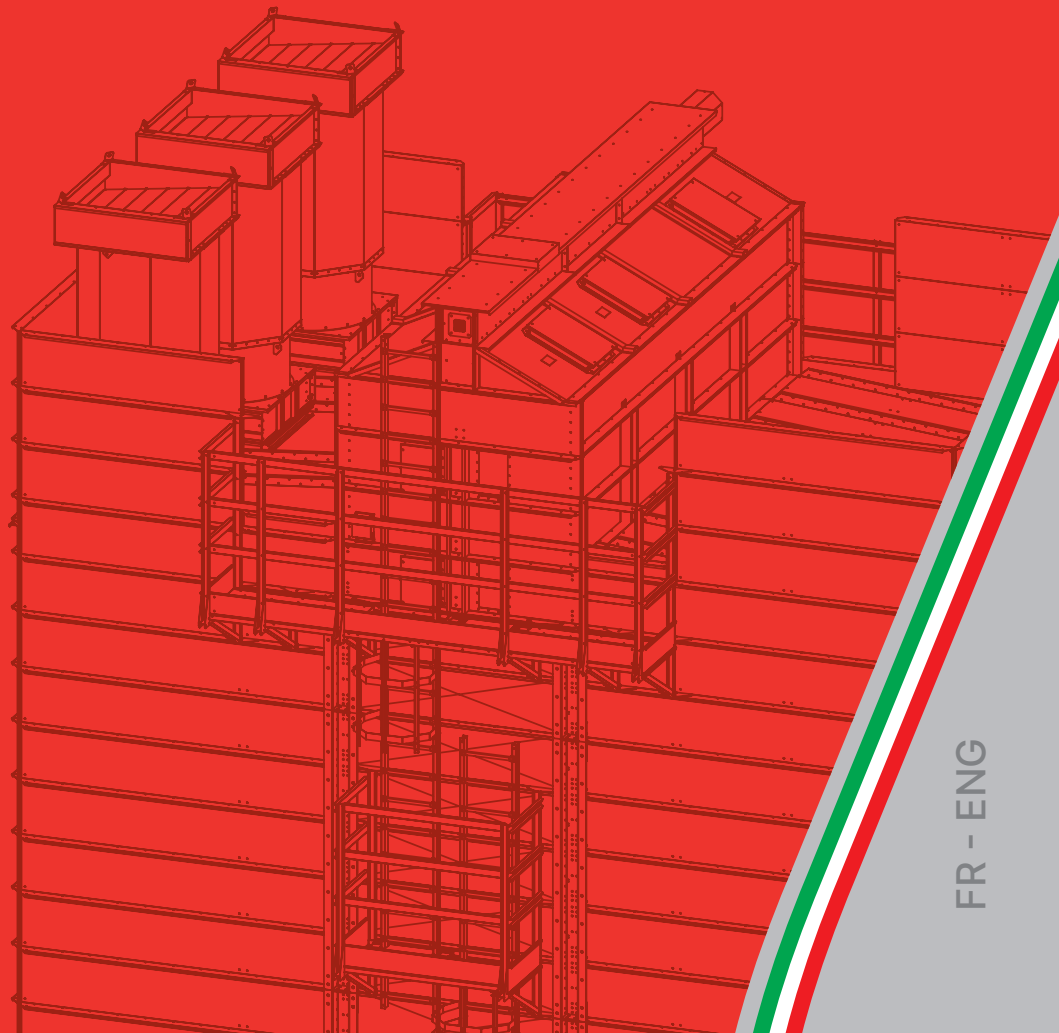


STRAHL

GRAIN DRYERS

FR SERIES

Grain Dryer



FR - ENG

Italian Excellence
in grain drying

STRAHL
GRAIN DRYERS

With over 60 years of experience, **STRAHL** is internationally recognised as the benchmark in grain drying technology.

Decades of research, reliability and innovation allow us to deliver cutting-edge solutions for every drying need.

Today, **STRAHL** is part of the Perdici Group — and now, also proudly manufactured in Canada to offer:

- Faster delivery across North America
- Better access to parts and service
- Improved stock availability
- A distribution network adapted to Canadian & U.S. producers

***RESISTANCE AND
DURABILITY***

We build our systems to handle the most extreme conditions — and with our Canadian manufacturing, customers benefit from world-class Italian engineering with local North American support.



CORN



WHEAT



BARLEY



SOYA

High-Efficiency Energy-Saving Drying

The FR series is an advanced continuous cycle dryer solution designed to optimise fuel consumption on any size of processing volume.

Thanks to an innovative recovery fan system, these systems maximise energy efficiency, significantly reducing operating costs and environmental impact.

STRAHL dryers are pre-planned for integration into existing grain processing and storage plants.

FR
SERIES

STRUCTURAL STRENGTH

The **load-bearing** frame is made of hot-dip galvanised structural steel, qualified and tested for the various conditions of use.

The **base** is made of structural steel and designed to be anchored on a reinforced concrete slab to provide stability and safety even in the event of seismic events. The supply also includes jigs and anchor bolts.

LONG-LASTING

The **panels** are made of steel coated with Aluzinc or Zinc-Magnesium to increase resistance to weathering and conditions of use.

THERMAL INSULATION

The **insulation** is made of thick glass wool. It provides excellent thermal insulation and consequent energy savings.

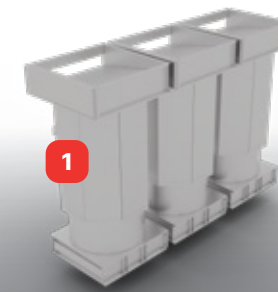
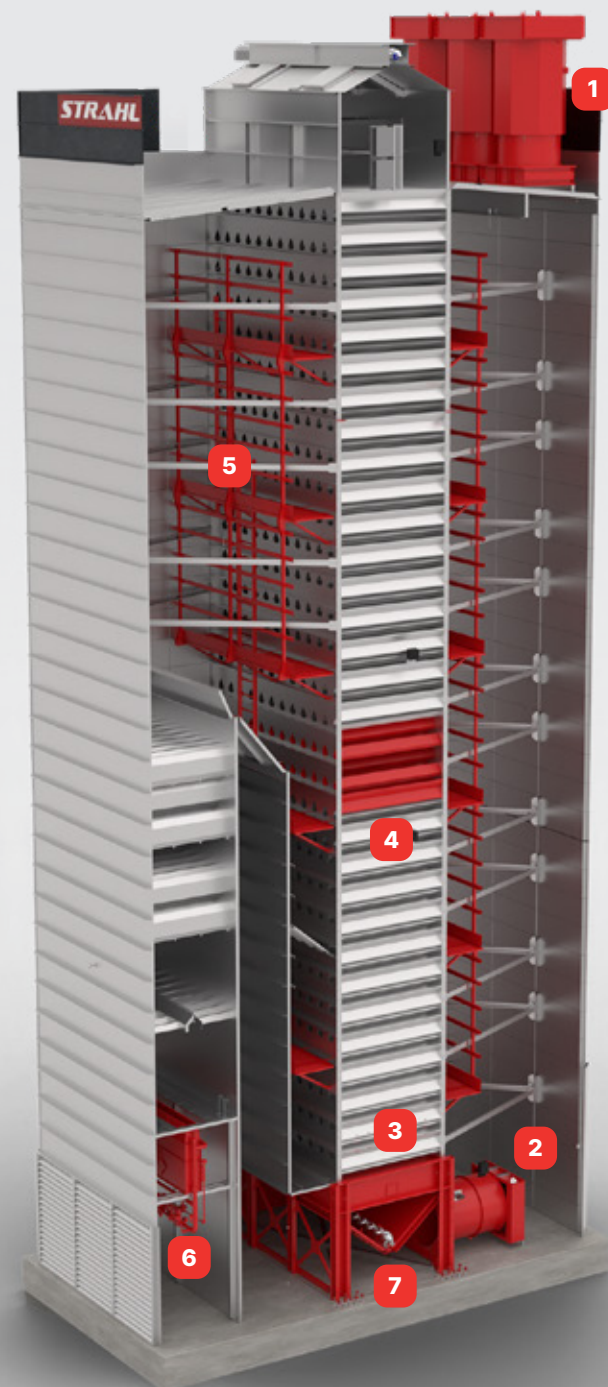
DUST EMISSION CONTROL

Our systems are equipped with pneumatic **dampers** that block air flows during unloading, preventing the release of dust into the atmosphere.



The technological core for even drying

Behind every STRAHL dryer is an advanced engineering system. The FR series is a quintessence of technical innovations designed to optimise every stage of the drying process, guaranteeing efficiency, precision and respect for the environment.



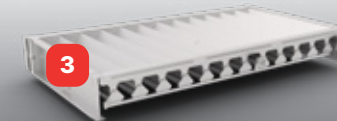
MAIN FANS

Positioned at the top of the system, they give rise to the dryer's air flow. They are equipped with a silencer and dust damper to minimise ecological and dusty emissions into the environment.



RECOVERY FANS

Positioned at the bottom of the dryer, they aim to recover the part of the hot air with a low moisture content to improve energy efficiency.



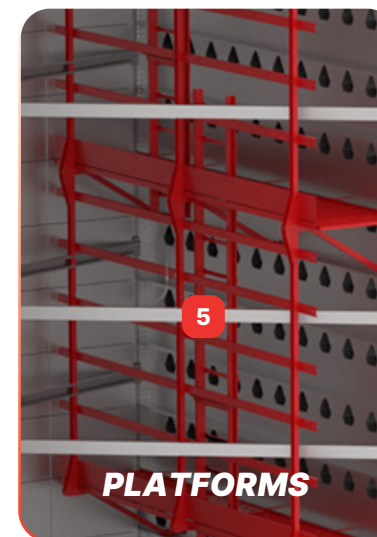
EXTRACTION DEVICE

Made of flippers that allow for an even and controlled grain flow.



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.



PLATFORMS

Present throughout the system outside and inside the body, they provide safe and easy access for routine inspection and maintenance, ensuring maximum safety for operators.



HEAT GENERATOR

The air duct burner, available for natural gas and LPG, ensures accurate modulation and air temperature uniformity.



BASEMENT

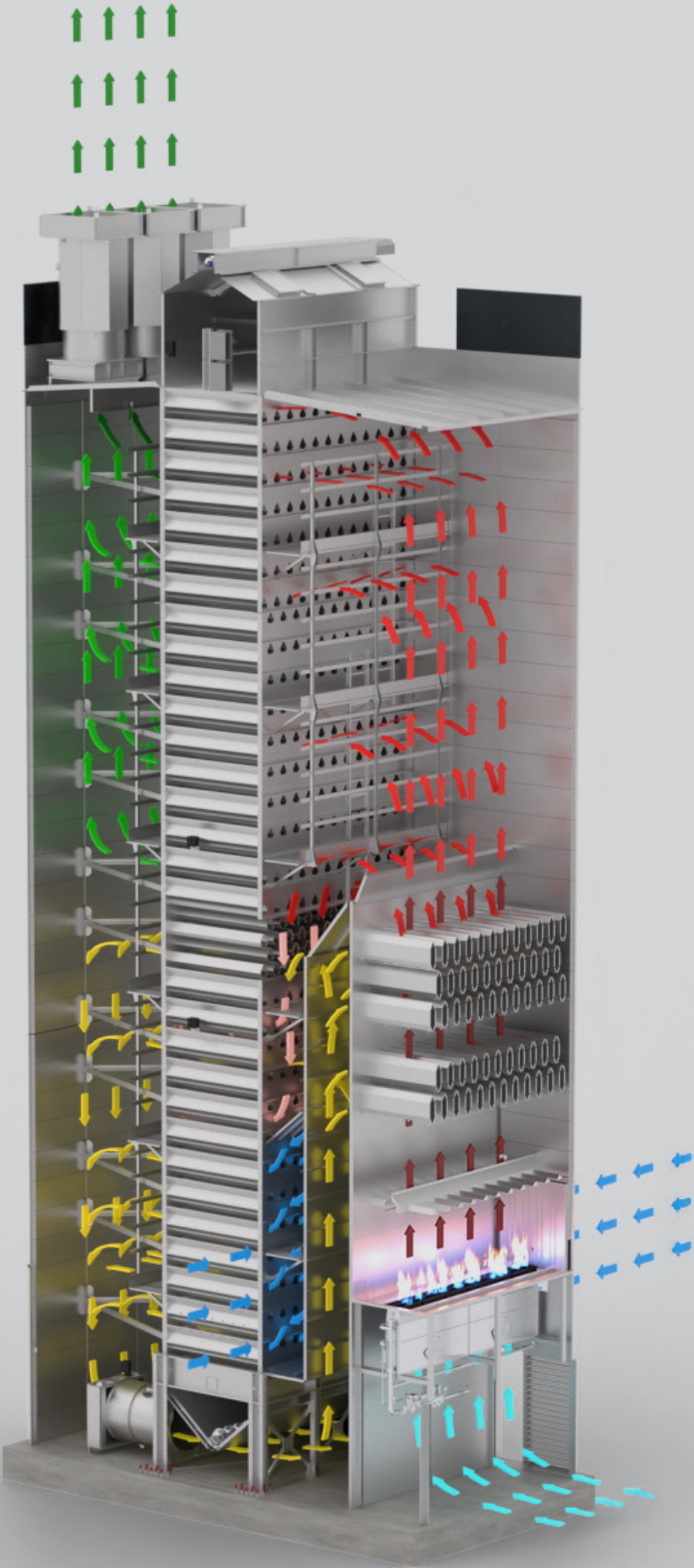
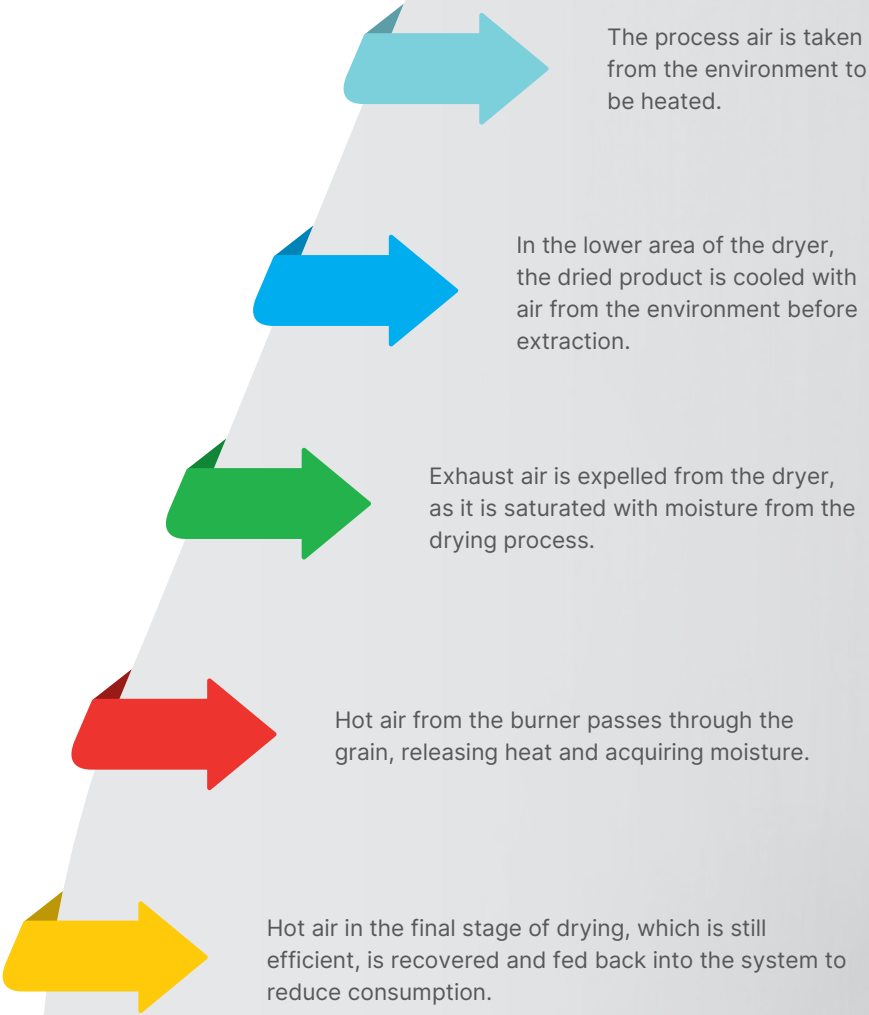
Equipped with a hopper, it supports the extraction device and it is designed to ensure precise and reliable extraction over time.

Energy-saving drying

MAXIMUM EFFICIENCY IN AIR RECIRCULATION

The efficiency of FR dryers comes from optimising the drying process.

Unlike conventional systems, hot air that is not completely saturated with moisture is not expelled but recovered in the lower section. Here it mixes with the hot air from the generator, creating a virtuous cycle of heat recovery. This process optimises energy efficiency, with a significant reduction in fuel consumption.



Our control software

Years of research and in-depth knowledge of grain characteristics have enabled us to develop exclusive work programmes.

Our control software offers tailor-made processes for each product and maximum precision in the desired final moisture content.

At each drying cycle, data is captured and stored in a secure web portal, enabling in-depth historical analysis, performance comparisons and the generation of detailed reports to support evidence-based strategic decisions and optimise consumption.

MANAGEMENT AT YOUR FINGERTIPS

The system is designed to be easily controlled remotely, via any device. This function also allows our technical support team to intervene promptly when needed, ensuring immediate support and minimising downtime.

USER EXPERIENCE

The large monitor and intuitive user interface make setting up the drying process quick and easy. The controls are easily accessible and information is presented in a logical and visually immediate manner, allowing any operator to manage the system safely and easily from the very first use.

Complementary technologies

CUSTOMISATION OPTIONS

STRAHL grain dryers offer the integration of a range of complementary systems and technologies designed to further enhance the performance, control and precision of the drying process.

VAP SYSTEM

STRAHL-designed technology that guarantees ultra-low dust emissions.

HUMIDITY CONTROL SYSTEM

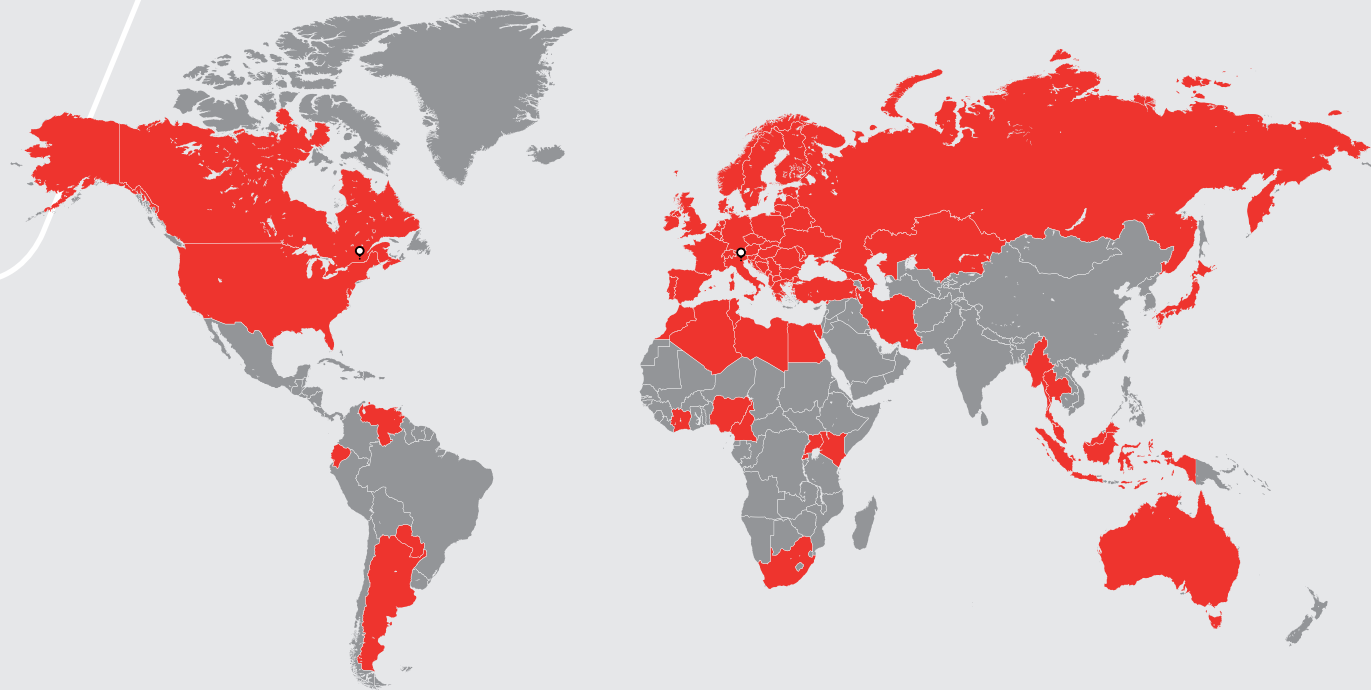
System for monitoring product moisture for additional control of the drying process.

EXTRACTION SPEED REGULATOR

Option to include an inverter to adjust the extraction speed.

ADDITIONAL TEMPERATURE MONITORING SYSTEM

This enables the monitoring of temperatures across the various dryer sections with enhanced precision.



STRAHL
AMERICA

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GRAIN DRYERS

Customer service

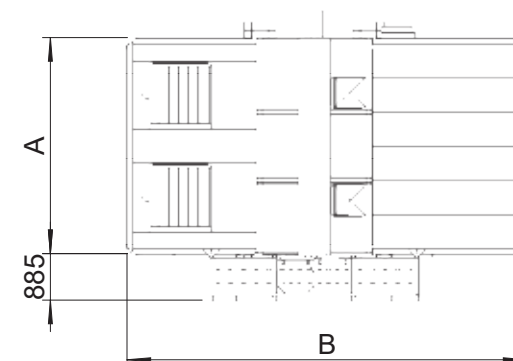
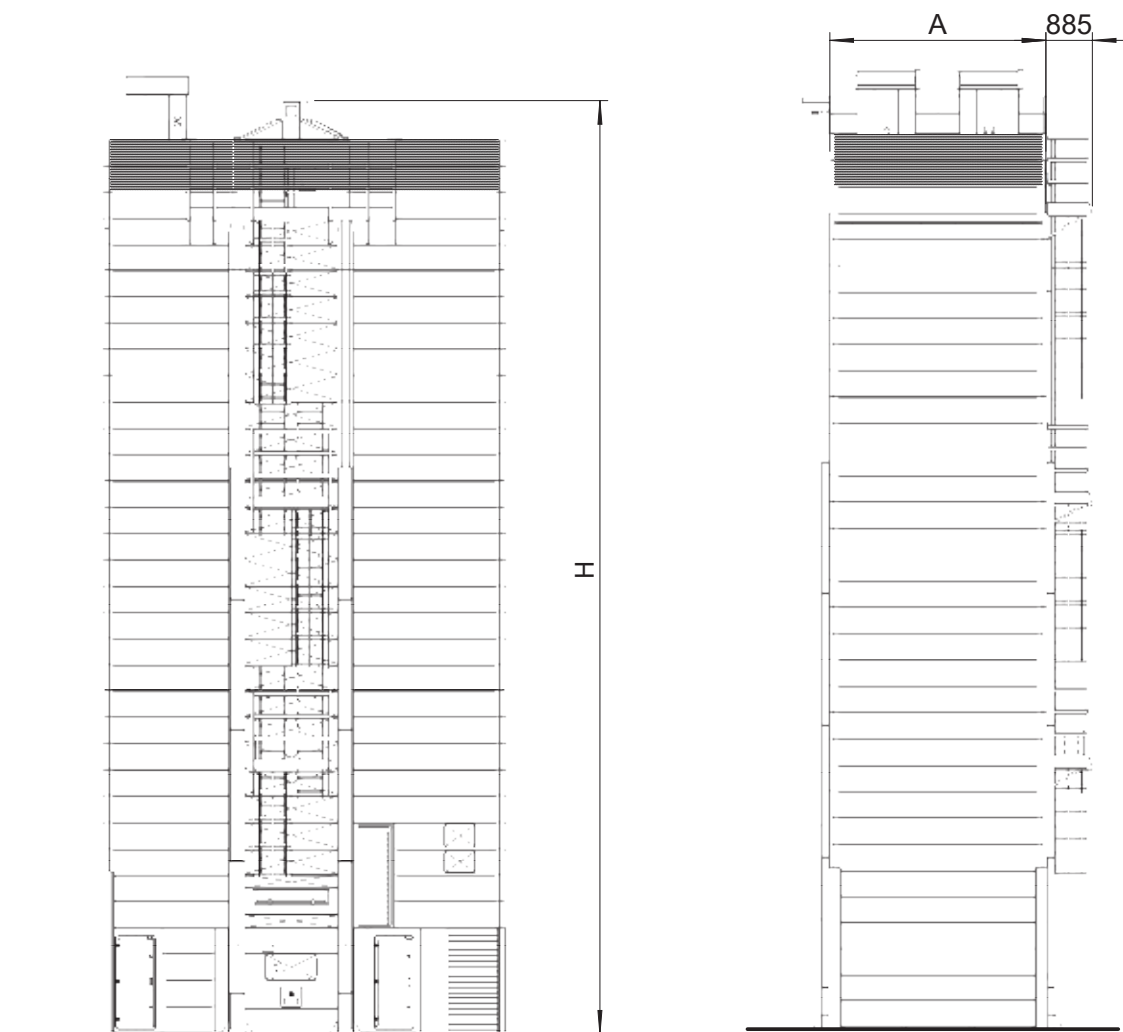
E REMOTE ASSISTANCE

Our support service partners with our customers to guarantee peak operational efficiency, covering both planned maintenance and urgent needs during the drying season.

Our network of specialized technicians ensures the seamless continuity of drying processes to safeguard the value of your harvest, delivering consistently high-performing systems and minimal downtime.

Dimensional Drawings

FR
SERIES





Technical Data Sheet

The FR series offers an extensive range of models designed to meet specific operational requirements. Our modular design philosophy ensures that every customer can find their perfectly sized solution.

From compact models up to the largest capacities, the FR series guarantees consistent and efficient performance.

MODEL		4 MODULES				6 MODULES							
		1 600	2 000	2500	3 000	2 500	3 000	3 500	4 000	4 500	5 000	6 000	7 000
Overall dimensions	B Ft	24.93	24.93	24.93	24.93	24.93	24.93	24.93	24.93	24.93	24.93	28.22	29.86
	A Ft	9.19	9.19	9.19	9.19	13.45	13.45	13.45	13.45	13.45	13.45	13.45	13.45
	H Ft	35.75	40.19	46.75	54.95	35.27	40.19	45.11	48.36	53.28	58.27	66.44	76.28
Capacity	BU	908	1060	1287	1552	1363	1590	1817	1968	2233	2498	2877	3369
	m³	32	37	45	55	48	56	64	69	79	88	101	119
Exhaust air fans	QTY	1	1	1	1	1	1	2	2	2	2	3	3
	HP	15	20	25	30	25	30	20	20	25	30	20	25
Recovered air fans	QTY	1	1	1	1	1	1	1	1	1	1	2	2
	HP	15	15	15	15	15	20	20	25	25	30	15	20
Rated heat output	kW	1.210	1.510	1.890	2.270	1.890	2.270	2.650	3.020	3.400	3.780	4.530	5.290
Max. burner output	kW	1.220	1.630	2.440	2.440	2.440	2.440	3.260	3.260	4.070	4.070	4.880	6.510
mBTU		4.1	5.2	6.4	7.7	6.4	7.7	9	10.3	11.6	12.9	15.5	18
Daily production Bu/h													
Wet Corn 30% - 15%		230	288	360	432	360	432	504	576	648	720	864	1 008
Dry Corn 30% - 15%		190	237	296	356	296	356	415	474	533	593	711	830
Wet Corn 25% - 15%		332	416	519	623	519	623	727	831	935	1 039	1 247	1 454
Dry Corn 25% - 15%		293	367	458	550	458	550	642	733	825	917	1 100	1 283
Wet Corn 20% - 15%		579	723	904	1 085	904	1 085	1266	1 446	1 627	1 808	2 170	2 531
Dry Corn 20% - 15%		545	681	851	1 021	851	1 021	1 191	1 361	1 531	1 702	2 042	2 382

MODEL		8 MODULES														10 MODULES						12 MODULES						14 MODULES					
		5 000	6 000	7 000	8 000	9 000	10 000									10 000	12 000	13 000				15 000	16 000	17 000				17 000	18 000	20 000			
Overall dimensions	B Ft	24.93	24.93	24.93	28.22	28.22	29.86			B Ft						29.86	29.86	29.86				29.86	29.86	29.86				29.86	29.86	29.86			
	A Ft	17.72	17.72	17.72	17.72	17.72	17.72			A Ft						21.98	21.98	21.98				26.25	26.25	26.25				30.51	30.51	30.51			
	H Ft	48.36	55.12	61.52	68.08	74.67	81.86			H Ft						68.72	75.33	81.84				83.66	88.45	91.73				83.56	88.45	96.67			
Capacity	BU	2 687	3 104	3 558	3 974	4 391	4 807			BU						5 526	6 094	6 472				7 456	7 911	8 251				8 781	9 311	10 220			
	m³	95	109	125	140	155	169			m³						177	195	215				263	279	291				309	328	360			
Exhaust air fans	QTY	2	3	3	3	4	4			QTY						4	4	5				5	5	5				5	6	6			
	HP	30	20	25	30	25	25			HP						25	40	25				40	40	40				40	40	40			
Recovered air fans	QTY	1	2	2	2	2	2			QTY						2	3	3				4	4	4				4	4	5			
	HP	30	15	20	25	25	30			HP						30	25	25				20	25	25				25	25	25			
Rated heat output	kW	3.780	4.530	5.290	6.050	6.800	7.560			kW						7.560	8.310	9.070				11.340	12.090	12.850				12.850	13.600	15.120			
Max. burner output	kW	4.070	4.880	5.700	6.100	6.510	8.140			kW						8.140	9.770	9.770				11.400	12.210	13.020				13.020	14.650	16.280			
mBTU		12.9	15.5	18	20.6	23.2	25.8									25.8	31	33.5				38.7	41.2	43.8				43.8	46.4	51.6			
Daily production Bu/h																																	
Wet Corn 30% - 15%		720	864	1 008	1 152	1 295	1 439									1 439	1 727	1 871				2 159	2 303	2 447				2 345	2 483	2 759			
Dry Corn 30% - 15%		593	711	830	948	1 067	1 185									1 185	1 422	1 541				1 778	1 897	2 015				1 931	2 045	2 272			
Wet Corn 25% - 15%		1 039	1 247	1 454	1 662	1 870	2 078									2 078	2 493	2 701				3 116	3 324	3 532				3 385	3 584	3 982			
Dry Corn 25% - 15%		917	1 100	1 283	1 467	1 650	1 833									1 833	2 200	2 383				2 750	2 933	3 116				2 987	3 162	3 514			
Wet Corn 20% - 15%		1 808	2 170	2 531	2 893	3 254	3 616									3 616	4 339	4 701				5 424	5 785	6 147				6 147	6 509	7 232			
Dry Corn 20% - 15%		1 702	2 042	2 382	2 723	3 063	3 403									3 403	4 084	4 424				5 105	5 445	5 785				5 785	6 126	6 806			

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 59°F (15°C) and a relative humidity of 70%.

Indicative production estimates based on an operating air temperature of 257°F (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.

STRAHL
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