



SWINE SOLUTIONS

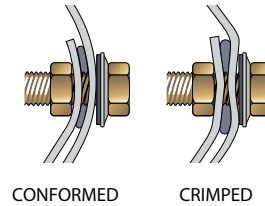
PROVEN, DEPENDABLE & PROFESSIONAL



BULK FEED TANK

AP's Bulk Feed Tanks perfectly illustrate the attention to detail that quality demands. Every stage of the forming process, from corrugation to die-cut shaping to precision finishing, is controlled at our own facilities to assure quality is maintained.

The upper eave, where the hopper is joined to the sidewall, is specially die-formed to conform to the shape of the sidewall corrugation. Most other manufacturers depend on crimping and bolt pressure to force the connection which produces corrosion-prone distortion and dimpling of the sidewall.



HOPPER SLOPES

Assembly with rounded, truss-head bolts reduces content bridging.



STURDY SIDE LADDERS

A unique, non-interfering safety rail and fully die-formed, sectional ladder comfortable access. provide solid, sideladder provide solid.



HOPPER COLLAR

The hopper collar is a critical component of the Bulk Feed Tank. 30% stronger than the industry standard 14 gauge collar.



ADDED SECURITY

Ladder rungs are dimpled for better footing in inclement weather. Additional security when ascending or descending the tank.



EASY GROUND CONTROL

AP's feed tank bin lid is easily opened and closed from the ground using a simple pull chain system.



REINFORCED BELTING

Reinforced rubber bumper provides protection to peak ring.



SECURE DESIGN

An internal magnet adds additional holding power to keep the lid closed.



OPTIONAL SNOW GUARD

Optional Snow Guard helps deter blowing snow from entering the tank.

Roof panels are precision manufactured using die-form tooling to provide consistent quality. Both 30° and 40° roofs feature reinforcing ribs at each roof seam for added strength and rigidity.



BOOTS & UNLOADERS



AP offers several boot styles including straight drop, 30°, and double boot models. All are chemically blended with specially formulated ultraviolet inhibitors and impact modifiers to enhance durability and resilience. AP's translucent boot models provide an easy visual of bin feed levels. In addition, AP unloaders are available for 2.2" (55mm), 3" (75mm), 3.5" (90mm) and 5" (125mm) Flex Flo™ or 4" and 6" rigid auger systems.



Straight Drop Boot



30° Drop Boot

SMART MONITORING IN REAL-TIME

Monitor feed usage, track feed levels, and receive automatic notifications from the EDGE Bin Scale system. Its cloud-based architecture allows remote connections via any web-enabled device, giving you the ability to analyze data in real-time and respond quickly to any issue.



LOAD CELL ASSEMBLY

The rugged load cell assemblies are specifically designed for the harsh environment of a hog facility and adapt easily to most feed bins utilizing the existing anchor bolts. Two models of load cells are available; a standard unit for up to 5,000 lbs. (2,250 kg.) per bin leg and a high-capacity model rated at up to 10,000 lbs. (4,500 kg.) per bin leg. The compact design of the load cell assemblies increases the overall height of the feed bin only by approximately three inches (eight centimeters).

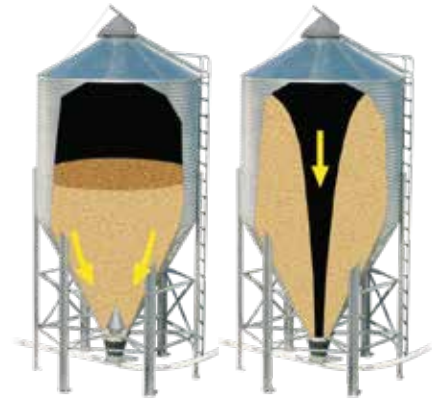


Patent No. 8800491

BULK FEED TANK

GO WITH THE SURE-FLO

An available option for 16" to 22" hoppers, Sure-Flo directs feed down the hopper of the bin rather than down the center creating a first in, first out feed flow. The gentle movement of the heavy-duty molded cone enhances flow as feed passes over it. The Sure-Flo support bracket easily bolts to the hopper collar of new or existing feed bins.



Without Sure-Flo



FLOW HAMMER

Feed bridging is more common as feed rations change due to fluctuating input costs and the use of alternative feed stuffs to lower cost and gain feed efficiency. The Flow Hammer is a reliable and affordable solution that easily adapts to most existing feed bins. This patent pending product aids in the prevention of out-of-feed events in all phases of swine production.



The Flow Hammer's low frequency / high impact design promotes feed flow without damaging your feed bin or voiding its warranty.

Improve your efficiency with AP's selection of dependable feed storage, feed management and feed delivery systems.



VIEW WINDOWS

Save yourself a trip up and down the feed tank ladder with AP's optional view windows in either a sidewall or hopper panel mount. Feed levels inside the tank can be quickly and easily monitored at a glance.



RIGID AUGERS

Rigid 4", 6", and 8" augers are available to meet your specific capacity requirements. AP 8" and larger rigid augers are equipped with exclusive Dura-Edge™ flighting that 30% longer than lasts regular flighting.



FLEX-FLO™ DELIVERY

AP's Flex-Flo™ feed delivery system adapts to a variety of configurations and capacities to meet your particular feed delivery requirements.



FACTORY FORMED FILL KITS AVAILABLE

Exclusive pre-punched, extruded lip roof panels for the optional pneumatic fill-kit eliminate the inconvenience of field-cutting fill and exhaust tube openings, and ensuring moisture-proof seals.

Bulk Feed Tank Models:

DIMENSIONS & SPECIFICATIONS

Part Number					Maximum Capacity			Overall Height	
	Model	Diameter Feet	Diameter Meters	Ring	Angle of Hopper	Cubic Feet	Cubic Meters	Metric Tons	Feet
BFT 6	6	1.83	1	60°	147.60	44.98	2.67	11.3"	3.43
BFT 6	6	1.83	2	60°	222.21	67.73	4.03	13'11"	4.25
BFT 6	6	1.83	3	60°	296.82	90.47	5.38	16'7"	5.06
BFT 6	6	1.83	4	60°	371.43	113.21	6.74	19'3"	5.87
BFT 7	7	2.13	1	67°	244.96	74.67	4.44	14'3"	4.35
BFT 7	7	2.13	2	67°	346.51	105.62	6.29	16'11"	5.16
BFT 7	7	2.13	3	67°	448.06	136.57	8.13	19'7"	5.97
BFT 7	7	2.13	4	67°	549.61	167.52	9.97	22'3"	6.78
BFT 7	7	2.13	5	67°	651.16	198.47	11.82	24'11"	7.60
BFT 7	7	2.13	6	67°	752.71	229.43	13.66	27'7"	8.41
BFT 9	9	2.74	1	60°	413.81	126.13	7.51	15'1"	4.59
BFT 9	9	2.74	2	60°	581.68	177.30	10.56	17'9"	5.41
BFT 9	9	2.74	3	60°	749.55	288.46	13.60	20'5"	6.24
BFT 9	9	2.74	4	60°	917.42	279.63	16.65	23'1"	6.74
BFT 9	9	2.74	5	60°	1085.28	330.79	19.70	25'9"	7.85
BFT 9	9	2.74	6	60°	1253.15	381.96	22.75	28'5"	8.66
BFT 12	12	3.66	2	60°	1177.87	359.01	21.38	21'11"	6.67
BFT 12	12	3.66	3	60°	1476.30	449.98	26.80	24'7"	7.49
BFT 12	12	3.66	4	60°	1774.73	540.94	32.22	27'3"	8.30
BFT 12	12	3.66	5	60°	2073.17	631.90	37.64	29'11"	9.11
BFT 12	12	3.66	6	60°	2371.60	722.86	43.05	32'7"	9.93
BFT 15	15	4.57	2	60°	2064.39	629.23	37.48	25'10"	7.87
BFT 15	15	4.57	3	60°	2530.69	771.35	45.94	28'6"	8.68
BFT 15	15	4.57	4	60°	2996.99	913.48	54.41	31'2"	9.50
BFT 15	15	4.57	5	60°	3463.29	1055.61	62.84	33'10"	10.31

FLEX-FLO FEED DELIVERY

AP's Flex-Flo™ feed delivery system adapts to a variety of configurations and capacities to meet today's demanding production requirements. Both tubing and augers are available in a variety of models to fit your specific requirements. Whether its ground feed, mash, high moisture corn, shelled corn or pellets, AP offers many flexible options for reliable feed delivery.



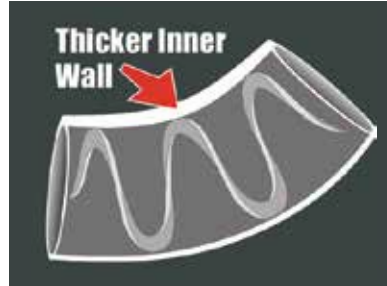
DURABLE PVC TUBING

AP's polyvinyl chloride (PVC) tubing is extruded in our own facility to exacting standards and under our own quality control. Blended PVC allows us to formulate the optimum compound for UV stabilization, strength, and wear resistance.



DEPENDABLE AUGER

AP augers are coiled in-house from high tensile steel for consistent quality and strength. AP uses wire which is flattened prior to hardening which provides better resistance to distortion and an all around stronger product.



ADDED ELBOW STRENGTH

For moving feed up and around corners, AP Flex-Flo™ elbows are specially formed with increased wall thickness on the inside of the elbow for added strength and wear resistance.



QUALITY UNLOADERS



Heavy-duty ball bearing anchor & bearing assemblies increase service life and reduce maintenance. All unloaders have a slide gate above the auger to shut feed off and a side inspection door. AP unloaders are available for 2.2" (55mm), 3" (75mm), 3.5" (90mm) and 5" (125mm) Flex Flo or 4" and 6" rigid auger systems.

HEAVY-DUTY METAL BOOTS



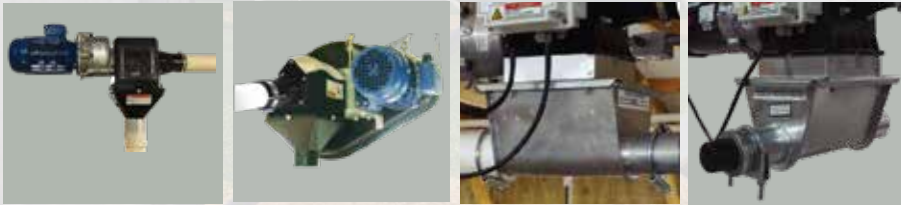
Multiple outlet requirements can be easily handled by our 22" (559mm) all metal boot. This boot, which can be fitted to any AP feed bin, will allow installation of up to four feed lines in several directions at once.

Flex-Flo™ Specifications

	Model 220	Model 300	Model 300P	Model 350	Model HR	Model 500
Feed Delivery Rate Per Minute	15lbs (6.8kg)	50lbs (22.7kg)	50lbs (22.7kg)	100lbs (45.4kg)	50lbs (22.7kg)	220lbs (99.8kg)
Std. Power Unit RPM	358	358	358	358	358	358
Outside Tube Dia	2.2"(56mm)	2.95"(75mm)	2.95"(75mm)	3.5"(89mm)	3.5"(89mm)	5"(127mm)
Corner Radius	5'(1.5m) or 10'(3m)	5'(1.5m)	5'(1.5m)	5'(1.5m)	5'(1.5m)	5'(1.5m)
Max Length from BFT	250'(76m)	200'(61m)	200'(61m)	150'(46m)	150'(46m)	150'(46m)***
Max. Length Ext.**	300'(91m)	240'(73m)	240'(73m)	180'(55m)	180'(55m)	180'(55m)
Recommended Motor HP at Max Length	1/2HP	1HP	1HP	1HP	1HP	1.5HP
Max Moisture Rate	18%	18%	18%	18%	27%	27%
Type of Feeds	Ground Mash, Small Particle	Ground Mash, Small Particle	Ground Mash, Small Particle, Pellets	Ground Mash, Shelled Corn, Pellets	Ground Mash, Large Particle, Pellets	Ground Mash, Large Particle, Pellets
Max Particle Size	1/8"D x 1/2"L	1/8"D x 1/2"L	1/8"D x 1/2"L	3/16"D x 1/2"L	3/8"D x 3/4"L	3/8"D x 1"L

FLEX-FLO FEED DELIVERY

AP's selection of power units and extension hoppers adds powerful performance and added dexibility to the Flex-Flo feed delivery system.



Direct Drive Unit

Belt Drive Unit

POWER UNITS

The Flex-Flo™ auger is driven by a 1/3 to 1-1/2 h enclosed, fan cooled motor at a standard 358 RPM (other speeds available for special applications). Whether direct or belt driven, the drive system includes an easily accessible maintenance port, a safety back up switch and visible light warning of back ups in the feed line, and automatic thermal shut-off switch.

EXTENSION HOPPERS

Extend the ovehoppers can be installed at 90° fmaor applications ke turns and extend Flex-Flo Augers without using elbows.rall length of the Flex-Flo system. Extension requiring distances over the maximum to rom the original auger to

Easy to install and maintain, AP drop kits are a secure and efficient solution.

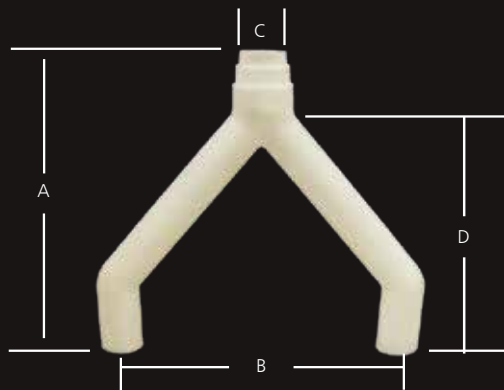
DROP TUBE KITS

AP's original drop kit is available for all Flex-Flo Systems providing a to tally enclosed outlet drop.



KWIK-ATTACH DROP KIT

The Kwik-Attach drop kit is easy to install and attaches securely to avoid feed spills. This kit allows for complete clean out of feed and can be adapted with actuator for remote operations



Y-Drop Dimensions

	"A"	"B"	"C"	"D"
FLX-0502	26" (66 cm)	16.58" (42.11 cm)	3.25" (8.26 cm)*	20.62" (52.37 cm)
FLX-0503	26" (66 cm)	21.58" (54.81 cm)	3.25" (8.26 cm)*	20.79" (52.81 cm)
FLX-0603	26" (66 cm)	26.58" (67.51 cm)	3.25" (8.26 cm)*	20.79" (52.81 cm)

*Includes a stepped inlet that can be cut to a 3" (7.62cm) to 4.25" (10.8cm) at outlet drop
Specifications subject to change without notice.

FLEX-FLO™ CONTROL UNITS

- Dependable feed delivery systems control
- Utilizes proprietary sensing technology
- Fixed 30 second motor delay for electronic safety switch
- Operating status indicated via Bi-Color LED
- Controls single phase or three phase motors
- Auger relay (Max 25 Amp load) rated for 1-1/2 HP Flex-Flo motors
- Improved wiring connections with only one wire per terminal
- Additional contactor included for feed monitoring
- 240 volt, 50 Hz or 60Hz



Clear access door for quick and easy visual inspection.



Tube Anchors are available for Flex-Flo™ 220, 300, 350 and 500 models





FORM AND FUNCTION

AP's PVC planking can be easily adapted for a variety of uses including actuated ventilation applications.



BUILDING MATERIAL

Versatile and cost effective PVC plank can be adapted to replace conventional building materials in many livestock confinement applications. PVC is corrosion free and power wash friendly for easy maintenance.



CONFINEMENT FENCE

From farrow to finishing, AP's PVC planking is available in formats for all confinement applications: penning, gating, and inner divider walls. PVC fencing is available for animals from 30 to 120 lbs.

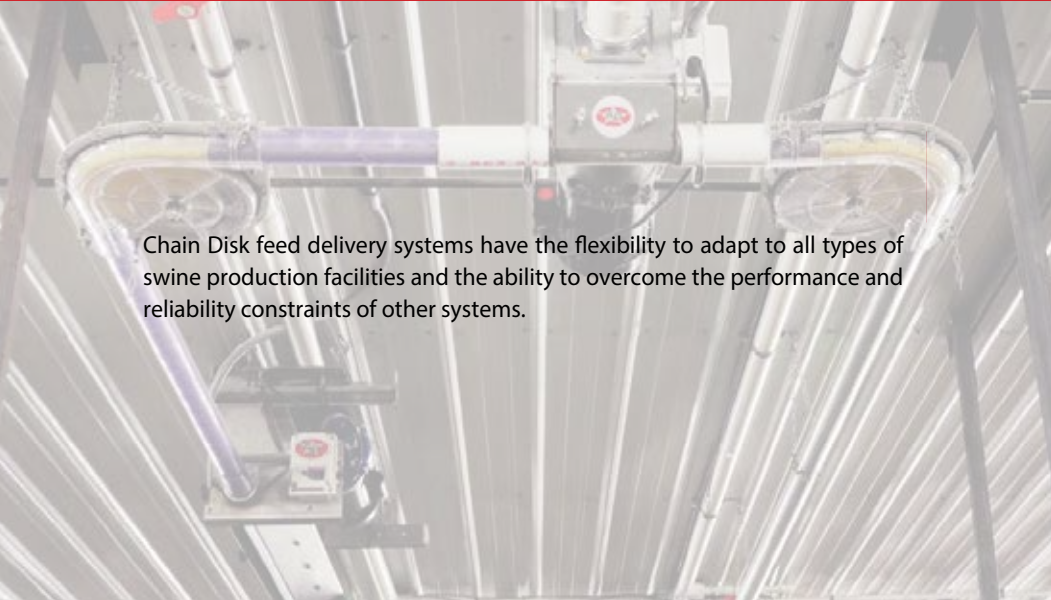


ACTUATED VENTILATION APPLICATIONS

PVC is lightweight and weather resistant making it an excellent material for actuated ventilation and insulation applications.

Plank Type	Width	Height	Standard Lengths	Bundle Quantity	Bundle Width	Bundle Height
Creep Plank	.875" (2.22cm)	20" (50.8cm)	21'	48	45" (114.3cm)	23.5" (59.69cm)
Nursery Plank	1.5" (3.81cm)	30" (76.2cm)	20' & 24'	28	45" (114.3cm)	33" (83.82cm)
T&G Finish Plank	2" (5.08cm)	8" (20.32cm)	20' & 24'	60	45" (114.3cm)	29" (73.66cm)
Finish Plank	2" (5.08cm)	38" (96.52cm)	20' & 24'	21	45" (114.3cm)	41" (104.14cm)
Wall Plank	1.75" (4.52cm)	31.5" (80.01cm)	21' & 24'	24	45" (114.3cm)	36" (91.44cm)

CHAIN DISK FEED DELIVERY



Chain Disk feed delivery systems have the flexibility to adapt to all types of swine production facilities and the ability to overcome the performance and reliability constraints of other systems.



dependable
automated operation



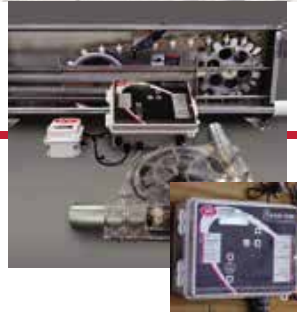
FLEXIBLE DESIGN

Chain Disk is ideally suited to delivering feed to multiple farrowing rooms, individual sow stalls, electronic sow feed systems and the high volume demands of large finishing facilities.



GENTLE ON FEED

The gentle conveying method limits damage to expensive pelleted rations and prevents particle separation in ground feed rations.



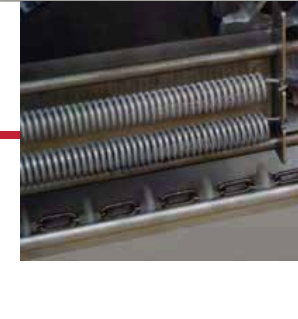
QUALITY COMPONENTS

Chain Disk's rugged design, quality components and unique control system enable it to outperform the competition in capacity, distance and durability.



HEAVY-DUTY DRIVE UNITS

Chain Disk drive units are constructed of corrosion resistant 304 stainless steel and feature heavy duty, high efficiency, helical bevel gearboxes. High efficiency means more torque with less horsepower decreasing operating cost without sacrificing performance.



AUTO TENSIONING

Chain Disk drive units feature an automatic chain tensioning system to reduce maintenance and a safety shut off switch to shut down the system if it becomes plugged by a foreign object.



CLEAR CORNER HOUSINGS

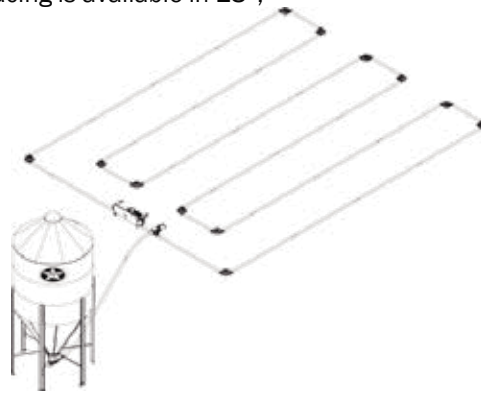
Clear corner housings provide visual confirmation the system is operating properly at all times. The patent pending pivoting wiper insures that feed does not accumulate in the center of the corner housing. Special corner units are available for inclined or vertical installation.

CHAIN DISK FEED DELIVERY

CHAIN DISK TUBING

Chain Disk is available with three styles of conveyor tubes to meet the requirements of every application.

- **PVC Tube** – Corrosion free and quick and easy to install, ideal for farrowing and other low volume applications
- **Welded Steel Tube** – Ideal for high volume applications like finishing and electronic sow feeding
- **Welded Steel Tube w/ Pre-Cut Holes** – High volume performance with the added convenience of pre-cut holes to reduce installation time. Hole spacing is available in 18”, 19”, 20”, 22”, 23” and 24”



AP's Flex-Flo™ flexible auger feed delivery system delivers a continuously metered flow of feed from the bin to the Chain Disk system.

Chain Disk Tube	Fill System	Daily Run Time	Effective Capacity*	Max. System Length** (w/ 8 corners)
PVC Tube	M300 Flex-Flo 250 RPM	Up to 100 min/day	Up to 35 lbs (16 kg)/min.	1,500 ft. (460 m)
Welded Steel Tube	M300 Flex-Flo 250 RPM	Up to 240 min/day	Up to 35 lbs (16 kg)/min.	1,800 ft. (550 m)
	M300 Flex-Flo 358 RPM	Up to 240 min/day	Up to 50 lbs (23 kg)/min.	1,800 ft. (550 m)

* Effective capacity will decrease as system length increases, effective capacity at maximum length is reduced by approximately 40%

** Maximum system length will decrease by 25 ft. (8 M) for each additional corner that is added. Up to twenty-four corners can be used.



TUBE SENSOR

A tube mounted sensor will shut down the system when feed returns to the inlet hopper indicating that all feeders have been filled. Chain Disk's sensor design eliminates the challenges caused by empty farrowing or nursery rooms and eliminates the task of correctly position gestation facilities to keep the feed sows in your breeding and system operating correctly.



QUALITY CHAIN

Durable, low friction nylon disks injection molded onto hardened steel chain provide years of trouble free service eliminating the maintenance and down time associated with

CHAIN DISK CONTROLLER



The Chain Disk Controller enables the feeding system to be programmed to operate how and when you want and constantly monitors the system to insure proper operation. Drive unit motor current is constantly monitored to insure that the system is not over loaded. When amp draw spikes, the Flex-Flo fill system is temporarily shut down by the controller until the drive unit motor amp draw decreases and normal operation resumes. A programmable maximum run timer will shut down the Chain Disk and the Flex-Flo systems if the system uncontinuously for an excessive amount of time indicating that a bin is empty or a costly feed spill is occurring.

STAINLESS STEEL FEEDERS

More Feeders, More Options

From nursery to finish, AP offers many feeders and options to support the ever-growing needs of modern pork production facilities.

FINISHING & WEAN-TO-FINISH FEEDERS

AP finishing and wean-to-finish feeders are available with features and options designed to meet the specifications and expectations of modern pork production systems. Manufactured using corrosion resistant 304 stainless steel and welded construction, these feeders are engineered for durability, ease of cleaning, simple management and superior feed conversion performance.



Finishing



Wean-to-Finish

NURSERY FEEDERS

AP Nursery Feeders are ideal for introducing weaned pigs to dry feed. These feeders feature welded construction, corrosion resistant 304 stainless steel, hemmed edges and AP's patented Quick Adjust feeder adjustment system for quick, easy and precise control of feed gate adjustment.



Nursery



PIG STOP DIVIDERS

Standard on all AP nursery prevent pigs from becoming lodged in the feeder

OPTIONAL DROP TUBE HOLDER

Can be added to secure the fill system tube



Patent No. 8800491



Easy Does It

Keeping it simple and convenient for the user and the animal has advantages in cost savings and reduced stress. From easy feed gate adjustments to easy access designs, AP feeders are an easy choice.

QUICK-ADJUST SYSTEM

AP's patented* Quick-Adjust indexed feeder adjustment system requires only two adjusters per feeder, providing quick, accurate and consistent control of feed gate settings. Quick-Adjust feeders can be easily adjusted from the aisle of your finisher or nursery in half the time of competitor feeders. The indexed settings are permanently laser etched in the feeder and provide for precision feed gate adjustments of 0.075" (0.2 cm) with all types of feed.

CRANK ADJUST SYSTEM

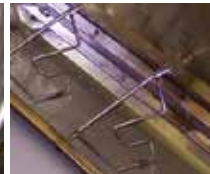
The crank adjustment allows for quick and hassle-free feed gate positioning at all phases of growth. Threaded adjustment provides increments of change as fine as 1/32" per revolution. For single-sided feeders, there are two adjusters per feed gate or four adjusters for double-sided feeders.

TROUGH DIVIDER OPTIONS

Select from three options of trough dividers designed for finish or wean-to-finish applications. Wide spaced divider rods provide comfortable access for larger hogs. The "W" design prevents small pigs from becoming lodged in the feeder. The solid panel design reduces aggression for uninterrupted feeding



Wide-Spaced
Divider Rods



"W" Design



Solid Panel Design

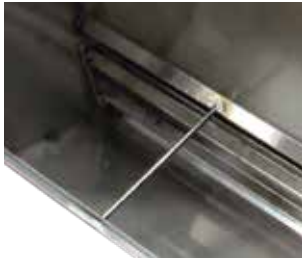
STAINLESS STEEL FEEDERS

When it comes to value, AP is committed to bringing you the very best in product craftsmanship, reliability and industry best performance



FEED SAVER LIP

AP's feed trough lip reduces feed waste and is designed for added strength and easy cleaning.



DURABLE MATERIAL

AP feeders feature corrosion resistant 304 stainless steel and welded construction for lasting durability.



HEMMED EDGES

All exposed edges on the feeders are hemmed for additional safety and strength.



DROP TUBE HOLDER

Finishing & Wean-to-Finish feeders feature convenient, welded in drop tube holders to secure the feed delivery tube and provide additional feeder strength.



THRU-ROD DESIGN FOR ADDED STRENGTH

AP feeders with rod style dividers feature AP's thru-rod design. This design utilizes stainless steel divider rods that pass through the feeder for unparalleled strength and rigidity.

Finishing Feeders

40 to 300LB.PIGS

PART NUMBER	STYLE	LENGTH	HEIGHT	WIDTH	THROUGH SPACE	THROUGH SPACE WIDTH	THROUGH HEIGHT	TUBE BRACKET	APPROX CAP.
AP-DF*403-R	Double Sided Finisher Feeder	40.125"	36.25"	25.25"	Three	13.33"	4.5"	One	370 lbs
AP-DF*504-R		50.125"	36.25"	25.25"	Four	12.50"	4.5"	One	460 lbs
AP-DF*605-R		60.125"	36.25"	25.25"	Five	12.00"	4.5"	Two	550 lbs
AP-DF*706-R		70.125"	36.25"	25.25"	Six	11.67"	4.5"	Two	645 lbs
AP-SF*403-R	Single Sided Finisher Feeder	40.125"	36.25"	14.5"	Three	13.33"	4.5"	One	240 lbs
AP-SF*504-R		50.125"	36.25"	14.5"	Four	12.50"	4.5"	One	300 lbs
AP-SF*605-R		60.125"	36.25"	14.5"	Five	12.00"	4.5"	Two	360 lbs
AP-SF*706-R		70.125"	36.25"	14.5"	Six	11.67"	4.5"	Two	420 lbs

Sizing recommendation - 1 pig per 2" of total through length (recommendation can vary with size of pigs)

Wean to Finish Feeders

15 to 300LB.PIGS

PART NUMBER	STYLE	LENGTH	HEIGHT	WIDTH	THROUGH SPACE	THROUGH SPACE WIDTH	THROUGH HEIGHT	TUBE BRACKET	APPROX CAP.
AP-DF*403-R	Double Sided W-F Feeder	40.125"	36.25"	25.25"	Three	13.33"	4.5"	One	370 lbs
AP-DF*504-R		50.125"	36.25"	25.25"	Four	12.50"	4.5"	One	460 lbs
AP-DF*605-R		60.125"	36.25"	25.25"	Five	12.00"	4.5"	Two	550 lbs
AP-DF*706-R		70.125"	36.25"	25.25"	Six	11.67"	4.5"	Two	645 lbs
AP-SF*403-R	Single Sided W-F Feeder	40.125"	36.25"	14.5"	Three	13.33"	4.5"	One	240 lbs
AP-SF*504-R		50.125"	36.25"	14.5"	Four	12.50"	4.5"	One	300 lbs
AP-SF*605-R		60.125"	36.25"	14.5"	Five	12.00"	4.5"	Two	360 lbs
AP-SF*706-R		70.125"	36.25"	14.5"	Six	11.67"	4.5"	Two	420 lbs

Sizing recommendation - 1 pig per 2" of total through length (recommendation can vary with size of pigs)

Nursery Feeders

10 to 80 LB. Pigs

PART NUMBER	STYLE	LENGTH	HEIGHT	WIDTH	THROUGH SPACE	THROUGH SPACE WIDTH	THROUGH HEIGHT	APPROX CAP.
AP-DN*244	Double Sided Nursery Feeder	24.06"	25.25"	17.2"	Four	6.0"	3.32"	107 lbs
AP-DN*305		30.06"	25.25"	17.2"	Five	6.0"	3.32"	133 lbs
AP-DN*366		36.06"	25.25"	17.2"	Six	6.0"	3.32"	160 lbs
AP-DN*427		42.06"	25.25"	17.2"	Seven	6.0"	3.32"	187 lbs
AP-DN*488		48.06"	25.25"	17.2"	Eight	6.0"	3.32"	214 lbs
AP-SN*244	Single Sided Nursery Feeder	24.06"	25.25"	11.5"	Four	6.0"	3.32"	86 lbs
AP-SN*305		30.06"	25.25"	11.5"	Five	6.0"	3.32"	107 lbs
AP-SN*366		36.06"	25.25"	11.5"	Six	6.0"	3.32"	128 lbs
AP-SN*427		42.06"	25.25"	11.5"	Seven	6.0"	3.32"	150 lbs
AP-SN*488		48.06"	25.25"	11.5"	Eight	6.0"	3.32"	172 lbs

Sizing recommendation - 5 pigs per feed space, recommendation can vary between size of pigs

Efficient, Flexible and Proven

To meet the needs of the modern pork producer, you need to be able to accommodate a variety of applications with consistently reliable performance. AP's selection of drop feeders won't disappoint with efficient designs, flexible options, and proven dependability.

Ultra-Drop™

- Designed with producer input to meet the requirements of both gestating and lactating sows.
- Convenient knob adjustment.
- Balanced design insures that the feeder hangs straight and maintains accuracy.
- Individual slide shut-off.
- Translucent body allows visual confirmation of feed level.
- Weighted ball valve securely closes the feeder and insures feed flow when emptying.
- All plastic construction with stainless steel hardware.



INTāk

- Optimize sow herd performance by maximizing feed intake with the AP INTāk Ad-Lib lactation feeding system.
- Fresh feed available to sows 24/7
- Decrease feed waste and the time spent removing stale feed
- Indexed adjustment system adapts to a variety of feed types
- Designed for quick and simple cleaning
- Adaptable to most existing farrowing crate feeders



INTāk FEEDERS

The INTāk dispenser provides reliable feed flow 24 hours a day delivering a regulated amount of fresh feed with each actuation.



The easy set indexed adjustment system can be used to adapt the dispenser to a wide range of feed types and sows. The INTāk dispenser's patented* design decreases feed waste and labor costs associated with hand feeding and stale feed removal.



INTāk dispensers are easily adapted to most farrowing crates and can be retrofitted to existing stainless steel feeders. Dispensers can be hand filled using the optional fifteen-pound hopper or filled automatically with a Chain Disk fill system.

*Patent Number 6,101,975

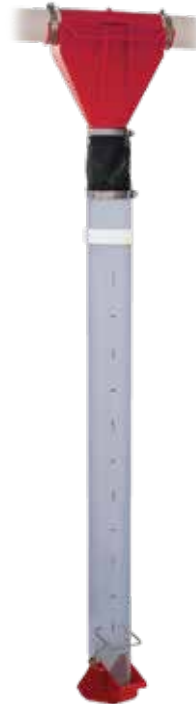
Farrowing Drop Feeders

Eliminate feed carts and reduce the cost of labor associated with hand feeding lactating sows with AP's Farrowing Drop Feeders.



FEATURES INCLUDE:

- Heavy wall, clear PVC tube and stainless steel valve.
- Capacity markings on the clear feed tube provide an easy indicator of the amount of feed being dropped.
- Sliding band can be moved on the tube to record the amount of feed previously dropped.
- Flexible coupler aids in alignment with the feeder and permit clear access to the head gate.
- Spring loaded stainless steel discharge cup snaps securely into the closed position.
- Each feeder is equipped with an individual slide shut-off.



FARROWING DROP FEEDER DIMENSIONS						
MODEL	FRONT VIEW	OVERALL	SIDE VIEW	TUBE	MAXIMUM CAPACITY**	AVAILABLE MODELS
	WIDTH	HEIGHT*	WIDTH	OD		
	A	B	C	D		
6 lb.	9.189" 23.3 cm	39.30" 99.8 cm	5.340" 13.6 cm	3.250" 8.3 cm	6 lbs. 2.73 kg.	M236 ChainDisk, M220 Flex-Flo™
8 lb.	9.189" 23.3 cm	53.84" 136.8 cm	5.340" 13.6 cm	3.250" 8.3 cm	8 lbs. 3.63 kg.	M236 ChainDisk, M220, M300 Flex-Flo™

* Overall height is stated from the top of feed line to bottom of drop feeder.
 ** Feeder capacity is approximate and is based on volume which will change as feed density and flowability changes.
 Specifications subject to change without notice.

Durable, Efficient and Reliable

The success of the modern facility depends on many issues of which longevity, efficiency and performance of the ventilation fans are a substantial part.

PERFORMER SERIES FANS

AP Performer series fans are available in a wide range of sizes, from 12" to 50" diameter, to accommodate most ventilation requirements. 12" to 36" diameter Performer series fans include direct drive, variable speed motors for efficient operation and minimal maintenance. A lifetime warranted composite fiber glass-blend blade won't corrode and is carefully balanced for maximum performance.



Shown with optional fiberglass discharge cone.



Performer Direct Drive

Unlike fans that use a smaller 48 frame motor, Performer direct drive fans include the larger 56-frame motor providing higher performance while allowing for much cooler motor temperatures on variable speed applications. Performer direct drive fan motors include a full 3 year warranty.



Performer Belt Drive

Includes heavy duty 56-frame TEAO motors, 1" drive train (allowing for larger pillow block bearings and enhanced longevity), automatic belt tensioner, and large diameter pulleys with greasable pillow block bearings to promote greater belt wrap and extended life.

Performer Series Fans Technical Data

Size	Drive	Speed	HP	Phase	Voltage	Freq.	SF	Full Load Amps	Motor RPM
APP-12F	Direct	Variable	1/4	1	115/230	50/60	1	3.0/1.5	1725
APP-14F	Direct	Variable	1/4	1	115/230	50/60	1	3.0/1.5	1725
APP-14FC	Direct	Variable	1/4	1	115/230	50/60	1	3.0/1.5	1725
APP-18F	Direct	Variable	1/3	1	115/230	50/60	1	3.8/1.9	1725
APP-18FC	Direct	Variable	1/3	1	115/230	50/60	1	3.8/1.9	1725
APP-24F	Direct	Variable	1/3	1	115/230	50/60	1	3.8/2.3	1100
APP-24FC	Direct	Variable	1/3	1	115/230	50/60	1	3.8/2.3	1100
APP-36F	Direct	Variable	1/2	1	115/230	50/60	1	6.2/3.1	850
APP-36FC	Direct	Variable	1/2	1	115/230	50/60	1	6.2/3.1	850
APPB-50C	Belt	Single	1 1/3	1	115/230	60	1	12.4/6.2	1725

To be a top performer in today's marketplace, the modern pork producer needs a competitive edge.

COMPETITOR SERIES FANS

Available in up to 54" models, harnessed with high efficiency motors, and capable of moving up to 30,000 cubic feet of air per minute, AP's Competitor series fans are the airflow champions. Competitor fans are available in 24" direct drive, variable speed models or 54" belt drive, single-speed models. Long lasting stainless steel props and durable fiberglass housings make Competitor fans a reliable choice for high airflow applications.



Shown with optional fiberglass discharge cone.



Competitor Direct Drive

Direct drive Competitor series fans feature high efficiency 1/3 HP motors and durable, fiber reinforced nylon propellers. A five bladed propeller configuration provides for optimal air output while producing minimal operational load on the motor.



Competitor Belt Drive

Includes a high performance stainless steel prop, 1.75 HP motor, 1" (allows for larger pillow block bearings enhancing longevity), automatic belt drive train tensioner, and large diameter pulleys with greasable pillow block bearings promote greater belt wrap and extended life.

Competitor Series Fans Technical Data

Size	Drive	Speed	HP	Phase	Voltage	Freq.	Sf	Full Load Amps	Motor RPM
CS24C1	Direct	Variable	1/3	1	115/230	60	1	3.9/2.0	1100
CS241-NC	Direct	Variable	1/3	1	115/230	60	1	3.9/2.0	1100
CS24PF90	Direct	Variable	1/3	1	115/230	60	1	3.9/2.0	1100
CS54C1-P	Belt	Single	1 1/2	1	115/230	60	1.5	16.0/8.0	1725
CS54C3-P	Belt	Single	1 3/4	3	208-230/460	50/60	3	4.9-5.0/3.0	1725

Features and Options

Look to AP for the finest in fans and accessories. Choose from a large selection of cost saving options to enhance your ventilation systems.

PERFORMER AND COMPETITOR FANS INCLUDE:



Standard white PVC* shutter with plastic rod hinges



Heavy duty fan guards with baked-on finish



All aluminum motor mounts constructed of heavy gauge materials



Durable & aerodynamic fiber glass housing with stainless steel mounting hardware (limited lifetime warranty)

FAN ACCESSORIES



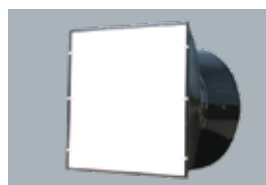
All-weather fan hoods for 14" to 24" fans save on costs and improve fan efficiency particularly in windy or cold weather conditions.



Transit tubs are available to fit 8" to 24" fans. Transit tubs are ideal for applications where pump outs are not required.



Wind deflector cones can be easily adapted to new or existing fans to improve the efficiency and performance of the total ventilation system.



Designed for the coldest weather, these insulated panels seal out even the most extreme winter conditions.



Where pump outs are required, pit transitions are available for Competitor and Performer 12" - 24" fans.



Quick-Lock kits simplify cleaning and maintenance. Stainless steel pit transitions are also available for 14" to 24" fans where pump outs are not required and sidewall curtains are necessary.



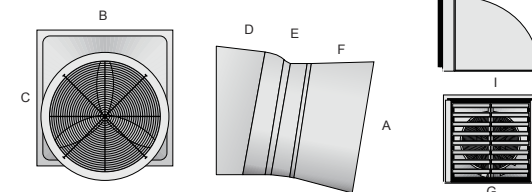
Made of durable fiberglass, AP's optional discharge cones boost fan output by as much as 15%. The 14"-36" fiberglass cones are provided as a one-piece unit and 50" & 54" in an easy to ship and assemble 3 or 4-piece units.

Dimensions & Performance

FAN DIMENSIONS

MODEL	ROUGH OPENING	(A) CONE DIA.	(B) WIDTH	(C) HEIGHT	(D) LENGTH LESS CONE	(E) LENGTH W/ CONE	(F) CONE LENGTH
APP-12F	17.0 x 17.0	N/A	16.65"	20.00"	25.50	N/A	N/A
APP-14F	20.0 x 20.0	20.500	22.50"	22.25"	21.87	42.625	20.750
APP-18F	25.5 W x 26.0 T	25.250	28.375"	28.125"	22.75	44.500	21.750
APP-24F	34.5 X 34.5	30.250	37.625"	37.625"	21.37	42.630	21.250
APP-36F	44.5 X 44.5	44.375	46.75"	46.75"	27.75	54.500	26.750
APPB-36	44.5 X 44.5	44.375	46.75"	46.75"	30.25	56.000	27.000
APPB-50	56 x 56	56.000	58.445"	58.445"	34.50	58.500	24.000
CS24	34.5 X 34.5	30.000	37.625"	37.625"	19.50	41.000	21.500
CS54	58.0 W X 60.5 T	64.750	62.125"	64.438"	27.00	57.500	30.500

FAN	ROUGH OPENING	(G) WIDTH	(H) HEIGHT	(I) BASE DEPTH	(J) FLANGE EXT.
CS24PF APP-24PF APP-18PF	24.0 x 32.0	37.25"	35.313"	39.625"	2.25"



MODEL	PROP. DIA.	MOTOR H.P.	NOMINAL RPM	CFM 0" SP	CFM .05" SP	CFM .1" SP	CFM/WATT	ROUGH OPENING WIDTH (IN.)	ROUGH OPENING HEIGHT (IN.)
BASKET FANS									
BSK24	24"	1/3	1100	6029	N/A	N/A	15.2 @ .00SP	N/A	N/A
BSK36A	36"	1/2	850	10900	N/A	N/A	19.3 @ .00SP	N/A	N/A
DUCT FANS*									
DF-10	10	1/6	3400	1015	989	962	6.1 @ .05SP	N/A	N/A

*Tested by Bess Laboratories, University of Illinois. Performance shown with guards and shutters in place (except with DF-10 where shutters do not apply).

PERFORMER & COMPETITOR FAN PERFORMANCE

MODEL	0.00" SP		0.05" SP		0.10" SP		0.15" SP		0.20" SP		AFR
	CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	CFM	CFM/Watt	
APP-12F	1446	8.8	1331	7.8	1222	7.0	1092	6.1	850	5.1	0.64
APP-14F	2487	7.8	2385	7.3	2270	7.0	2150	6.5	2003	6.1	0.84
APP-14FC	2830	9.6	2710	9.0	2610	8.5	2500	8.0	2370	7.4	0.87
APP-18	4387	9.6	4181	9.0	3964	8.5	3792	8.0	3568	7.5	0.85
APP-18FC	5090	11.8	4890	11.0	4720	10.6	4470	9.7	4250	9.0	0.87
APP-24	6442	14.7	5928	13.3	5463	12.1	4990	11.0	4495	9.8	0.76
APP-24FC	7470	18.0	7010	16.7	6550	15.0	6090	13.6	5550	12.3	0.79
APP-36	11113	16.6	10297	15.0	9392	13.0	8328	11.5	7131	9.7	0.69
APP-36FC	12290	22.2	11310	19.6	10360	17.1	9220	14.8	7710	11.9	0.68
APPB-50C	24033	24.4	23228	22.7	21615	20.5	19188	17.7	17419	15.6	0.75
CS24C1	6520	18.9	6160	16.9	5800	15.4	5350	13.7	4880	12.4	0.79
CS241-NC	5770	15.3	5440	14.3	5090	13.1	4680	11.9	4230	10.9	0.77
CS54C1-P	N/A	N/A	30000	20.2	28200	18.3	26300	16.5	23900	14.7	0.80
CS54C3-P	N/A	N/A	30500	19.8	28500	17.8	26700	16.0	24300	14.2	0.80
CS54C1-E	N/A	N/A	24161	27.3	21746	23.5	18917	19.8	14966	15.4	0.62
CS541-NC	27200	18.9	25700	17.4	24100	15.9	22400	14.6	20400	13.1	0.79
CS543-NC	27000	18.4	25500	17.0	23900	15.6	22200	14.3	20100	12.8	0.79
CS24PF90	4065	11.1	3607	9.8	3132	8.4	2531	6.8	1951	5.3	0.54
APP-24PF	4580	9.3	4158	8.4	3749	7.5	3289	6.8	2523	5.6	0.607

All fan performance numbers based on 60 Hz operation. Specifications subject to change without notice.

EVAPORATIVE COOLING SYSTEM



OPEN TOP COOLING SYSTEM

GSI evaporative cooling systems utilize the natural cooling effect of evaporation to combat seasonal dips in production caused by heat stress. Cumberland offers two different styles of Komfort Kooler. The Close Top System has been an industry favorite for many years. Made of ultraviolet stabilized PVC, this system offers great durability and longevity for the poultry environment. In addition, Cumberland's rapidly growing Open Top System is available.



Open Top Design

Made of high quality aluminum, this system will give years of dependable operation under the harshest conditions. The Open Top design allows you to see the water jets and easily check water pressure. It also offers access to the spray bar for cleaning. Pre-punched and heavy duty stainless steel components help simplify installation.



Water Troughs

GSI's pre-formed square trough serves as a 3 gallon per lineal foot (44.8 liters per meter) water reservoirs. Constructed with corrosion proof, ultra-violet stabilized PVC components, the trough allows unevaporated water to be recirculated back to the holding tank. A perforated tray snaps to the trough to hold pads firmly in place. Injection molded end caps and couplers speed up installation.



Water Jet Pump

- All jet pump kits will be factory assembled for easy filed installation
- Our new motor is a 1HP 3PH - 50/60Hz continuous duty

CLOSED TOP COOLING SYSTEM



GSI's RCS Gen 2 is a combination of simplified and effective evaporative cooling system. It was developed after years of field study and test, ideal for areas with hot and dry climate. RCS Gen 2 is a reliable climate control solution, requiring minimum installation and crafted for simple supervision and maintenance.

GSI only chooses cellulose pads with top quality, made of special cellulose material that provides a large surface area for high cooling capacity. Chemical impregnation protects the pads from damages influenced by outdoor weather.

Key Features:



1ft Long Water Trough Cap
Easy, convenient and flexible opening during cleaning and servicing



Perforated Pipe and Deflector
Top profile with perforated pipe and deflector for an even distribution on water along the pads



Design of Float Valve
This is to assure the compact design of integrated trough and tank



Intergated Trough and Tank
Simplified system with huge water capacity allows easy installation and maximum cooling effect with minimum hassle. 3.96 gallon per linear foot (49.2 liters per meter)



Clip Type Close Top
Practical clip - retainers allow a simple and quick replacement of the pads, saving time and labour



Slot Type Pipe Joint
Easy installation and pipe cleaning



Bigger Spray Pipe Design
For a better spray effect

Gear Up to Powerful Performance

Protect the health of your investment with a properly controlled curtain system. AP's curtain machines deliver powerful performance and reliable operation with durable components to withstand a rigorous environment.



CURTAIN CONTROLLER

AP's Curtain Controller is a screw driven automated curtain machine with a heavy duty 15, 30 or 60 RPM motor. Multi-directional, frame mounted, header pulleys are standard.

Polyethylene pulley covers provide additional weather protection.

A plastic water resistant junction box is accessible from the outside of the curtain controller.

The drive block assembly features a removable nylon insert in a heavy-duty cast iron drive block simplifying cable/chain installation and ease of maintenance. This design also decreases friction and provides wear characteristics superior to conventional brass drive blocks. UHMW polyethylene guide wheels insure smooth travel, proper alignment and stability.



Solid construction and rust resistant materials make the sprocket controller a reliable workhorse year after year.



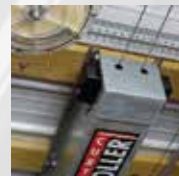
The Curtain Controller utilizes a threaded block and drive screw directly coupled to a direct drive gear motor.



Isolated primary and secondary limit switches allow for backup protection.



Latch-Out Switch
Optional latch-out switch kits, 52-0415 for current models and 52-0416 for previous red welded drive blocks, are available. Simple to install and adjust, it can be wired normally open or closed and has a maximum load rating of 10 amps / 240 volts. A 36" Curtain Controller (#CC3630-W) is available with the latch-out switch included.



DF Series

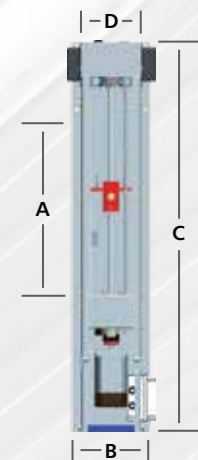
Increase your productivity and efficiency by automating the dropping of your feed system with AP's DF series. Utilizing a roller chain or cable installation, the DF series has the same durability and dependability as our standard Curtain Controller.

Curtain Machine Specifications

ACTUATOR	H. P.	VOLTAGE	FREQUENCY	AMP DRAW	TRAVEL SPEED	RPM
15 RPM Curtain Controller	1/12	115V	60 Hz	1.0 Amps	3" per minute	15
30 RPM Curtain Controller	1/8	115/220V	50/60 Hz	1.7 Amps	6" per minute	30
60 RPM Curtain Controller	1/6	115V	60 Hz	1.8 Amps	12" per minute	60
A.T. Newell	1/2	115V	60 Hz	6.0 Amps	3" per minute	1725
Auto-Air Actuator	1/8	115V	60 Hz	1.8 Amps	15" per minute	1625

Curtain Controller Dimensions

LENGTH	"A" TRAVEL	"B" WIDTH	"C" LENGTH	"D" WIDTH LESS FLANGE	WEIGHT
24" (61 cm)	22" (55.9 cm)	10.2" (25.9 cm)	52" (132.1 cm)	9.5" (24.1 cm)	110 lbs. (49.9 kg.)



Precision Control

AP offers the professional producer precise control and monitoring of environment, feeding and watering. Choose among several controllers built to save you time and money.

EXPERT SERIES CONTROLS™

When it comes to dependable management of your swine production operation, trust the Experts.

STANDARD FEATURES

- Zoning of heaters, inlets and circulation fans with up to eight inside temperature sensors
- Power save feature allows smaller less efficiency fans to be switched off as the temperature rises
- Air inlet, chimney and curtain outputs use timer logic based staging
- Set point and minimum ventilation curves
- Flash drive is used to duplicate programming of multiple controls (Series II is not USB, it uses Config 300)
- Seamless ventilation steps between stages when using variable speed fans
- Separate day/night set points and minimum ventilation settings
- Up to two timed outputs for feed systems, water or lights
- Cooling stage with cycle timer
- Alarm that monitors up to ten functions; 16 are monitored in the Series II and 11 in VT110
- Clean mode with soaking stage
- Removable relays with individual indicator lights and on/off/auto switches
- Overload and over voltage protection
- Full speed start-up on variable fan stages
- Records heater run-time up to 75 days
- Records run-time of up to four feed systems for up to 75 days
- Records high and low temperature history for up to seven days
- Records animal count, age and mortality



Optional Features

- Humidity sensor input - Compensates heaters, min. ventilation rate based on humidity. Records 7 day humidity history.
- Static Pressure input - Compensates inlets according to static pressure. Records 7 day static pressure history.
- Outside temperature sensor with compensation
- Water meter inputs - Gives alarm in event of water spill. Records 75 day water consumption history.
- Up to two additional variable speed fan or electric heat stages using 0-10 volt outputs.
- Backup safety relay system available for added protection



Expert VT110



Expert PN110



Expert Natural



Expert VP18



TC5-ITA
Inlet Controller

Sophisticated Yet Simple

AP's TC5 Series ventilation controls are sophisticated yet simple to program and operate. These controls are designed and manufactured for specific applications such as natural, tunnel or power/natural ventilation.

TC5 STANDARD FEATURES

- Up to four temperature sensors averaging temperature
- High/low temperature retention
- Set point and minimum ventilation curves
- Overload and over voltage protection
- Zoned or cascading heat stages
- Alarm output
- De-icing cycle on second stage variable fans

TC5 CONTROLLERS OPTIONAL FEATURES:

- Humidity sensor input
- Air inlet control using TC5-ITA timed logic or PF-6 inlet position module and potentiometer



MINI EXPERT

The Mini Expert line of controls offers many of the features of the Expert series of controls at a price comparable to the TC5 Series. Mini Experts are ideal for farrowing and nursery rooms requiring precise control of environment.

Standard Features Include:

- Button style user interface
- Seamless ventilation steps between variable speed stages
- Internal air inlet output using timed logic staging
- Outside temperature compensation for alarm settings
- Records and displays heater run time for six days
- Input for water meter to record six days usage
- USB flash drive for duplicating and storing settings
- Day and night set points
- Overload and over voltage protection



HML SERIES VARIABLE CONTROLLERS



HML-20



HML-80



HML-40

- The HML Series power module is capable of varying the intensity of lights, heat lamps, heat mats or fans. environment.
- HML series controllers feature a rugged construction with plenty of capacity. Available in three models, the HML controller is compatible with most dimmable CFL's (compact fluorescent lights) including
- The HML features adjustable output intensity curves. Seven light curves adjust electronic (CFL) and incandescent lamps. In addition, ten fan curves are available to optimize variable fan speed range.
- Available in automatic or manual control, the HML series controllers are easy to use, easy to install, and easy to service.

Other HML Features:

- Sunset/Sunrise built in (with clock input)
- True by-pass on Manual
- Available In 1200, 2400 and 4800 Watt capacities
- 0-10 or trig signal can be used as inputs to the module
- Mini-Experts and Experts can control the module
- Module can be used on variable fans, heat mats, or heat lamps

AGRI-ALERT ALARM SYSTEMS

Peace of Mind

Agri-Alert is a complete alarm system for monitoring temperature, power, feed and watering systems, burglary, bio security and more. The Agri-Alert alarm system constantly monitors your operation and quickly notifies you upon the detection of common site problems or failures.



AGRI-ALERT™ 800EZE

Graphical LCD screen

- View information quickly & clearly
- Intuitive screen design
- Easy navigation through menus
- Monitor up to 8 zones
- Acknowledge alarms by phone
- Call in from off site for zone temperature and system status report

AGRI-ALERT™ 128 TOUCH

- 7-inch color touch screen allows all zones to be seen at once
- Internet connectivity provides remote access, eliminating your need to go to the barn every time it notifies you
- Email and SMS notifications
- Modular architecture allows you to design a system that's the right size for your operation
- 128 zones let you monitor a large site with a single system
- Phone dialer provides dependable delivery of alarm notification even if you don't have internet
- Built-in security makes sure only authorized users can adjust the system
- Fully compatible AA9600 replacement



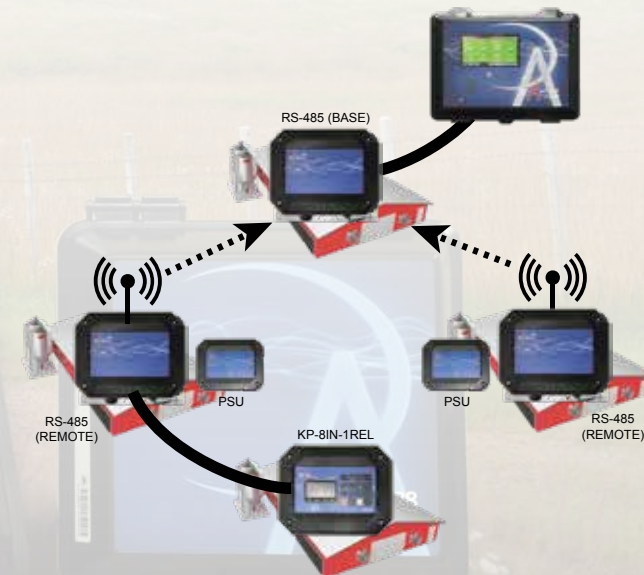
Wireless Options



Wireless RS-485 Module

Go wireless with AP's RS-485 modules. This module can be programmed as a receiver or transmitter with a range of up to 6,500 feet*. This wireless module is typically used in combination with a main controller (AA128 Touch, or AA9600). A secondary wireless RS-485 transmitter can be utilized to relay information from remote RS-485 modules to the wireless RS-485 (Base). This allows a variety of configuration options to accommodate your particular needs.

* Range of 1.2 miles (2 kilometers) open air unobstructed view.



Typical Site for an AA128 System

Wireless system allows establishing communication between up to 16 remote links per Wireless RS-485 (Base)

AGRI-ALERT ALARM SYSTEMS

Agri-Alert™ Specification

	AA 800EZE	AA 128 TOUCH
Number of zones available	8	128
Programmable zone types	temperature dry contact / ELR, burglary	temperature dry contact / ELR, burglary, 4-20 mA, outdoor probe, 0-5 volt
Zone partitioning (grouping)	8	16
Temperature sensor calibration	yes	yes
Number of contacts system can call	8	12
Number of call sequences per alarm	up to 7	no limit
Acknowledge alarm by phone	yes	yes
Alarm restored call-back feature	yes	yes
Call in for temperature / status reports	yes	yes
Programmable recognition time per zone	yes	yes
Programmable start call delay	yes	yes
Programmable alarm recall feature	yes	yes
Outside temp compensation feature	yes	yes
Independent users	up to 10	up to 102
Auxiliary 28 volt / 12 volt DC power output	no/ yes	yes/ yes
Siren output	yes	yes
Output relays (programmable)	yes	yes
Individual zone labeling (on screen)	no	yes
Individual zone voice identification	yes	yes
Individual zone status identification	yes	yes
Remote modules	no	yes
Wireless compatible	no	yes
Rechargeable battery	yes	yes
Display	1" x 2" LCD screen	7" color touch screen
Event buffer (non-volatile)	yes	yes
Alarm memory log	yes	yes
Temperature SP can be set to a curve	no	yes
Telephone line monitoring	yes	yes
Phone line seizure	yes	yes
Bypass zones remotely	yes	yes
Program & Back-up w/PC	yes	yes
System self diagnostics feature (system trouble)	battery, AC supply, siren, fuses & probes	battery, AC supply, siren, fuses, probes & dialer, SBI
Multi language	no	yes
Automatic software update when connected to the internet	no	yes
Ethernet connection	no	yes

Common to All Alarms

- Spike Block surge/lightning protection on all zone inputs and system outputs
- Outdoor temperature compensation feature available on all models
- Reliable rechargeable battery back-up
- Programmable alarm recall feature for acknowledged but unresolved alarms
- Self-diagnostics of complete system including wiring, sensors, outputs, fuses battery and more
- Independent output for a local siren or revolving light
- Non-volatile memory for all programmed parameters
- Security with up to 10 programmable user access codes
- Alarm memory log with time, user & date stamp
- Dialing of alarms to multiple phone numbers
- Built-in phone line seizure for added security
- Share phone line with other devices, no second line required
- Off-site phone-in capabilities for checking temperature and other system functions
- Moisture and dust-tight ABS enclosures for harsh environment locations
- All zones can be bypassed individually or in groupings
- Any zone can be configured for dry contact, temperature or burglary. AA 128 Touch zones can also be configured for 4-20 mA and 0-5V

EDGE is a single platform that is versatile and intuitive allowing it to handle all control applications. The unique design makes EDGE the only controller on the market that can be configured to match your operation's specific requirements. It is also flexible enough to be adapted to new construction or existing system upgrades. Throughout your animals' growth stages, you and EDGE are in control, managing and monitoring ventilation, cooling, heating, lighting, feeding and watering systems.



More than a product, EDGE™ is the next generation of controller, a platform designed to evolve and expand with you and your operation for years to come.

MONITORING & MANAGEMENT



INFORMATION AT A GLANCE

Navigation is easy with the large, 15" color touchscreen. Everything is right in front of you for quick, easy navigation.



SELF-DIAGNOSTICS

Should anything go wrong, the built-in self-diagnostics make troubleshooting easy. Before you go flipping through a manual or calling tech support, self-diagnostics can identify a number of issues.



CURRENT SENSORS

Each variable output and relay is equipped with a current sensor, which allows the system to monitor electrical current.



REMOTE CONNECTIVITY

Plug in an Ethernet cable and you are ready to take control of the system from the comfort of your truck, office, couch, and anywhere in between.



MULTI-ROOM / MULTI-BARN CONTROL

With EDGE, you have the power to control multiple barns or rooms from a single controller using one interface. Consider a typical sow farm operation with breeding and gestation, farrowing and gilt development facilities. Historically, each room would require a separate controller.

BUILT TO LAST, BUILT TO GROW



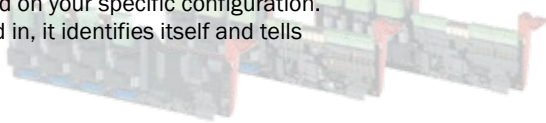
MODULAR ARCHITECTURE

Modular architecture allows the system to be built exactly to your needs. Whether you run a large operation with dozens of sites or a smaller facility with one or two barns, EDGE scales with the appropriate number of inputs and outputs and becomes more economical as your operation expands.



PLUG-IN MODULES

Similar to the input/output expansion slots in a computer, plug-in modules serve different functions, allowing you to customize the system based on your specific configuration. Once the module is plugged in, it identifies itself and tells the system its functionality.



MULTIPLE TYPES OF INPUTS

Want to measure inputs such as temperature, static pressure, humidity, wind speed, wind direction, precipitation, water meters or feeder run time? Now you can do all that with EDGE.



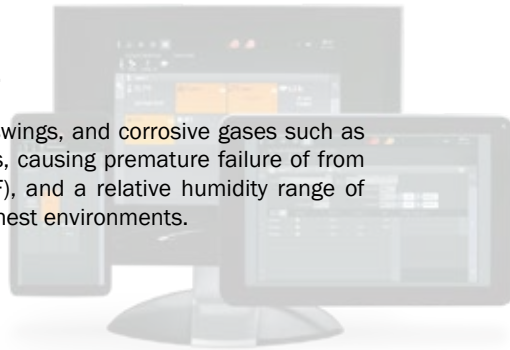
LED TEMPERATURE PROBES*

Barn startup can be extremely time-consuming. We developed our patent pending LED temperature probes to simplify installation and take the hassle out of individually identifying the location of each probe.



RUGGED FOR THE ENVIRONMENT

High humidity, wide temperature swings, and corrosive gases such as ammonia can wear down products, causing premature failure of from -20°C to +50°C (-4°F to +122°F), and a relative humidity range of 0-95%, EDGE performs in the toughest environments.



GET UP AND RUNNING FASTER



CONFIGURATION WIZARD

The built-in Configuration Wizard is designed to guide you through the initial set-up by prompting you with questions about each of the specific applications that have been installed. Simply input the fans, inlets, temperature probes, and other equipment you have, where they are located, and the production type (breeding, gestation, farrowing, nursery, finishers). Based on this information, EDGE will automatically configure run settings to operate at optimal conditions.



VENTILATION BASED ON CFM PER HEAD

Determining the necessary ventilation typically requires producers using complicated calculations to convert CFM per head into ventilation stages. With EDGE in control, you can say goodbye to confusing formulas and arbitrary ventilation settings. Ensure you are accurately controlling the environment by inputting CFM per head values and the number of animals in a particular building/room. The revolutionary EDGE controller takes it from there, automatically determining the proper inlet settings, fan stages and variable outputs for the building/room.



GLOBAL SUPPORT

MULTI-LANGUAGE SUPPORT

Switching between languages is as simple as using a button on the main screen. The system supports all major languages for the region in which it is installed so you can customize for global operations. This is ideal for integrators and multi-national corporations. Regardless of the language, you can train your employees on one system and it will work the same way anywhere in the world.



SERVICE & SUPPORT

All AP products are backed by our expansive network of dealers and support teams. With the purchase of EDGE, you have a dedicated team available to answer your questions and provide the technical support you need to keep your operation running around the clock.



Actuated Ceiling Inlets

Actuated ceiling inlets available in a 2500 to 4000 CFM bidirectional or 2500 CFM unidirectional model. Inlets are available with stainless steel or plastic housings.

- Delivers precise air speeds to enhance room air quality
- When connected to the EDGE® or Expert control system, ventilation rates adjust to the ventilation stage and temperature requirements
- Eliminates back drafts and heat loss
- Stainless steel inlets are insulated to help reduce condensation
- Hardware package & insulation stop with every inlet
- Pressure washer friendly



ACI-2700
ACTUATED CEILING INLET

ACI-4000P2
ACTUATED CEILING INLET

Actuated ceiling inlets include factory installed pulleys



COUNTERWEIGHTED BAFFLE

Non-Actuated Ceiling Inlets

The counterweighted baffle system allows the 12" baffle to become automatic without the use of mechanical static pressure control. Bi-flow ceiling inlets come in two sizes; 1000 CFM and 2700 CFM

- Opens automatically based off negative static pressure supplied by the exhaust fans
- Available in bi-fold or four sided models for ceiling inlets
- Available in top hinged counter balanced model for wall inlets
- Plastic and aluminium housing and doors for corrosion resistant lifespan
- Hardware package & insulation stop with every inlet
- Pressure washer friendly



BI-FLOW CEILING INLET



C-2000
CEILING AIR INLET



CAI-2700
CEILING AIR INLET



CBIA-3000
COUNTERWEIGHTED
BAFFLE

ACTUATED PVC WALL INLETS

PVC wall inlets are field cut to length on site allowing your system to be customized for a perfect fit every time. Panel dimensions are 1.5" thick x 30" tall x 24" long

- Delivers precise air speeds to enhance room air quality without chilling the pigs
- When connected to the EDGE® or Expert control system, ventilation rates adjust to the ventilation stage and temperature requirements of the room or barn
- Adapt to many installation configurations
- Pressure washer friendly
- Low maintenance with high dependability



ADJUST -A-BAFFLE™ SYSTEMS

Adjust-A-Baffle is constructed using one-inch thick polysterene with a rugged plastic coating fastened to UV stabilized PVC channels.

- Make any length possible in sizes 8", 12", 16", 18" and 24"
- Flexible PVC hinge and sealing stip slide into the PVC channels
- Stainless steel cable or rod hardware packages available
- Pressure washer friendly



Maximum Inlets Per Actuator & Maximum Run Length

ACTUATOR TYPE	MAXIMUM NUMBER OF INLETS PER CONTROLLER		MAXIMUM RUN LENGTH (FEET)
	1:1 Pulley Ratio	2:1 Pulley Ratio	
Auto-Air Controller	16	24	150
Curtain Controller	48	72	150

**For maximum accuracy limit run length to 150 ft*

Rated Airflow - Door Opening Actuator Level

INLET MODEL	DOOR POSITION AT FULL CFM RATING		DOOR POSITION RESTRICTED TO HORIZONTAL	
	Rated CFM @0.10 Static Pressure	Maximum Opening (in)	Rated CFM @0.10 Static Pressure	Maximum Opening (in)
ACI-2-4000	4000	8.0	2400	4.5
ACI-2-1500	2000	8.0	1400	4.5
ACI-2-4000P2	4100	8.0	2500	4.5
ACI-2-2500P2	2200	8.0	1500	4.5
ACI-2-3000	3100	12.0	2100	5.0
ACI-2-2500	2500	12.0	1150	5.0
ACI-2-2700P	2400	9.0	N/A	N/A

**Refer to actuator manual to set limit switches in the actuator for the proper amount of travel needed. If the pulley ratio is 1:1 the travel needed in the actuator is the same as the maximum opening listed above. If the pulley ratio is 2:1 the travel needed in the actuator is twice the maximum opening listed above*

Inlet Rough Opening Specifications

PART NUMBER	DESCRIPTION	ROUGH OPENING	
		Width (in)	Length (in)
ACI-4000P2	2 Way Actuated Ceiling Inlet Plastic	19.00	46.50
ACI-2500P2	2 Way Actuated Ceiling Inlet Plastic	19.00	27.00
ACI-2700P	1 Way Actuated Ceiling Inlet Plastic	22.50	25.50
ACI-1-2500	1 Way Actuated Ceiling Inlet SS	12.00	46.50
ACI-2-3000	2 Way Actuated Ceiling Inlet SS	28.50	28.50
ACI-2-4000	2 Way Actuated Ceiling Inlet SS	21.50	46.50
CAI-1000CW	Ceiling Air Inlet, Laminated Baffle	17.00	17.00
CAI-2700CW	Ceiling Air Inlet, Laminated Baffle	25.50	25.50
C-2000	4-Way Inlet Plastic	29.00	29.00
CBIA-3000	Wall Inlet w/ Counter- Weighted Baffle	13.50	46.50

Tension Spring Specifications (AP-2877)

Initial Length = 31 inches
Initial Load = 19lbs

Full Extension = 57 inches
Full extension = 81 lbs

SUPER SAVER HEATER

The **SUPER-SAVER XL** heating line is a line of direct fired heaters that have model variations for both inside suspension hanging and outside mounting. The inside mount model is a gas circulating heater that's dependability and rugged construction make it the ideal unit for confinement houses of all ages and classes of poultry. The outside mount models are forced air heaters that come complete with all relevant brackets and accessories for installation. Its superior combustion is provided by clean, fresh outside air which insures healthy, safe heat for your poultry. All models are available with options for natural gas or liquid propane.



- Hot surface and direct spark models available 225,000 BTU.
- High temp aluminized steel burn chamber.
- Side swing door for easy access and maintenance.
- Diagnostic lights for troubleshooting ease.
- Standard adjustable "Y" heat deflector.
- 1/3 HP totally enclosed thermally protected motor with sealed bearings.
- Standard 1/2" gas cock installed at gas valve.
- Back-up safety sail switch.
- High limit safety switch (manual reset)
- On/Off toggle switch
- Service-Saver enclosed control box.



Universal Mount

Super Saver Heater can be used for either inside or outside mount applications.



New Style Hanging System



The **"SERVICE-SAVER"** enclosed electrical control unit is sealed from debris such as dust and moisture and is accessible through a side swinging door making the unit easily field serviceable.



A side winging door design gives **EASY ACCESS** to internal components like the "Super Saver" unit and blower motor, making the easiest heater to service in the market



The ELECTRONIC PSI IGNITION is standard on all Super-Saver heater models. The heating chamber is made of high temp aluminized steel for superior rust protection. The cast iron burners are enamel dipped to eliminate dust adhesion and rust. The air intake surrounding increases combustion and heat change efficiency



The outside mount model is a forced air heater complete with all relevant installation hardware.



The inside mount model is a gas circulating heater ideal for a confinement environment.

Super-Saver XL Minimum Clearances	
Ceiling	12" (305mm)
Wall	12" (305mm)
Floor	20" (508mm)



PURAFIRE HEATER

With one of the lowest carbon monoxide outputs in the industry (CO emissions of 5 parts per million), Cumberland PuraFire Heaters are able to produce 225,000 BTUH Per hour. Each heater is LP or nature gas compatible and can be mounted inside or outside any house. These heaters are constructed of tough, rust-resistant galvanized steel for longevity and durability.

Bottom-draw intake of PuraFire promotes a better control of the air flow into and throughout the entire unit and provides a more efficient mix of air and gas. Cool air channeled along the inside casing, creates a buffer that makes the exterior casing safe to touch. This air pattern results in a unique bent flame design, which greatly increases the flame's surface area and heat chamber efficiency.



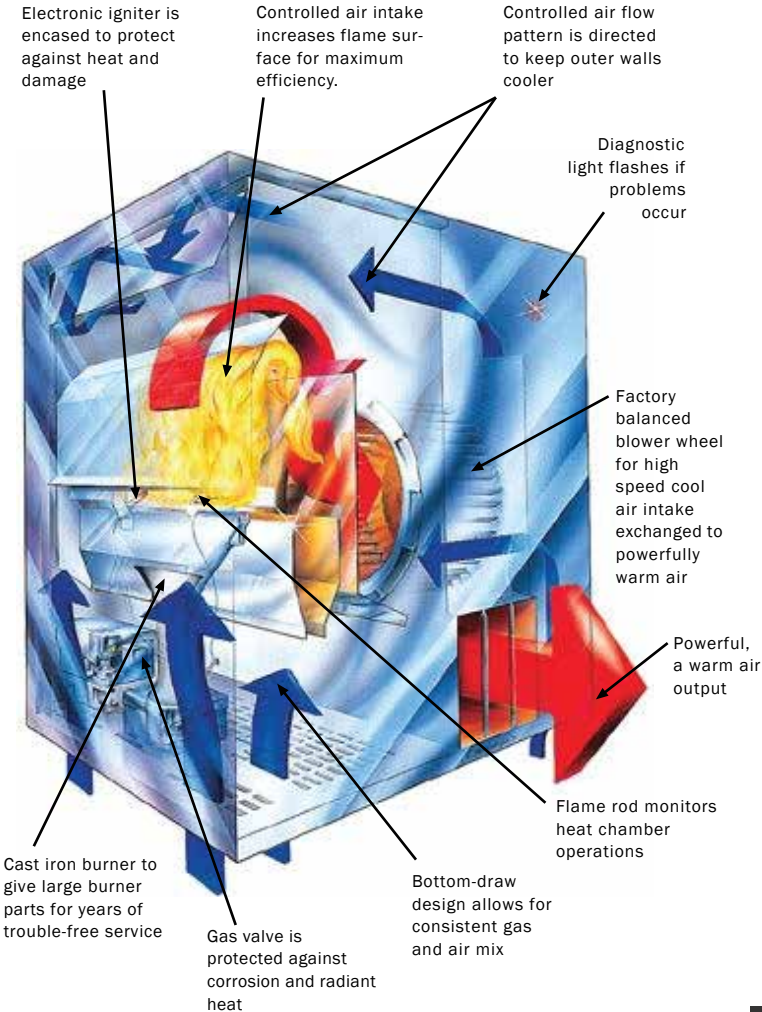
- Consistent, clean burning source of warmth with near 100% fuel efficiency.
- Thermostat operated.
- Intelligent trouble-shooting safety features.
- In case of flame failure, automatic fan shut down stops drafts & gas control lockout prevents gas from escaping.
- 30% gas saving vs conventional brooder.
- Bottom-draw for better air flow control.
- "Bent flame" design greatly increases flame surface area and heat chamber efficiency.
- Exterior surface is safe to touch.
- Motor assembly, blower, gas valve, control panel and other components are protected from moisture, dirt and dust for longer lifespan.
- Swinging doors on each side allow access to all working parts.
- Even heat distribution.



Thermostats, Regulators and Hoses



PuraFire igniters are available with stainless steel casing.





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