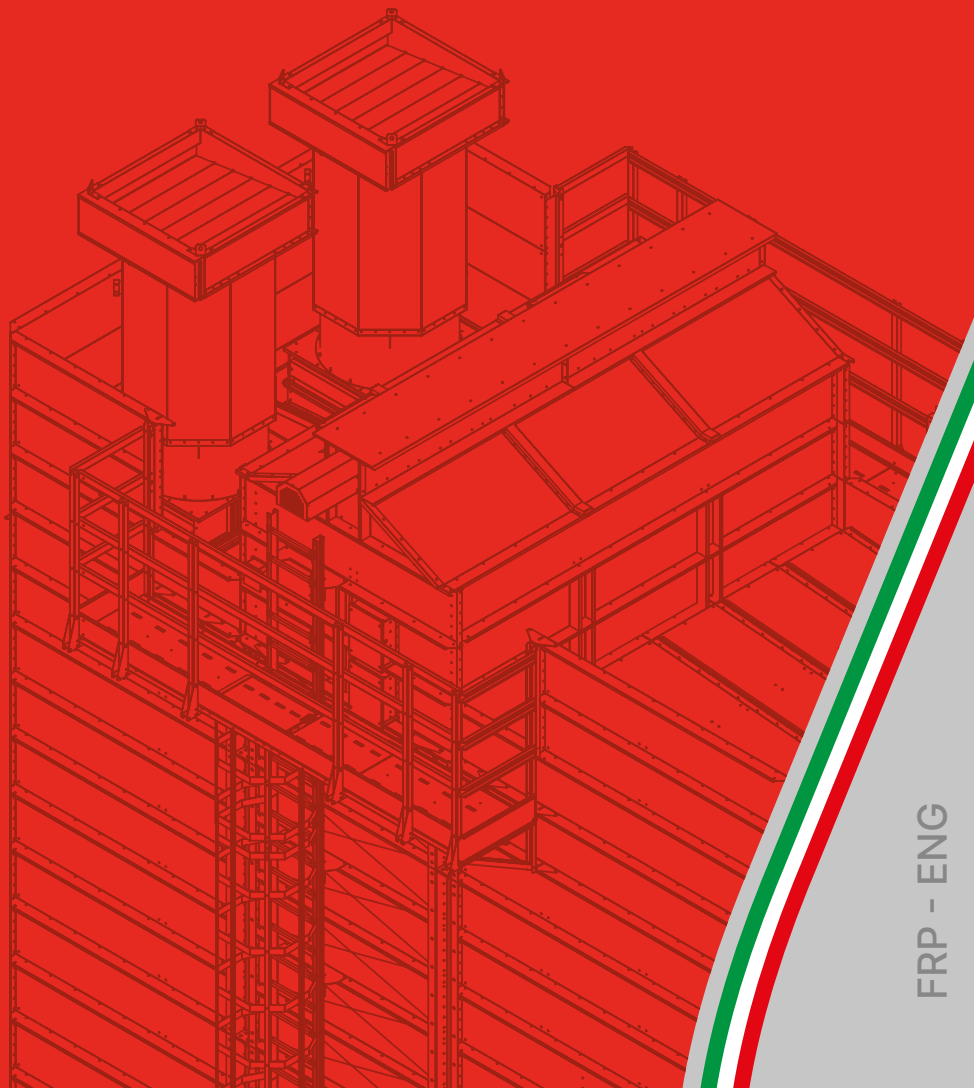


STRAHL
GRAIN DRYERS

FRP SERIES

Grain Dryer



FRP - ENG

Italian Excellence

in grain drying

STRAHL
GRAIN DRYERS

With over 60 years of experience, STRAHL is internationally recognised as the benchmark in the world of dryers.

A history of research, reliability and innovation that has accompanied generations of companies by offering cutting-edge technological solutions for every drying requirement.

Every STRAHL system brings with it the heritage of decades of engineering expertise and experience, geared towards ensuring maximum efficiency, safety and durability.

Today, STRAHL is part of Perdieci Group, with which it shares management excellence, investment in innovation and the strategic vision of a cutting-edge manufacturing group.

X10
PERDIECI



RESISTANCE AND DURABILITY

The sturdiness and reliability of STRAHL dryers are proven by years of successful installations in every corner of the world.

We have designed our technology to perform even under the most extreme conditions, because a STRAHL dryer is an investment that lasts, wherever you are.

Precision drying with zoned temperature control

This advanced solution allows for precise management of multiple temperature zones within the drying column, ensuring greater flexibility and superior performance when processing grains with high moisture content.

Perfectly suited for high-demand, intensive production, it guarantees rapid, uniform, and reliable results every time.

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

FRP 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

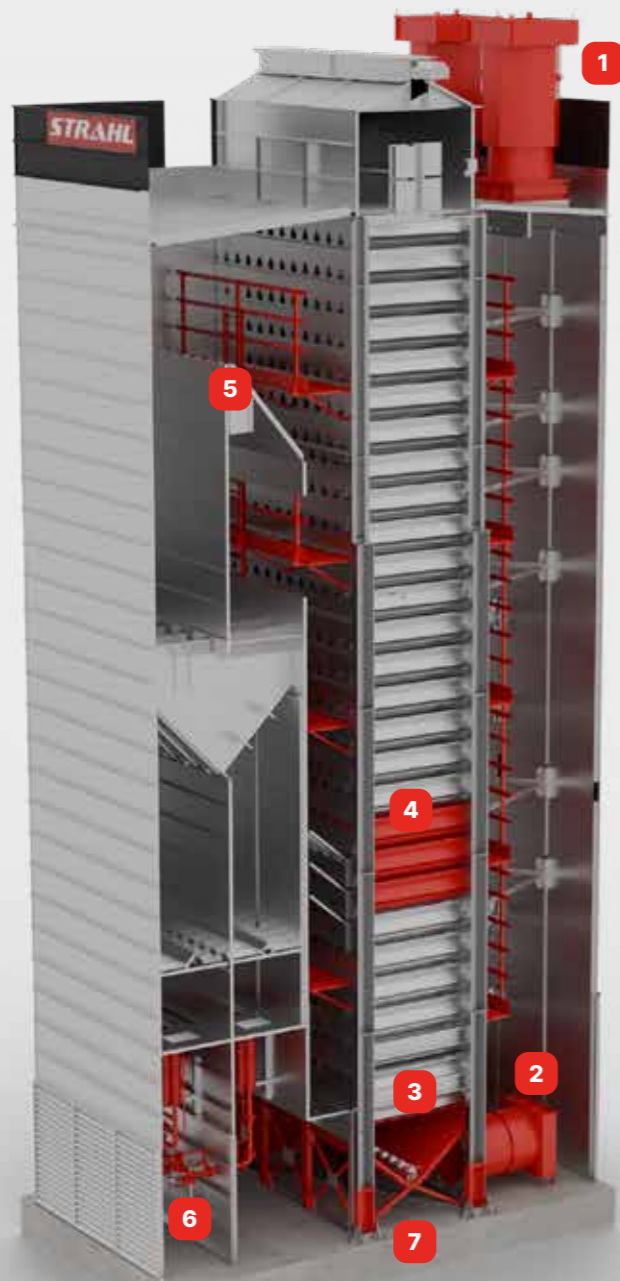
The insulation is made of thick glass wool. It provides excellent thermal insulation and consequent energy savings.

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 FRP 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.



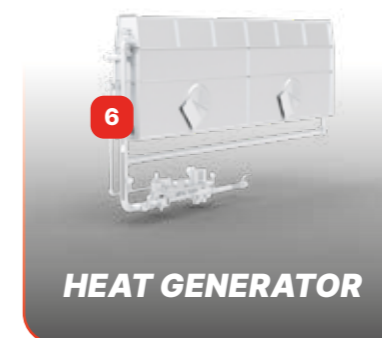
AIR DUCTS

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. Also available in a diesel version.



BASEMENT

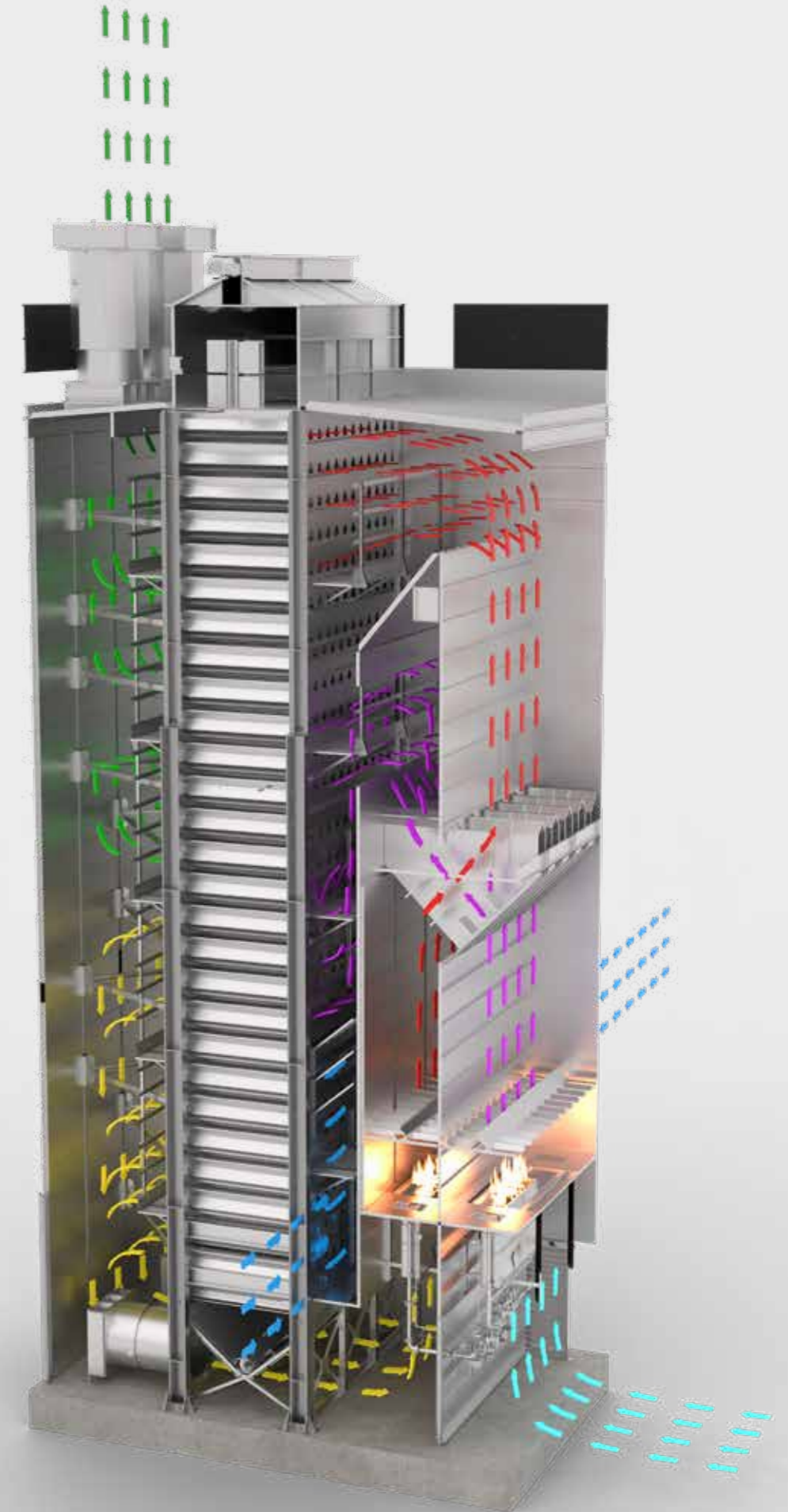
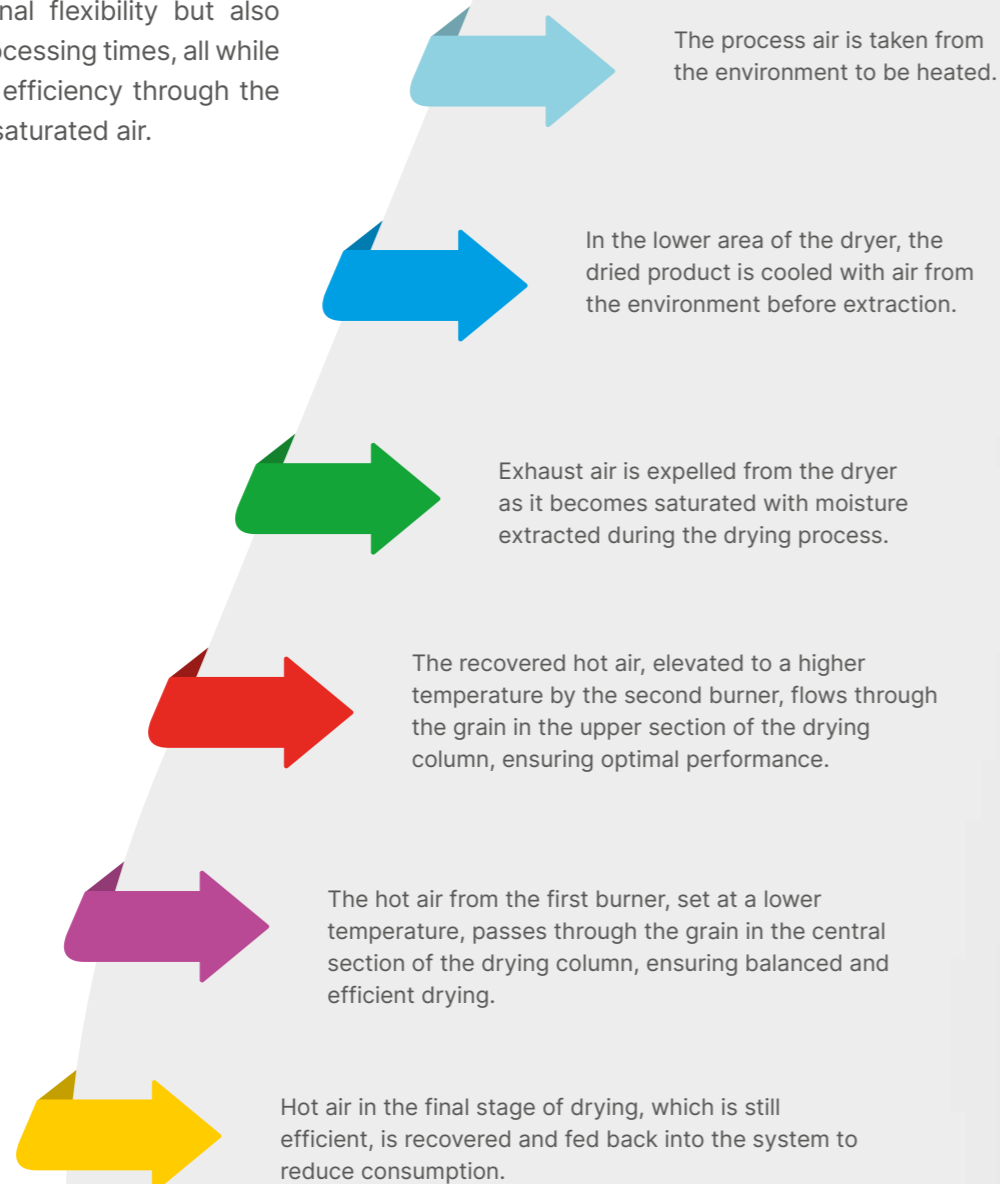
Equipped with a hopper, it supports the extraction device and it is designed to ensure precise and reliable extraction over time.


Energy-saving drying

MAXIMUM EFFICIENCY IN AIR RECIRCULATION

The FRP dryers achieve exceptional efficiency through an advanced, optimized drying process.

Equipped with a dual-burner system, the FRP series offers precise temperature control across multiple zones within the drying column, ensuring superior performance even with highly moist products. This dual heating setup not only enhances operational flexibility but also significantly shortens processing times, all while maintaining outstanding efficiency through the recirculation of partially saturated air.





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

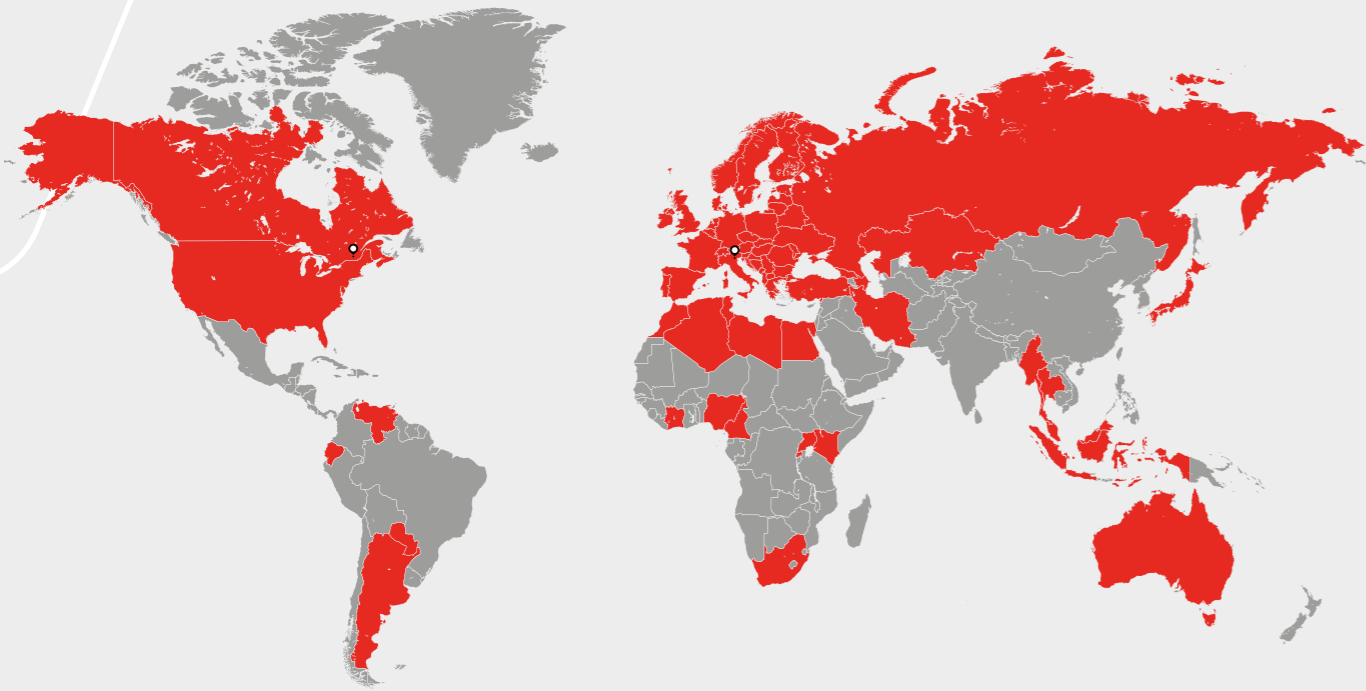
System for monitoring product moisture for additional control of the drying process.

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.



Dimensional Drawings

FRP SERIES

STRAHL
AMERICA

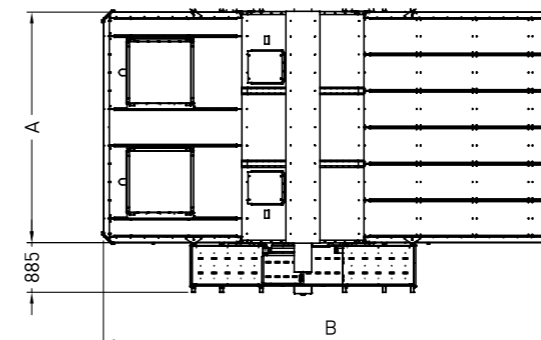
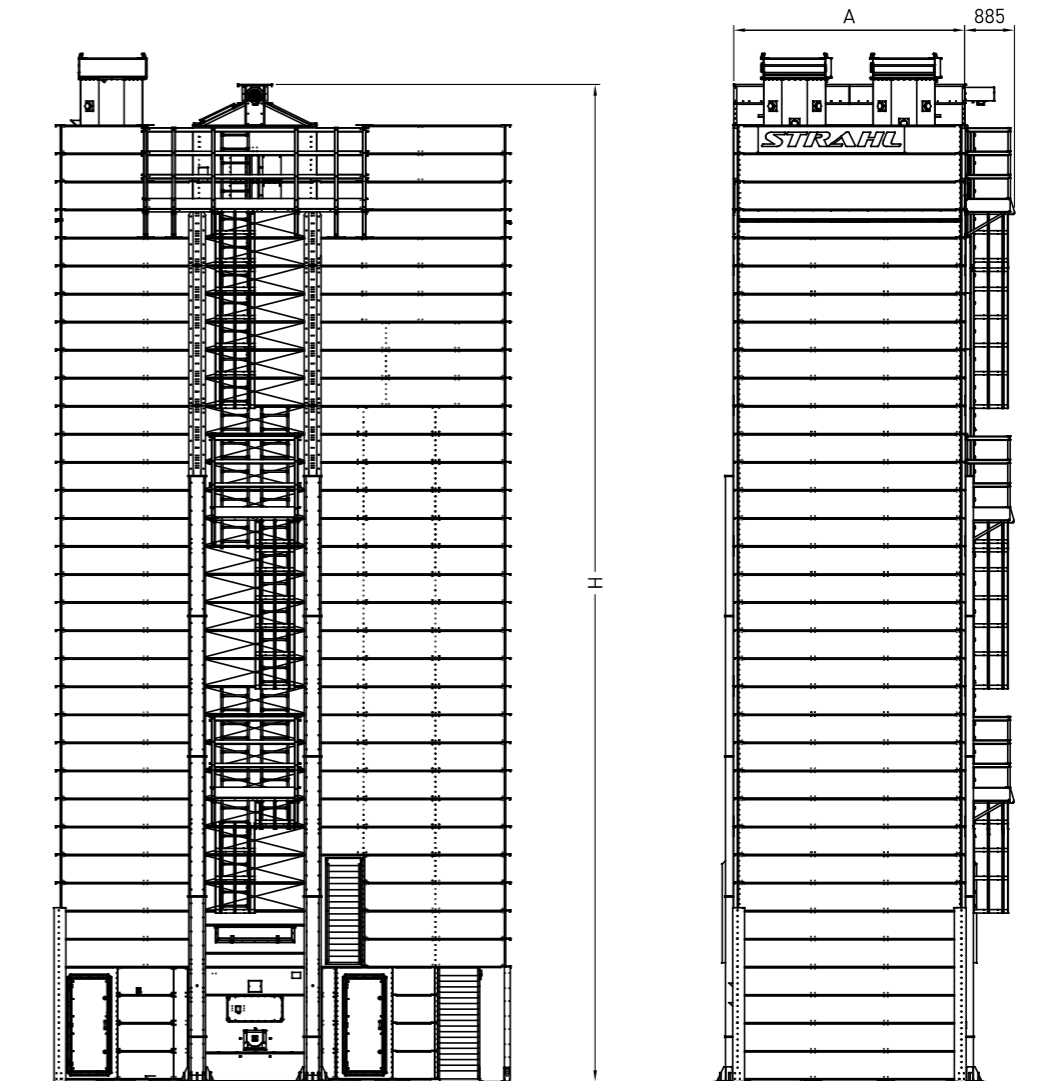
STRAHL
GRAIN DRYERS

Customer service

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.



FRP SERIES

Technical Data Sheet


The FRP 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 FRP series guarantees consistent and efficient performance.


MODEL		4 MODULES	6 MODULES			8 MODULES					
		3000 FRP	4000 FRP	5000 FRP	6000 FRP	7000 FRP	7000 FRP	8000 FRP	9000 FRP	10000 FRP	12000 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
	m ³	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
Rated heat output	kW	2.370	3.180	3.930	4.680	5.420	5.490	6.240	6.980	7.990	9.480
Max. burner output	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
Daily wet production Tonne/24h											
Mais 35% - 15%		206	275	344	413	481	481	550	619	688	825
Mais 25% - 15%		389	519	649	779	908	908	1.038	1.168	1.298	1.557
Mais 20% - 15%		708	944	1.180	1.416	1.652	1.652	1.888	2.124	2.360	2.832

MODEL		10 MODULES					12 MODULES				14 MODULES		
		10000 FRP	12000 FRP	13000 FRP	14000 FRP	15000 FRP	15000 FRP	17000 FRP	18000 FRP	20000 FRP	17000 FRP	18000 FRP	20000 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
	m ³	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
Rated heat output	kW	7.800	9.330	10.280	10.890	11.850	11.580	13.080	13.810	15.300	13.070	14.400	16.140
Max. burner output	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
Daily wet production Tonne/24h													
Mais 35% - 15%		688	825	894	963	1.031	1.031	1.169	1.238	1.375	1.169	1.238	1.375
Mais 25% - 15%		1.298	1.557	1.687	1.817	1.946	1.946	2.206	2.336	2.595	2.206	2.336	2.595
Mais 20% - 15%		2.360	2.832	3.068	3.304	3.540	3.540	4.012	4.248	4.720	4.012	4.248	4.720

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