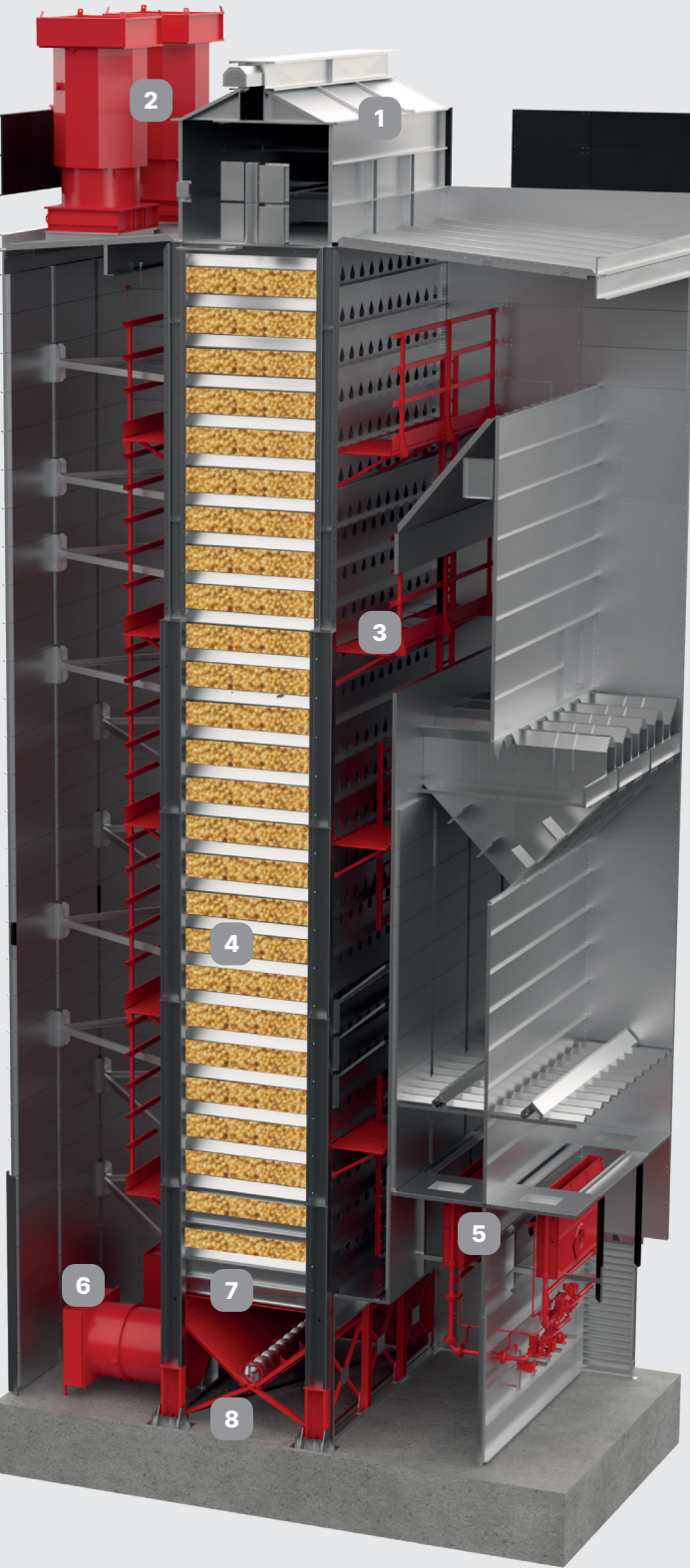


Internal Design



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 MAIN 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 RECOVERY FANS

Placed at the bottom of the dryer, the fans collect some of the hot air from the drying process to reintroduce it into the cycle and improve energy efficiency.

7 EXTRACTION DEVICE

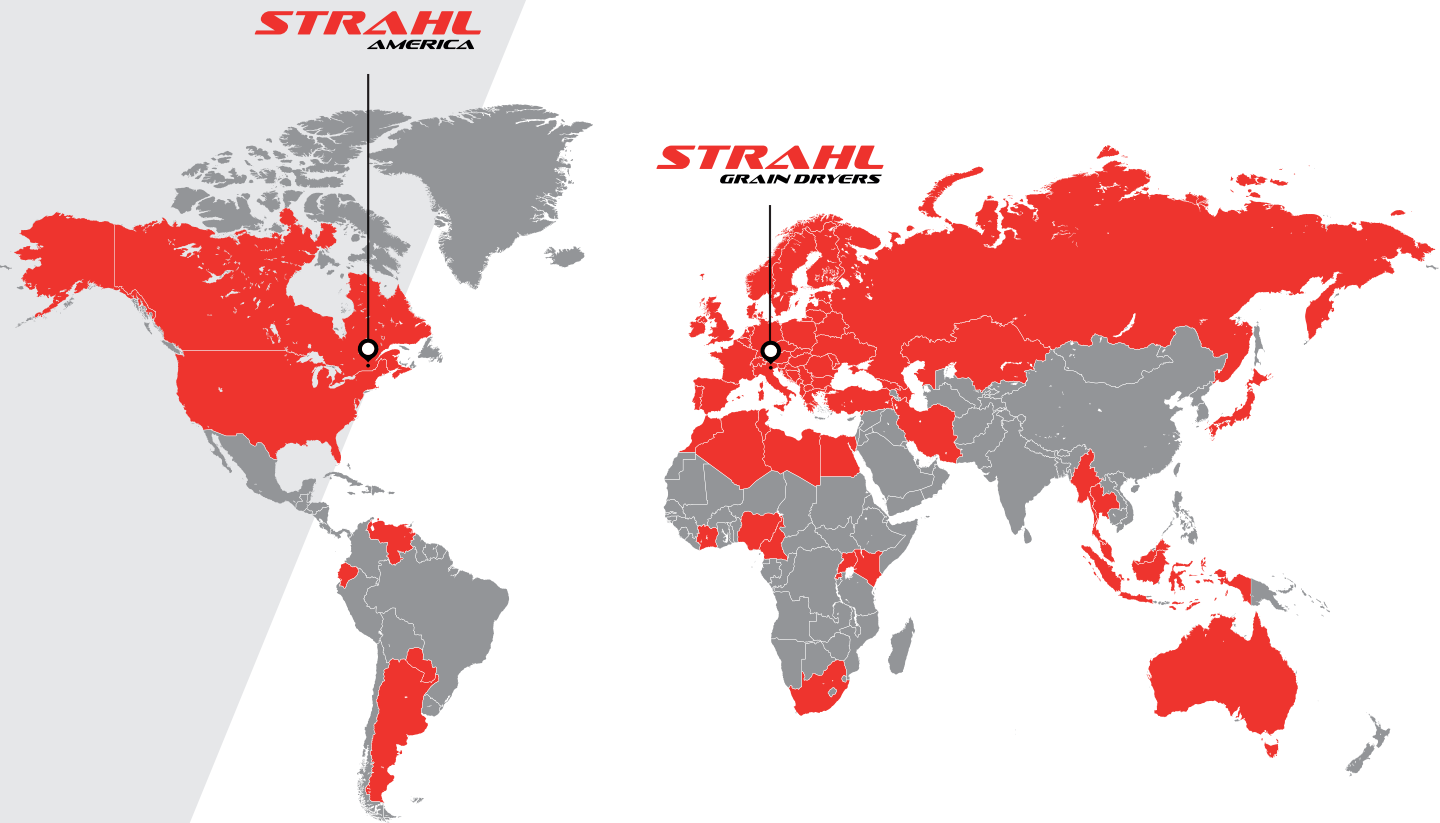
Consisted of opening shutters that allow for an even and controlled grain discharge

8 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



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GRAIN DRYERS

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STRAHL
GRAIN DRYERS

FRP SERIES
Grain Dryer



FRP - ENG

FRP Series: the continuous flow grain dryer with heat recovery and dual burner

The FRP series ensures higher performance thanks to its two burners which allow the control of differentiated temperatures in multiple zones along the drying column.

This series guarantees a greater treatment precision, less product thermal shock, higher operational flexibility, a shorter drying cycle and a reduction in energy consumption.

External air enters the dryer to be heated and support the process.

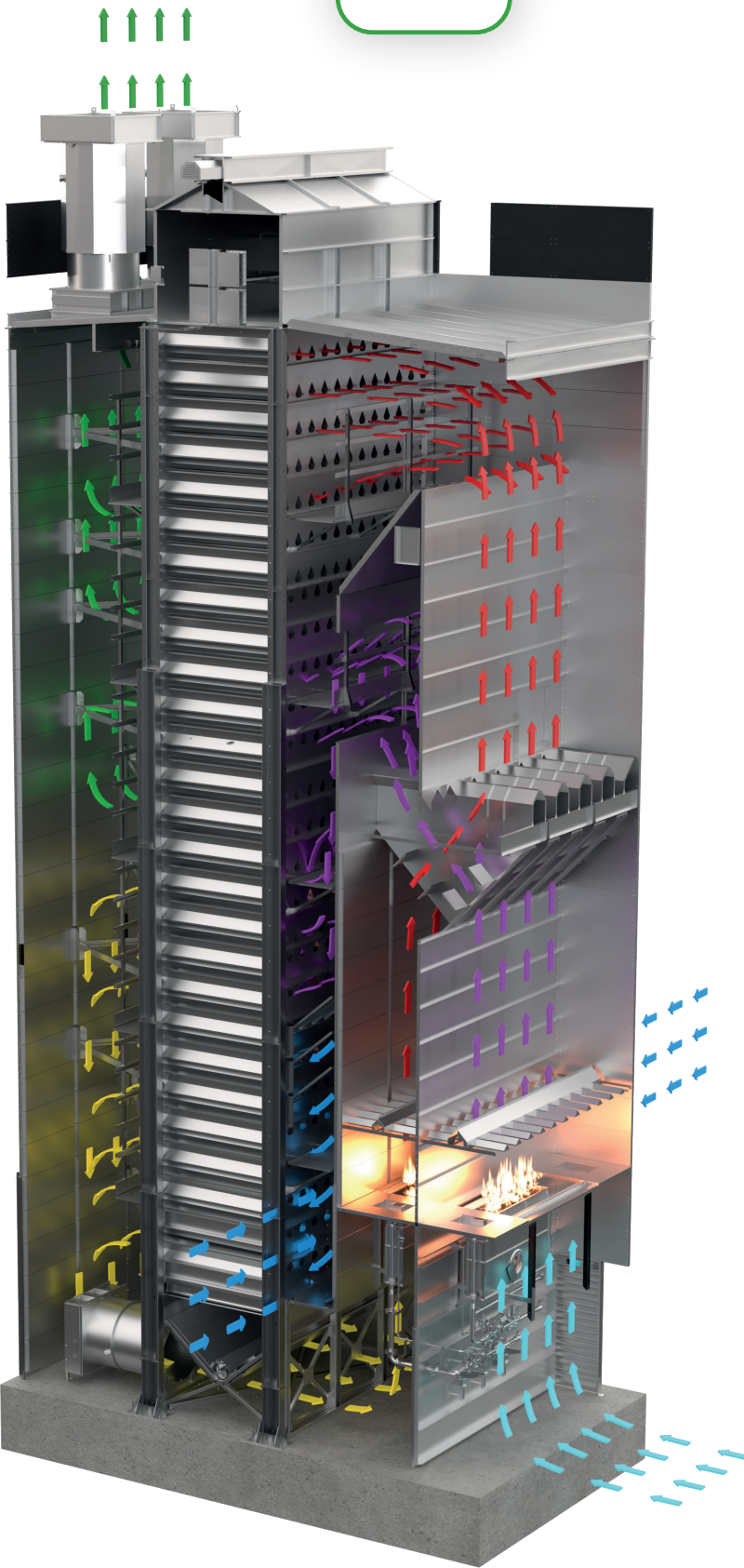
The hot air from the first burner, set at a lower temperature, passes through the grain in the central nsection of the drying column, ensuring balanced and nefficient drying.

Hot air at the bottom of the grain dryer, which is still efficient, is recovered and reintroduced into the system to reduce consumption.

The recovered hot air, elevated to a higher temperature by the second burner, flows through the grain in the upper section of the drying column, ensuring optimal performance.

Exhaust air is blown out from the dryer, as it is saturated with moisture from the drying process.

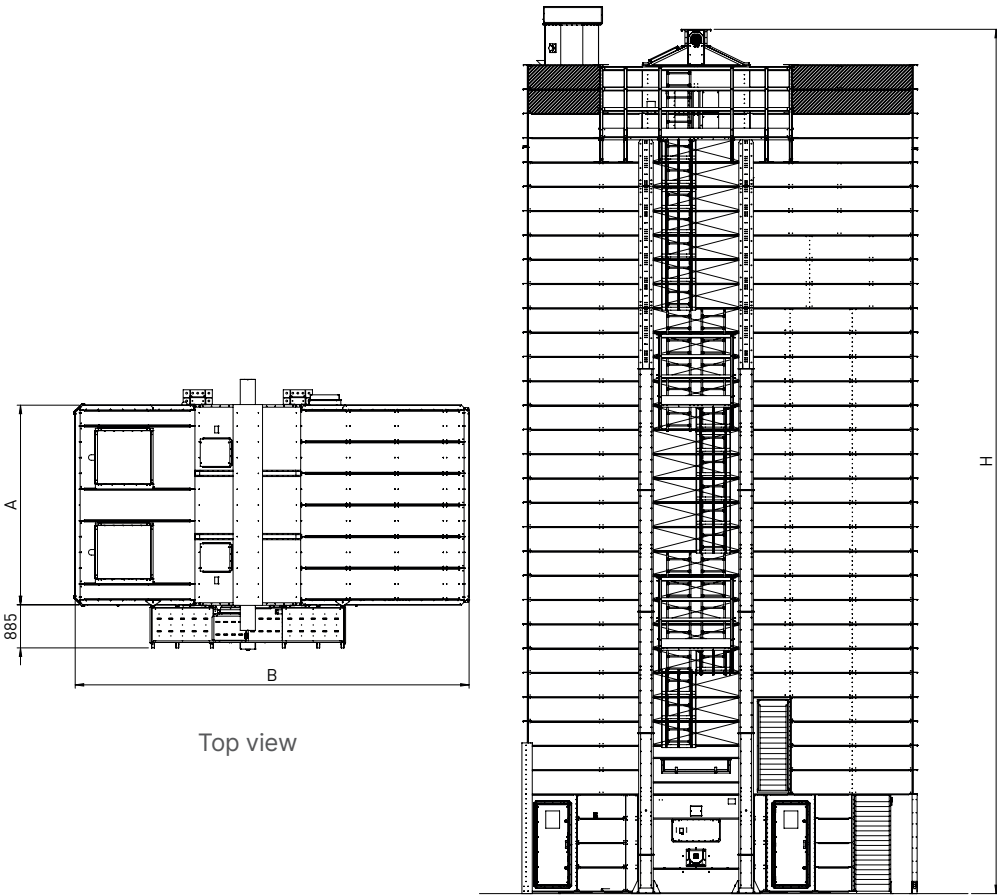
In the lower area of the dryer, the product is cooled with external air before extraction.



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 MODULES	6 MODULES				8 MODULES					
		3000	4000	5000	6000	7000	7000	8000	9000	10000	12000	
		FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	
Overall dimensions	A m	2,8	4,1	4,1	4,1	4,1	5,4	5,4	5,4	5,4	5,4	
	B m	8,1	8,1	8,1	9,1	9,1	8,1	9,1	9,1	9,1	9,1	
	H m	16,75	14,75	17,75	20,25	23,25	18,75	20,75	22,75	24,95	29,45	
Capacity	Ton	41	52	66	76	89	94	105	116	127	152	
	m³	55	70	88	101	119	126	140	155	170	203	
Exhaust air fans	N°	1	2	2	2	2	2	3	3	3	4	
	kW	22	15	18,5	22	22	22	18,5	22	22	22	
Recovered air fans	N°	1	1	2	2	2	2	2	2	3	3	
	kW	18,5	22	15	18,5	18,5	18,5	22	30	18,5	22	
Nominal thermal power		kW	2.370	3.180	3.930	4.680	5.420	5.490	6.240	6.980	9.480	
Max. burner thermal power	Burner 1	kW	1.630	2.440	2.440	3.260	3.260	3.260	4.070	4.070	4.880	5.700
	Burner 2	kW	1.630	2.440	2.440	3.260	3.260	3.260	4.070	4.070	4.880	5.700
Hourly production rate (Ton/hour)												
Corn 35% - 15%		9	11	14	17	20	20	23	26	29	34	
Corn 25% - 15%		16	22	27	32	38	38	43	49	54	65	
Corn 20% - 15%		30	39	49	59	69	69	79	89	98	118	

MODEL		10 MODULES					12 MODULES				14 MODULES		
		10000	12000	13000	14000	15000	15000	17000	18000	20000	17000	18000	20000
		FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP
Overall dimensions	A m	6,7	6,7	6,7	6,7	6,7	8,0	8,0	8,0	8,0	9,3	9,3	9,3
	B m	9,1	9,1	9,1	9,1	9,1	9,1	9,1	9,1	9,1	9,1	9,1	9,1
	H m	20,95	24,95	26,45	27,95	29,45	25,45	27,95	29,45	31,95	25,45	26,95	29,45
Capacity	Ton	132	161	171	181	192	197	218	230	251	232	246	270
	m³	175	214	228	242	256	263	290	307	335	309	328	360
Exhaust air fans	N°	3	4	4	4	5	5	4	4	4	4	4	4
	kW	22	22	22	30	22	22	37	37	45	37	37	45
Recovered air fans	N°	3	3	3	4	4	4	4	4	5	4	4	5
	kW	18,5	22	30	18,5	22	22	22,5	30	22	30	30	22
Nominal thermal power		kW	7.800	9.330	10.280	10.890	11.850	11.580	13.080	13.810	15.300	13.070	14.400
Max. burner thermal power	Burner 1 kW	4.880	5.700	5.700	6.100	6.510	6.510	7.330	8.140	8.950	7.330	8.140	8.950
	Burner 2 kW	4.880	5.700	5.700	6.100	6.510	6.510	7.330	8.140	8.950	7.330	8.140	8.950
Hourly production rate (Ton/hour)													
Corn 35% - 15%		29	34	37	40	43	43	49	52	57	49	52	57
Corn 25% - 15%		54	65	70	76	81	81	92	97	108	92	97	108
Corn 20% - 15%		98	118	128	138	148	148	167	177	197	167	177	197

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.