

Grain Storage Silos

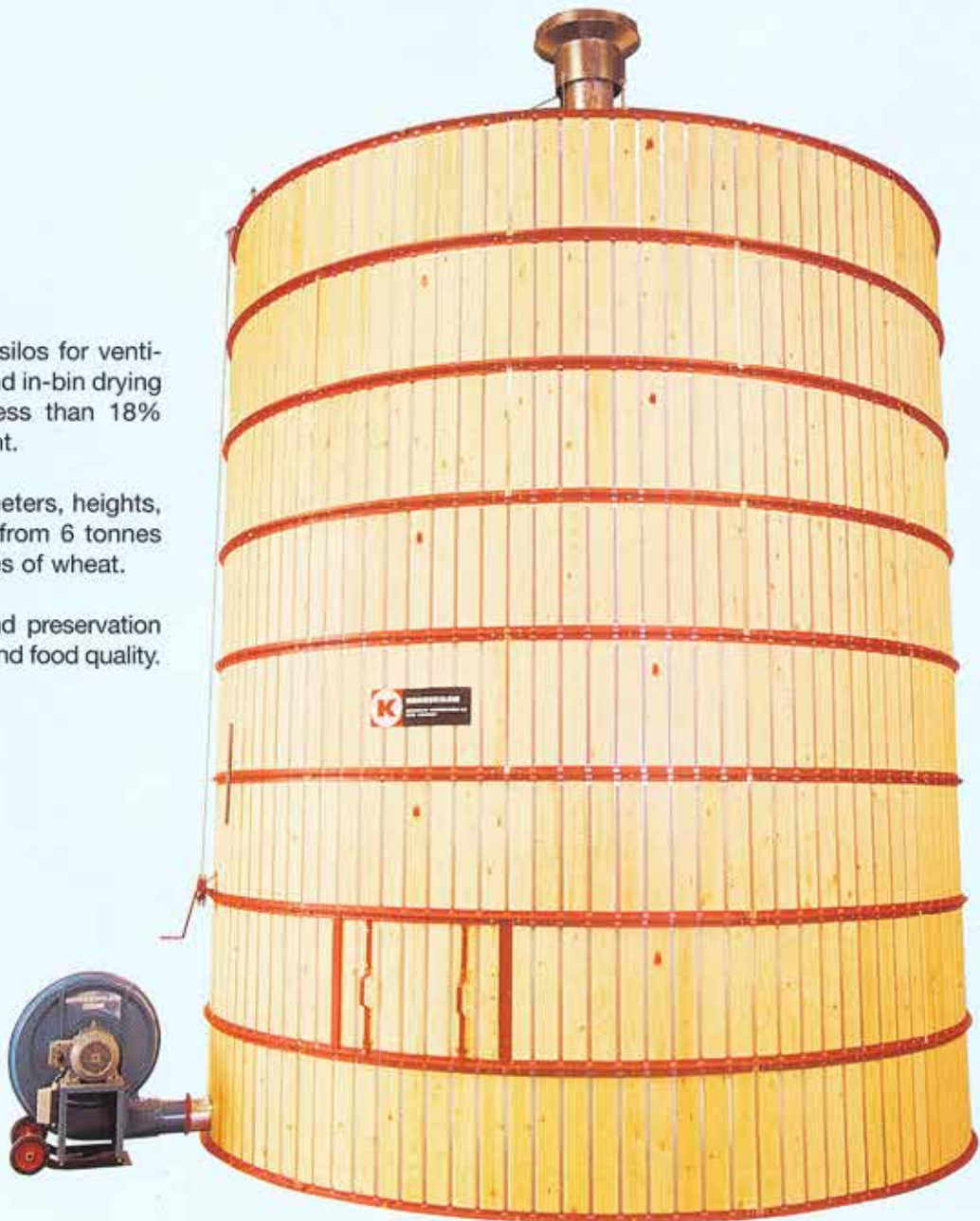
KC

Kongskilde
Grain Storage
Silos

Indoor storage silos for ventilated storage and in-bin drying of grain with less than 18% moisture content.

Numerous diameters, heights, and capacities from 6 tonnes up to 272 tonnes of wheat.

Safe storage and preservation of germination and food quality.



Facts about Kongskilde KC Grain Storage Silos

Application

Kongskilde ventilated storage silos are used for indoor storage of grain and granular material.

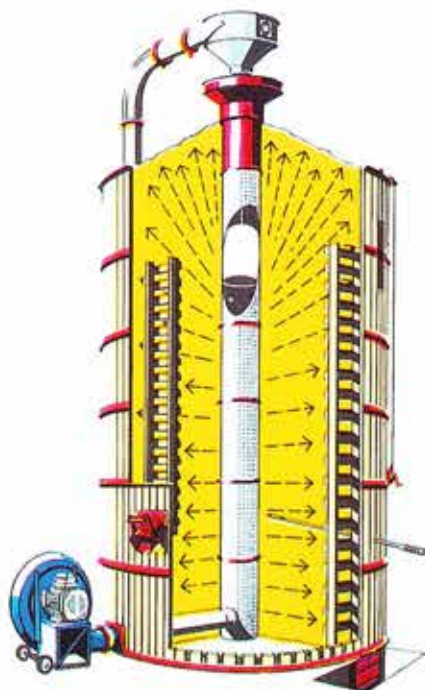
The KC storage silo is superior in offering safe storage. It is therefore often chosen for high priced quality products, such as seed grain, malting barley and - especially in tropical regions - food grain.

Under tropical conditions the indoor wooden silo concept avoids condensation problems in the grain.

Aeration System

The KC silo has a 280 mm perforated central pipe for aeration at rates of 20-60 m³/ton/h.

All wall panels have louvered aluminium strips ensuring an evenly distributed radial airflow. Aeration can work with part-full silos as well.



Capacities: Drying/Conditioning and Storage Silos

Silomodel	Diameter (internal) m	Height of silo wall* m	Height of the central pipe	Capacity (wheat) tonnes
KC 20/24	2	2,4	3,1	6
KC 20/30	2	3,0	3,7	7
KC 20/36	2	3,6	4,3	9
KC 20/42	2	4,2	4,9	10
KC 20/48	2	4,8	5,5	12
KC 20/54	2	5,4	6,1	13
KC 20/60	2	6,0	6,7	14
KC 20/66	2	6,6	7,3	16
KC 27/30	2,7	3,0	3,7	13
KC 27/36	2,7	3,6	4,3	16
KC 27/42	2,7	4,2	4,9	19
KC 27/48	2,7	4,8	5,5	21
KC 27/54	2,7	5,4	6,1	24
KC 27/60	2,7	6,0	6,7	26
KC 27/66	2,7	6,6	7,3	29
KC 33/36	3,3	3,6	4,3	25
KC 33/42	3,3	4,2	4,9	30
KC 33/48	3,3	4,8	5,5	34
KC 33/54	3,3	5,4	6,1	38
KC 33/60	3,3	6,0	6,7	42
KC 33/66	3,3	6,6	7,3	46
KC 33/72	3,3	7,2	7,9	50
KC 33/78	3,3	7,8	8,5	54
KC 33/84	3,3	8,4	9,1	59
KC 33/90	3,3	9,0	9,7	63
KC 33/96	3,3	9,6	10,3	67
KC 40/42	4,0	4,2	5,5	43
KC 40/48	4,0	4,8	6,1	49
KC 40/54	4,0	5,4	6,7	55
KC 40/60	4,0	6,0	7,3	61
KC 40/66	4,0	6,6	7,9	67
KC 40/72	4,0	7,2	8,5	73
KC 40/78	4,0	7,8	9,1	79
KC 40/84	4,0	8,4	9,7	84
KC 40/90	4,0	9,0	10,3	90
KC 40/96	4,0	9,6	10,9	96
KC 47/48	4,7	4,8	6,1	67
KC 47/54	4,7	5,4	6,7	75
KC 47/60	4,7	6,0	7,3	83
KC 47/66	4,7	6,6	7,9	91
KC 47/72	4,7	7,2	8,5	99
KC 47/78	4,7	7,8	9,1	107
KC 47/84	4,7	8,4	9,7	116
KC 47/90	4,7	9,0	10,3	124
KC 47/96	4,7	9,6	10,9	132
KC 53/48	5,3	4,8	6,1	88
KC 53/54	5,3	5,4	6,7	98
KC 53/60	5,3	6,0	7,3	109
KC 53/66	5,3	6,6	7,9	120
KC 53/72	5,3	7,2	8,5	130
KC 53/78	5,3	7,8	9,1	141
KC 53/84	5,3	8,4	9,7	152
KC 53/90	5,3	9,0	10,3	162
KC 53/96	5,3	9,6	10,9	173
KC 60/54	6,0	5,4	7,3	125
KC 60/60	6,0	6,0	7,9	138
KC 60/66	6,0	6,6	8,5	152
KC 60/72	6,0	7,2	9,1	165
KC 60/78	6,0	7,8	9,7	179
KC 60/84	6,0	8,4	10,3	193
KC 60/90	6,0	9,0	10,9	206
KC 60/96	6,0	9,6	11,5	220
KC 67/60	6,7	6,0	7,9	171
KC 67/66	6,7	6,6	8,5	188
KC 67/72	6,7	7,2	9,1	205
KC 67/78	6,7	7,8	9,7	221
KC 67/84	6,7	8,4	10,3	238
KC 67/90	6,7	9,0	10,9	255
KC 67/96	6,7	9,6	11,5	272

* 1 m³ = 800 kg of wheat.



Model of 6000 ton grain storage installation, Nigeria.

Several thousands KC ventilated silos are operating successfully with many different crops all over the world. Large grain storage installations have been designed by Kongsilde and equipped with Kongsilde silos in Denmark, Yugoslavia, Hungary, Portugal, U.K., Sweden, Nigeria, Liberia, Kenya, Japan, Indonesia, Malaysia, Philippines, Brazil, Paraguay, Mexico and many others.



1800 ton grain drying and storage silo, Denmark.

Facts about Kongskilde Grain Storage Silos

Building Block Idea

The silos are built of modular sections of wood - aluminium panels fitted together with angle iron hoops. The galvanized central ventilation pipe comes in sections as well.

With this system many different sizes can be built from same basic components.

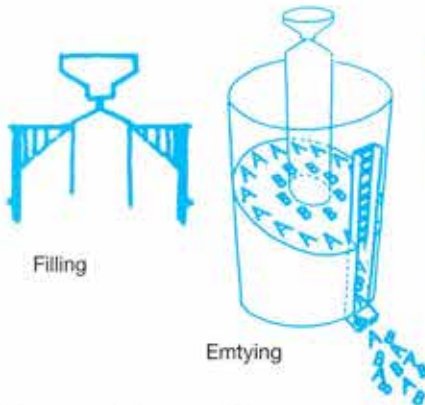
The modular sections are produced and packed for minimum shipping cost.



Filling and Emptying

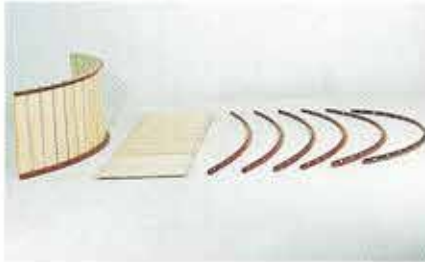
- are both important factors. Even distribution during filling is ensured with a filling distributor.

Even distribution improves aeration and drying and stabilizes the silo.



The emptying/mixing device ensures even moisture content of delivered grain by mixing grain from around ventilation pipe and from outer diameters. It also ensures stability of the silo.

The Basic Parts



Mounting the Silo

- is a local job. The parts are easy to assemble and illustrated mounting instructions are packed with the items of the silo.



Drying in the KC Silos

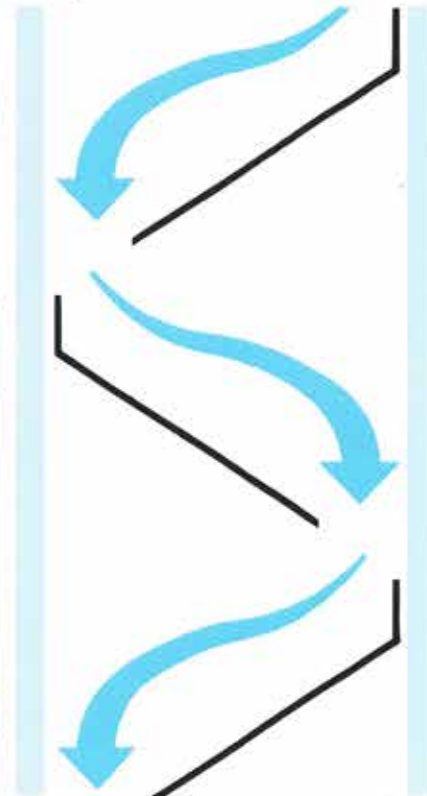
In principle the KC silo is an aerated storage facility.

The smaller KC silo can dry grain down from around 18% without recirculation. However, silo-diameters are always crucial to the possibilities.

For this type of sensitive seed the Kongskilde silos may be equipped with a filling retarder, which reduces free-fall damage.

We recommend Kongskilde TRL 75 blower for drying and conditioning of grain in KC silos.

Filling retarder



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