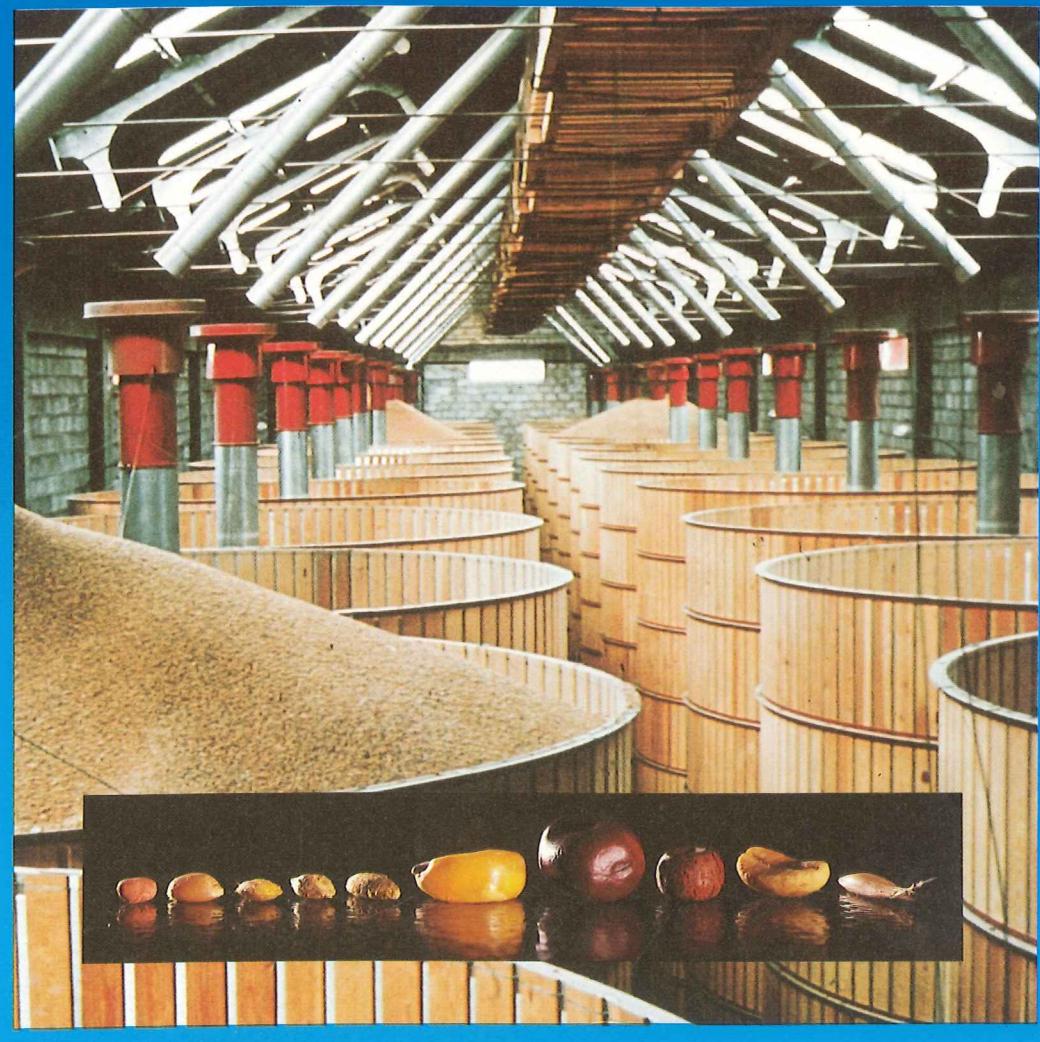


Grain Storage Silos

KC and KCE



Indoor storage silos for ventilated storage
and in-bin drying of grain with less than 20% moisture content.
Numerous diameters, heights, and capacities from 6 tonnes
up to 272 tonnes of wheat.

Safe storage and preservation of germination ability.

 **KONGSKILDE**

Facts about Kongskilde Grain Storage Silos

Application

Kongskilde storage silos are used for indoor storage of grain and granular material, e.g. high quality feed grain, malting barley, seed grain and other heavy, free flowing seeds. Under tropical conditions the indoor wooden silo concept avoids condensation problems in the grain.

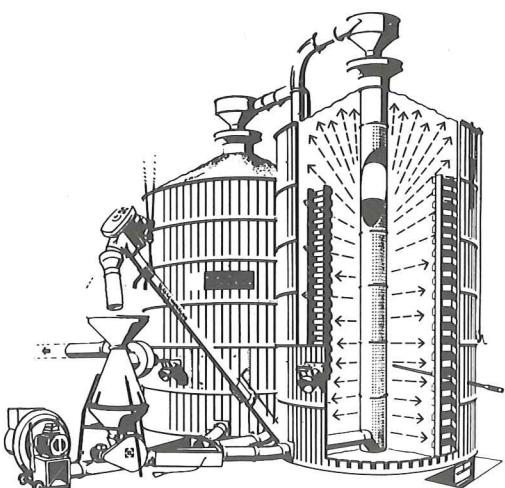
Aeration System

Two concepts are available for air distribution system.

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

The KCE silo has a 770 mm perforated central pipe for higher air rates: 100-200 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

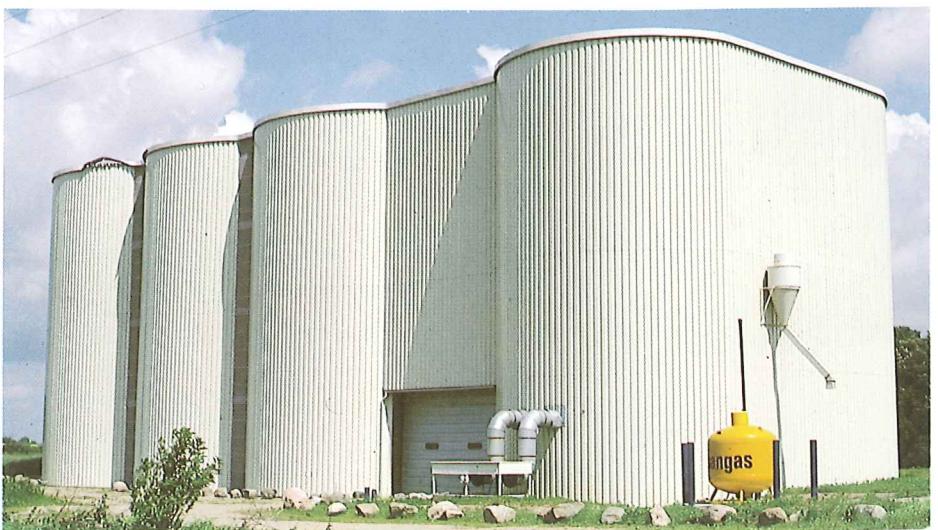
Silo model	Diameter (internal) m	Height of silo wall *) m	Capacity (wheat) tonnes	
			KC (28 cm Ø)	KCE (77 cm Ø)
KC/KCE 20/24	2	2,4	6,1	5,1
KC/KCE 20/30	2	3,0	7,5	6,4
KC/KCE 20/36	2	3,6	9,0	7,7
KC/KCE 20/42	2	4,2	10,4	8,9
KC/KCE 20/48	2	4,8	11,8	10,2
KC/KCE 20/54	2	5,4	13,3	11,4
KC/KCE 20/60	2	6,0	14,7	12,6
KCE 20/66	2	6,6	—	13,9
KC/KCE 27/30	2,7	3,0	13,7	12,5
KC/KCE 27/36	2,7	3,6	16,2	14,9
KC/KCE 27/42	2,7	4,2	18,9	17,4
KC/KCE 27/48	2,7	4,8	21,4	19,8
KC/KCE 27/54	2,7	5,4	24,1	22,2
KC/KCE 27/60	2,7	6,0	26,7	24,6
KC/KCE 27/66	2,7	6,6	29,3	27,0
KC 33/30	3,3	3,0	21,5	—
KC/KCE 33/36	3,3	3,6	25,7	24,0
KC/KCE 33/42	3,3	4,2	29,8	27,9
KC/KCE 33/48	3,3	4,8	33,8	31,9
KC/KCE 33/54	3,3	5,4	38,0	35,8
KC/KCE 33/60	3,3	6,0	42,1	39,8
KC/KCE 33/66	3,3	6,6	46,2	43,8
KCE 33/72	3,3	7,2	—	47,7
KCE 33/78	3,3	7,8	—	51,7
KCE 33/84	3,3	8,4	—	55,6
KCE 33/90	3,3	9,0	—	59,5
KCE 33/96	3,3	9,6	—	63,3
KC 40/30	4,0	3,0	31,2	—
KC 40/36	4,0	3,6	37,2	—
KC/KCE 40/42	4,0	4,2	43,1	41,4
KC/KCE 40/48	4,0	4,8	49,1	47,2
KC/KCE 40/54	4,0	5,4	55,0	53,0
KC/KCE 40/60	4,0	6,0	61,0	58,8
KC/KCE 40/66	4,0	6,6	67,0	64,6
KCE 40/72	4,0	7,2	—	70,5
KCE 40/78	4,0	7,8	—	76,2
KCE 40/84	4,0	8,4	—	82,1
KCE 40/90	4,0	9,0	—	87,9
KCE 40/96	4,0	9,6	—	93,8
KC/KCE 47/30	4,7	3,0	42,6	41,4
KC/KCE 47/36	4,7	3,6	50,7	49,4
KC/KCE 47/42	4,7	4,2	58,9	57,4
KC/KCE 47/48	4,7	4,8	67,0	65,4
KC/KCE 47/54	4,7	5,4	75,2	73,4
KC/KCE 47/60	4,7	6,0	83,4	81,4
KC/KCE 47/66	4,7	6,6	91,5	89,4
KC/KCE 47/72	4,7	7,2	99,7	97,4
KC/KCE 47/78	4,7	7,8	107,5	105,5
KC/KCE 47/84	4,7	8,4	116,0	113,5
KC/KCE 47/90	4,7	9,0	124,2	121,5
KC/KCE 47/96	4,7	9,6	132,3	129,5
KC/KCE 53/30	5,3	3,0	55,8	54,6
KC/KCE 53/36	5,3	3,6	66,5	65,1
KC/KCE 53/42	5,3	4,2	77,2	75,7
KC/KCE 53/48	5,3	4,8	87,9	86,2
KC/KCE 53/54	5,3	5,4	98,6	96,8
KC/KCE 53/60	5,3	6,0	109,3	107,4
KC/KCE 53/66	5,3	6,6	120,0	117,9
KC/KCE 53/72	5,3	7,2	130,6	128,5
KC/KCE 53/78	5,3	7,8	141,4	139,0
KC/KCE 53/84	5,3	8,4	152,1	149,6
KC/KCE 53/90	5,3	9,0	162,7	160,2
KC/KCE 53/96	5,3	9,6	173,4	170,7
KC/KCE 60/30	6,0	3,0	70,8	69,5
KC/KCE 60/36	6,0	3,6	84,3	83,0
KC/KCE 60/42	6,0	4,2	97,9	96,5
KC/KCE 60/48	6,0	4,8	111,4	109,9
KC/KCE 60/54	6,0	5,4	125,0	123,4
KC/KCE 60/60	6,0	6,0	138,6	136,8
KC/KCE 60/66	6,0	6,6	152,2	150,2
KC/KCE 60/72	6,0	7,2	165,7	163,8
KC/KCE 60/78	6,0	7,8	179,3	177,2
KC/KCE 60/84	6,0	8,4	192,8	190,6
KC/KCE 60/90	6,0	9,0	206,4	204,1
KC/KCE 60/96	6,0	9,6	220,0	217,5
KC 67/42	6,7	4,2	121,0	—
KC 67/48	6,7	4,8	137,8	—
KC 67/54	6,7	5,4	154,6	—
KC 67/60	6,7	6,0	171,4	—
KC 67/66	6,7	6,6	188,2	—
KC 67/72	6,7	7,2	205,0	—
KC 67/78	6,7	7,8	221,7	—
KC 67/84	6,7	8,4	238,5	—
KC 67/90	6,7	9,0	255,3	—
KC 67/96	6,7	9,6	272,0	—

*) The ventilation pipe protrudes approx. 80 cm above silo depending on silo height. 1 m³ = 800 kg of wheat.



Large grain storage installations have been designed by Kongskilde and equipped with Kongskilde silos in Denmark, Yugoslavia, Hungary, Portugal, U.K., Sweden, Nigeria, Liberia, Kenya, Japan, Indonesia, Malaysia, Philippines, Brazil, Paraguay, Mexico and many others

The KC/KCE 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 – feed grain.



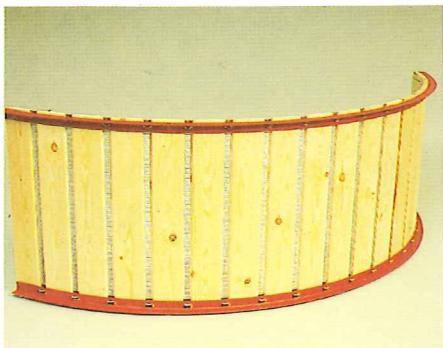
Facts about Kongskilde Grain Storage Silos

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.

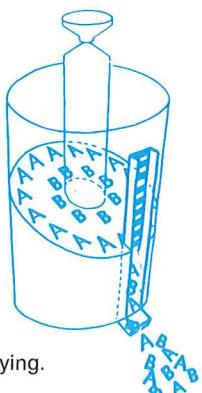


Filling and Emptying

– are both important factors. Even distribution during filling is ensured with a filling distributor. Even distribution improves aeration and drying and stabilizes the silo.



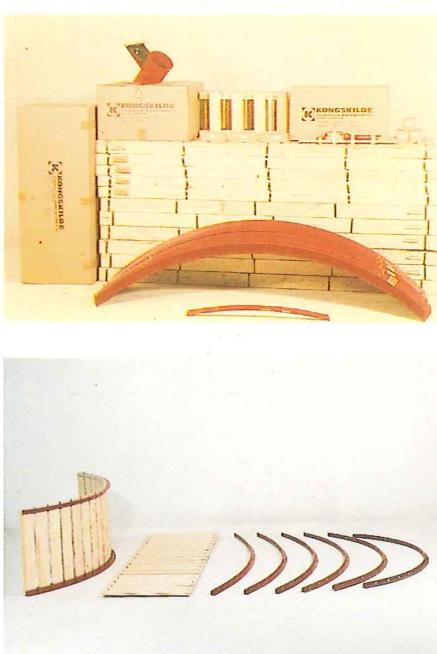
Filling.



Emptying.

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 and KCE Silos

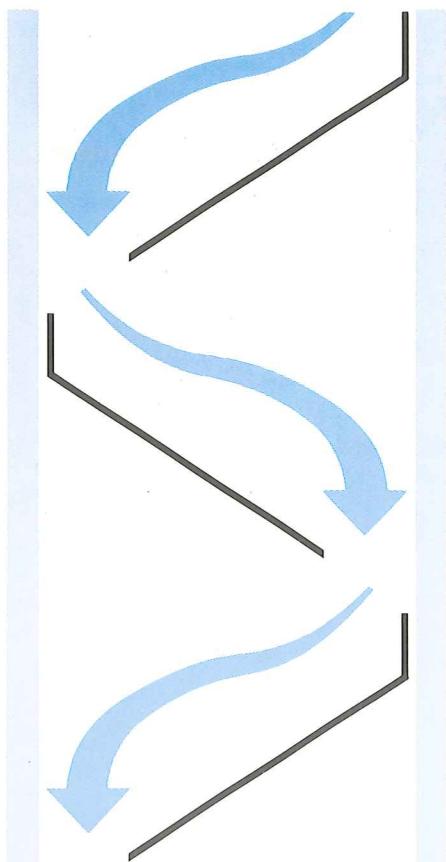
Grain drying without recirculation can be done in the KCE silos and to a limited extent in the KC silo as well.

The KCE can dry grain down from 20% with large volumes of mainly unheated air and the KC silo can dry grain down from around 17% without recirculation. However, silo-diameters are always crucial to the possibilities.

In principle the KC silo is an aerated storage facility and the KCE is a storage drying facility.

The KCE is especially applicable to sensitive seeds such as peas, beans and other seeds which may lose germination ability in conveying systems.

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



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