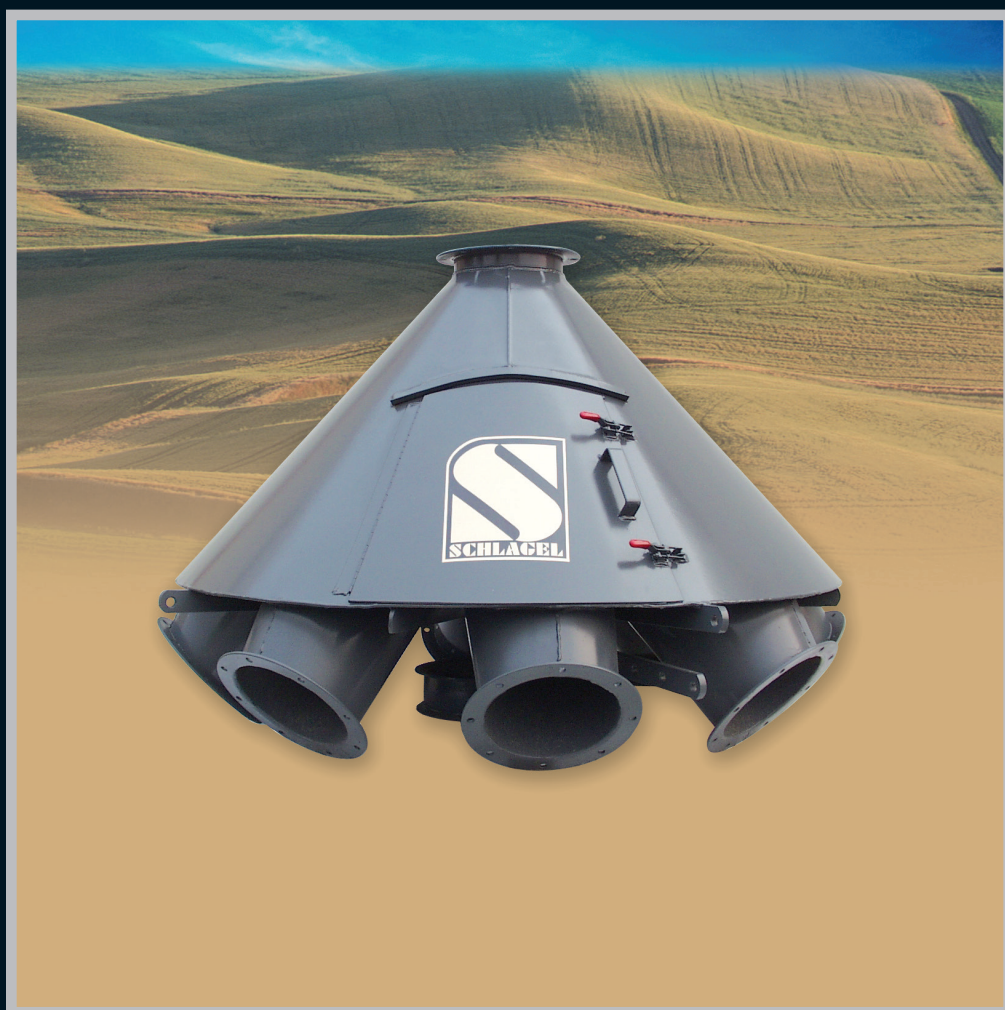




SYNCROSET™ DISTRIBUTORS



Bulletin SCD-12

SYNCROSET DISTRIBUTORS

This distributor has been designed to provide the finest material distribution at a very economical price. We have built into this distributor the dependability and positive control you need for an efficient plant operation.

Manual SyncroSet distributors positively lock the spout into the discharge duct before running material through it, eliminating the possibility of mixing or leaking product into an adjacent bin. The incorporation of the ball-bearing indexing device works with all of the other features used in making this distributor one of the most preferred in the industry.

Electric operators include the EDI Control (For better detailed information see EDI brochure) and limit switch style controls. When combined with the EDI Control, it becomes a very compact distributor fully capable of plant automation.

If you feel that you cannot afford to mix or leak material, then compare these features with any other distributor, and we feel you too will be convinced it is your best buy.

The following pages will provide you with information on the many standard and optional features of the SyncroSet distributor. Included are dimension sheets to assist you in designing the distributor to fit your needs.

When ordering a distributor, please specify the spouting size, number of outlets, type of flange and style of ducts. Style "B" ducts will be furnished unless otherwise specified.

STANDARD FEATURES

Compact

Uses minimum space

Wear Resistant

Spout is lined with high carbon steel to provide wearing qualities better than 3/16" steel plate

Unrestricted Flow

Only one bend is required from inlet to outlet

Conical Design

Makes it ideal for outside installation

Dust-tight

Material stays within the unit

Rigidly Supported Bottom

Keeps it from bending under the weight of spouting and provides excellent hanging facilities

Positive Locking

On manually operated units the spout drops into the outbound duct so it cannot spill material into adjoining outlets

No Adjusting

Once installed, you are ready for years of trouble-free service

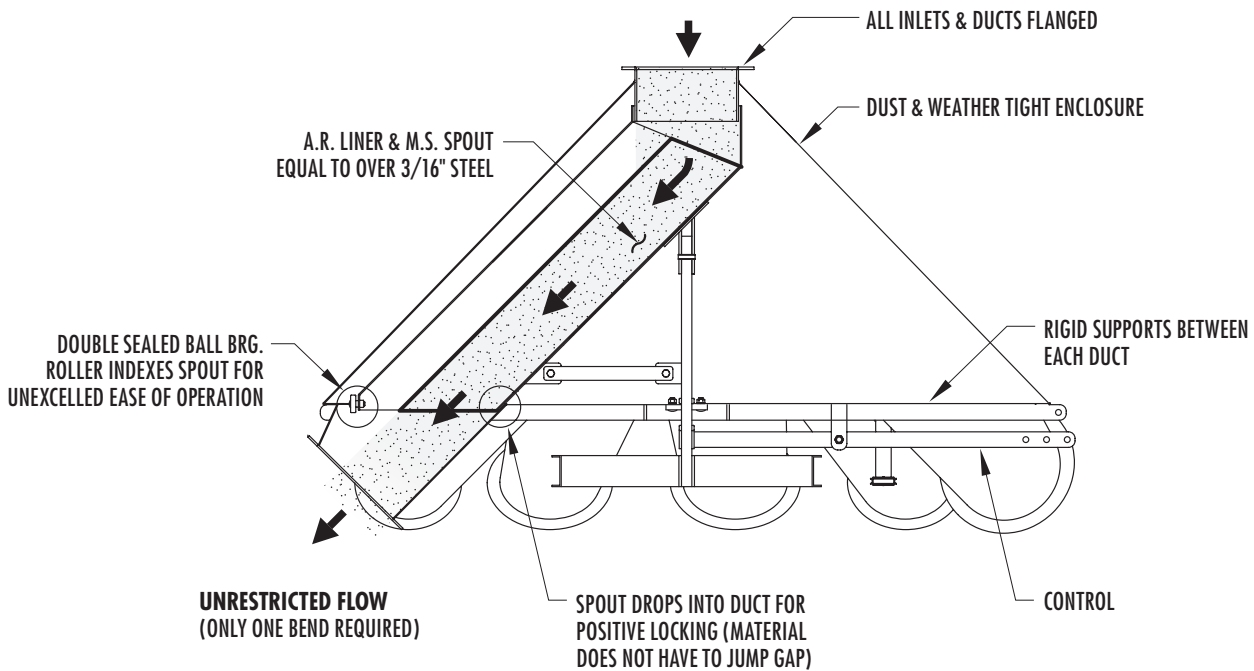
New Body Design

Allows for ease of conversion from manual to electric with out modifying body.

No Extras to Buy

Price shown includes flanged inlet and discharges, large numbered control wheel, 150 foot cable, lift pedal, six pulleys and cable clamps.

MANUALLY OPERATED DISTRIBUTOR



60° DISTRIBUTOR

The standard distributor's inner spout and ducts are set to provide 45 degree flow path for the material. A taller distributor with a 60 degree flow path is available for handling materials such as feed. Both 45 degree and 60 degree inner spouts are oversized to ensure unrestricted flow of the material.

FLAT BACK DISTRIBUTOR

The SyncroSet distributor can be made with a section of the round body cutaway. This enables you to position the distributor inlet up close to the discharge and trunking of a bucket elevator.

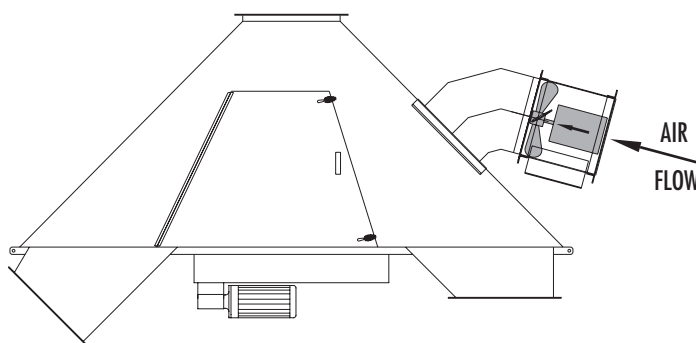
FERTILIZER DISTRIBUTOR

The description for a fertilizer distributor is the same as on our standard distributor except for the following additions:

1. All parts that move against one another, to affect the rotation of the inner spout, are made of type 304 stainless steel. This consists of the inlet collar and the top of the inner spout. The door hinge is also made from stainless steel.
2. The shaft used for the lifting and rotating of the revolving spout is made from the stainless steel and slides and rotates inside a UHMW bearing plate.
3. The SyncroSet indexing bearing is made of graphite impregnated, high-impact phenolic and rotates on a stainless steel bushing.
4. Stainless steel operating cable is provided for 50 feet of remote operation.
5. As an option, complete sandblasting and epoxy coating of the exterior and interior of the unit is available.

AIR FANS FOR DISTRIBUTORS

A question we are often asked is; why does a distributor always seem to fill up with dust? When grain running through a distributor is directed to a bin, the air in the bin is displaced. Even with vented bins, a good share of the air goes back up the spout and into the distributor. Naturally this air is laden with dust, some of which settles in the distributor as the air velocity slows down in the larger area. All distributors will have some dust settle into the other outlets. Though this phenomenon occurs in many systems it does not hurt in most applications, so nobody notices. An optional fan can create a positive air pressure in the distributor to help prevent the build up of moisture and dust from the bin.



SYNCROSET DISTRIBUTOR SHOWN WITH POSITIVE PRESSURE FAN

OPTIONS

Stainless Steel or Galvanized Construction

Any style distributor can be ordered using either stainless steel (type 304 standard) or galvanized steel construction.

Heavy Duty

If desired, a heavy duty constructed body is available. The optional heavy duty SyncroSet distributor body and inner spout are constructed of 10 gauge mild steel on sizes 6" through 10". The optional heavy duty SyncroSet distributor base, ducts and inner spout are constructed of 7 gauge mild steel and the cone is constructed of 10 gauge mild steel on sizes 12" and larger.

Overflow

Material overflow can be handled by either a top-mounted overflow valve or by a built-in internal overflow on the bottom of the distributor.

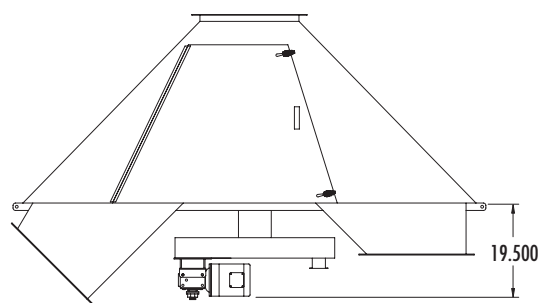
Electrically Operated

Electronic "EDI" Control and Limit Switch control are available for SyncroSet Distributors. For better detailed information see EDI brochure.

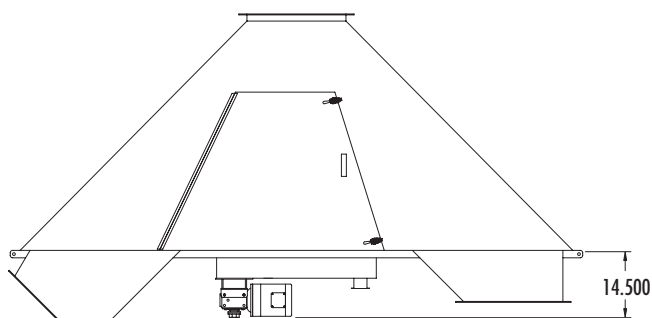
Dust Seals

We can provide seals that seal off both the bottom and top of the inner spout. The standard style of bottom dust seal only seals around the duct being fed.

NOTE: DIMENSIONS GIVEN ARE CONSTANT AND DO NOT CHANGE WITH DISTRIBUTORS EXCEPT FOR SMALL DISTRIBUTORS WITH AN EXPLOSION PROOF MOTOR WHICH MAY REQUIRE A TALLER PEDESTAL MOUNT.



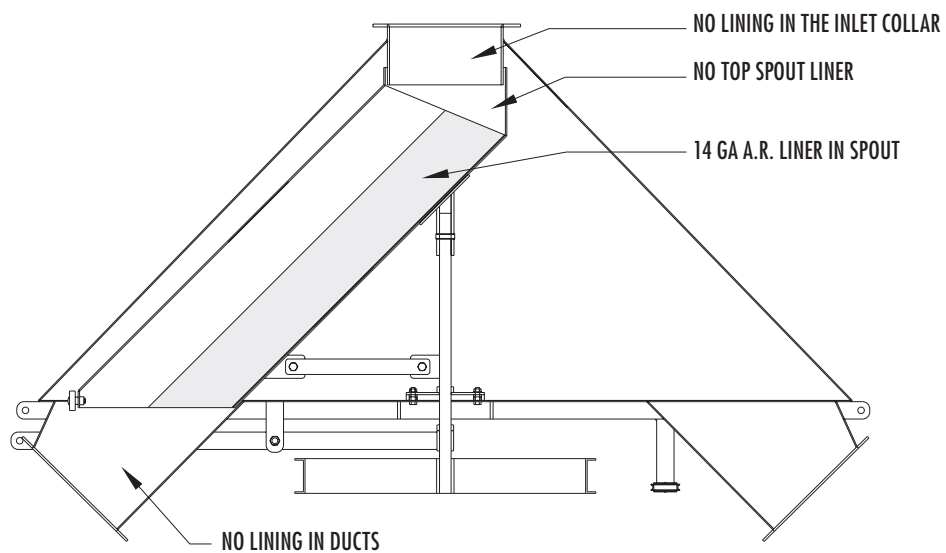
EDI DRIVE W/ PEDESTAL MOUNT



EDI DRIVE W/ BASE MOUNT

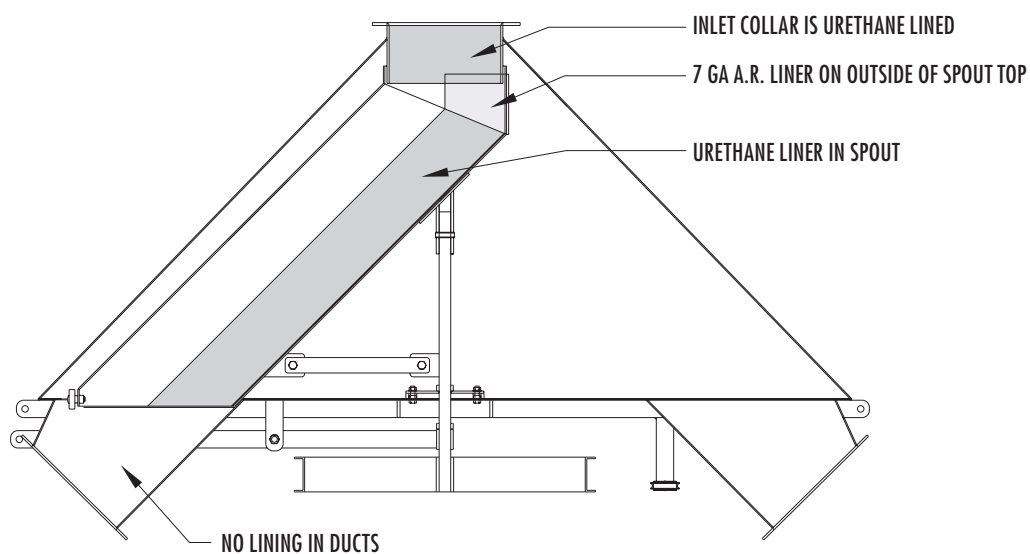
STANDARD DUTY LINERS

NOTE: The *Manual* and *Electric* SyncroSet distributors use identical lining systems.



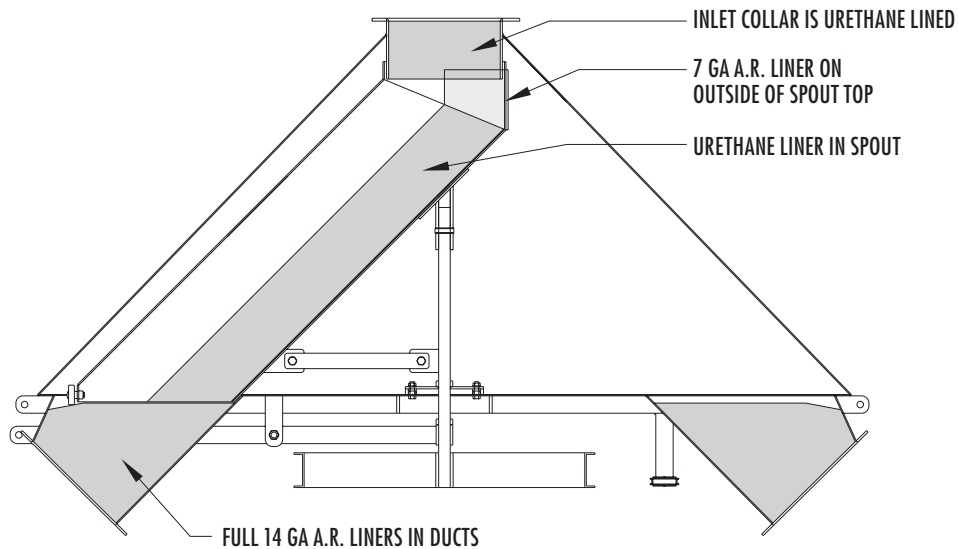
MEDIUM DUTY LINERS

NOTE: The *Manual* and *Electric* SyncroSet distributors use identical lining systems.



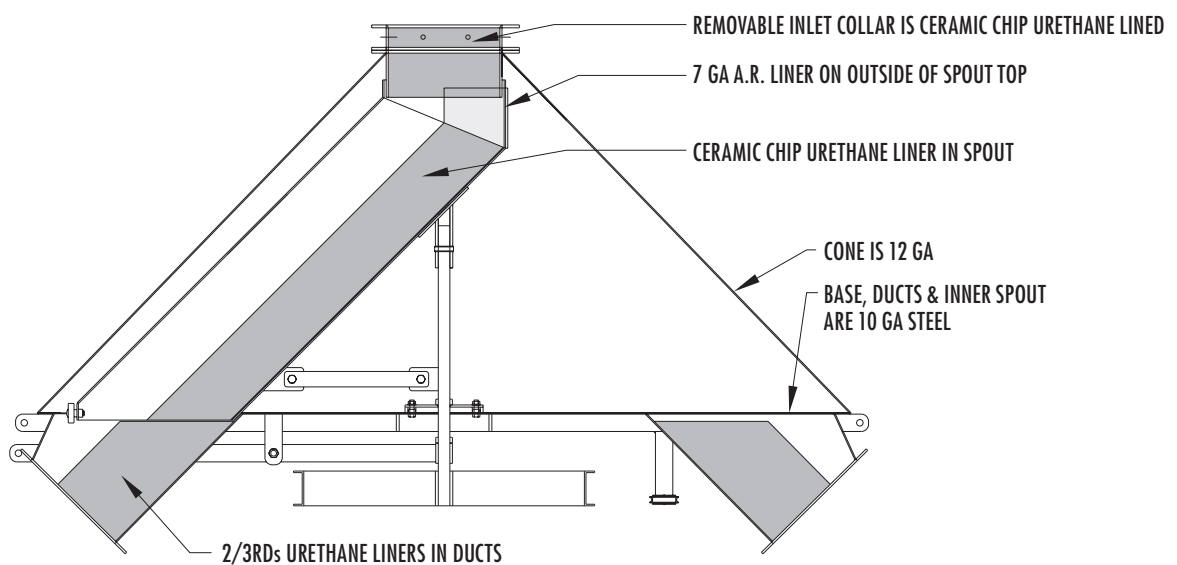
HEAVY DUTY LINERS

NOTE: The *Manual* and *Electric* SyncroSet distributors use identical lining systems.



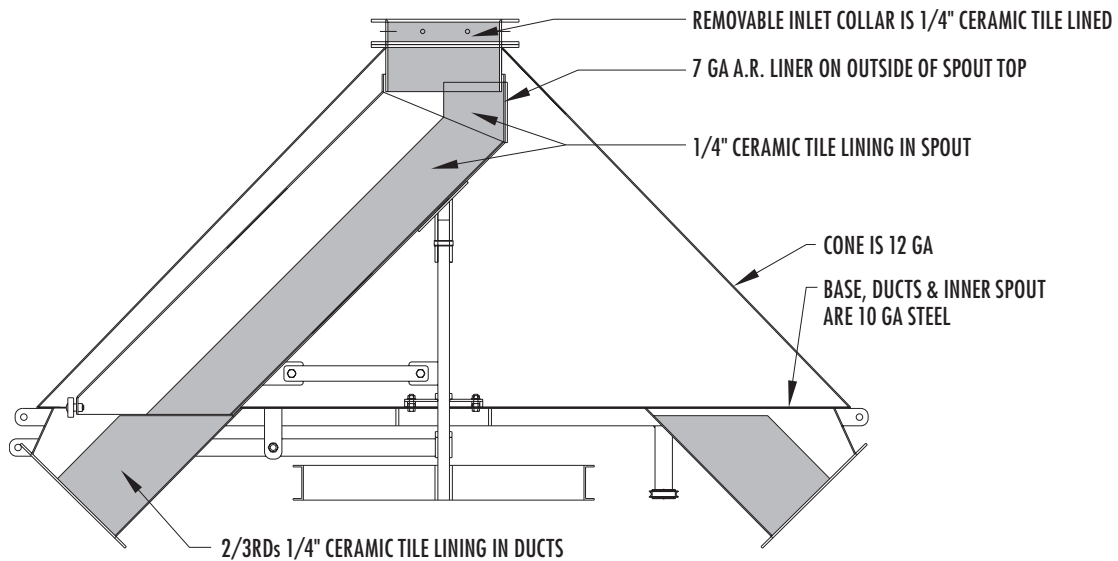
EXTRA HEAVY DUTY LINERS

NOTE: The *Manual* and *Electric* SyncroSet distributors use identical lining systems.



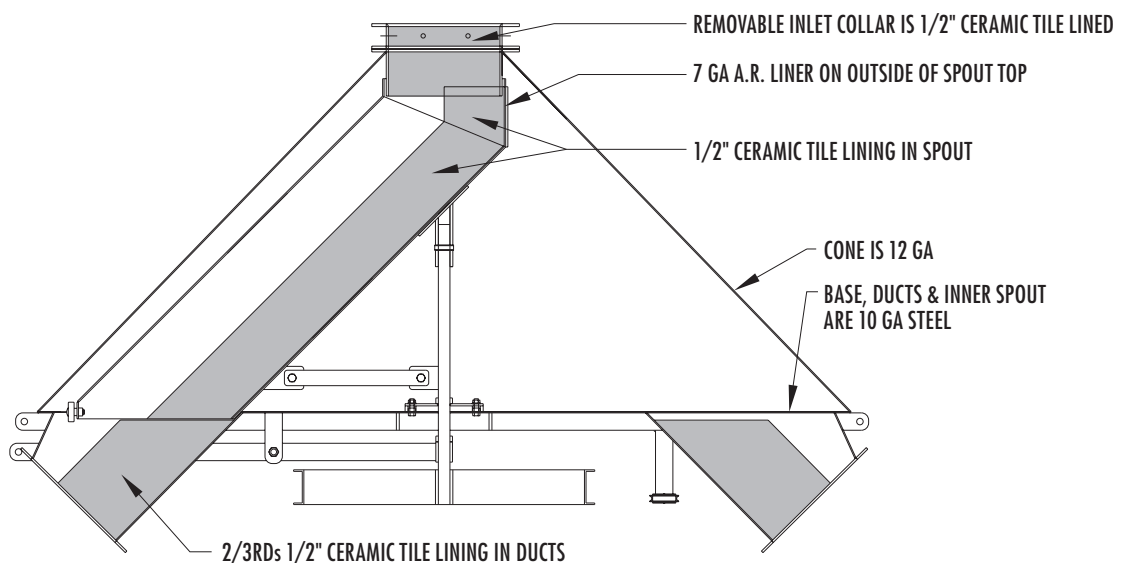
E1 TILE LINERS

NOTE: The *Manual* and *Electric* SyncroSet distributors use identical lining systems.



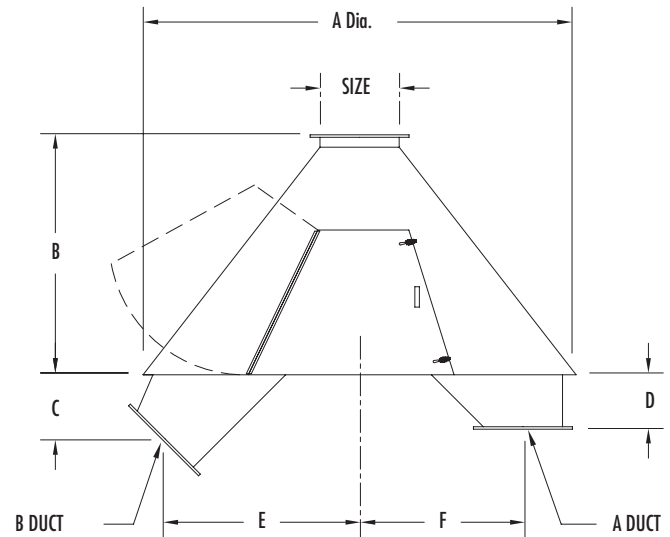
E2 TILE LINERS

NOTE: The *Manual* and *Electric* SyncroSet distributors use identical lining systems.



FULL ROUND / 45° SPOUT & OUTLET DUCTS - DIMENSIONS

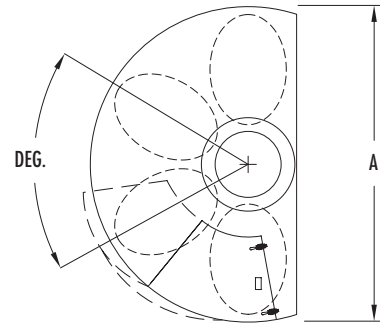
SIZE	NO. DUCTS	A'	B'	C'	D'	E'	F'	WEIGHT
6"	4-5-6	33	17	6	4 3/4	14 3/4	12 1/8	130
	7-8-9	40	20 1/2	6	4 3/4	18 1/4	15 5/8	200
	10-11-12	47 1/2	24 1/4	6	4 3/4	22	19 3/8	260
	13-14-15	56	28 1/2	6	4 3/4	26 1/4	23 5/8	340
	16-17-18	67	33	6	4 3/4	31 3/4	29 1/8	460
	19-20-21	78	38 1/2	6	4 3/4	37 1/4	34 5/8	680
8"	4-5-6	38 1/4	19	6 1/2	5 1/4	16 7/8	13 3/4	190
	7-8-9	47 1/2	23 5/8	6 1/2	5 1/4	21 1/2	18 3/8	280
	10-11-12	59	28 1/4	6 1/2	5 1/4	27 1/4	24 1/8	370
	13-14-15	70 3/8	35	6 1/2	5 1/4	33	29 7/8	500
	16-17-18	83	40 3/8	6 1/2	5 1/4	39 1/4	36 1/8	660
	19-20-21	93	45	6 1/2	5 1/4	44 1/4	41 1/8	810
10"	22-23-24	105	51	6 1/2	5 1/4	50 1/4	47 1/8	1000
	25-26-27	117	57	6 1/2	5 1/4	56 1/4	53 1/8	1210
	28-29-30	125 3/4	61 3/8	6 1/2	5 1/4	60 5/8	57 1/2	1390
	4-5-6	46 1/2	22 1/4	7 3/8	6 3/8	20 1/8	16 7/8	240
	7-8-9	58	28	7 3/8	6 3/8	25 7/8	22 5/8	360
	10-11-12	70 1/4	33 5/8	7 3/8	6 3/8	32	28 3/4	560
12"	13-14-15	84	39 7/8	7 3/8	6 3/8	38 7/8	35 5/8	690
	16-17-18	98	46 1/2	7 3/8	6 3/8	45 7/8	42 5/8	900
	19-20-21	112	51 7/8	7 3/8	6 3/8	50 1/4	47	1128
	22-23-24	119 7/8	58 3/8	7 3/8	6 3/8	56 7/8	53 5/8	1290
	25-26-27	137 3/8	66 1/8	7 3/8	6 3/8	65 3/4	62 3/8	1640
	28-29-30	148	67 1/4	7 3/8	6 3/8	70 7/8	67 5/8	1900
14"	4-5-6	55	25	8 3/4	7 1/4	24 1/8	20 1/8	380
	7-8-9	67 1/8	31	8 3/4	7 1/4	30 1/8	26 1/8	570
	10-11-12	83	39	8 3/4	7 1/4	38 1/8	34 1/8	770
	13-14-15	96 3/4	45 1/4	8 3/4	7 1/4	45	41	1070
	16-17-18	112	52	8 3/4	7 1/4	52	48	1330
	19-20-21	127 3/4	60 1/2	8 3/4	7 1/4	60 1/2	56 1/2	1640
16"	22-23-24	144 5/8	68 3/4	8 3/4	7 1/4	69	65	2040
	25-26-27	164 1/8	78 1/2	8 3/4	7 1/4	78 3/4	74 3/4	2540
	28-29-30	178	86 1/2	8 3/4	7 1/4	85 3/4	81 3/4	2950
	4-5-6	62 5/8	27	9 3/4	8 1/8	27 5/8	22 7/8	490
	7-8-9	76	34 1/2	9 3/4	8 1/8	34 3/8	29 5/8	730
	10-11-12	94	41 7/8	9 3/4	8 1/8	42 3/4	38	960
18"	13-14-15	111 3/8	50 3/4	9 3/4	8 1/8	52	47 1/4	1360
	16-17-18	125 3/8	57 3/4	9 3/4	8 1/8	59	54 5/16	1620
	19-20-21	147	68 5/8	9 3/4	8 1/8	69 13/16	65 1/8	2130
	4-5-6	70	29 7/8	10 1/4	8 7/8	29 3/4	25	610
	7-8-9	86	37 7/8	10 1/4	8 7/8	37 3/4	33	910
	10-11-12	106	47 7/8	10 1/4	8 7/8	47 3/4	43	1190
20"	13-14-15	123 1/2	54	10 1/4	8 7/8	54 7/8	50	1540
	16-17-18	143 1/2	65 5/8	10 1/4	8 7/8	66 1/2	61 3/4	1940
	4-5-6	78 3/4	33 1/4	11	9 3/4	33 1/2	28 3/8	720
	7-8-9	95 5/8	41 5/8	11	9 3/4	42	36 7/8	1090
	10-11-12	116 3/8	51	11	9 3/4	52 1/8	47 3/16	1420
	13-14-15	134 5/16	58 7/16	11	9 3/4	61 1/8	56 1/8	1840
24"	16-17-18	156 3/4	71 1/2	11	9 3/4	72 1/2	67 3/8	2420
	4-5-6	91 1/2	38 5/8	12 3/8	10 1/2	39 7/8	33 3/4	900
	7-8-9	111 5/8	48 1/4	12 3/8	10 1/2	49 7/8	43 3/4	1300
	10-11-12	127 1/2	55 3/4	12 3/8	10 1/2	57 7/8	51 3/4	1680
	4-5-6	106 9/16	42 1/4	14 3/16	12 1/16	45 3/8	38 1/4	1190
	7-8-9	133 1/8	55 1/2	14 3/16	12 1/16	58 11/16	51 9/16	1800
30"	10-11-12	151 3/4	64 7/8	14 3/16	12 1/16	68	60 7/8	2330
	4-5-6	129 3/4	50 11/16	18 1/8	14 3/4	56 11/16	46 7/8	1780
	7-8-9	162 1/4	69 15/16	18 1/8	14 3/4	72 15/16	63 1/8	2700
	10-11-12	185 1/8	78 3/8	18 1/8	14 3/4	84 3/8	74 9/16	3490



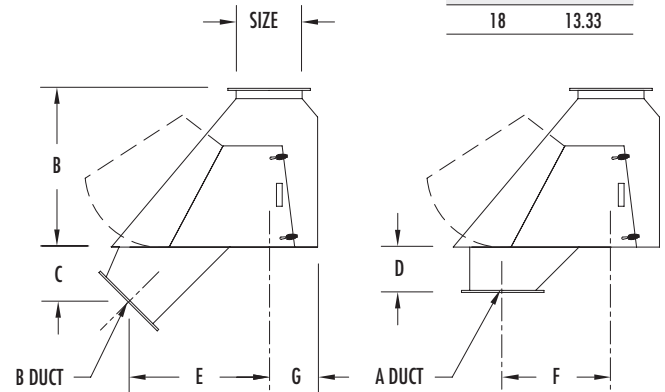
DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE

FLAT BACK / 45° SPOUT & OUTLET DUCTS - DIMENSIONS

SIZE	NO. DUCTS	A'	B'	C'	D'	E'	F'	G'
6"	3-4	33	17	6	4 3/4	14 3/4	12 1/8	11
	5-6	40	20 1/2	6	4 3/4	18 1/4	15 5/8	13 3/8
	7-8	47 1/2	24 1/4	6	4 3/4	22	19 3/8	15 1/2
	9-10	56	28 1/2	6	4 3/4	26 1/4	23 5/8	17 3/4
	11-12	67	33	6	4 3/4	31 3/4	29 1/8	20 5/16
	13-14	78	38 1/2	6	4 3/4	37 1/4	34 5/8	23
8"	3-4	38 1/4	19	6 1/2	5 1/4	16 7/8	13 3/4	11 7/8
	5-6	47 1/2	23 5/8	6 1/2	5 1/4	21 1/2	18 3/8	14 5/8
	7-8	59	28 1/4	6 1/2	5 1/4	27 1/4	24 1/8	17 3/8
	9-10	70 3/8	35	6 1/2	5 1/4	33	29 7/8	20 3/8
	11-12	83	40 3/8	6 1/2	5 1/4	39 1/4	36 1/8	22 1/2
	13-14	93	45	6 1/2	5 1/4	44 1/4	41 1/8	25 3/8
10"	15-16	105	51	6 1/2	5 1/4	50 1/4	47 1/8	27 3/4
	17-18	117	57	6 1/2	5 1/4	56 1/4	53 1/8	32 1/4
	3-4	46 1/2	22 1/4	7 3/8	6 3/8	20 1/8	16 7/8	13 1/8
	5-6	58	28	7 3/8	6 3/8	25 7/8	22 5/8	16 1/2
	7-8	70 1/4	33 5/8	7 3/8	6 3/8	32	28 3/4	19 3/4
	9-10	84	39 7/8	7 3/8	6 3/8	38 7/8	35 5/8	23 1/8
12"	11-12	98	46 1/2	7 3/8	6 3/8	45 7/8	42 5/8	26 5/8
	13-14	112	51 7/8	7 3/8	6 3/8	50 1/4	47	29 5/8
	15-16	119 7/8	58 3/8	7 3/8	6 3/8	56 7/8	53 5/8	32 5/8
	17-18	137 3/8	66 1/8	7 3/8	6 3/8	65 3/4	62 3/8	36 3/4
	3-4	55	25	8 3/4	7 1/4	24 1/8	20 1/8	14 1/8
	5-6	67 1/8	31	8 3/4	7 1/4	30 1/8	26 1/8	18
14"	7-8	83	39	8 3/4	7 1/4	38 1/8	34 1/8	22 1/8
	9-10	96 3/4	45 1/4	8 3/4	7 1/4	45	41	25 11/16
	11-12	112	52	8 3/4	7 1/4	51 3/8	46 3/4	29 5/8
	13-14	127 3/4	60 1/2	8 3/4	7 1/4	60 1/2	56 1/2	33 13/16
	15-16	144 5/8	68 3/4	8 3/4	7 1/4	69	65	37 15/16
	3-4	62 5/8	27	9 3/4	8 1/8	27 5/8	22 7/8	18 1/8
16"	5-6	76	34 1/2	9 3/4	8 1/8	34 3/8	29 5/8	22 1/2
	7-8	94	41 7/8	9 3/4	8 1/8	42 3/4	38	27 1/8
	9-10	111 3/8	50 3/4	9 3/4	8 1/8	52	47 1/4	31
	11-12	125 3/8	57 3/4	9 3/4	8 1/8	59	54 5/16	35 7/16
	3-4	70	29 7/8	10 1/4	8 7/8	29 3/4	25	19 1/8
	5-6	86	37 7/8	10 1/4	8 7/8	37 3/4	33	24 1/8
18"	7-8	106	47 7/8	10 1/4	8 7/8	47 3/4	43	29 3/8
	9-10	123 1/2	54	10 1/4	8 7/8	54 13/16	50 1/16	33 7/8
	3-4	78 3/4	33 1/4	11	9 3/4	33 1/2	28 3/8	20 1/8
	5-6	95 5/8	41 5/8	11	9 3/4	42	36 7/8	25 3/4
	7-8	116 3/8	51	11	9 3/4	52 1/8	47 3/16	31 1/4
	9-10	134 5/16	58 7/16	11	9 3/4	61 1/8	56 1/8	36 3/16
20"	3-4	91 1/2	38 5/8	12 3/8	10 1/2	39 7/8	33 3/4	21 1/8
	5-6	111 5/8	48 1/4	12 3/8	10 1/2	49 7/8	43 3/4	27 7/8
	7-8	127 1/2	55 3/4	12 3/8	10 1/2	57 7/8	51 3/4	33 3/8
24"	3-4	106 9/16	42 1/4	14 3/16	12 1/16	45 3/8	38 1/4	23 1/16
	5-6	133 1/8	55 1/2	14 3/16	12 1/16	58 11/16	51 9/16	31 1/4
30"	3-4	129 3/4	50 11/16	18 1/8	14 3/4	56 11/16	46 7/8	26 1/16
	5-6	162 1/4	69 15/16	18 1/8	14 3/4	72 15/16	63 1/8	36 1/16

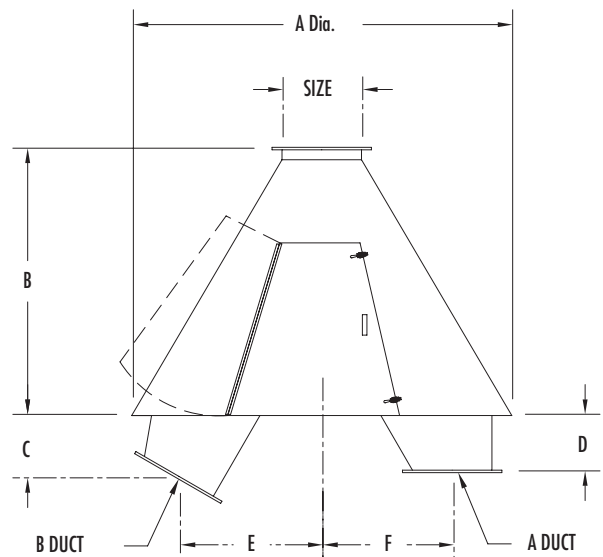


DEGREE OF SPACING BETWEEN DUCTS	
NO. DUCTS	DEGREES
3	72
4	60
5	45
6	40
7	32.73
8	30
9	25.71
10	24
11	21.18
12	20
13	18
14	17.14
15	15.65
16	15
18	13.33



FULL ROUND / 60° SPOUT & OUTLET DUCTS - DIMENSIONS

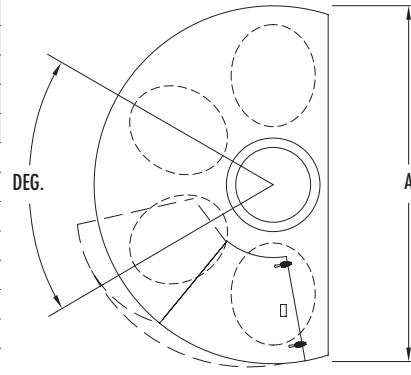
SIZE	NO. DUCTS	A'	B'	C'	D'	E'	F'	WEIGHT
6"	4-5-6	33	23 3/8	6 1/4	5	12 7/8	11 3/8	150
	7-8-9	40	30 1/4	6 1/4	5	16 3/8	14 7/8	220
	10-11-12	47 1/2	35 1/4	6 1/4	5	20 1/8	18 5/8	290
	13-14-15	56	42 5/8	6 1/4	5	24 3/8	22 7/8	380
	16-17-18	67	52 3/4	6 1/4	5	29 7/8	28 7/16	520
	19-20-21	78	61 7/8	6 1/4	5	35 3/8	33 7/8	680
8"	4-5-6	38 1/4	26 3/4	6 1/8	5 1/2	14 3/8	13 1/8	210
	7-8-9	47 1/2	34 3/4	6 1/8	5 1/2	18 7/8	17 5/8	310
	10-11-12	59	44 5/8	6 1/8	5 1/2	24 5/8	23 3/8	410
	13-14-15	70 3/8	54 5/8	6 1/8	5 1/2	30 3/8	29 1/8	560
	16-17-18	83	64 5/8	6 1/8	5 1/2	36 5/8	35 3/8	750
	19-20-21	93	72 1/4	6 1/8	5 1/2	41 3/4	40 1/2	930
10"	22-23-24	105	83 3/8	6 1/8	5 1/2	47 3/4	46 1/2	1150
	25-26-27	117	94	6 1/8	5 1/2	53 5/8	52 3/8	1190
	28-29-30	125 3/4	97 3/4	6 1/8	5 1/2	58	56 3/4	1600
	4-5-6	46 1/2	31 1/4	6 3/4	6	16 7/8	15 3/8	290
	7-8-9	58	41 1/8	6 3/4	6	22 5/8	21 1/8	430
	10-11-12	70 1/4	51 3/4	6 3/4	6	28 3/4	27 1/4	570
12"	13-14-15	84	62 1/4	6 3/4	6	35 5/8	34 1/8	770
	16-17-18	98	74 1/4	6 3/4	6	42 11/16	41	1020
	19-20-21	112	83 3/8	6 3/4	6	47 5/8	46 1/8	1300
	22-23-24	119 7/8	93 7/8	6 3/4	6	53 1/2	52	1480
	25-26-27	137 3/8	108 3/8	6 3/4	6	62 5/16	60 13/16	1900
	28-29-30	148	110 7/16	6 3/4	6	67 5/8	66 1/8	2160
14"	4-5-6	55	36 3/8	7 5/8	6 3/4	20 3/8	18 5/8	430
	7-8-9	67 1/8	46 7/8	7 5/8	6 3/4	26 1/2	24 3/4	640
	10-11-12	83	60 5/8	7 5/8	6 3/4	34 3/8	32 5/8	840
	13-14-15	96 3/4	71 1/2	7 5/8	6 3/4	41 1/4	39 1/2	1190
	16-17-18	112	85 1/8	7 5/8	6 3/4	48 7/8	47 1/8	1480
	19-20-21	127 3/4	98 3/4	7 5/8	6 3/4	56 3/4	55	1840
16"	22-23-24	144 5/8	113 3/8	7 5/8	6 3/4	65 1/4	63 1/2	2300
	25-26-27	164 1/8	130 3/4	7 5/8	6 3/4	75	73 1/4	2880
	28-29-30	178	142 1/4	7 5/8	6 3/4	81 7/8	80 1/8	3350
	4-5-6	62 5/8	40 7/8	8 1/8	7 1/8	22 3/4	20 7/8	550
	7-8-9	76	50 7/8	8 1/8	7 1/8	29 1/2	27 5/8	820
	10-11-12	94	66 1/2	8 1/8	7 1/8	38 1/2	36 5/8	1080
18"	13-14-15	111 3/8	81 1/8	8 1/8	7 1/8	47 1/8	45 1/4	1510
	16-17-18	125 3/8	93 5/8	8 1/8	7 1/8	54 1/8	52 5/16	1800
	19-20-21	147	112 3/8	8 1/8	7 1/8	65	63 1/8	2380
	4-5-6	70	43 1/2	8 5/8	7 5/8	25 1/2	23 3/8	680
	7-8-9	86	57 3/8	8 5/8	7 5/8	33 1/2	31 3/8	1020
	10-11-12	106	74 5/8	8 5/8	7 5/8	43 1/2	41 3/8	1330
20"	13-14-15	123 1/2	89 7/8	8 5/8	7 5/8	52 7/8	50 3/4	1750
	16-17-18	143 1/2	107 1/4	8 5/8	7 5/8	62 1/4	60 1/8	2290
	4-5-6	78 3/4	49	9 1/4	8 1/4	28 3/4	26 1/2	810
	7-8-9	95 5/8	63 1/2	9 1/4	8 1/4	37 1/4	35	1220
	10-11-12	116 3/8	81 1/2	9 1/4	8 1/4	47 9/16	45 5/16	1590
	13-14-15	134 5/16	97 1/16	9 1/4	8 1/4	56 9/16	54 5/16	2060
24"	16-17-18	156 3/4	116 1/2	9 1/4	8 1/4	67 3/4	65 1/2	2700
	4-5-6	91 1/2	57 3/4	10 1/4	8 7/8	34 1/2	31 5/8	980
	7-8-9	111 5/8	75 1/4	10 1/4	8 7/8	44 3/8	41 3/4	1460
	10-11-12	127 1/2	89	10 1/4	8 7/8	52 1/2	49 5/8	1880
	4-5-6	106 9/16	66 7/16	12 1/4	9 1/2	40 1/8	36 5/8	1330
	7-8-9	133 1/8	89 7/16	12 1/4	9 1/2	53 7/16	49 15/16	2020
30"	10-11-12	151 3/4	105 9/16	12 1/4	9 1/2	62 13/16	59 1/4	2610
	4-5-6	129 3/4	79 7/8	16 1/8	11 1/4	49 5/8	44 3/8	1990
	7-8-9	162 1/4	108 1/8	16 1/8	11 1/4	65 7/8	60 5/8	3020
	10-11-12	185 1/8	127 7/8	16 1/8	11 1/4	77 5/16	72 1/16	3910



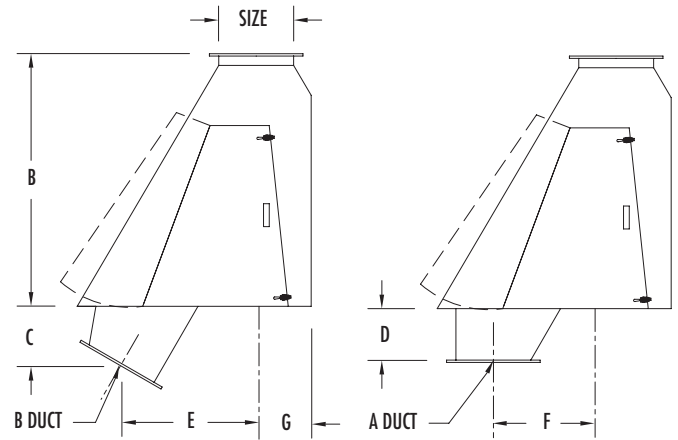
DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE

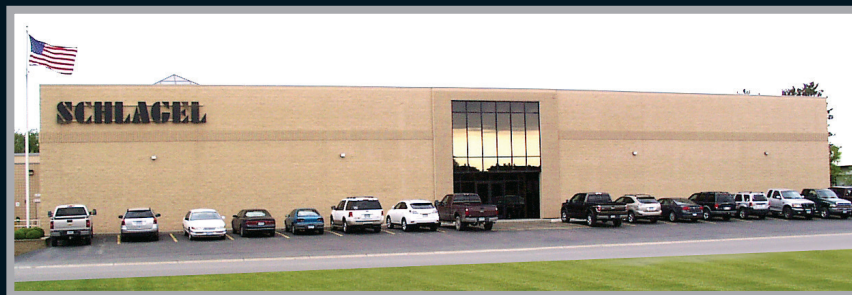
FLAT BACK / 60° SPOUT & OUTLET DUCTS - DIMENSIONS

SIZE	NO. DUCTS	A'	B'	C'	D'	E'	F'	G'
6"	3-4	33	23 7/8	6 1/4	5	12 7/8	11 3/8	11
	5-6	40	30 1/4	6 1/4	5	16 3/8	14 7/8	13 3/8
	7-8	47 1/2	35 1/4	6 1/4	5	20 1/8	18 5/8	15 1/2
	9-10	56	42 5/8	6 1/4	5	24 3/8	22 7/8	17 3/4
	11-12	67	52 3/4	6 1/4	5	29 7/8	28 7/16	20 5/16
8"	3-4	38 1/4	26 3/4	6 1/8	5 1/2	14 3/8	13 1/8	11 7/8
	5-6	47 1/2	34 3/4	6 1/8	5 1/2	18 7/8	17 5/8	14 5/8
	7-8	59	44 5/8	6 1/8	5 1/2	24 5/8	23 3/8	17 3/8
	9-10	70 3/8	54 5/8	6 1/8	5 1/2	30 3/8	29 1/8	20 3/8
	11-12	83	64 5/8	6 1/8	5 1/2	36 5/8	35 3/8	22 1/2
10"	3-4	46 1/2	31 1/4	6 3/4	6	16 7/8	15 3/8	13 1/8
	5-6	58	41 1/8	6 3/4	6	22 5/8	21 1/8	16 1/2
	7-8	70 1/4	51 3/4	6 3/4	6	28 3/4	27 1/4	19 3/4
	9-10	84	62 1/4	6 3/4	6	35 5/8	34 1/8	23 1/8
	11-12	98	74 1/4	6 3/4	6	42 11/16	41	26 5/8
12"	3-4	55	36 3/8	7 5/8	6 3/4	20 3/8	18 5/8	14 1/8
	5-6	67 1/8	46 7/8	7 5/8	6 3/4	26 1/2	24 3/4	18
	7-8	83	60 5/8	7 5/8	6 3/4	34 3/8	32 5/8	22 1/8
	9-10	96 3/4	71 1/2	7 5/8	6 3/4	41 1/4	39 1/2	25 11/16
	11-12	112	85 1/8	7 5/8	6 3/4	48 7/8	47 1/8	29 5/8
14"	3-4	62 5/8	40 7/8	8 1/8	7 1/8	22 3/4	20 7/8	18 1/8
	5-6	76	50 7/8	8 1/8	7 1/8	29 1/2	27 5/8	22 1/2
	7-8	94	66 1/2	8 1/8	7 1/8	38 1/2	36 5/8	27 1/8
	9-10	111 3/8	81 1/2	8 1/8	7 1/8	47 1/8	45 1/4	31 3/8
	11-12	144 5/8	93 5/8	8 1/8	7 1/8	54 1/8	52 5/16	35 7/16
16"	3-4	70	43 1/2	8 5/8	7 5/8	25 1/2	23 3/8	19 1/8
	5-6	86	57 3/8	8 5/8	7 5/8	33 1/2	31 3/8	24 1/8
	7-8	106	74 5/8	8 5/8	7 5/8	43 1/2	41 3/8	29 3/8
	9-10	123 1/2	89 7/8	8 5/8	7 5/8	52 7/8	50 3/4	33 7/8
	11-12	151 1/2	108 1/2	8 5/8	7 5/8	62 1/2	60 1/2	42 1/2
18"	3-4	78 3/4	49	9 1/4	8 1/4	28 3/4	26 1/2	20 1/8
	5-6	95 5/8	63 1/2	9 1/4	8 1/4	37 1/4	35	25 3/4
	7-8	116 3/8	81 1/2	9 1/4	8 1/4	47 9/16	45 5/16	31 1/4
	9-10	134 5/16	97 1/16	9 1/4	8 1/4	56 9/16	54 5/16	36 3/16
	11-12	162 1/4	117 1/4	9 1/4	8 1/4	66 1/4	64 1/4	42 1/4
20"	3-4	91 1/2	57 3/4	10 1/4	8 7/8	34 1/2	31 5/8	21 1/8
	5-6	111 5/8	75 1/4	10 1/4	8 7/8	44 3/8	41 3/4	27 7/8
	7-8	127 1/2	89	10 1/4	8 7/8	52 1/2	49 5/8	33 3/8
	9-10	145 1/2	103 1/2	10 1/4	8 7/8	60 1/2	57 1/2	39 1/2
	11-12	173 1/2	121 1/2	10 1/4	8 7/8	68 1/2	65 1/2	45 1/2
24"	3-4	106 9/16	66 7/16	12 1/4	9 1/2	40 1/8	36 5/8	23 1/16
	5-6	133 1/8	89 7/16	12 1/4	9 1/2	53 7/16	49 15/16	31 1/4
	7-8	151 1/2	103 1/2	12 1/4	9 1/2	60 1/2	57 1/2	39 1/2
	9-10	173 1/2	121 1/2	12 1/4	9 1/2	68 1/2	65 1/2	45 1/2
	11-12	201 1/2	141 1/2	12 1/4	9 1/2	76 1/2	73 1/2	51 1/2
30"	3-4	129 3/4	79 7/8	16 1/8	11 1/4	49 5/8	44 3/8	26 1/16
	5-6	162 1/4	108 1/8	16 1/8	11 1/4	65 7/8	60 5/8	36 1/16
	7-8	195 1/4	137 1/4	16 1/8	11 1/4	79 1/4	73 1/4	43 1/4
	9-10	228 1/4	156 1/4	16 1/8	11 1/4	92 1/4	86 1/4	50 1/4
	11-12	261 1/4	185 1/4	16 1/8	11 1/4	105 1/4	99 1/4	57 1/4



DEGREE OF SPACING BETWEEN DUCTS	
NO. DUCTS	DEGREES
3	72
4	60
5	45
6	40
7	32.73
8	30
9	25.71
10	24
11	21.18
12	20
13	18
14	17.14
15	15.65
16	15
18	13.33





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