUT THE USE OF SPECIAL OVERSIZE PERMITS.
2. THIS DRAWING TO BE USED FOR GENERAL ARRANGEMENT & ENGINEERING ONLY, NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS CERTIFIED.

ARCON PROCESS EQUIPMENT COMPANY INC 9301 W BERNICE ST SCHILLER PARK, IL 60176		
SCALE NONE	APPROVED BY: <i>[Signature]</i>	DRAWN BY L.J.W.
DATE 4-2-73		REVISED
GENERAL DATA		
MODEL: BH SERIES		DRAWING NUMBER 3961-9005



MODEL NO.	FILTER AREA SQ. FT.	NO. OF BAGS	BAG LENGTH (IN.)	NO. SOL'D VALVES	COMPAIR REQ'D. (SCFM)	W (IN.)	L (IN.)	CH (IN.)	SH (IN.)	KH (IN.)	OH (FT.)	RISEING VELOC. @ 5/1 FT/MIN	APPROX SHIP'G WEIGHT
NF9-5	45	9	45	3	3.0	24	24	14 1/2	47	12	6 1/2	82	325
NF9-7.5	68	9	68	3	3.2	24	24	14 1/2	70	12	8 0/8	124	394
NF9-10	90	9	90	3	3.5	24	24	14 1/2	92	12	9 10/8	164	477
NF12-5	60	12	45	3	3.7	23	30	19 1/4	47	12	6 6/8	96	401
NF12-7.5	90	12	68	3	4.0	23	30	19 1/4	70	12	8 5/8	145	481
NF12-10	120	12	90	3	4.2	23	30	19 1/4	92	12	10 3/8	194	561
NF16-5	80	16	45	4	4.8	32	32	21	47	14	6 10/8	82	480
NF16-7.5	120	16	68	4	5.2	32	32	21	70	14	8 9/8	123	575
NF16-10	160	16	90	4	5.6	32	32	21	92	14	10 7/8	164	655
NF20-5	100	20	45	4	5.8	30	37	25 1/2	47	14	7 2/8	102	573
NF20-7.5	150	20	68	4	6.3	30	37	25 1/2	70	14	9 1/8	153	680
NF20-10	200	20	90	4	6.6	30	37	25 1/2	92	14	10 11/8	202	808
NF25-7.5	188	25	68	5	7.0	40	40	28	70	16	9 6/8	124	801
NF25-10	250	25	90	5	7.4	40	40	28	92	16	11 4/8	165	953
NF30-7.5	225	30	68	5	7.9	37	44	31 3/8	70	16	9 9/8	148	923
NF30-10	300	30	90	5	8.6	37	44	31 3/8	92	16	11 7/8	212	1095
NF36-7.5	260	36	68	6	9.4	48	48	34 1/2	70	16	10 0/8	118	1059
NF36-10	360	36	90	6	9.5	48	48	34 1/2	92	16	11 10/8	164	1249
NF42-7.5	315	42	68	6	9.7	44	51	37 1/2	70	16	10 3/8	140	1186
NF42-10	420	42	90	6	9.8	44	51	37 1/2	92	16	12 1/8	187	1414
NF49-7.5	368	49	68	7	10.3	56	56	41 1/2	70	16	10 7/8	123	1332
NF49-10	490	49	90	7	10.5	56	56	41 1/2	92	16	12 3/8	164	1576
NF56-7.5	420	56	68	7	10.7	51	58	43 1/2	70	16	10 9/8	166	1494
NF56-10	560	56	90	7	10.8	51	58	43 1/2	92	16	12 7/8	221	1728
NF64-7.5	480	64	68	8	11.2	64	64	48 1/2	70	16	11 2/8	123	1616
NF64-10	640	64	90	8	11.3	64	64	48 1/2	92	16	13 0/8	164	1892
NF72-7.5	540	72	68	8	11.5	58	65	49 1/2	70	16	11 3/8	168	1797
NF72-10	720	72	90	8	11.7	58	65	49 1/2	92	16	13 1/8	224	2097
NF81-7.5	610	81	68	9	12.0	72	72	55 1/2	70	18	11 11/8	123	1972
NF81-10	810	81	90	9	12.4	72	72	55 1/2	92	18	13 9/8	164	2264
NF90-7.5	675	90	68	9	12.8	65	72	55 1/2	70	18	11 11/8	169	2153
NF90-10	900	90	90	9	13.0	65	72	55 1/2	92	18	13 9/8	225	2506
NF100-7.5	750	100	68	10	13.3	80	80	62 1/2	70	18	12 6/8	122	2355
NF100-10	1000	100	90	10	13.5	80	80	62 1/2	92	18	14 4/8	164	2730

NOTES

1. INLET SIZE SHALL BE BASED ON RECOMMENDED 4,000-5,000 FT/MIN VELOCITY.
2. OUTLET SIZE SHALL BE BASED ON RECOMMENDED 3,000-4,000 FT/MIN VELOCITY.
3. CONE HEIGHT DIMENSIONS ARE BASED ON AN 8" SQ. MATERIAL DISCHARGE OPENING (OTHER SIZES ARE AVAILABLE).
4. COLLECTOR MODELS WITH 49 BAGS AND LARGER SHALL HAVE TWO (2) ACCESS DOORS.
5. COMPRESSED AIR CONSUMPTION ASSUMES PROPER SIZING OF DUST COLL.
6. TOP MOUNTING OF BLOWERS, AS SHOWN ON THE DRAWING, IS LIMITED TO 2500 CFM @ 6" S.P. OTHER RATINGS WITH DIFFERENT BLOWER ARRANGEMENTS ARE AVAILABLE.
7. THIS DRAWING TO BE USED FOR GENERAL ARRANGEMENT AND ENGINEERING ONLY, NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS CERTIFIED.

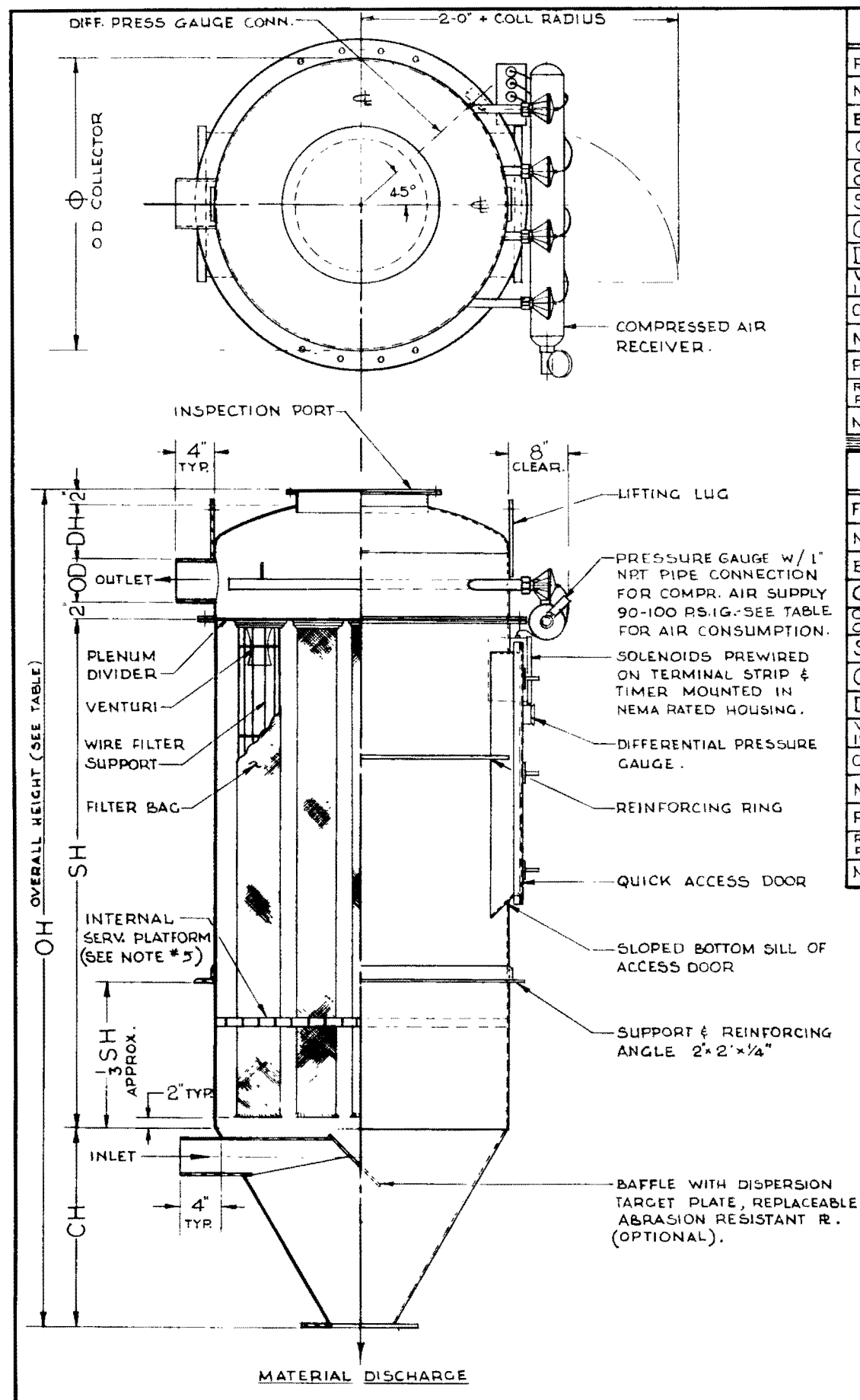
ARADON PROCESS EQUIPMENT COMPANY INC
9301 W BERNICE ST SCHILLER PARK, IL 60176

SCALE NONE APPROVED BY: *EJW* 5-8-73 DRAWN BY: *Les J. W.*
DATE 5-5-73 CUSTOMER: REVISED NO. 72-5358

GENERAL DATA - NUISANCE FILTER

MODEL "NF" SERIES - 17" W.G. DESIGN 3951-9007

1	12-15-74	2-GEN. REV.
NO	DATE	ISSUE



MODEL	FR 4-5	FR 4-7.5	FR 7-5	FR 7-7.5	FR 7-10	FR 9-5	FR 9-7.5	FR 9-10	FR 12-5	FR 12-7.5	FR 12-10	FR 16-7.5	FR 16-10	FR 18-7.5	FR 18-10	FR 25-7.5	FR 25-10
FILTER AREA (SQ FT.)	20	30	35	52.5	70	45	67.5	90	60	90	120	120	160	135	180	187.5	250
NUMBER OF BAGS	4	4	7	7	7	9	9	9	12	12	12	16	16	18	18	25	25
BAG LENGTH (IN.)	45	68	45	68	90	45	68	90	45	68	90	68	90	68	90	68	90
Φ (OUTSIDE DIA. IN.)	18	18	24	24	24	30	30	30	30	30	30	36	36	42	42	48	48
O.H. (OVERALL HEIGHT) = O.D. OUTLET + TABLE DIM.	5'-4 1/4"	7'-3 3/4"	5'-10 7/8"	7'-9 7/8"	9'-7 7/8"	6'-4 1/8"	8'-3 1/8"	10'-1 1/8"	6'-4 1/8"	8'-3 1/8"	10'-1 1/8"	8'-9 1/4"	10'-7 1/4"	9'-2 1/8"	11'-0 1/2"	9'-8 5/8"	11'-6 5/8"
S.H. (SHELL HEIGHT IN.)	47	70	47	70	92	47	70	92	47	70	92	70	92	70	92	70	92
C.H. (CONE HEIGHT IN.)	8 3/4	8 3/4	13 7/8	13 7/8	13 7/8	19 1/8	19 1/8	19 1/8	19 1/8	19 1/8	19 1/8	24 1/4	24 1/4	29 1/2	29 1/2	34 3/8	34 3/8
D.H. (DISHED HD HT. IN.)	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	7	7
VOLUMETRIC DISPLACMT. INCL. CLEAN AIR CHAMBR. (FT ³)	8.8	12.2	16.5	22.5	28.4	26.6	35.3	45	26.6	35.3	45	53	66.3	68	86	99.5	124
COMPR. AIR REQMT. (SCFM)	3.0	3.2	3.4	3.6	3.8	4.2	4.6	4.8	5.3	5.7	6.0	6.3	6.5	6.7	7.0	8.5	9.0
NO. OF SOLENOID VALVES	2	2	3	3	3	3	3	3	4	4	4	4	4	5	5	7	7
PRESS. RATING (IN. HG. ±)	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
RISE (CAN) VELOCITY FT/MIN @ 5/1 RATIO	83	129	78	117	157	62	93	139	93	139	185	124	166	95	127	104	138
NET WT. LBS. APPROX.	520	578	570	610	650	695	761	820	830	935	1040	1020	1145	1270	1230	1385	1540

MODEL	FR 33-7.5	FR 33-10	FR 42-7.5	FR 42-10	FR 49-7.5	FR 49-10	FR 56-7.5	FR 56-10	FR 64-7.5	FR 64-10	FR 82-7.5	FR 82-10	FR 90-7.5	FR 90-10	FR 106-7.5	FR 106-10
FILTER AREA (SQ FT.)	247.5	330	315	420	367.5	490	420	560	480	640	615	820	675	900	795	1060
NUMBER OF BAGS	33	33	42	42	49	49	56	56	64	64	82	82	90	90	106	106
BAG LENGTH (IN.)	68	90	68	90	68	90	68	90	68	90	68	90	68	90	68	90
Φ (OUTSIDE DIA. IN.)	54	54	60	60	66	66	72	72	78	78	84	84	90	90	96	96
O.H. (OVERALL HEIGHT) = O.D. OUTLET + TABLE DIM.	10'-9 7/8"	12'-7 7/8"	11'-4"	13'-3"	11'-11 1/4"	13'-9 1/4"	12'-6 1/2"	14'-4 1/4"	13'-2 3/8"	15'-0 5/8"	13'-8 1/4"	15'-6 3/4"	14'-6 1/2"	16'-4 3/4"	15'-1 1/4"	16'-11 1/4"
S.H. (SHELL HEIGHT IN.)	70	92	70	92	70	92	70	92	70	92	70	92	70	92	70	92
C.H. (CONE HEIGHT IN.)	39 7/8	39 7/8	45	45	50 1/4	50 1/4	55 1/2	55 1/2	60 5/8	60 5/8	65 3/4	65 3/4	72 3/4	72 3/4	76 1/4	76 1/4
D.H. (DISHED HD HT. IN.)	8	8	9	9	10	10	10	10	11	11	12	12	13	13	14	14
VOLUMETRIC DISPLACMT. INCL. CLEAN AIR CHAMBR. (FT ³)	141	172	174	212	217	260	261	313	306	358	366	435	427	506	492	582
COMPR. AIR REQMT. (SCFM)	9.5	10.2	11.4	11.6	11.8	11.9	10.6	10.8	11.0	11.3	12.3	12.6	13.0	13.6	14.2	15.0
NO. OF SOLENOID VALVES	7	7	9	9	9	9	8	8	8	8	10	10	10	10	12	12
PRESS. RATING (IN. HG. ±)	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
RISE (CAN) VELOCITY FT/MIN @ 5/1 RATIO	110	146	115	153	106	141	106	137	100	132	114	152	106	142	113	150
NET WT. LBS. APPROX.	1687	1805	1995	2190	2345	2625	2705	2960	3025	3455	4585	5075	5125	5640	5720	6274

NOTES:

1. INLET SIZE SHALL BE BASED ON RECOMMENDED 4,000-5,000 FT./MIN. VELOCITY.
2. OUTLET SIZE SHALL BE BASED ON RECOMMENDED 3,000-4,000 FT./MIN. VELOCITY.
3. CLEAN AIR PLENUM HEIGHT IS DETERMINED BY OUTLET O.D. (MINIMUM HEIGHT 10")
4. CONE HEIGHT DIMENSIONS ARE BASED ON AN 8" I.D. MATERIAL DISCHARGE FLANGE (OTHER SIZES ARE AVAILABLE).
5. COLLECTOR MODELS OVER 3'-0" DIA. SHALL HAVE INTERNAL SERVICE PLATFORM
6. COMPRESSED AIR CONSUMPTION ASSUMES PROPER SIZING OF DUST COLLECTOR.
7. UNITS OVER 8'-0" DIA. ARE AVAILABLE, CONTACT EVO CORP.

1	11-15-74	GENERAL REVISION
NO.	DATE	REVISION

AARON PROCESS EQUIPMENT COMPANY INC
9301 W. BERNICE ST. SCHILLER PARK, IL 60176

SCALE	N. T. S.	APPROVED BY	5-8-73	DRAWN BY	L. J. W.
DATE	5-1-73	CUSTOMER		SUPERSEDES	REVISED NO. 3151-9003

GENERAL DATA-FILTER RECEIVER

MODEL "FR" SERIES- UP TO 8'-0" DIA. DRAWING NUMBER 3951-9006

SUPERSEDES DRG NO. 3951-9003

