Low Pressure / Wall Inlet

System Description

Description
The low pressure system is used in pig houses with exhaust through the roof and air inlet through the wall.

The system operates with a low pressure independently of type of house and width.

Components
- Exhaust Ø600 or Ø800 to install in the roof
- Air inlet through wall inlets - type WI.
- The capacity of the fan (in the exhaust) depends on number of animals.
- Controller - PigCenter/PigMaster which is capable of controlling all kinds of pig houses.
- To control the dampers in the exhaust and valves in the wall inlets, a Linak actuator or a neptronic 2060/4060 is to be used.
- The star diffusors and the dampers are connected with stainless steel wire and piano string, which are very resistant to influence by heat and coldness.

Function
The system will always operate with a low pressure depending on type and width of the house, typically up to 10 Pa.
When the system is controlled by PigCenter/PigMaster, all the fans will operate infinitely variable and will be single-phased, but the temperature and humidity will be regulated effectively with the PigCenter/PigMaster.
The dampers in the exhaust and the valves in the wall inlets are each controlled by a damper motor to achieve correct low pressure.

Advantages
- Exhaust up to 800 mm with high capacity.
- Roof exhaust cast in black or grey polypropylene.
- Air inlet: wall inlets in different depths to different wall thicknesses.
- Materials, which are easy to clean, stands up to high pressure cleaning.
- Separate controlling of the dampers in the exhaust and valve flaps.
- Emergency opening of all types.
- Double adjusting damper on air inlet.

Capacities

Capacity Ø600:

							Output by				Power W
Part no.	**Motor W**	**rpm**	**Fan**	**Voltage**	**Capacitor**	**Max.A**	**-20 Pa**	**-10 Pa**	**0 Pa**	**10 Pa**	**0 Pa**
98-746-3	80	900	10/25	230	4	0,8	4600	5100	5550	6000	164
98-746-4	80	900	5/35	230	4	0,8	6330	6930	7530	8000	167
98-746-5	180	900	10/30	230	10	1,7	6300	6600	7000	7400	299
98-746-6	180	900	10/35	230	10	1,7	6700	7300	8000	8300	289
98-746-7	180	900	10/40	230	10	1,7	9070	9640	10070	10500	351
98-746-8	250	900	10/45	230	12	2,3	10570	11120	11680	12180	433
Fan with induction frequency converter											
98-746-15	180	900	10/35	3x230*		1,32	8030	8370	8690	8930	245

Capacity Ø800:

							Output by				power W
Part no.	**Motor W**	**rpm**	**Fan**	**Voltage**	**Capacitor**	**Max.A**	**-20 Pa**	**-10 Pa**	**0 Pa**	**10 Pa**	**0 Pa**
98-746-11	370	900	5/30	230	20	3	15240	15850	16460	17190	539
98-746-10	370	900	5/35	230	20	3	17230	17950	18650	19580	595
98-746-13	430	900	5/35	3x400		3x1.3	18290	19140	19820	20410	584
98-746-12	550	900	5/40	230	25	4	19540	20500	21380	21820	834
Fan for induction frequency converter											
98-746-16	430	900	5/30	3x230*		2,42	14960	15750	16400	16860	418
98-746-17	430	900	5/35	3x230*		2,42	17310	18290	18980	19400	578

Output wall inlet:

Wall inlet depth	**150 mm**	**260 mm**	**350 mm**
Cap. m3/h at complete open			
-10Pa	1330	1410	1420
Cap. m3/h at complete open			
-20Pa	1860	2020	2030