



KONGSKILDE

Recirculating Drier

KRD 3

Technical Specifications

Effective and Economical Drying

With Kongskilde KRD recirculating dryers the grain is conveyed by attached elevator in regular intervals from the bottom hopper to the top buffer. After several movements in the drier the grain ends up with very uniform moisture content.

When drying high moisture crops like maize, the recirculation combined with a large buffer section create a tempering period, where the kernels get a rest for internal distribution of moisture. This reduces cracks and makes evaporation easy, when the grain comes into the drying zone again.

The drier is built from galvanised components for a long service life.

Moist air plenum is standard - this reduces the pollution of neighbouring environment.

The way through the Drier

The grain is filled into the buffer section on top of the drier.

The crop zigzags slowly through the drying column.

The good drying economy is a result of the tapered shape and distribution pattern of the ducts.

In the discharge section a set of swing gates control velocity of the grain through the drier. The bottom hopper has inspection door.

The drying- and cooling section keeps clean

The KRD drier has a smooth surface on the inside.

The Buffer Section

The number of buffer sections can be adapted to the type of operation.

A large buffer is normally preferred.



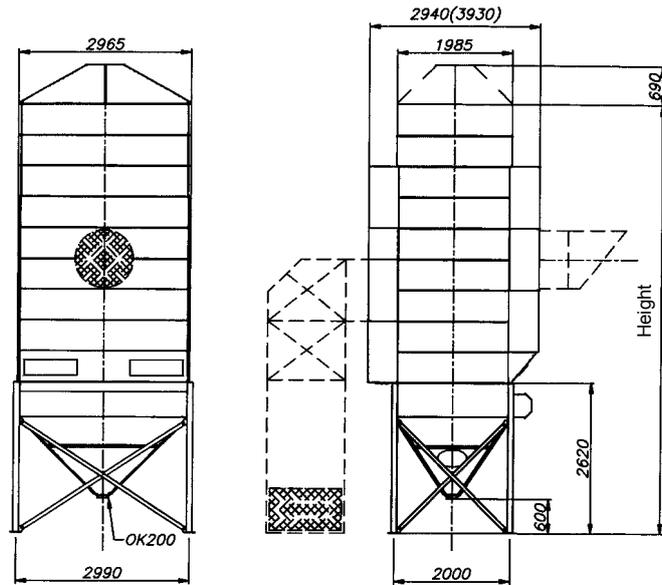
Even Discharge

The metering pulse type swing gates provide an even discharge of the crop.
The discharge is mounted with 0,55 kW linear motor.

Optional Extras

- Extra buffer sections for high moisture grains.
- Air shutters in the plenum to make drying of part full drier possible.
- Kongskilde supplies blowers and heaters for oil, gas and hot water.
- Level sensors in the buffer section and outlet hopper prevent overflowing of the conveying system.
- Kongskilde supplies control panels with automatic control to comply with customer wishes.

Dimensions in mm.



Nominal Capacities			Wheat 19% - 15%				Maize 35% - 15%		Air Regr.	Height	Weight
Type	Holding Volume	Holding Capacity 0,75T/m ³	Drying air 65°C		Drying air 90°C		Drying air 110°C				
			Cap.	Heat Regr.	Cap.	Heat Regr.	Cap.	Heat Regr.			
KRD	M ³	T	T/H	Kcal/H	T/H	Kcal/H	T/H	Kcal/H	M ³ /H	mm	Kg
3.04.2	15,1	11,3	4,2	241.920	6,8	362.880			16.800	5.829	13.100
3.04.3	18,1	13,5					1,9	459.648	16.800	6.364	15.300
3.05.2	17,2	12,9	5,2	302.400	8,5	453.600			21.000	6.364	15.000
3.05.4	23,1	17,3					2,4	574.560	21.000	7.434	19.400
3.06.3	22,0	16,6	6,2	362.880	10,2	544.320			25.200	7.434	19.000
3.06.4	25,2	18,9					2,9	689.472	25.200	7.969	21.300
3.07.3	24,4	18,2	7,3	423.360	11,9	635.040			29.400	7.969	21.000
3.07.4	27,3	20,4					3,4	804.384	29.400	8.504	23.325
3.08.3	26,5	19,8	8,3	483.840	13,6	725.760			33.600	8.504	22.900
3.08.5	32,4	24,2					3,9	919.296	33.600	9.574	27.400
3.09.3	28,6	21,4	9,4	544.320	15,3	816.480			37.800	9.039	25.000
3.09.5	34,5	25,8					4,3	1.034.208	37.800	10.110	29.500
3.10.3	30,7	22,9	10,4	604.800	17,0	907.200			42.000	9.574	27.000
3.10.5	36,6	27,4					4,8	1.149.120	42.000	10.644	31.900
3.11.3	32,8	24,5	11,5	665.280	18,8	997.920			46.200	10.110	29.300
3.12.4	37,8	28,3	12,5	725.760	20,5	1.088.640			50.400	11.179	33.400
3.13.4	39,9	29,9	13,6	786.240	22,2	1.179.360			54.600	11.714	35.300

All capacities relate to input of moist, clean, 20 °C grain, - excl. cooling, filling and emptying time.

Ambient air 15 °C and 70 % RH. - Driers used at lower ambient temperatures or erected outdoor need additional heat to reach nominal capacity.

The drying capacity depend on actual blower and heater combination.

Grain is a biological product and change from lot to lot, - therefore all data are nominal only.

Larger driers are delivered upon request.



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