

## POULTEC EXTRACTORS

The ventilation system of a modern poultry house is a basic element of a successful production. An adequate ventilation system keeps the inner atmosphere of the farm clean and fresh enabling a higher concentration of birds per square meter, lower mortalities, and a better FCR. POULTEC provides the full range of high quality equipment needed to elaborate an efficient and economical ventilation system.

POULTEC extractors are completely built of best quality galvanized steel sheets with stainless steel blades and cast aluminum blade supports. The rigid design of the fan case, together with the fan blade design, make it durable and robust, with very low noise and vibration levels and a low power consumption.

Extractors are fitted with a wire grill on the inner side and a shutter controlled by a centrifugal mechanism for the outer side. This mechanism leads to great electrical savings and guarantees a continuous full capacity operation of the fan compared to air opened shutter blades that are greatly affected by dust accumulation. Even when dust does accumulate, it does not affect the opening of the shutter because the weight of the dust is insignificant when compared to the centrifugal force generated by the rotating weights.

When the extractor is used for air circulation both sides can be fitted with wire grill.

Motors are water and dust proof and are able to withstand long term operation trouble free. All extractors are drive belt operated. A special belt cover offers extra safety.



## MULTISPEED FANS

POULTEC offers a range of multi-speed fans. For which the capacity is controllable in a continuously variable way by changing the number of revolutions of the motor via the main voltage or frequency. Our multi-speed fans have proved their extremely low power consumption, low noise levels, and excellent output capacity.

The motors are dust and waterproof. The impellers are made of nylon with fiber glass and polypropylene. Galvanized steel casing and shutters or a simple plastic frame for direct wall application are available options.



The POULTEC range of multi-speed fans covers all the possible uses in modern farms, with different motors operating on single or three-phase currents and for 50 or 60 Hz. Operating on speeds varying from 800 to 3200 RPM, and powers of 120 to 1800 W according to motor and current type.

**The impeller size range is 20 to 125 cm. the combination of different impeller sizes with different motors available for the different electrical options will result in a range of fans with capacities between 650 and 43000 m<sup>3</sup>/h.**

POULTEC extractors are available with variable sizes and capacities between 11,000 and 65,000 m<sup>3</sup>/h.

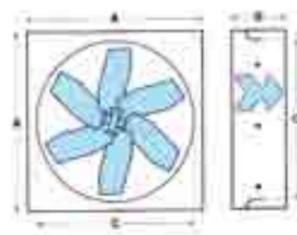
### Size

Type	A	B	C	weight
ES-200 R/S*	1930	450	69"	100
ES-200 R/R**	1930	450	69"	75
ES-140 R/S	1380	405	50"	70
ES-140 R/R	1380	330	50"	50
ES-120 R/S	1150	405	39"	50
ES-120 R/R	1150	330	39"	40
ES-100 R/S	960	405	31"	44
ES-100 R/R	960	330	31"	32
ES-80 R/S	800	405	26"	32
ES-80 R/R	800	330	26"	28

\* R/S = Grid & shutters \*\* R/R = Grid & Grid

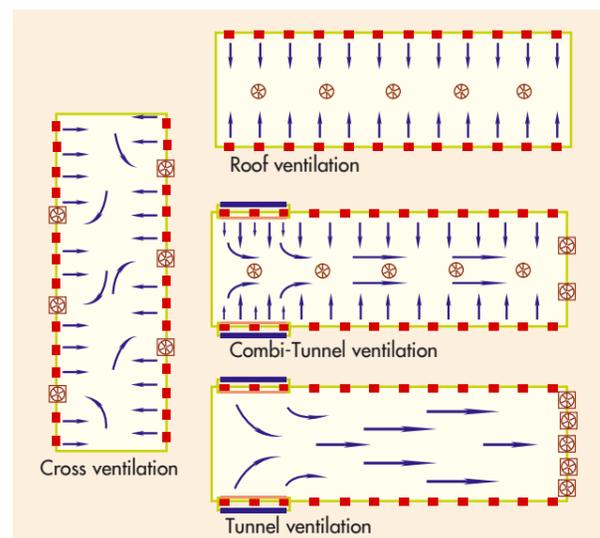
### Technical information

Type	motor	KW	voltage	Hz
ES-200	HP 2	1,5	230/400	50/60
ES-200	HP 1,5	1,1	230/400	50/60
ES-140	HP 1,5	1,1	230/400	50/60
ES-140	HP 1	0,75	230/400	50/60
ES-120	HP 1	0,75	230/400	50/60
ES-120	HP 0,75	0,55	230/400	50/60
ES-100	HP 0,75	0,55	230/400	50/60
ES-100	HP 0,5	0,37	230/400	50/60
ES-80	HP 0,5	0,37	230/400	50/60
ES-80	HP 0,35	0,26	230/400	50/60



### Air flow m<sup>3</sup>/hour

Type	HP	0 PA		10 PA		20 PA		30 PA	
		m <sup>3</sup> h	W 1000 m <sup>3</sup>						
ES-200	2	65.300	26,70	63.500	28,10	60.106	30,40	59.050	32,20
	1,5	61.520	24,50	60.300	25,50	58.800	27,30	57.100	29,00
ES-140	1,5	38.376	29,10	36.684	32,20	34.956	34,00	33.396	35,90
	1	34.956	28,80	33.732	30,50	31.428	34,00	29.016	38,00
ES-120	1	25.624	31,70	24.696	34,40	23.832	37,10	21.996	42,70
	0,75	22.464	29,00	21.492	31,20	20.520	33,70	18.900	37,90
ES-100	0,75	16.524	33,10	15.876	36,30	15.120	39,10	14.508	41,40
	0,5	15.192	31,80	14.508	34,10	13.752	36,70	12.970	39,70
ES-80	0,5	13.752	35,60	12.132	48,80	10.260	49,00	9.144	55,70
	0,35	11.260	35,50	9.144	44,80	8.560	48,40	7.900	54,60



Air circulation fans are available with stainless or galvanized steel casing, with the possibility to be hanged from the ceiling or put on a special stand.



For breeder farms and dark-out houses special easy to assemble light traps are available.



## POULTEC CHIMNEYS

The POULTEC ventilation chimneys are produced out of high-quality polyurethane and are designed for a perfect ventilation characteristic.

The tubes, available in the diameters 315, 404, 430, 520, 640, 720, 820 and 1010 mm are produced as half shells with a thickness of 25 mm. The half shells are assembled by means of stainless steel tension rings to assure a strong and rigid construction.

All parts required for the projection of a complete ventilation chimney are available. Environmental tubes, rain caps air guides out of polyurethane. But also products like roof plates, butterfly valves and brackets for fans are available for several diameters.



## POULTEC AIR INLETS

For optimal ventilation results the right type of air inlets must be used in combination with the fans.

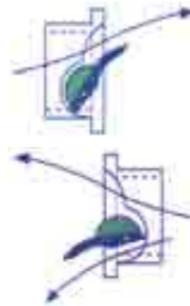


POULTEC provides air inlets made of high quality polyurethane foam to fit any needed size and capacity. The polyurethane construction gives strength added to thermo insulation what prevents water condensation at the inner side of the inlet in cold weather and prevents unwanted heat exchange with the outside.

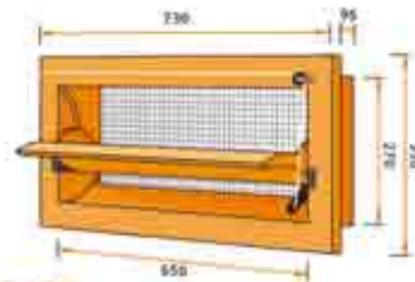


The inlets are specially designed for farms with divided air directions:

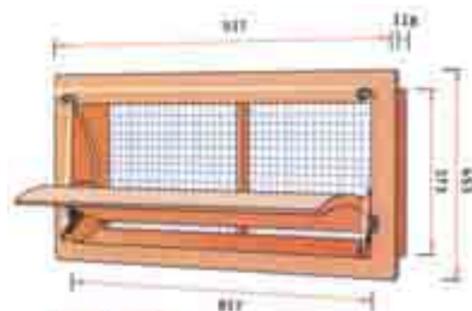
- when opened up to 35% air enters only from the upper side, what creates the most suitable air flow for minimum and low capacity ventilation
- when opened more than 35% air enters also from the bottom side, and the air will be directed downwards as the opening increases thus increasing the air flow to where it is the most needed.



All inlets are fit with built in metal wire grill, and are made with multiple sizes to answer all needs. The most used models for poultry farms are the 145-VFG and the 3000-VFG



145-VFG



3000-VFG



For tunnel ventilation and cooling pad openings the V6000 will provide a low cost and low energy consuming solution with a construction very easy to install and maintain. This system will also ensure thermo insulation, a long service life with minimum maintenance, characteristics that are not provided by any curtain system.



# Ventilation System

