

# Batch driers

## model 2000 and 3000

Svegma batch driers have gained their good reputation thanks to their efficient and economical drying. The design of the lateral system is the reason to this. In the first place, the laterals are tapered. This design results in an even airflow through the whole grain column. In the second place, the laterals are closely placed (25 cm between laterals). It is slightly more expensive, but gives in return much more homogeneous drying. Closely placed laterals means a large flow area and a low air speed through the grain. Thanks to the low air speed, there is plenty of time for the air to get saturated with water. Practical tests have shown that at a lateral distance of 25 cm, the relation between saturation efficiency and the supply of heat is the most favourable.

### Easy to erect

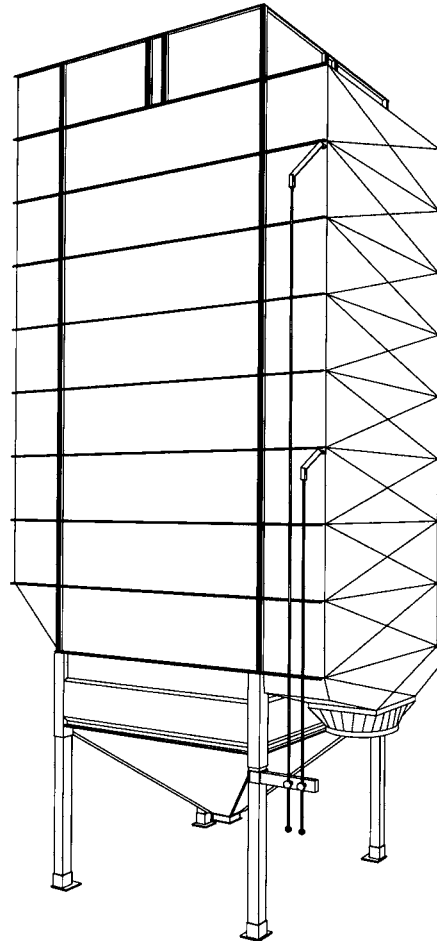
The Svegma batch driers are delivered in structural elements, ready for erection. This makes it as easy to erect the drier for example in an existing building. Thanks to the precision engineered components, the erection is simple. You can assemble all the components yourself, quickly and easily, with nuts and bolts.

### Smooth internal grain column

No bolt heads or flanges at lateral/end panel connections or half lateral fixings, giving smooth even flow of crop down the column, ensuring even drying with no hold up; essential when drying seed grain

### Even drying thanks to the discharge unit

All Svegma batch driers are delivered with discharge units fitted with shutters. These units prevent the grain from running down into the hopper before it is dried. Therefore, You can always be sure that the whole



batch gets thoroughly dried, which means good quality. The doors in the discharge unit are the full width of the grain column, and they are easily operated from outside. At water contents above 30 % You may benefit from moving some grain out of the drier and back into the top by opening the discharge unit after time drying time, and by that obtain a mixing of the grain. By doing this the drying process is speeded up, and You are able to dry very wet batches of grain in one go without having to circulate the whole batch. This procedure is only possible with a drier equipped with a discharge unit. The elevator is not fully occupied, it is time saving and money saving.

Manufactured by

**AB AKRON-maskiner**

**SE-531 04 JÄRPÅS, SWEDEN**

Tel. +46(0)510-914 00 Fax. +46(0)510-916 49

### All galvanized

The whole drier is galvanized, even the discharge unit, for total protection indoors as well as outdoors. The results are minimum maintenance costs and a long working life.

### Strong construction and precision engineered

Extremely strong bolted construction method using only half metre high panels with no spot welded stiffeners ensures a robust and long lifespan drier. Computer controlled production machinery produces accurately made components enabling quick trouble free assembly.

### Inspection hatches in the right places simplifies control and cleaning

To enable easy control and cleaning, all the Svegma driers have inspection hatches in all the right places. You find them on top of the hot air plenum, in the bottom of the wet air plenum and on the hopper. The advantages are a good working environment and that inspection and cleaning really get carried through. Hatches along the drier section for inspection of the laterals is optional.

### Optional leg length

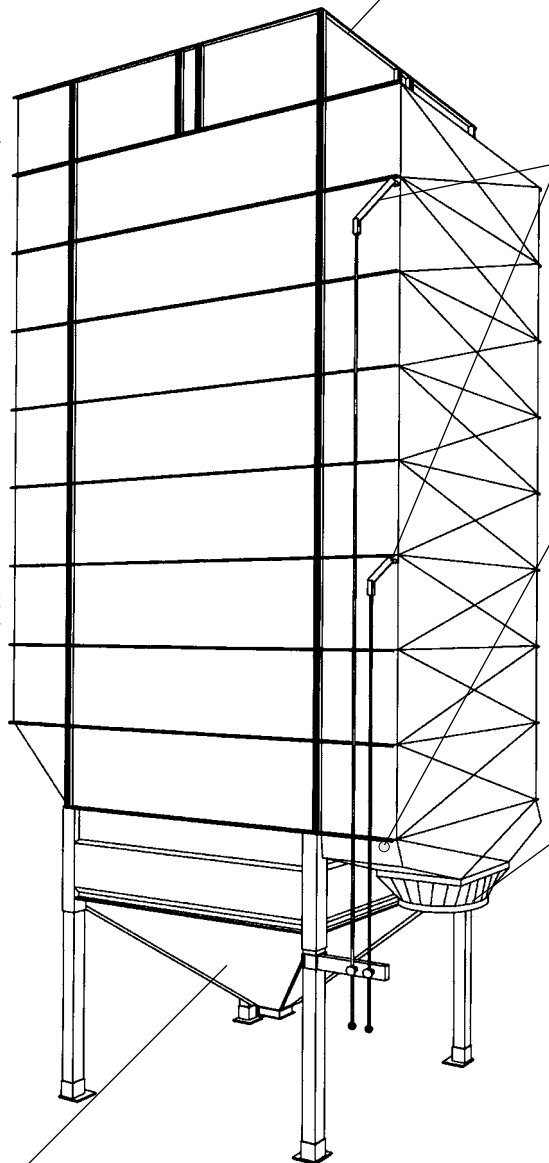
Discharge height below the slide is optional (standard 450 mm). Therefore, lack of room in terms of high unloading augers or low buildings do not necessarily mean problems.

### Complete hopper with inspection hatch, slide and connection stub

To keep the transport costs low the hopper is delivered in parts and is screwed together on site with nuts and bolts. One of the hopper sides is equipped with an inspection hatch, and the bottom of the hopper with a slide and stub 200 x 200 mm.

### We can tailor make the drier to suit your requirements

Svegma batch driers are designed on a modular basis (525 mm high) that are fitted together, giving rational production and greater flexibility. The driers are produced in two models with different section widths. These characteristics mean that You can always find a model that fits your requirements in terms of capacity, dimensions and price.



### The buffer section keeps the drier filled

Svegma batch drier have as standard a buffer section. It prevents hot air from leaking out, which otherwise can be the case as the volume of grain shrinks during drying. Extra buffer sections are optional.

### Shutters in the hot air plenum for small batches

Sometimes smaller batches need to be dried. To avoid hot air losses the hot air plenum must be shut below the grain level in the column. Svegma batch driers have one or two shutters, depending on drier size, easily operated from ground level. Shutters save time and money.

### Thermometer monitoring hot air temperature

Svegma batch driers are delivered as standard with hot air thermometers easily read from ground level. For good drying economy.

### Hot air connections for standard ducting

The driers have as standard hot air connections to suit ducting in standard dimensions. You can buy the ducting from us.

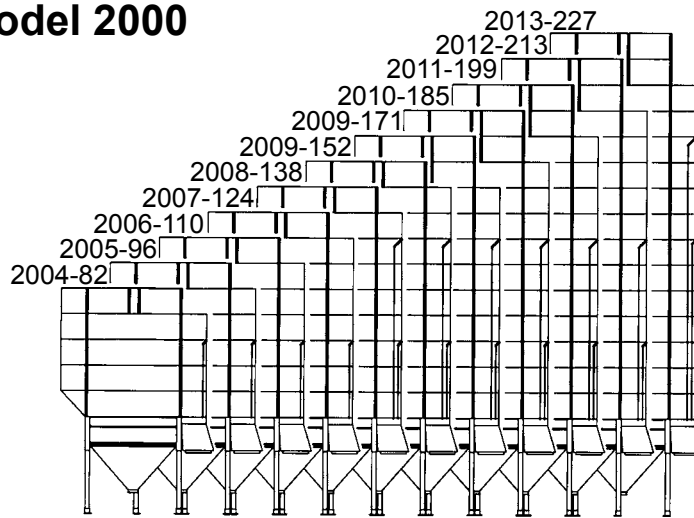
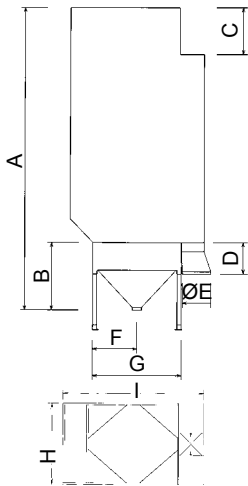
### Well proven driers

The history of Svegma driers goes back to the early 50's. The basic design of the drier has not changed, making the Svegma a well proven and reliable drier.

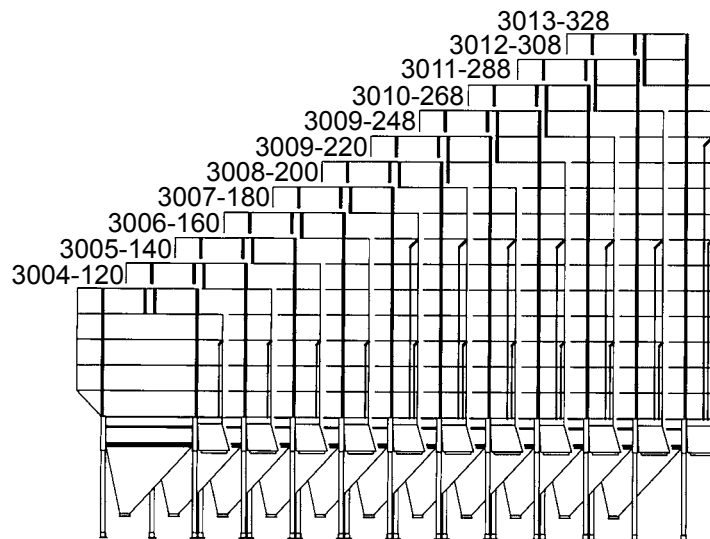
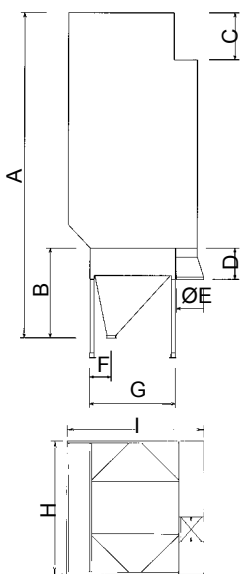
### Long list of accessories

Beside all the standard equipment mentioned above, You can equip your drier with various forms of exhaust air connections, buffer sections, roofs and outlet stubs. The Svegma batch drier can also be automated in different ways, and two driers of model 2000 can be connected to form a double drier.

## Model 2000



## Model 3000



### Drying capacity:

| Max. cap. for clean wheat 4% moisture extraction (20-16%) |                      |                       |
|---|----------------------|-----------------------|
| Heater model  | Incoming grain ton/h | Evaporated water kg/h |
| 815   | 3,5                  | 141                   |
| 817   | 3,5                  | 141                   |
| 1207  | 4,8                  | 192                   |
| 1707  | 5,9                  | 234                   |
| 1710  | 7,3                  | 290                   |
| 21X2  | 8,7                  | 350                   |
| 25X2  | 9,0                  | 427                   |
| 3025  | 17,6                 | 840                   |

### Dimensions:

\* First indirect heater is recommended.

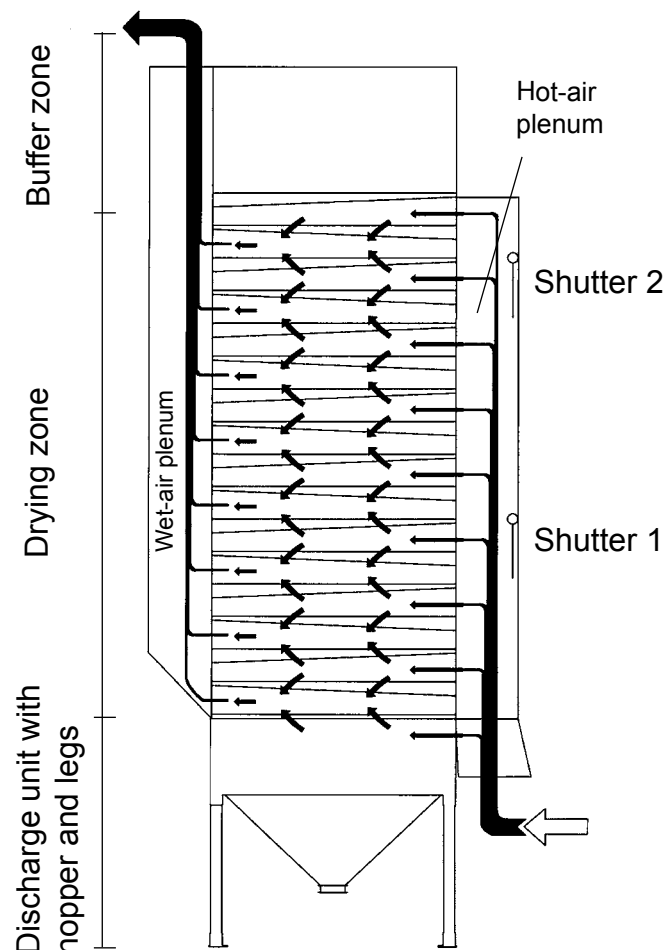
| Type     | Vol. (m³) | Suitable Akron indirect heater* | Dimensions (mm) |      |      |     |     |     |      |      |      |
|----------|-----------|---------------------------------|-----------------|------|------|-----|-----|-----|------|------|------|
|          |           |                                 | A               | B    | C    | D   | E   | F   | G    | H    | I    |
| 2004-82  | 8,2       | 815, 817                        | 4125            | 1500 | 525  | 710 | 630 | 990 | 1980 | 1982 | 2980 |
| 2005-96  | 9,6       | 817, 1207                       | 4650            | 1500 | 525  | 710 | 630 | 990 | 1980 | 1982 | 2980 |
| 2006-110 | 11,0      | 1207                            | 5175            | 1500 | 525  | 710 | 630 | 990 | 1980 | 1982 | 2980 |
| 2007-124 | 12,4      | 1207, 1707                      | 5700            | 1500 | 525  | 710 | 630 | 990 | 1980 | 1982 | 2980 |
| 2008-138 | 13,8      | 1707, 1710                      | 6225            | 1500 | 525  | 710 | 630 | 990 | 1980 | 1982 | 2980 |
| 2009-152 | 15,2      | 1710                            | 6750            | 1500 | 525  | 710 | 630 | 990 | 1980 | 1982 | 2980 |
| 2009-171 | 17,1      | 1710                            | 7275            | 1500 | 1050 | 710 | 630 | 990 | 1980 | 1982 | 2980 |
| 2010-185 | 18,5      | 1710, 21X2                      | 7800            | 1500 | 1050 | 710 | 630 | 990 | 1980 | 1982 | 2980 |
| 2011-199 | 19,9      | 21X2, 1710                      | 8325            | 1500 | 1050 | 710 | 630 | 990 | 1980 | 1982 | 2980 |
| 2012-213 | 21,3      | 21X2                            | 8850            | 1500 | 1050 | 710 | 630 | 990 | 1980 | 1982 | 2980 |
| 2013-227 | 22,7      | 25X2                            | 9375            | 1500 | 1050 | 710 | 630 | 990 | 1980 | 1982 | 2980 |
| 3004-120 | 12,0      | 1207,                           | 4625            | 2000 | 525  | 710 | 630 | 500 | 1980 | 2930 | 2980 |
| 3005-140 | 14,0      | 1207, 1707                      | 5150            | 2000 | 525  | 710 | 630 | 500 | 1980 | 2930 | 2980 |
| 3006-160 | 16,0      | 1710, 1707                      | 5675            | 2000 | 525  | 710 | 630 | 500 | 1980 | 2930 | 2980 |
| 3007-180 | 18,0      | 1710, 21X2                      | 6200            | 2000 | 525  | 710 | 630 | 500 | 1980 | 2930 | 2980 |
| 3008-200 | 20,0      | 21X2                            | 6725            | 2000 | 525  | 710 | 630 | 500 | 1980 | 2930 | 2980 |
| 3009-220 | 22,0      | 25X2                            | 7250            | 2000 | 525  | 710 | 630 | 500 | 1980 | 2930 | 2980 |
| 3009-248 | 24,8      | 25X2                            | 7775            | 2000 | 1050 | 710 | 630 | 500 | 1980 | 2930 | 2980 |
| 3010-268 | 26,8      | 25X2                            | 8300            | 2000 | 1050 | 710 | 630 | 500 | 1980 | 2930 | 2980 |
| 3011-288 | 28,8      | 25X2                            | 8825            | 2000 | 1050 | 710 | 800 | 500 | 1980 | 2930 | 2980 |
| 3012-308 | 30,8      | 25X2, 3025                      | 9350            | 2000 | 1050 | 710 | 800 | 500 | 1980 | 2930 | 2980 |
| 3013-328 | 32,8      | 25X2, 3025                      | 9875            | 2000 | 1050 | 710 | 800 | 500 | 1980 | 2930 | 2980 |

# The principle of batch drying with hot air

Batch drying is a simple method of grain drying that requires no expensive accessories. The same elevator can be used for filling and emptying of the drier. In comparison to cold air drying batch drying using hot air is space-saving, quicker, more reliable and last but not least labour-saving.

In a Svegma batch drier the grain does not move during drying. The heat source can be either a indirect heater, a hot-water battery or a standard directly fired burner. To save working hours, the drying and the cooling can be controlled with time relays. To reduce the number of batch changes Svegma driers are optimized with large volumes. In most cases two batch changes per day are enough. If the drier is equipped with automatic batch changing, the working hours can be cut down further more.

The hot air flows via the hot-air plenum and the air laterals through the grain. As the air goes through the grain it picks up the moisture and takes it out from the drier via the wet-air laterals and the wet-air plenum.



*The figure shows the working principle and the construction of a Svegma batch drier. In the grain column You can see the hot-air and the wet-air laterals.*



**AB AKRON-maskiner**

SE-531 04 JÄRPÅS, SWEDEN

Ph. +46(0)510 - 914 00 Fax. +46(0)510 - 916 49