



Recirculating Drier *KRD 3*

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. There are no screws or sharp edges, where the crop can hide.

The Buffer Section

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

A large buffer is normally preferred.



Even Discharge

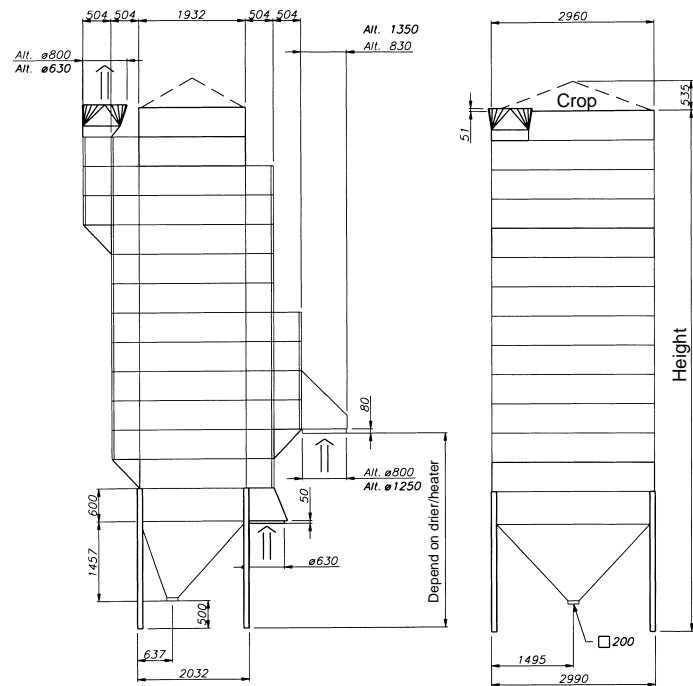
The metering pulse type swing gates provide an even discharge of the crop.

The discharge is either hand operated or mounted with 0,25 kW linear motor.

Optional Extras

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

Dimensions in mm.



Nominal Capacities			Wheat 19% - 15%				Maize 35% - 15%		Air Reqr.	Height	Weight
Type	Holding Volume	Holding Capacity	Drying air 65°C		Drying air 90°C		Drying air 100°C				
		0,75T/m ³	Cap.	Heat Reqr.	Cap.	Heat Reqr.	Cap.	Heat Reqr.	M ³ /H	mm	Kg
KRD	M ³	T	T/H	Kcal/H	T/H	Kcal/H	T/H	Kcal/H			
3.04.2	15,2	11,4	3,9	230400	6,3	345600	1,4	391680	16000	5765	17200
3.05.2	17,3	12,9	4,9	288000	7,8	432000	1,8	489600	20000	6300	19000
3.06.2	19,4	14,5	5,9	345600	9,4	518400	2,1	587520	24000	6835	20900
3.07.2	21,5	16,1	6,9	403200	10,9	604800			28000	7370	22900
3.07.3	24,5	18,3	6,9	403200	10,9	604800	2,5	685440	28000	7905	25225
3.08.2	23,6	17,7	7,8	460800	12,5	691200			32000	7905	24800
3.08.3	26,6	19,9	7,8	460800	12,5	691200	2,8	783360	32000	8440	27100
3.09.2	25,7	19,2	8,8	518400	14,1	777600			36000	8440	26800
3.09.3	28,7	21,5	8,8	518400	14,1	777600	3,2	881280	36000	8975	29200
3.10.2	27,8	20,8	9,8	576000	15,6	864000			40000	8975	28900
3.10.3	30,8	23,1	9,8	576000	15,6	864000	3,5	979200	40000	9610	31600
3.11.3	32,9	24,6	10,8	633600	17,2	950400			44000	10045	33400
3.11.4	35,9	26,9	10,8	633600	17,2	950400	3,9	1077120	44000	10580	35825
3.12.3	35,0	26,2	11,8	691200	18,8	1036800			48000	10580	35300
3.12.4	38,0	28,5	11,8	691200	18,8	1036800	4,3	1175040	48000	11115	37700
3.13.3	37,1	27,8	12,7	748800	20,3	1123200			52000	11115	37200
3.13.4	40,1	30,0	12,7	748800	20,3	1123200	4,6	1272960	52000	11650	39600

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.



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