

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

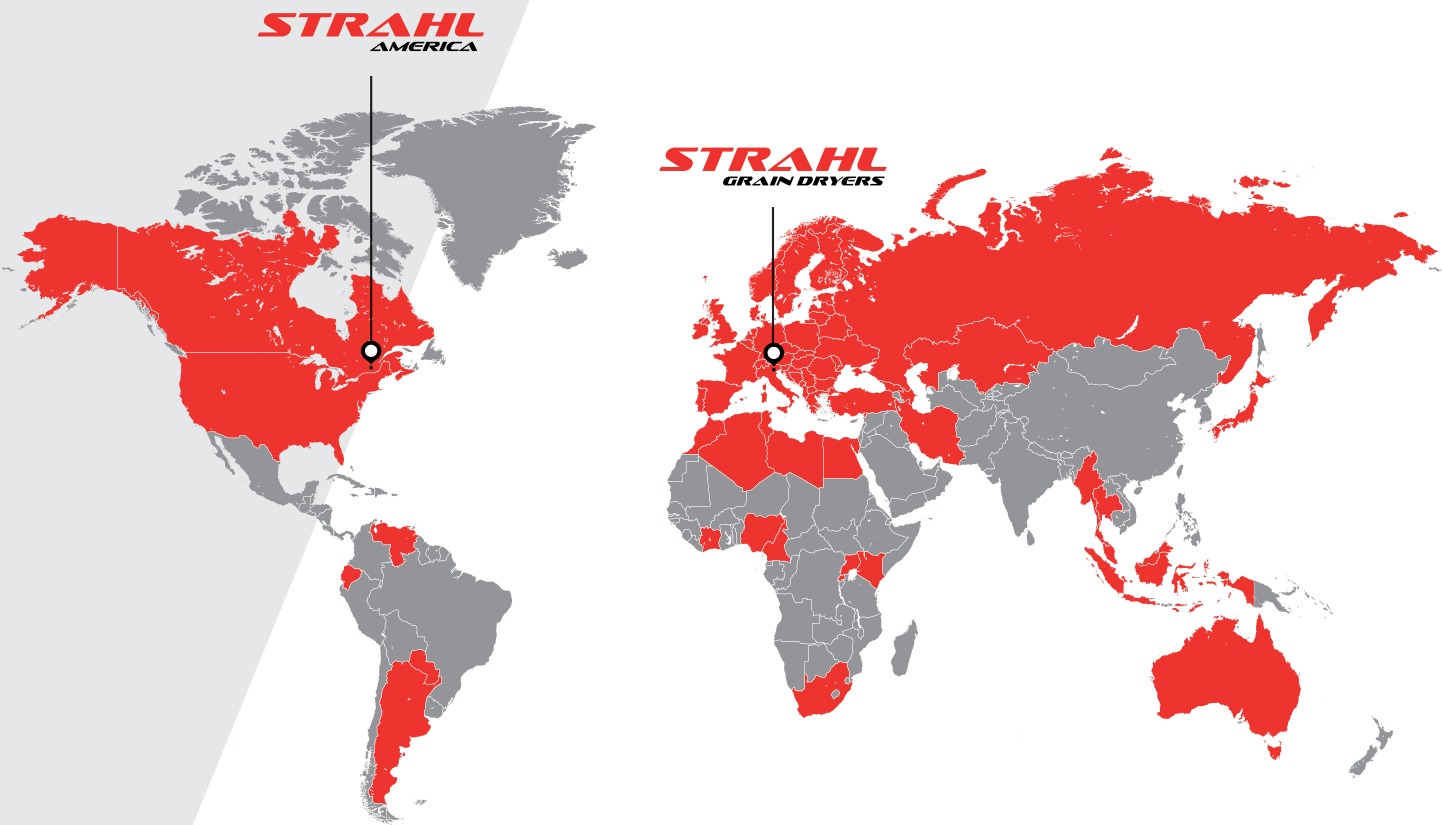
Consisted of opening shutters that allow for an even and controlled grain discharge

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



STRAHL
GRAIN DRYERS

Via Roma 139 | 31020 Villorba (TV) | Italy

+39 0422 919178

strahl@strahl.it
strahlgraindryers.com

X10
PERDIECI

STRAHL
GRAIN DRYERS

FRT SERIES

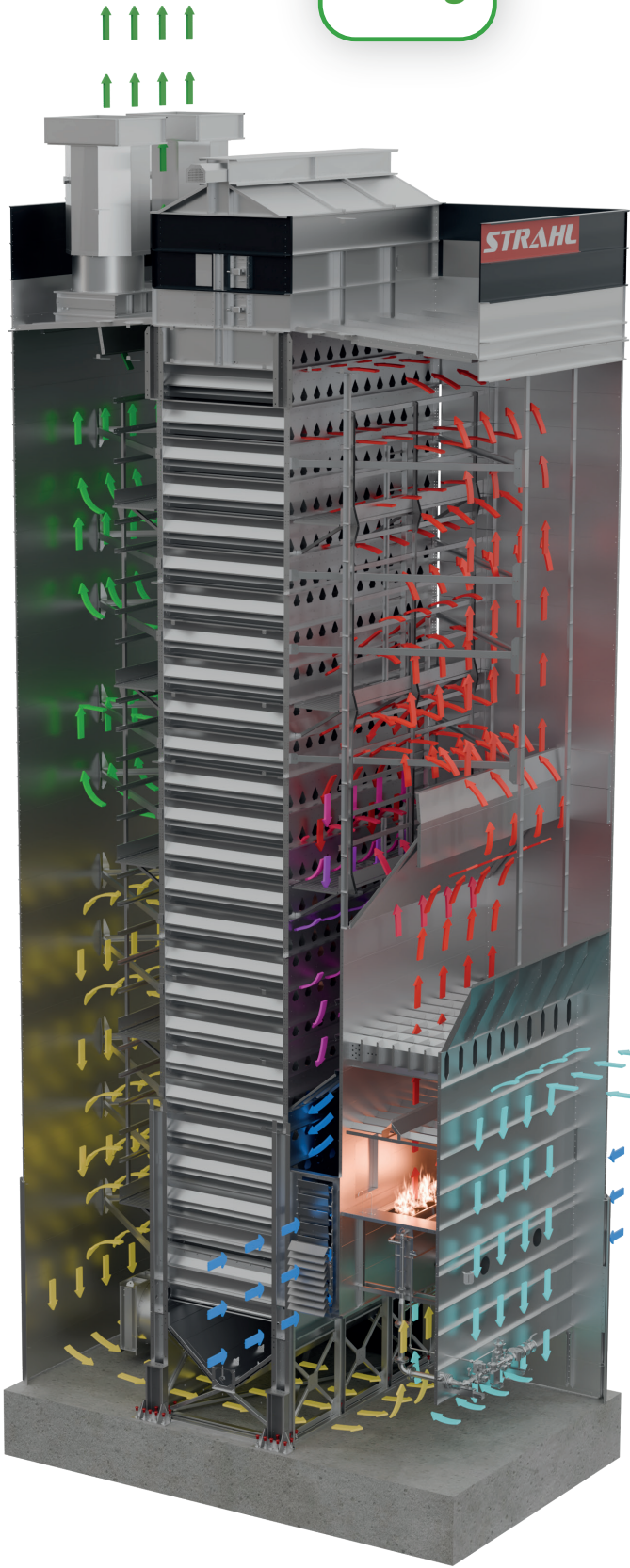
Grain Dryer



FRT - ENG

FRT Series: the continuous flow grain dryer with heat recovery

The FRT features the innovative raised positioning of the external air inlet channel, located beside the burner. This strategic configuration allows for the intake of air with a low dust content, while simultaneously exploiting the airflow itself as an integrated acoustic insulation barrier.



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

External air heated by the burner flows throught the grain releasing internal moisture.

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

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

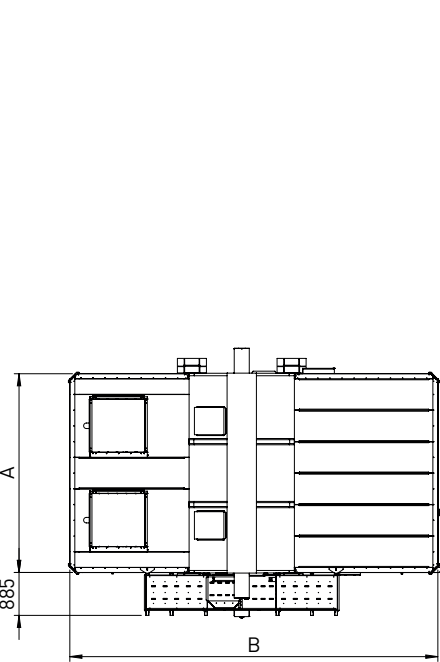
In the lower area of the dryer, the product is cooled with external air before extraction.



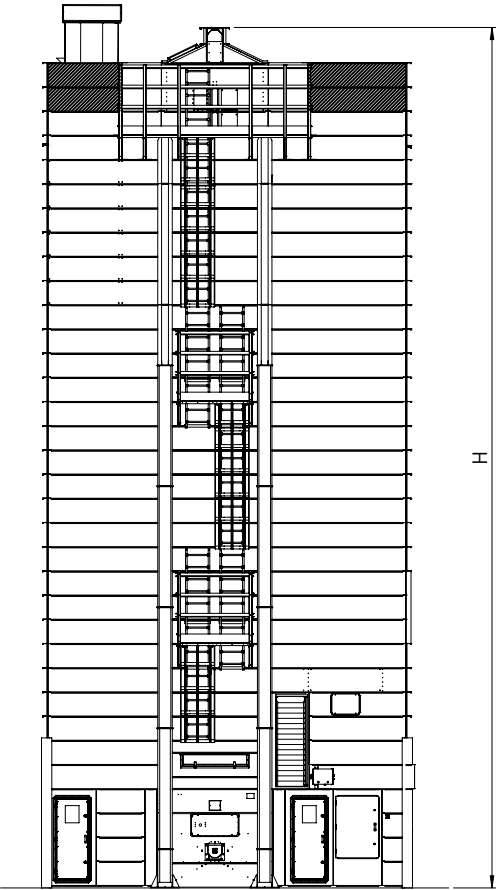
The Strahl software control

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.



Top view



Front view

MODEL	4 MODULES				6 MODULES								8 MODULES				
	1600 FRT	2000 FRT	2500 FRT	3000 FRT	2500 FRT	3000 FRT	3500 FRT	4000 FRT	4500 FRT	5000 FRT	6000 FRT	7000 FRT	5000 FRT	6000 FRT	7000 FRT	8000 FRT	9000 FRT
Overall dimensions	B m	7,6	7,6	7,6	7,6	7,6	7,6	7,6	7,6	7,6	8,6	9,1	7,60	7,60	7,60	8,60	8,60
	A m	2,80	2,80	2,80	2,80	4,10	4,10	4,10	4,10	4,10	4,10	4,10	5,40	5,40	5,40	5,40	5,40
	H m	10,75	12,25	14,25	16,75	10,75	12,25	13,75	14,75	16,25	17,75	20,25	14,75	16,75	18,75	20,75	22,75
Capacity	Ton	24	28	34	41	36	43	49	53	59	66	77	90	72	83	95	106
	m³	32	38	45	55	49	57	65	71	79	88	102	96	111	127	141	156
Exhaust air fans	N°	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3
	kW	9	11	15	22	15	22	30	11	15	15	22	15	22	30	18,5	22
Recovered air fans	N°	1	1	1	1	1	1	1	1	1	2	2	1	2	2	2	2
	kW	7,5	9	11	15	11	15	15	22	22	30	15	18,5	30	15	18,5	22
Nominal thermal power	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	3.780	4.530	5.290	6.050
Max. burner thermal power	kW	1.630	1.630	2.440	2.440	2.440	2.440	3.260	3.260	4.070	4.070	4.880	6.510	4.070	4.880	5.700	6.100
Hourly production rate (Ton/hour)																	
Corn 35% - 15%	4	6	7	8	7	8	10	11	13	14	17	20	14	17	20	22	25
Corn 25% - 15%	8	11	13	16	13	16	18	21	24	26	32	37	26	32	37	42	47
Corn 20% - 15%	15	19	24	29	24	29	33	38	43	48	57	67	48	57	67	76	86

MODEL	8 MODULES			10 MODULES						12 MODULES					14 MODULES		
	10000 FRT	11000 FRT	12000 FRT	10000 FRT	11000 FRT	12000 FRT	13000 FRT	14000 FRT	15000 FRT	15000 FRT	16000 FRT	17000 FRT	18000 FRT	20000 FRT	17000 FRT	18000 FRT	20000 FRT
Overall dimensions	B m	9,10	9,10	9,10	9,10	9,10	9,10	9,10	9,10	9,10	9,10	9,10	9,10	9,10	9,10	9,10	9,10
	A m	5,40	5,40	5,40	6,70	6,70	6,70	6,70	6,70	8,00	8,00	8,00	8,00	8,00	9,30	9,30	9,30
	H m	24,95	26,95	29,45	20,95	22,95	24,95	26,45	27,95	29,45	25,45	26,95	27,95	29,45	31,95	25,45	26,95
Capacity	Ton	128	139	153	133	146	162	172	182	193	198	211	219	231	252	233	248
	m³	171	186	204	177	195	215	229	243	257	264	281	292	309	336	311	330
Exhaust air fans	N°	3	3	4	3	3	4	4	4	5	5	5	4	4	4	4	4
	kW	22	30	22	22	30	22	22	30	22	22	30	37	37	45	37	45
Recovered air fans	N°	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
	kW	15	18,5	18,5	15	18,5	18,5	22	15	18,5	18,5	22	22	22	22	22	22
Nominal thermal power	kW	7.560	8.310	9.070	7.560	8.310	9.070	9.830	10.580	11.340	11.340	12.090	12.850	13.600	15.120	12.850	13.600
Max. burner thermal power	kW	8.140	9.770	9.770	8.140	9.770	9.770	11.400	11.400	11.400	11.400	12.210	13.020	14.650	16.280	13.020	14.650
Hourly production rate (Ton/hour)																	
Corn 35% - 15%	28	31	34	28	31	34	36	39	42	42	45	47	50	56	47	50	56
Corn 25% - 15%	53	58	63	53	58	63	68	74	79	79	84	89	95	105	89	95	105
Corn 20% - 15%	96	105	115	96	105	115	124	134	143	143	153	162	172	191	162	172	191

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.