

SVEA VENTILATION

Mechanical and controlled Natural ventilation



Your supplier of professional agricultural equipment



Air inlets

Sveaverken's air inlets are manufactured from insulating and freon-free polyurethane foam. The features and functions of our inlets are shown in the product guide below. Inlets with cooling position can direct the air stream directly down towards the animals to obtain efficient cooling in the summer. Choose air inlet with regard to how the air is supplied. Fresh air can be supplied directly from the attic, through the walls or through a duct in the roof.



Product	CX850 & CX1100	FV 1200	Svea Duct
Description	Approved inlet for most buildings	High capacity wall inlet	Flexible duct system with uniform distribution
Capacity	850 m ³ /h or 1100 m ³ /h at 10 pa	1200 m ³ /h at 20 Pa	300 m ³ /h or 600 m ³ /h at 10 Pa
Cooling position	-	Yes	Yes
Mounting	Ceiling	Wall	Wall or ceiling

Control units

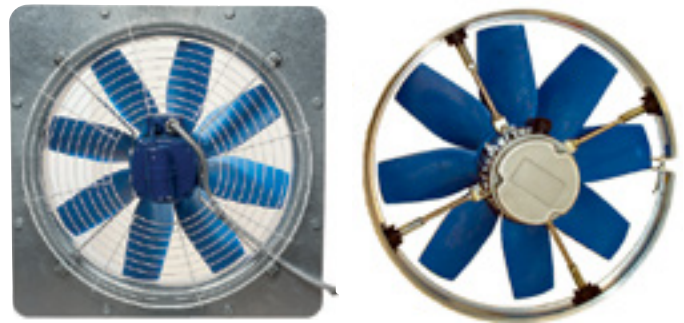
The control unit is the brain of the ventilation system. This is where fans, heating and air inlets are regulated in order to provide a comfortable indoor climate for the animals.

Sveaverken have a simple control unit, which regulates fans with regard to temperature, as well as an advanced climate control computer, which regulates both fans and air inlets with regard to indoor and outdoor temperature, humidity and stocking rate.



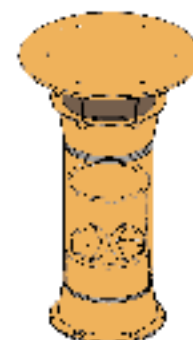
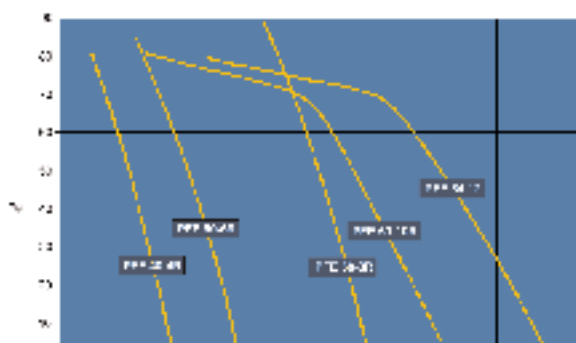
Fans and exhaust ducts

Sveaverken have great expertise and experience of fans. We have fans for all types of animal buildings, large or small. Fans are available in four sizes, five capacities and three designs. Our fans have low energy consumption and are designed to withstand the tough conditions in animal buildings. In the product range guide, the capacity of the fans is given at 20 and 60 Pa counter pressure. If the capacity at 60 Pa is used to design the exhaust system, a safety margin is obtained for the capacity reduction caused by throttle valves, sound dampers and contamination. If the fan is to be used in an installation with long ducts, it may be necessary to use an even higher counter pressure.



- Our fans are available in three designs
- Wall fan with guard screen
 - Exhaust duct with fan
 - Fan with expander mount for round ducts (for retrofitting of existing ducts)

Fan type	Motor				Capacity, m ³ /h		Type		
	Type	A	W	W/1000m ³ at 20 Pa	20 Pa	60 Pa	Exhaust unit	Wall	Expander
PFE 40-4R	1-phase	1,25	150	49	4 300	3 400	Yes	Yes	Yes
PFE 50-6R	1-phase	1,25	150	40	5 500	4 500	Yes	Yes	Yes
PFE 50-8R	1-phase	2,1	300	50	8 700	7 600	Yes	Yes	Yes
PFE 60-10R	1-phase	2,0	220	36	10 200	8 200	Yes	Yes	Yes
PFE 64-12R	1-phase	2,9	370	44	12 000	10 000	Yes	-	-
PFE 64-12	3-phase	1,35	370	42	12 500	10 200	Yes	-	-



Controlled natural ventilation

System PrimaKlim

System Primaklim is designed to take maximum advantage of the pressure difference caused by the thermal buoyancy effect. Large ridge ventilators offer little resistance to the warm air leaving the building. The wall inlets are designed to maximise control of air distribution in the building. The control unit regulates ridge ventilators and wall inlets with regard to inside and outside temperature, wind direction and wind speed. In order for the system to work well it should be installed in an open hall building without dividing walls. The roof pitch should be between 15°-30°.

- 1- Wall inlet
- 2- Ridge ventilator
- 3- Mini truss
- 4- System OPEN, Panels
- 5- System OPEN, Chimney

