

Crocus

Crocus has 15 years experience with production and assembly of custom-built solutions for conveying and industrial storage plant. Today, Crocus has an experienced and professional staff and 6000 m² production facilities. All products are manufactured in accordance with EU regulations.

Please contact Crocus for further technical information and prices.

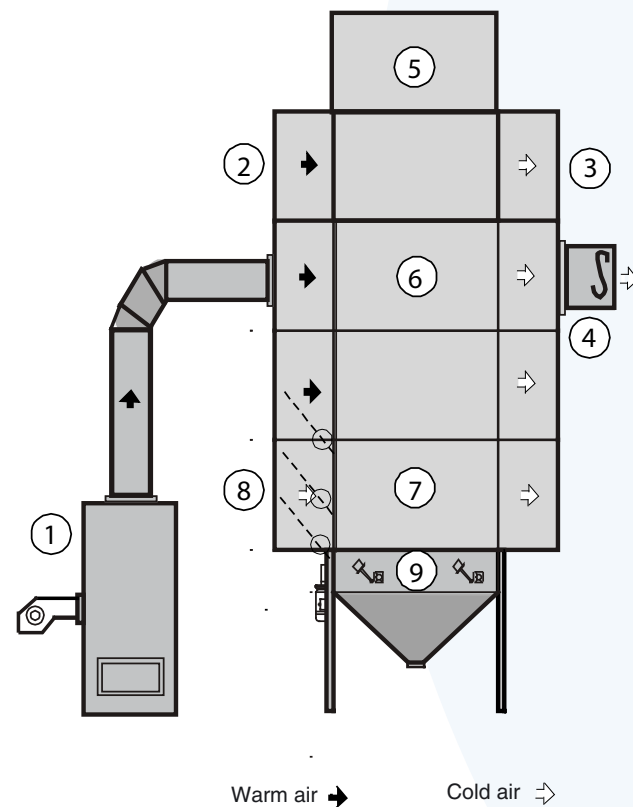
Continuous Flow Dryer

Crocus Continuous Flow Dryer

The Crocus Continuous flow dryer is designed to dry grain and similar free-flowing products such as wheat, barley, rape seed, maize and Soya beans. The dryer is typically deployed in the grain and agricultural industries etc..

Quality

The Crocus Continuous flow dryer is manufactured to industrial standards from 2-3 mm galvanised steel plate. Its design ensures effective usage, minimal running and maintenance costs and a long lifetime.



1. Furnace
2. Heat side
3. Suction side
4. Ventilator fan
5. Pre-hopper
6. Drying zone
7. Cooling zone
8. Vent for regulation of drying and cooling zones
9. Base section with outlet funnel

Matching your needs

The dryer column is manufactured in 5 standard sizes: GS, GT, GM, GL, GXL.

The number of drying and cooling sections in the column may be varied making it possible to adapt capacity and reduction of water content to individual drying and cooling needs and local conditions. Discharge regulation ensures that run through times can be adjusted likewise.

All Crocus Continuous dryers can be supplied with direct or indirect heat sources including natural gas and diesel, with or without dust extraction.

Homogeneous and uniform drying

Each dryer section is equipped with a number of V-shaped air channels. These channels are narrowed at one end, designed so that the product only comes into contact with smooth surfaces and are staggered in relation to each other ensuring a uniform distance between the channels and an even product distribution throughout the dryer column.

Air is sucked from the air channels across the grain. As a result a vacuum is created which minimises heat loss and dust. The uniform passage of the grain through the dryer ensures that every single grain is affected from all directions and ensures a homogeneous drying.

Discharge regulation

The dried product is discharged via motor driven discharge rollers. Rate of discharge is controlled from the switchboard using interval regulation.

The discharge trays under the rollers are equipped with springs to prevent foreign bodies from damaging the rollers. The easily regulated active discharge ensures a homogeneous passage through the dryer and provides complete control of the drying process.

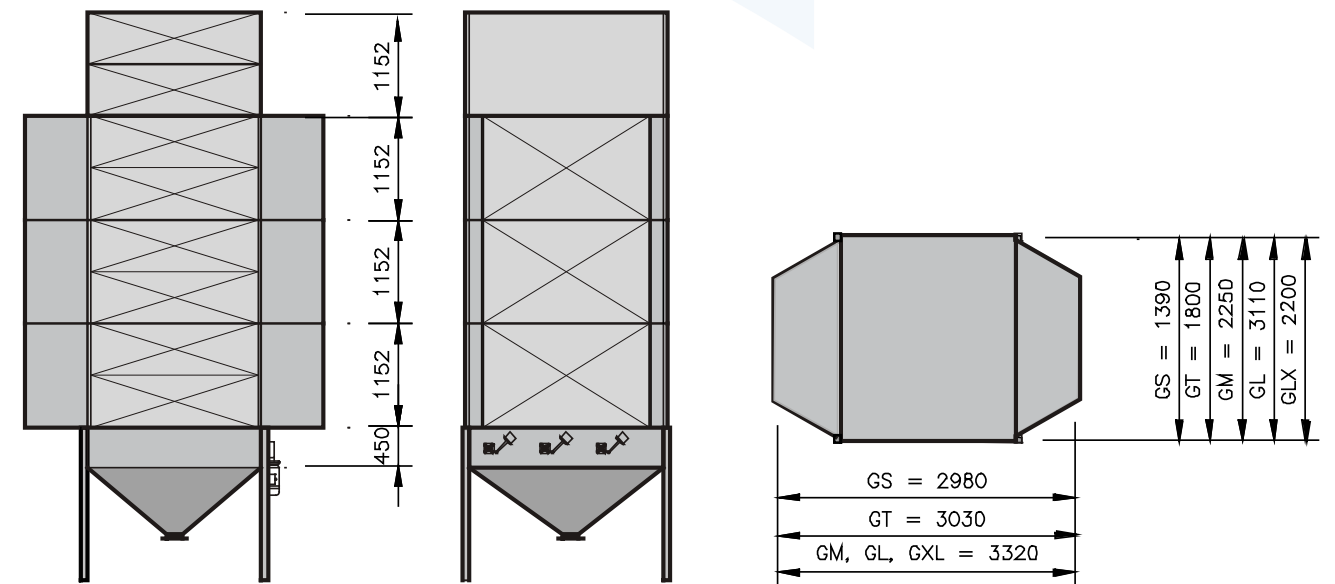
Complete control

The drying process is controlled and monitored from a single control panel with a built-in safety cut-off switch.

Level sensors may be placed in the pre-hopper in order to ensure that the top dryer section remains full during operation. The dryer section may also be equipped with temperature sensors.

The control panel may be supplemented with control of associated transport equipment.

Technical data



Sections	Weight incl. grain (ton)					Total height (meter)					Capacity (ton/hour)					Heat demand (kW)				
	GS	GT	GM	GL	GXL	GS	GT	GM	GL	GXL	GS	GT	GM	GL	GXL	GS	GT	GM	GL	GXL
2	7	10	--	--	--	5	5,2	--	--	--	2,9	3,8	--	--	--	180	240	--	--	--
3	9	12	15	22	31	6,1	6,3	6,5	7	7,7	4,8	6,4	8	11,2	16	290	380	480	680	971
4	12	16	19	27	39	7,3	7,5	7,7	8,2	8,8	5,8	7,7	9,6	13,4	19,1	350	460	570	800	1143
5	14	20	23	32	46	8,4	8,6	8,8	9,4	10	7,7	10,2	12,7	18,3	26,1	460	610	760	1070	1529
6	16	22	26	37	53	9,6	9,8	10	10,5	11,1	8,7	11,5	14,4	20,2	28,9	520	680	870	1220	1743
7	18	25	30	42	60	10,7	10,9	11,1	11,6	12,3	10,5	13,9	17,7	24,9	35,6	640	850	1070	1500	2143
8	21	29	34	47	67	11,9	12,1	12,3	12,8	13,4	11,4	15,1	19,1	27	38,6	700	930	1140	1600	2286
9	--	--	--	52	74	--	--	--	14	14,6	--	--	--	31,6	45,1	--	--	--	1850	2643
10	--	--	--	57	81	--	--	--	15,1	15,7	--	--	--	33,8	48,3	--	--	--	1960	2800
11	--	--	--	62	89	--	--	--	16,3	16,9	--	--	--	38,5	55	--	--	--	2350	3357
12	--	--	--	67	96	--	--	--	17,4	18	--	--	--	40,6	58	--	--	--	2450	3500

Assumptions:

Capacity is quoted as intake capacity for Barley dried from 20-16% at air temperature 85°

C. External air temperature 15° C with 75% humidity.

Cooling 5-10 ° C above cooling temperature.

Content per section:

Type	GS	GT	GM	GL	GLX
m ³	2,28	3,04	3,80	5,30	7,60
tons	1,7	2,26	2,8	4,0	5,6

Air content per section:

Type	GS	GT	GM	GL	GLX
Nm ³	5100	6800	8500	12000	17000

All measurements are quoted in mm