

# Internal Design

## 1 LOADING HOPPER

Thanks to its special internal geometry, the hopper ensures the ideal flow of the grain and an optimal feed into the drying column.

## 2 FANS

Placed on the opposite side of the burner, they work in suction mode, ensuring a uniform air flow. The fans are equipped with a silencer and a shutter to minimize acoustic and dust emissions into the environment.

## 3 CATWALKS

Fitted outside and inside the grain dryer, they provide safe and easy access for routine inspection and maintenance, ensuring maximum safety for operators.

## 4 AIR DUCTS

The profile of the ducts is designed to facilitate the flow of the grain and heat exchange between the hot air and the grain to be dried.

## 5 HEAT GENERATOR

The inline burner, available for natural gas and LPG, ensures accurate modulation and air temperature uniformity. Also available in a diesel version.

## 6 EXTRACTION DEVICE

Consisted of opening shutters that allow for an even and controlled grain discharge.

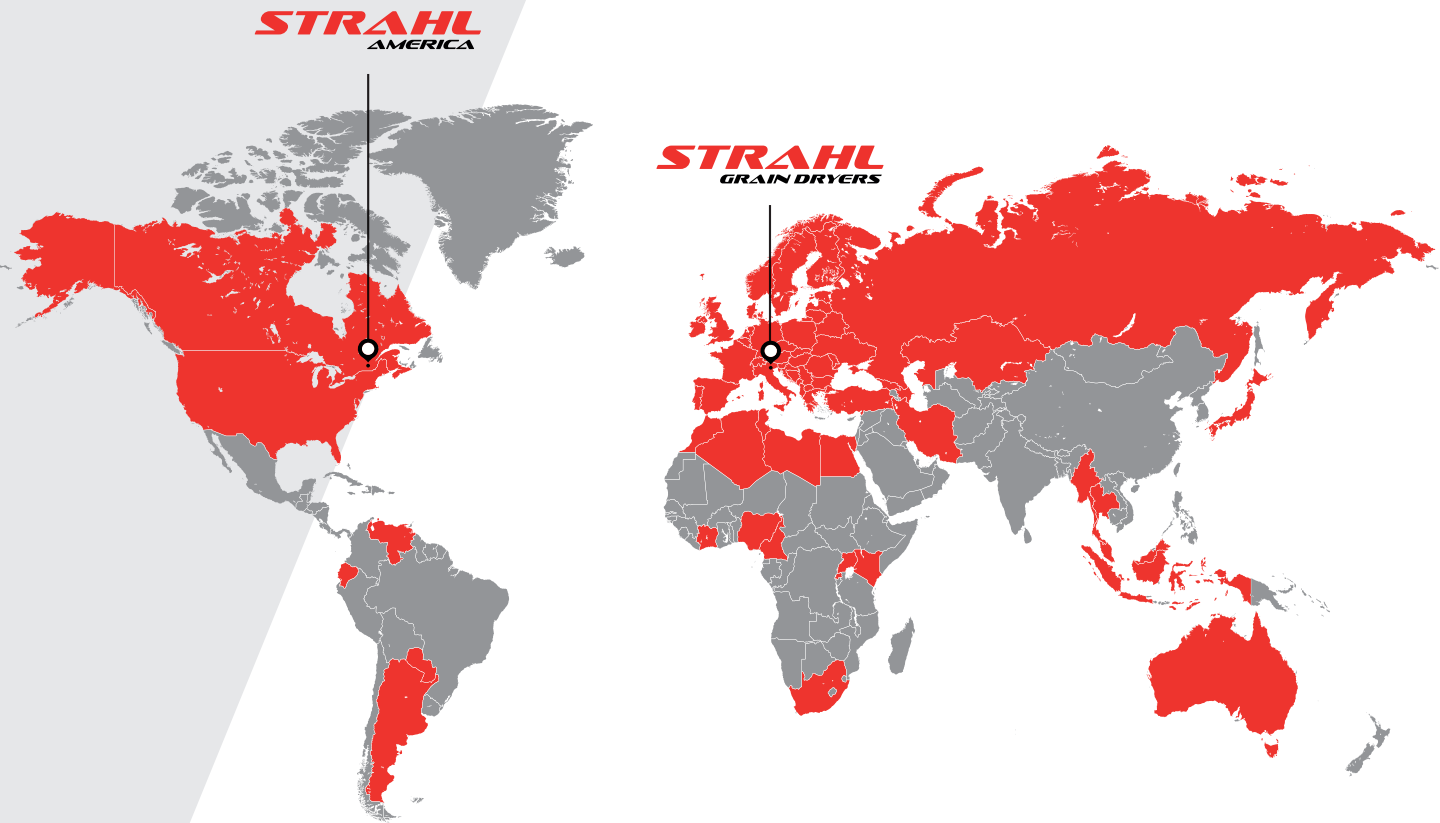
## 7 BASEMENT

Structural element anchored to the ground that ensures the stability of the dryer, certified to withstand extreme wind, snow and seismic conditions.



DISCOVER THE PRODUCTS

**STRAHL**  
GRAIN DRYERS



**STRAHL**  
GRAIN DRYERS

Via Roma 139 | 31020 Villorba (TV) | Italy

+39 0422 919178

strahl@strahl.it  
strahlgraindryers.com

**X10**  
PERDIECI

**AR SERIES**  
Grain Dryer



AR - ENG

AR Series: the ideal batch dryer for multiple products

The AR Series, ideal for batch processing, works by using a drying recirculation system. The product passes through the drying column several times, ensuring uniform final moisture content, preventing thermal shock.

This process optimizes grain yield and quality, the cooling process ensures the product is stored safely for long time. It is the most flexible solution to achieve maximum precision and to get the most out of every harvest.

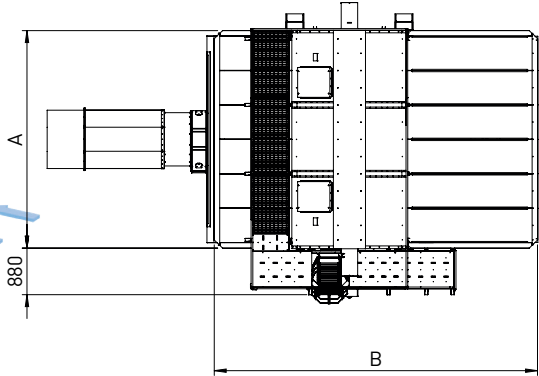
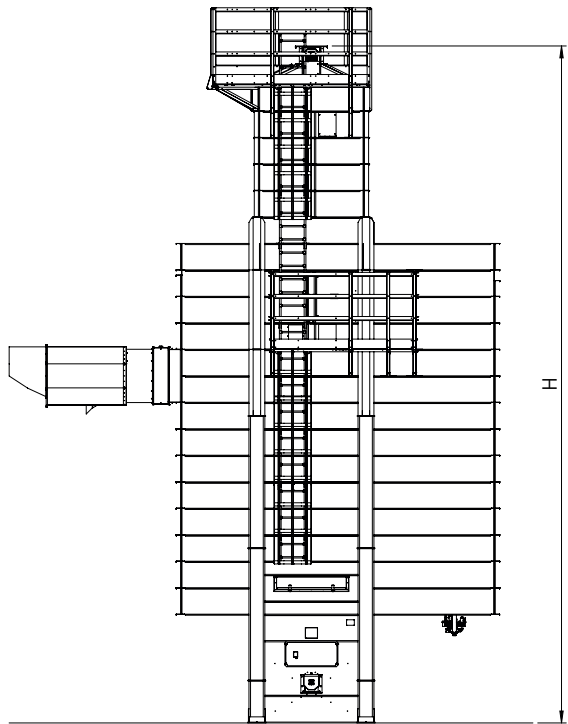


The Strahl software control

A SMART PROCESS CONTROL SYSTEM

The Strahl software, developed specifically for our dryers, tailored to customers' needs, ensures precise temperature control and full data management, available on the cloud. Thanks to predictive analytics and detailed reports, energy consumption is optimised, thereby improving the grain dryer efficiency. The intuitive and user-friendly touchscreen interface, with built-in connectivity, lead to continuous monitoring and remote management.

| MODEL                         |                          | 4<br>MODULES |      |      |      | 6<br>MODULES |      |      |      |       |       |      |       |       |
|-------------------------------|--------------------------|--------------|------|------|------|--------------|------|------|------|-------|-------|------|-------|-------|
|                               |                          | 404          | 405  | 406  | 407  | 604          | 605  | 606  | 607  | 608   | 609   | 607  | 608   | 609   |
|                               |                          | AR           | AR   | AR   | AR   | AR           | AR   | AR   | AR   | AR    | AR    | AR   | AR    | AR    |
| Overall dimensions            | A m                      | 2,80         | 2,80 | 2,80 | 2,80 | 4,10         | 4,10 | 4,10 | 4,10 | 4,10  | 4,10  | 4,10 | 4,10  | 4,10  |
|                               | B m                      | 5,10         | 5,10 | 5,10 | 5,10 | 5,10         | 5,10 | 5,10 | 5,10 | 5,60  | 6,10  | 5,10 | 5,60  | 6,10  |
|                               | H m                      | 6,75         | 7,75 | 8,75 | 9,75 | 6,75         | 7,75 | 8,75 | 9,75 | 10,75 | 11,75 | 9,75 | 10,75 | 11,75 |
| Capacity                      | m³                       | 19,3         | 23,7 | 28,1 | 32,5 | 28,9         | 35,5 | 42,2 | 48,8 | 55,4  | 62,1  | 48,8 | 55,4  | 62,1  |
|                               | Corn (0,75) Ton/m³       | 14,5         | 17,8 | 21,1 | 24,4 | 21,7         | 26,7 | 31,6 | 36,6 | 41,6  | 46,6  | 36,6 | 41,6  | 46,6  |
|                               | Paddy rice (0,60) Ton/m³ | 11,6         | 14,2 | 16,9 | 19,5 | 17,4         | 21,3 | 25,3 | 29,3 | 33,3  | 37,2  | 29,3 | 33,3  | 37,2  |
| Exhaust air fans              | Nº                       | 1            | 1    | 1    | 1    | 1            | 1    | 1    | 1    | 1     | 1     | 1    | 1     | 1     |
|                               | kW                       | 5            | 7,5  | 7,5  | 11   | 7,5          | 11   | 11   | 15   | 15    | 18,5  | 15   | 15    | 18,5  |
| Nominal thermal power         | Corn kW                  | 530          | 670  | 810  | 940  | 810          | 1010 | 1220 | 1430 | 1630  | 1840  | 1430 | 1630  | 1840  |
|                               | Paddy rice kW            | 200          | 240  | 290  | 350  | 290          | 370  | 440  | 510  | 590   | 660   | 510  | 590   | 660   |
| Hourly wet production Tonne/h |                          |              |      |      |      |              |      |      |      |       |       |      |       |       |
| Corn 35% - 15%                |                          | 1,5          | 1,8  | 2,2  | 2,5  | 2,2          | 2,7  | 3,3  | 3,8  | 4,3   | 4,9   | 3,8  | 4,3   | 4,9   |
| Corn 25% - 15%                |                          | 2,1          | 2,7  | 3,2  | 3,7  | 3,2          | 4,0  | 4,8  | 5,6  | 6,4   | 7,2   | 5,6  | 6,4   | 7,2   |
| Corn 20% - 15%                |                          | 2,9          | 3,6  | 4,3  | 5,1  | 4,3          | 5,4  | 6,5  | 7,6  | 8,7   | 9,8   | 7,6  | 8,7   | 9,8   |



| MODEL                             | 8 MODULES                |      |      |       |       |       |       |
|-----------------------------------|--------------------------|------|------|-------|-------|-------|-------|
|                                   | 806                      | 807  | 808  | 809   | 810   | 811   | 812   |
|                                   | AR                       | AR   | AR   | AR    | AR    | AR    | AR    |
| Overall dimensions                | A m                      | 5,40 | 5,40 | 5,40  | 5,40  | 5,40  | 5,40  |
|                                   | B m                      | 5,60 | 5,60 | 6,10  | 6,10  | 6,10  | 6,10  |
|                                   | H m                      | 8,75 | 9,75 | 10,75 | 11,75 | 12,75 | 14,75 |
| Capacity                          | m³                       | 56,2 | 65,1 | 73,9  | 82,8  | 91,6  | 100,4 |
|                                   | Corn (0,75) Ton/m³       | 42,2 | 48,8 | 55,4  | 62,1  | 68,7  | 75,3  |
|                                   | Paddy rice (0,60) Ton/m³ | 33,7 | 39,0 | 44,4  | 49,7  | 55,0  | 60,3  |
| Exhaust air fans                  | N°                       | 1    | 1    | 1     | 2     | 2     | 2     |
|                                   | kW                       | 15   | 18,5 | 22    | 11    | 15    | 18,5  |
| Nominal thermal power             | Corn kW                  | 1630 | 1900 | 2170  | 2440  | 2710  | 2990  |
|                                   | Paddy rice kW            | 590  | 690  | 790   | 880   | 990   | 1080  |
| Hourly production rate (Ton/hour) |                          |      |      |       |       |       |       |
| Corn 35% - 15%                    | 4,4                      | 5,1  | 5,8  | 6,5   | 7,2   | 8,0   | 8,7   |
| Corn 25% - 15%                    | 6,4                      | 7,5  | 8,5  | 9,6   | 10,7  | 11,7  | 12,8  |
| Corn 20% - 15%                    | 8,7                      | 10,1 | 11,6 | 13,0  | 14,4  | 15,9  | 17,3  |

The technical data presented in this document are indicative and may be changed by the manufacturer without notice. They are obtained assuming an outside temperature of 15°C and a relative humidity of 70%. Indicative production estimates based on an operating air temperature of 125°C (non-binding). These figures are dependent on environmental conditions, variety, quality characteristics, and the degree of impurity of the grain to be dried.