



Selection assistance - fans and controllers

3-phase, 400V fans

With the selection assistance you can calculate the number of fans required for your desired air flow and controls.

Type	Module Internal Ø	Speed revs per min	Voltage V	* Current A	** Capacity W	Air flow (m³/h) Pressure (Pa) 0	Air flow (m³/h) Pressure (Pa) 30	Capacity/V at 0 Pa [W/(1,000m³/h)]
M500-ST-D4	520	1,360	400	1.20	530	9,080	8,260	49.0
M630-ST-D6	650	910	400	1.40	580	14,150	12,580	33.6
M710-ST-D6	730	890	400	1.80	890	19,480	17,630	35.7
M800-ST-D6	820	900	400	2.90	1,300	25,950	23,850	39.7
M910-SI-D6	920	890	400	1.95	960	26,860	24,090	31.8
M910-SI-D6-5	920	840	400	2.60	1,300	28,420	26,300	36.9
M1070-ST-D8	1,090	700	400	3.60	1,600	45,080	39,930	33.4
M1070-ST-D10	1,090	540	400	3.20	1,300	36,500	32,250	31.3
M1250-ST-D10	1,270	500	400	4.50	2,200	52,330	46,230	37.1

* Rated current at the separation point of the fan characteristic curve / ** Rated power consumption
 »AGROFLEX«: Duct (3 m) with PU intake nozzle, diffuser and shutter

Required:

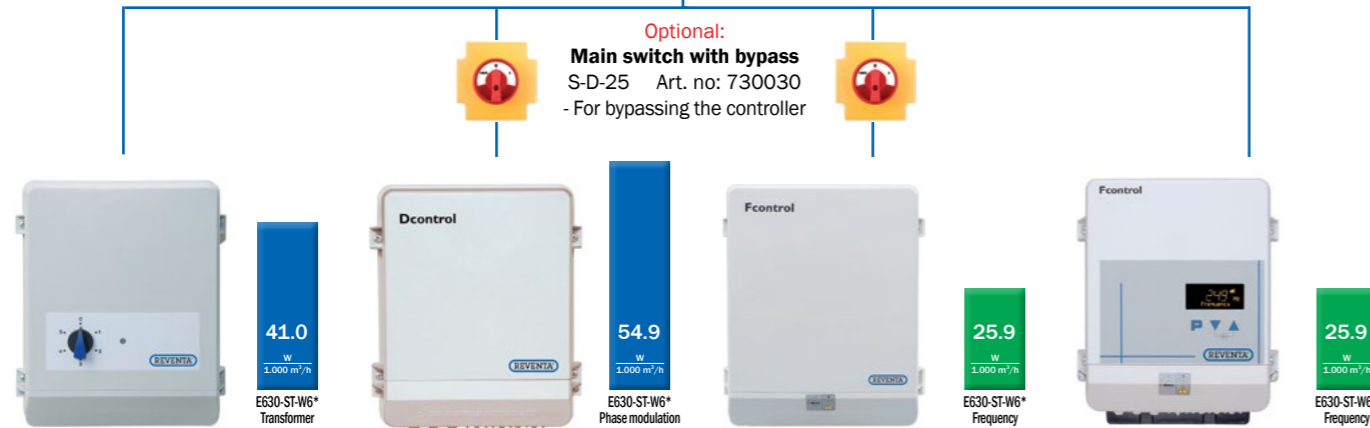
- Motor protection device RST 3~400V RSTD16 without housing, art. no: 702200
- RSTD16 with housing, art. no: 702205
- RSTD25 without housing, art. no: 702210
- RSTD25 with housing, art. no: 702215
- (one motor protection device per fan)



Example:

Air flow required: 100.000 m³/h (100.000 : 32.250)
 Fan: M1070-ST-D10 = 3 units.
 Total current: 3 fans x 3,2 A = 9,6 A
 Select the size of controller required based on the calculated current. (1x 10A)
 Solution: 1 x frequency controller type FXDM10AM (most energy efficient solution)

Optional:
 Main switch with bypass S-D-25 Art. no: 730030
 - For bypassing the controller



Transformer controllers
 3~ 400V

Type	Art. no.	A
R-DT2KTG	731720	2
R-DT3KTG	731730	3
R-DT5,2KTG	731740	5,2
R-DT14KTG	731750	14

- Manual mode
- Thermostatic switch
- External control

Phase controlled modulation
 3~ 400V

Type	Art. no.	A
PKDM5	731320	5
PKDM10	731330	10
PKDM12	731340	12
PKDM15	731350	15

- External control 0-10V

Frequency controllers
 3~ 400V without regulation

Type	Art. no.	A
FXDM5M	731130	5
FXDM8M	731140	8
FXDM10M	731145	10
FXDM14M	731150	14
FXDM18M	731160	18

- External control 0-10V

Frequency controllers
 3~ 400V with regulation

Type	Art. no.	A
FXDM2,5AM	730120	2,5
FXDM5AM	730130	5
FXDM8AM	730140	8
FXDM10AM	730145	10
FXDM14AM	730150	14
FXDM18AM	730160	18

- Multifunction display
- External control 0-10V
- Temperature sensor
- Manual Mode

Climate computer

* Specific power consumption at 60% partial load of 30 Pa (measured in full bell mouth without protection in installation type A according to ISO 5801)

Do you have any questions or do you require advice concerning your own projects? – We shall be happy to assist you:
 REVENTA GmbH & Co. KG | Im Gewerbegebiet 3 | D-48612 Horstmar | Tel: +49 (0) 25 58 / 93 92 0 | www.reventa.de

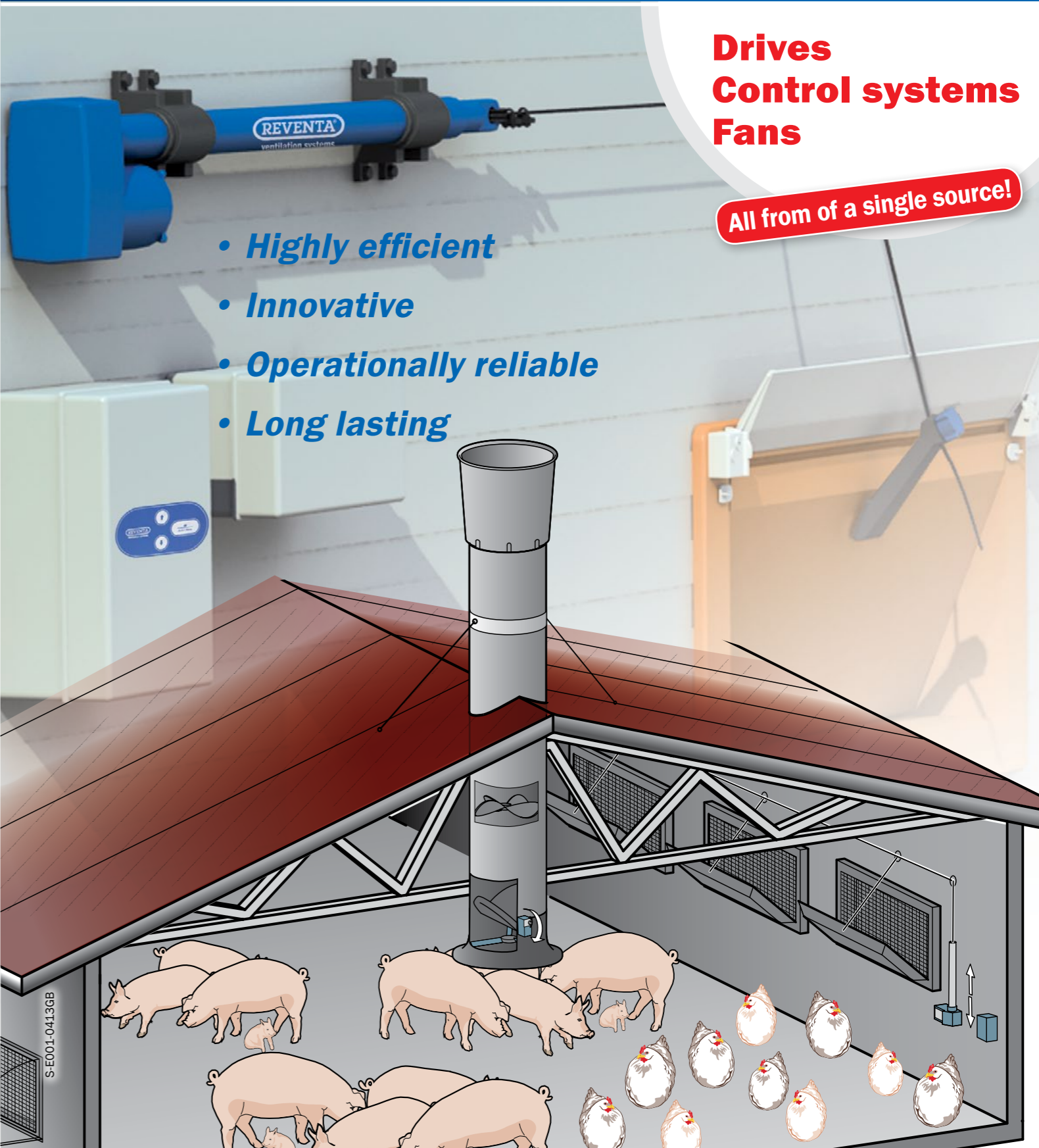


Automatic and control devices for perfect climate in the stable



Drives Control systems Fans

All from of a single source!



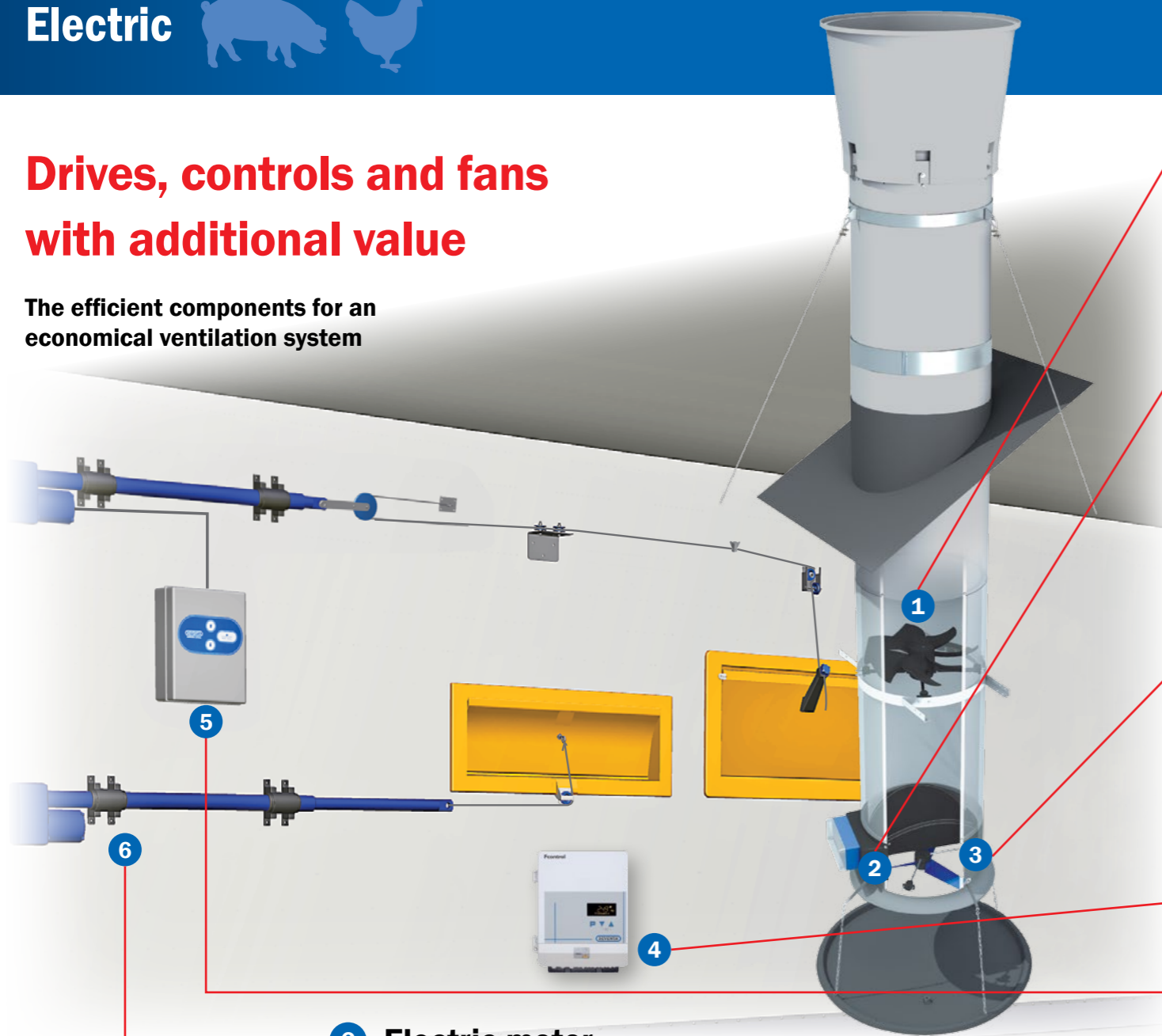
- Highly efficient
- Innovative
- Operationally reliable
- Long lasting

S-E001-0413GB



Drives, controls and fans with additional value

The efficient components for an economical ventilation system



1 Fans »Fan module«

»Fan module« 230V single-phase
»Fan module« 400V three-phase
Completely pre-assembled module with finished ZIEHL-ABEGG fan ready for connection. Also available with integrated intake nozzle.

- Good mechanical characteristics, high insulation value
- Easily cleaned
- High-performance fan



2 Actuator

The actuator drives shutter in the ventilation duct according to the input of the climate computer. The brush-less actuators of REVENTA® are maintenance-free and are distinguished by high operational reliability. Available in the configurations 24V/230V - with an additional protective housing, a maximum degree of protection (IP66) is possible.

- 0 - 10V actuation possible
- Direction of rotation freely selectable
- Manual adjustment possible with a push button
- Additional protective housing (IP66)



3 Measuring fan

In order to accurately ascertain the actual volume of exhaust air transported, the shutter module can be optionally equipped with a smooth-running measuring fan. This facilitates more precise, requirement-orientated control of the stable climate.

- Optimisation of the exhaust air rate according to the actual flow capacity
- Optimisation of the heating control
- Greater potential savings



4 Controls for fans

When selecting fan systems the efficiency - i.e. the power consumption - plays a central role. REVENTA® offers different control systems for the regulation of fans:

Transformer controllers
The speed of voltage adjustable fans can also be controlled by means of transformers.

Frequency controllers
Frequency controllers are used for the silent and economical speed control of fans. Frequency controllers are energy-efficient and preserve the motor.

- Easy to install
- Insensitive to mains fluctuations
- Low network disturbance

Triac controls
Simple and economical device for controlling the capacity and speed of fans.



6 Electric motor



Electro-cylinders offer excellent functionality combined with high operational assurance. Due to their robust design, these cylinders are particularly well suited for use in animal stables. In addition to controlling wall air inlets and fresh air distributors, they can also be used in place of a winch.

Stroke way optimally designed for the REVENTA® products, doubling of the stroke way by means of a pulley for ropes up to 5 mm.

- Installation in damp and dusty environments possible due to protective class IP54
- Maintenance-free

Model variants:

Electric motor	Volt	Stroke
LR 3000 V4	230V	450 mm
LR 3000 V5	230V	650 mm
LR 3000 V6	24V	450 mm
LR 3000 V7	24V	650 mm

5 Motor control, position indicator, transformer Emergency power supply

Motor control SLRK
For the conversion of the output signals of a climate computer for drives with feedback potentiometer.

Transformer 230V AC/24V DC
In order to drive the electric motor with a voltage of 24V DC, an external 230V transformer is required

Position indicators SST and SLR
For the simple manual control of constantly regulated actuators and electro-cylinders.

Emergency power supply
The emergency power supply bridges the supply voltage in case of power loss.

