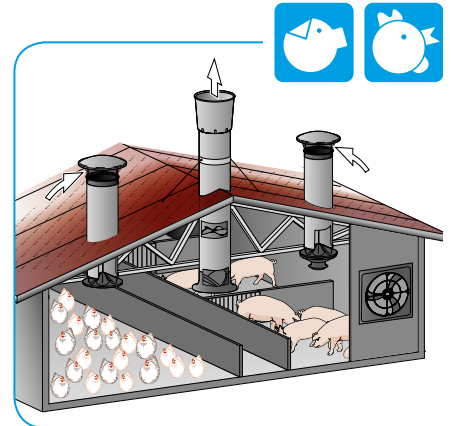




## Exhaust air duct with Ø 370 (14,5) to 1,270 mm (50 inch) - easy to assemble, flow and energy efficient



### ADVANTAGES

- Large selection of duct diameters from 370 (14,5) to 1,270 mm (50 inch)
- Air capacity from 5,000 (2,900) up to 52,000 m<sup>3</sup>/h (30,600 cfm)
- Sound reduction up to 5 dB(A), with the REVENTA® duct silencer up to 12 dB(A)
- Perfect insulation of 0.022W/mK to avoid condensation
- Covering layers made from reinforced polyester, chemical resistant and easy to clean
- Extensive components programme

The contaminated stable air is optimally transported outside with the proven REVENTA® ventilation system. Irrespective of the individual farm size, the REVENTA® meets all requirements for an efficient exhaust air system. That saves energy and provides for animal-friendly climate.

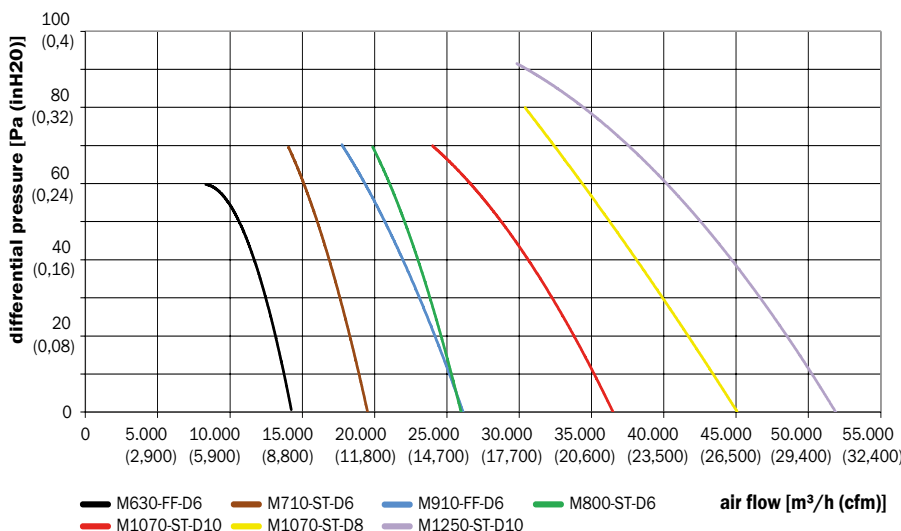
The ducting system is comprised of a „sandwich construction“ with highly insulated polyurethane rigid foam in the core and a hard GRP outer and inner coating. Perfect insulation impedes the formation of condensation water.

The air duct is available in lengths of 1,000 mm

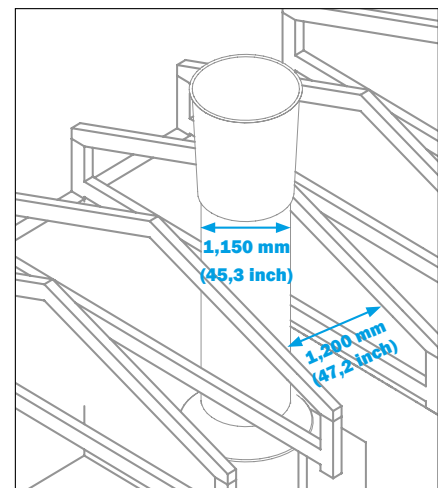
(39,4 inch) and 1,500 mm (59,1 inch). At 1,500 mm (59,1 inch), fewer adhesive joints are required, which shortens the installation process. In addition to our extensive duct portfolio, scope of service includes the most important components for efficient exhaust air conveyance:

- Diffusers
- Roofing panels
- Economical fans as module cartridge
- Module seal flaps
- Intake nozzles, etc.

### Air capacities, exhaust air duct Ø 650 (29,6), Ø 730 (28,7), 820 (32.3), 920 (36.2), 1,090 (42.9) and 1.270 mm (50 inch)



Dimensions in mm (inch). Further flow volume diagrams on request.



Pipe diameter 1,090 mm (42,9 inch) fits perfectly between the trusses.



## A modular system with great capacity and energy balance!

The contaminated stable air is optimally transported outside with the proven REVENTA® ventilation system. That saves energy and provides for animal-friendly climate.

»Module fan« rotary current	Module interior diameter	Air flow at 0 Pa	Capacity / V at 0 Pa
M500-ST-D4	Ø 520 mm (20,5 inch)	9,100 m³/h (5,400 cfm)	49.0 [W/(1,000m³/h)]
M560-ST-D6	Ø 580 mm (22,8 inch)	10,000 m³/h (5,900 cfm)	—
M630-FF-D6	Ø 650 mm (25,6 inch)	14,200 m³/h (8,400 cfm)	34.9 [W/(1,000m³/h)]
M710-ST-D6	Ø 730 mm (28,7 inch)	19,500 m³/h (11,500 cfm)	35.7 [W/(1,000m³/h)]
M800-ST-D6	Ø 820 mm (32,3 inch)	26,000 m³/h (15,300 cfm)	39.7 [W/(1,000m³/h)]
M910-FF-D6	Ø 920 mm (36,2 inch)	26,100 m³/h (15,400 cfm)	30.8 [W/(1,000m³/h)]
M910-FN-D6	Ø 920 mm (36,2 inch)	28,400 m³/h (16,800 cfm)	36,9 [W/(1,000m³/h)]
M1070-ST-D8	Ø 1,090 mm (42,9 inch)	45,100 m³/h (26,500 cfm)	33.4 [W/(1,000m³/h)]
M1070-ST-D10	Ø 1,090 mm (42,9 inch)	36,500 m³/h (21,500 cfm)	31.3 [W/(1,000m³/h)]
M1250-ST-D10	Ø 1,270 mm (50 inch)	52,300 m³/h (30,800 cfm)	37.1 [W/(1,000m³/h)]

»AGROFLEX®« – duct (3 m /10 feet) with PU intake nozzle, diffuser and shutter

SI = Sickle-shaped impeller FF = Owlet impeller W = 230V/50Hz 4/6/8 = Number of pole pairs  
ST = Standard impeller FN= Owlet sickle impeller D = 400V/50Hz

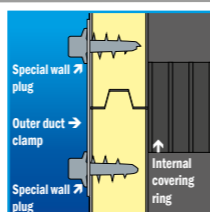
### The duct system »AGROFLEX®« 1



The »AGROFLEX®« duct system comprises of a "sandwich construction" with a highly insulated polyurethane rigid foam at the core and a rigid GRP exterior and interior coating. It is available in the lengths 1,000 mm (39,4 inch) and 1,500 mm (59 inch) and duct diameters 370 (14,6 inch) to 1,270 mm (50 inch).

- Air capacity: 5,000 – 52,000 m³/h (2,900 – 36,600 cfm) [0 Pa]
- Lengths 1,000 mm (39,4 inch) and 1,500 mm (59 inch)
- No condensation
- Easy to install
- Hygienically cleaned easily
- Safety through the »Pro assembly kit«

### 2 Pro assembly kit

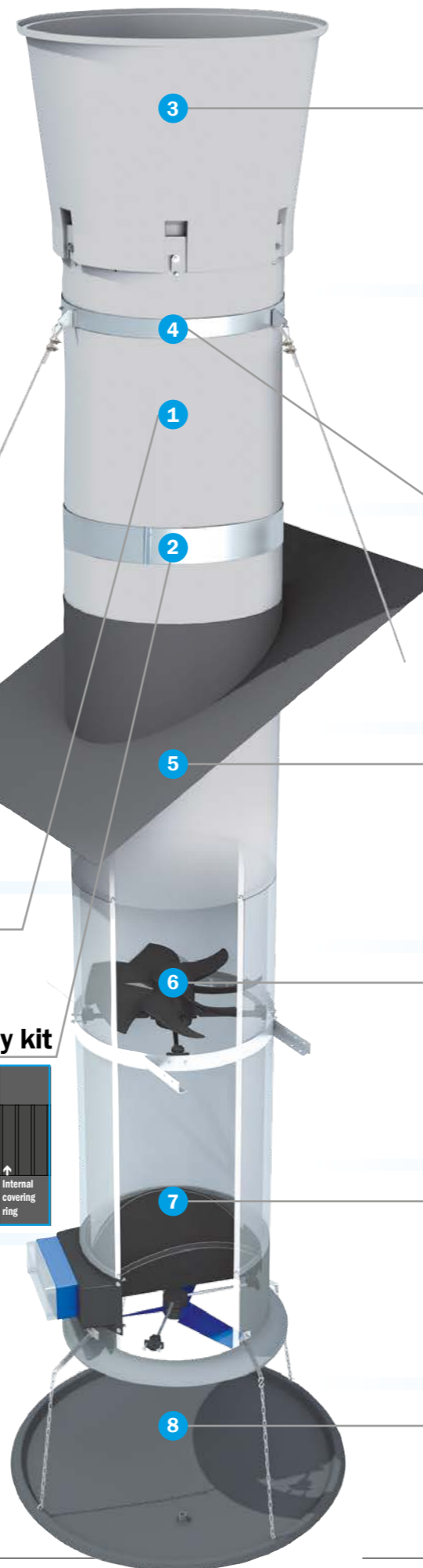


### The duct system »vario clip®«



That transport-optimised variant of the »AGROFLEX®« system: As half-pipe segments, the transportation volume of the pipes is reduced by more than 50%. The segments are »clipped« without additional duct clips or duct clips by means of a PVC profile.

- Safe clip connection
- Easy to assemble
- Reduction of the transport volume by up to 50%!



### 3 Intake nozzle and diffuser

The airflow is optimally guided through the diffuser and intake nozzle. In the diffuser, the new contour with integrated support points provides for an even simpler assembly.

- Increase of the air flow by up to 15%
- This means an energy saving of up to 15%



### Duct silencers

It reduces the sound pressure level demonstrably by up to 12 dB(A)! Already 3 dB(A) means a reducing the perceived loudness.

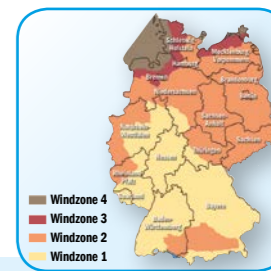
- TÜV tested
- Retrofitting in existing exhaust air duct systems possible



### 4 Anchoring ring and storm bracing

With the REVENTA® anchoring ring and the suitable bracing, each static-prescribed bracing can be implemented reliably.

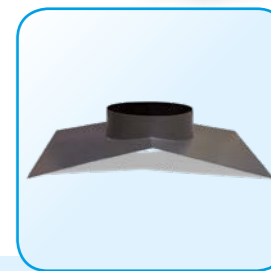
- We would be happy to support you with the precise planning and development of your respective project.



### 5 GFK roofing panel

The roofing panel made of UV-stabilised, glass fibre reinforced polyester is specifically adapted to the existing roof.

- Appropriate aesthetics and leak-tightness (approved in accordance with DIN E 12691)



### 6 »Fan module« fan cartridge

Completely pre-assembled module for duct diameters 420 – 1,270 mm (16,5 – 50 inch) / 5,000 – 52,000 m³/h (2,900 – 30,600 cfm) [0 Pa] with integrated REVENTA® fan ready for connection. Also available with integrated intake nozzle.

- Increases the air capacity
- For a reduction in costs during planning and assembly.
- Easily cleaned



### 7 Shutter module MVSK with measuring fan

As a measuring and throttling unit in the exhaust air duct. The measuring fan is universally usable on every suitable climate computer and measures the exact airflow of every exhaust air unit.

- Better climate control
- Optimal exhaust air rate
- Higher saving potential



### 8 Water collecting basin

Made of UV-stabilised, glass-fibre reinforced polyester for suspension below the air duct.



### Light trap

It reduces the penetration of daylight to a minimum.

Measurement range type	Minimum (m³/h)	Maximum (m³/h)
Ø 420 mm (16,5 inch)	250 m³/h (147 cfm)	6,000 m³/h (3,500 cfm)
to		
Ø 920 mm (36,2 inch)	1,050 m³/h (6618 cfm)	28,960 m³/h (17,000 cfm)

The measurements were performed in a REVENTA® shutter module with fully opened shutter segments. Ø 1,090/1,270 mm on request.

**Technical data »Fan module« three-phase / alternating current**

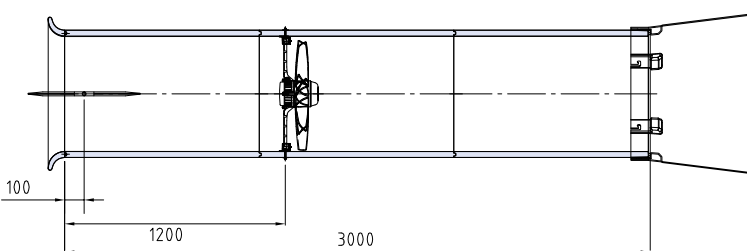
Type	Module Internal Ø	Speed revs per min	Voltage V	*Current A	**Capacity W	Air flow m³/h (cfm)						Pressure Pa (inH2O)		Capacity/V at 0 Pa [W/(1,000m³/h)]				
						0	0	30 (0,12)	30 (0,12)	50 (0,2)	50 (0,2)	80 (0,32)	max.	Fan	Duct			
<b>3-phase current</b>																		
M500-ST-D4	520 mm (20 inch)	1,360	400	1.20	530	R	AGROFLEX	R	AGROFLEX	R	AGROFLEX	R	AGROFLEX	R	AGROFLEX			
						8,300 (4,900)	9,100 (5,400)	7,800 (4,600)	8,300 (4,900)	7,500 (4,400)	7,600 (4,500)	6,800 (4,000)	4,900 / 130 Pa (2,900 / 0,52 inH2O)	53.4	49.0			
M560-ST-D6	580 mm (23 inch)	890	400	0.74	360													
						9,000 (5,300)	10,000 (5,900)	8,000 (4,700)	8,800 (5,200)	7,100 (4,200)	7,600 (4,500)	–	5,700 / 70 Pa (3,400 / 0,28 inH2O)	40.0	–			
M630-FF-D6	650 mm (26 inch)	930	400	1.25	540													
						12,300 (7,200)	14,200 (8,400)	11,100 (6,500)	12,500 (7,400)	10,200 (6,000)	10,600 (6,200)	–	7,400 / 78 Pa (4,400 / 0,31 inH2O)	39.3	34.9			
M710-ST-D6	730 mm (29 inch)	890	400	1.80	890													
						17,000 (10,000)	19,500 (11,500)	15,800 (9,300)	17,600 (10,400)	14,800 (8,700)	16,000 (9,400)	13,100 (7,700)	11,000 / 110 Pa (6,500 / 0,44 inH2O)	40.9	35.7			
M800-ST-D6	820 mm (32 inch)	900	400	2.90	1,300													
						22,900 (13,500)	26,000 (15,300)	21,400 (12,600)	23,900 (14,100)	20,300 (11,900)	22,000 (12,900)	18,700 (11,000)	14,200 / 125 Pa (8,400 / 0,5 inH2O)	45.0	39.7			
M910-FF-D6	920 mm (36 inch)	880	400	1.90	920													
						23,500 (13,800)	26,100 (15,400)	20,900 (12,300)	23,100 (13,600)	19,100 (11,200)	20,700 (12,200)	15,600 (9,200)	12,500 / 95 Pa (7,400 / 0,38 inH2O)	35.5	30.8			
M910-FN-D6	920 mm (36 inch)	840	400	4.00	1,950													
						24,800 (14,600)	28,400 (16,700)	22,500 (13,200)	26,300 (15,500)	21,100 (12,400)	24,700 (14,500)	18,800 (11,100)	11,500 / 139 Pa (6,800 / 0,56 inH2O)	42.3	36.9			
M1070-ST-D8	1,090 mm (43 inch)	700	400	3.60	1,600													
						–	45,100 (26,500)	–	39,900 (23,500)	–	36,300 (21,400)	–	–	–	–	–	–	33.4
M1070-ST-D10	1,090 mm (43 inch)	540	400	3.20	1,300													
						–	36,500 (21,500)	–	32,300 (19,000)	–	28,800 (17,000)	–	–	–	–	–	–	31.3
M1250-ST-D10	1,270 mm (50 inch)	500	400	4.50	2,200													
						46,100 (27,100)	52,300 (30,800)	41,700 (24,500)	46,200 (27,100)	38,900 (22,900)	42,500 (25,000)	33,100 (19,500)	29,600 / 90 Pa (17,400 / 0,36 inH2O)	42.1	37.1			
<b>Alternating current</b>																		
M500-ST-W4	520 mm (20 inch)	1,310	230	2.70	510													
						8,000 (4,700)	8,700 (5,100)	7,400 (4,400)	7,900 (4,600)	7,000 (4,100)	7,300 (4,300)	6,500 (3,800)	5,000 / 115 Pa (2,900 / 0,46 inH2O)	52.4	48.2			
M560-ST-W6	580 mm (23 inch)	880	230	1.95	430													
						8,900 (5,200)	9,900 (5,800)	8,000 (4,700)	8,600 (5,100)	7,100 (4,200)	7,200 (4,200)	–	5,800 / 70 Pa (3,400 / 0,28 inH2O)	48.3	–			
M630-FF-W6	650 mm (26 inch)	890	230	2.50	520													
						12,200 (7,200)	13,900 (8,200)	10,700 (6,300)	12,400 (7,300)	9,700 (5,700)	10,500 (6,200)	–	6,000 / 74 Pa (3,500 / 0,3 inH2O)	40.2	35.8			
M710-ST-W6	730 mm (29 inch)	850	230	4.10	890													
						16,100 (9,500)	18,500 (10,900)	15,000 (8,800)	16,600 (9,800)	14,000 (8,200)	14,800 (8,700)	12,000 (7,100)	10,900 / 95 Pa (6,400 / 0,38 inH2O)	44.7	38.8			
M800-ST-W6	820 mm (32 inch)	830	230	7.00	1,350													
						23,000 (13,500)	25,600 (15,100)	21,200 (12,500)	22,900 (13,500)	20,000 (11,800)	20,600 (12,100)	18,100 (10,700)	12,100 / 115 Pa (7,100 / 0,46 inH2O)	43.7	39.3			
M910-FF-W6	920 mm (36 inch)	940	230	4.20	940													
						22,800 (13,400)	25,300 (14,900)	19,700 (11,600)	22,000 (12,900)	17,500 (10,300)	18,600 (10,900)	13,400 (7,900)	11,900 / 88 Pa (7,000 / 0,35 inH2O)	38.4	33.5			

\* Rated current at the separation point of the fan characteristic curve; \*\* Rated power consumption  
**R = Frame fan measured in full duct without contact protection, version A per ISO 5801**

SI = Sickle-shaped impeller FF = Owllet impeller W = 230V/50Hz 4/6/8 = Number of pole pairs  
 ST = Standard impeller FN = Owllet sickle impeller D = 400V/50Hz

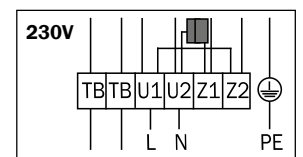
»AGROFLEX«®; measured in accordance with drawing below  
 Technical data for »AGROFLEX«® - exhaust air duct Ø 420 mm (16,5 inch) on request.

**»AGROFLEX«® – duct (3 m / 9,8 ft) with PUR intake nozzle, diffuser and shutter**



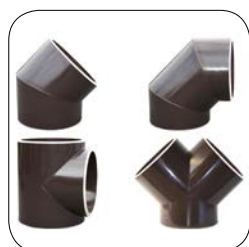
Tested on the certified REVENTA® test bench

**Connection circuit diagram**



1 ~ Motor with operating capacitor U1 brown / U2 blue / Z1 black / Z2 orange

**„Extras + accessories“**



Formed pieces/curve



Light trap



Duct silencers



PU adaptor ring Transition "Full duct" to AGROFLEX® and »vario-clip«



Shutter module with measuring fan

**Do you have any questions or do you require advice concerning your own projects? – We shall be happy to assist you:**