

THE BEST SOLUTIONS
FOR GRAIN DRYING
AND STORAGE



GRAIN HANDLING SOLUTIONS

Drying solutions

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ANTTI'S LEAD IS A DRY FACT

Dry facts since 1952

Antti's roots go back to 1952 in Kuusjoenperä, where a one-man blacksmith's workshop first learned the formula for survival: Listen carefully to the customer. And act without delay. Even today, Antti's success is built on the same mindset. Our mission is to deliver high-quality products that improve our customers' productivity. And if challenges arise, we develop a solution until the customer is satisfied. We work so that you can achieve more.



We aim to be a forerunner in responsibility and sustainable development. By developing and offering durable, high-quality products and solutions, we strive to reduce environmental impact, support the farming community, and promote fossil-free operations.

Product development ensures quality

Our product development team has years of collaboration and research experience together with farmers to understand their genuine grain processing needs and expectations.

This development work is continuous and customeroriented. We aim to identify challenges related to different environments and to create practical solutions for them.



GRAIN DRYING SOLUTIONS

What kind of drying solution are you looking for? Antti offers reliable and efficient grain dryers for every farm – whether you prefer a quick delivery or a fully customised system designed for your farm's exact needs. Our deep experience in grain drying and active in-house product development ensure you get the best return on your investment.





Affordable drying

The popular X-Series dryers are fast and ready-made solutions. Low construction costs without surprises. Easy-to-use drying automation.

STAND-ALONE DRYERS

Dryers for every farm

Antti's Stand-alone dryers are tailored to each farm's specific needs in terms of capacity and automation. You can choose either Optima or Ultima automation.

X-SERIES - EASY AND **AFFORDABLE DRYING**

Antti's X-Series dryers represent a new era in grain drying. With the X-Series, commissioning the dryer is as easy and fast as with a mobile dryer. The actual construction time on the farm is short because the X-Series dryer is delivered as ready-made modular units. The modules are manufactured at Antti's own factory under controlled quality conditions.





the X-Series and watch the video

construction, they can be quickly installed and deployed.

Efficient vacuum technology, now in a compact size

All X-Series dryers are built using Antti's modern drying technology. The heat source is an efficient oil heater equipped with an Oilon burner compatible with HVO renewable fuel. X-Series dryers dry feed and seed grains as well as other small seeds quickly and energy-efficiently.

Speed is increased by the standard vacuum technology, in which the air from the heater is drawn through the grain batch.

The efficient pre-cleaner, negative pressure system, and optional Dustex unit also reduce dust levels. The integrated heater and vertically installed axial fan save space, reduce noise, and boost drying efficiency. Compact and smart!

Carefully engineered, reliable solutions

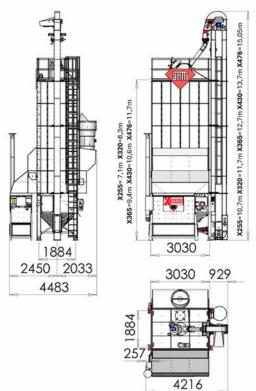
The X-Series products reflect Antti's long experience in grain drying and its strong commitment to quality. The automation of X-Series dryers is designed for maximum ease of use.

A frequency converter–controlled axial fan saves energy and allows stepless adjustment of air volume for all conditions. Components and structures – such as the feed mechanism motor and bearings – are heavy–duty and built to last.

Versatile accessories

- Dustex dust separator
- Cyclone and dust container
- Scales
- Cladding and insulation
- Partial batch drying
- Motorised 3-way divider
- Motorised intake shutter
- Remote monitoring





X-Series dryer models

MODEL	X255	X320	X365	X430	X476	X255 Maize	X320 Maize
Volume	25,5 m ³	32,0 m ³	36,5 m ³	43,0 m ³	47,6 m³	25,5 m ³	32,0 m ³
Elevator E60t/h	10,7 m	11,7 m	12,7 m	13,7 m	15,05 m	10,7 m	11,7 m
Heater model	400 kW	500 kW	650 kW				
Fan with frequency converter	8,66 kW	8,66 kW	12,5 kW	17,2 kW	17,2 kW	17,2 kW	17,2 kW
Pre-cleaner (kW)	2,2 kW						
Intake	Gravity or conveyor pit						
Maximum power*	35A	35A	41A	49A	49A	49A	49A

^{*} Power during drying. The possible filling conveyor current has not been taken into account. Voltage 400 V.



Easy and reliable batch drying

Antti's Stand-alone dryers commonly use the batch drying technique. In batch drying, the grain is dried and circulated in batches through the machinery – a reliable and easy drying method. High drying temperatures can be used without overheating the

grain, which speeds up the drying process and saves energy. The continuous pre-cleaning removes debris and loose husks during drying, which increases the hectolitre weight of the grain. The friction effect on the grain surface also reduces toxin content.

The vacuum drying technology ensures a high efficiency ratio. Frequency converter control improves energy efficiency and provides new options for optimising the drying process. Antti dryers are known for their long service life, with low maintenance and spare part costs. The resale value remains high.

Dry effectively – all crops, all conditions

Whether it's grain, oilseeds or small seeds, the Stand-alone dryer handles it all – efficiently and reliably. The drying process is based on four elements: air, heat, structure and design. The balance between these has been perfected through Antti's long-term product development.

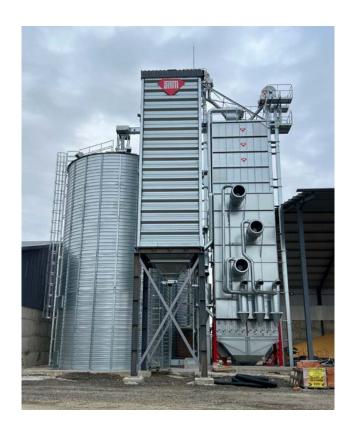
The Mixflo (MF) batch drying technique ensures that the grain circulates in the machinery until the entire batch is evenly dried. The drying takes place automatically in stages – filling, drying, cooling and emptying – without any risk of overheating. The result is a high-quality, well-dried harvest.

Duoflo dryers - flexible to use

With Duoflo (DF) dryers, you can choose how to dry. For small quantities, seeds or very wet grain – use batch mode. For feed grain or large quantities – use continuous mode.

Wide model range and easy commissioning

Antti's Stand-alone dryers cover a wide model range suitable for all farm sizes and needs.



The dryers can be delivered with Plug&Dry equipment, meaning all electrical installations are pre-wired, and the dryer is ready for operation right after assembly. This shortens commissioning time and reduces installation costs.

Choose Antti for reliability and quality

Antti dryers are tried and tested technology that perform year after year. Choosing Antti means choosing reliability, efficiency and Finnish-made quality. A Stand-alone dryer is an investment that pays for itself – harvest after harvest.



DRYER MODELS

Mixflo (MF)

DRYER SERIES - AMBI	ENT CONDITIONS: 20°C/75% RH

			MDITIONS.						
				POWER DRAW	AND DRYING CA	PACITY AT DIFFI	ERENT TEMPERA	TURES (WHEAT	18 → 14% W.B.)
					MPERATURE)°C		MPERATURE)°C		MPERATURE)°C
MODEL	VOLUME M³	TOTAL MACHINERY HEIGHT, M	ELEVATOR MIN. HEIGHT (WITH A 3-WAY DISTRIBUTOR), M	POWER DRAW [KW] (1	DRYING CAPACITY [T/H] ⁽²	POWER DRAW [KW] (1	DRYING CAPACITY [T/H] ⁽²	POWER DRAW [KW] (1	DRYING CAPACITY [T/H] ⁽²
ANTTI MIXFI	LO-SERIES ·	BATCH DRYERS							
22MF2	16.9	9.4	11.2	220	3.5	250	4.0	300	4.8
32MF2	20	10.6	12.2	320	5.2	380	6.1	440	7.1
33MF2	24.3	11.7	13.7	320	5.2	380	6.1	440	7.1
43MF2	27.4	12.9	14.7	430	6.9	510	8.2	590	9.5
44MF2	31.8	14	15.7	430	6.9	510	8.2	590	9.5
55MF2	39.2	16.3	18.2	540	8.7	630	10.2	740	11.9
65MF2	42.3	17.5	19.2	650	10.5	760	12.3	890	14.4
75MF2	45.4	18.6	20.7	760	12.3	890	14.4	1040	16.8
85MF2	48.6	19.8	21.7	860	13.9	1010	16.3	1180	19
23MF3	31.8	12.2	14.2	320	5.2	380	6.1	440	7.1
32MF3	30	12.2	14.2	490	7.9	570	9.2	670	10.8
33MF3	36.5	13.3	15.2	490	7.9	570	9.2	670	10.8
43MF3	41.2	14.5	16.2	650	10.5	760	12.3	890	14.4
44MF3	47.6	15.6	17.2	650	10.5	760	12.3	890	14.4
53MF3	45.8	15.6	17.2	810	13.1	950	15.3	1110	17.9
55MF3	58.8	17.9	19.7	810	13.1	950	15.3	1110	17.9
63MF3	50.5	16.8	18.7	970	15.6	1140	18.4	1330	21.5
65MF3	63.5	19.1	20.7	970	15.6	1140	18.4	1330	21.5
75MF3	68.2	20.2	22.2	1130	18.2	1330	21.5	1550	25
85MF3	72.8	21.4	23.2	1300	21	1520	24.5	1780	28.7
23MF4	42.4	13.2	15.7	430	6.9	510	8.2	590	9.5
33MF4	48.6	14.3	16.7	650	10.5	760	12.3	890	14.4
44MF4	63.5	16.6	18.7	860	13.9	1010	16.3	1180	19
55MF4	78.4	18.9	21.2	1080	17.4	1270	20.5	1480	23.9
65MF4	84.6	20.1	22.2	1300	21	1520	24.5	1780	28.7
75MF4	90.9	21.2	23.7	1510	24.4	1770	28.5	2070	33.4
85MF4	97.1	22.4	24.7	1730	27.9	2020	32.6	2370	38.2

¹⁾ Calculated power requirement at the stated drying temperature under conditions of 20 °C and 75% RH.

Dryer model keys

22MF2 = number of drying cells

22MF2 = number of top sections

22MF2 = type Mixflo

22MF2 = base type 2/3/4

222DF2 = number of cooling sections

222DF2 = number of drying cells

222DF2 = number of top sections

222DF2 = type Duoflo

222DF2 = base type 2/3/4



²⁾ Calculated drying capacity – cooling, filling and emptying times are not included in the calculation.

Duoflo (DF)

DRYER SERIES · AMBIENT CONDITIONS: 20°C/75% RH												
			WHE	AT	AT MAIZE			RAPE SEED				
			MOISTURE REMOVAL 18% →14%	DRYING TEMP. 90°C	MOISTURE REMOVAL 24% →14%	DRYING TEMP. 120°C	MOISTURE REMOVAL 13% →7%	DRYING TEMP. 75°C				
MODEL	TOTAL VOLUME M³	HEIGHT M	HEATER POWER KW	CAPACITY T/H	HEATER POWER KW	CAPACITY T/H	HEATER POWER KW	CAPACITY T/H				
ANTTI DUOFLO	DF-SERIES · C	ONTINUOUS	/BATCH DRYERS									
242DF2	29.4	13.6	600	9.5	1050	5.8	350	3.8				
252DF2	32.5	14.8	750	11.8	1350	7.3	450	4.7				
262DF2	35.6	15.9	900	14.2	1600	8.7	550	5.6				
372DF2	41.8	18.2	1050	16.6	1850	10.2	650	6.6				
382DF2	45.0	19.4	1200	19.0	2100	11.6	700	7.5				
243DF3	50.5	15.8	900	14.2	1600	8.7	550	5.6				
253DF3	55.2	16.9	1100	17.7	2000	10.9	700	7.0				
263DF3	59.9	18.1	1350	21.3	2400	13.1	800	8.5				
373DF3	69.2	20.4	1550	25.0	2800	15.3	950	9.9				
383DF3	73.9	21.6	1800	29.0	3200	17.5	1050	11.3				
243DF4	67.4	16.8	1200	18.9	2100	11.6	700	7.5				
253DF4	73.6	17.9	1500	23.7	2650	14.6	900	9.4				
263DF4	79.8	19.1	1800	28.4	3150	17.5	1050	11.3				
373DF4	92.3	21.4	2100	33.1	3700	20.4	1250	13.2				
383DF4	98.6	22.6	2500	40.0	4200	23.3	1400	15.0				

Stated drying power values are computational.

ANTTI'S DRY FACTS

1. Gentle grain handling

Antti dryers handle the grain gently. Even moist grain moves reliably thanks to the precisely shaped bottomless buckets and optimal belt speed. The unique non-clogging Antti pendulum feeder ensures smooth and accurate grain circulation. The bottom troughs are easy to clean. All Antti dryers use the same familiar, tested and proven technology.

3. Antti – automatically

Antti offers a range of smart, customisable solutions for the monitoring and automation of grain processing. The dryers can also be controlled remotely – even from the cabin of a combine harvester.

2. Dries even the smallest seeds

Antti dryers are suitable for all grain and seed sizes. The dryer does not require mechanical adjustments when changing seed types. The circulation speed and discharge rate are adjusted steplessly.



EQUIP YOUR DRYER FOR TOP PERFORMANCE

With the right and well-maintained equipment, you can achieve the best results – also in grain drying. Antti's dryer accessories are designed to save energy, improve efficiency, and create better working conditions by reducing both noise and dust.

Dustex – less noise and dust

Dustex removes dust and debris from the dryer's exhaust air, resulting in air that is very clean when blown out into the surroundings. Dustex is connected to the axial fan that expels the air from the dryer. The dynamic blades of Dustex produce an optimal rotating airflow that transfers dust, debris and even fine particles into the system's cyclone. From there, waste is collected into a container while clean air is discharged outside.

Customer feedback on Dustex highlights a cleaner yard and significantly reduced noise levels. Dustex reduces noise emissions around the dryer by up to 6 decibels. A separate silencer is also available.





Cladding saves money

It is recommended to protect the dryer machinery with an insulation and sheet metal cladding package. An insulated dryer consumes 10–25% less energy. The energy losses depend on drying and outdoor temperatures. High drying temperatures and a long inlet air pipe cause higher losses. Cladding also slightly shortens drying times, which increases capacity. The sheet metal protection shields the dryer from wind and rain. Inlet air pipe insulation is not included in the package.

Antti dust container keeps the area clean

Efficient dust control is important to complete the drying system properly. The dust and debris removed from the grain and the air can be easily collected in the Antti Dust Container, which keeps the dryer surroundings clean. The Dust Container is durable, extremely easy to use and has an impressive capacity of 7 m³.



Optivol partial batch automation

Optivol is an automatic closing system of a drying cell that enables the drying of small batches without manually closing the ducts. Optivol automatically opens and closes the ducts in each drying cell according to the grain level, maximising the amount of grain being dried at any given time. Fewer top sections are needed compared to drying cells, resulting in increased drying capacity for the same total volume.

Heat recovery for batch dryers and continuous dryers

Save energy and improve efficiency! Antti's heat recovery system reuses the heat energy from the exhaust air, significantly reducing energy consumption and improving the efficiency of the drying process. This smart solution provides tangible savings and supports sustainable agriculture. Heat recovery is the smart choice for farmers who want to combine efficiency, economy and environmental responsibility – resulting in lower emissions and a smaller carbon footprint.





A scale is always needed

By weighing each grain batch, you know exactly what the field has produced.

Load cells are installed under the dryer's legs. The weight reading is displayed in Antti's automation control center and cloud service. Optima 2.0 remembers the basic information of the latest batches. Ultima's silo log automatically records comprehensive batch data in the online service.

AUTOMATION – MAKING GRAIN DRYING EASIER

Antti's automation solutions make drying easy and reliable. Automation reduces the need for supervision, simplifies work during the drying season, and increases the dryer's utilisation rate – allowing the process to run more efficiently and without unnecessary interruptions.



Antti automation solutions

X-Series – Compact standard control centre for filling, drying, and emptying. Nothing unnecessary.

Optima 2.0 – Versatile control centre for automating filling, drying, and emptying. Equipment covers even the most demanding needs.

Ultima – Flexible and extensive automation system offering full control for professionals without limiting your grain handling options.

Features of antti automation systems

	X-SERIES	X-SERIES PLUS	OPTIMA 2.0	OPTIMA 2.0 PLUS	ULTIMA	ULTIMA PLUS	ULTIMA PRO
DRYING AUTOMATION CONTROL METHOD							
EXHAUST AIR TEMPERATURE	Х	Х	Х	X	Х	Х	Х
GRAIN MOISTURE					Χ	Х	Χ
DRYING TIME					Χ	Х	Х
STEPLESS FEED RATE ADJUSTMENT	Х	X	Χ	X	Χ	X	Χ
STEPLESS AIR VOLUME ADJUSTMENT	Х	X	Χ	X	Χ	X	Χ
REMOTE MONITORING AND SETTING ADJUSTMENT		X		X		X	Χ
SMS NOTIFICATIONS AND ALERTS		X		X		X	Χ
AUTOMATIC FILLING CONTROL			Χ	X	Χ	X	Χ
AUTOMATIC EMPTYING CONTROL			Χ	X	Χ	X	Χ
UP TO FIVE PRE-SET FUNCTION SEQUENCES			Χ	X			
DUAL DRYER CONTROL CAPABILITY*					Χ	X	Χ
UNLIMITED FUNCTION SEQUENCES					Χ	Х	Χ
CUSTOMISABLE GRAIN ROUTES					Χ	X	Χ
AUTOMATIC DISCHARGE TO MULTIPLE SILOS					Χ	X	Χ
AUTOMATIC FILLING FROM MULTIPLE SOURCES					Χ	X	Χ
GRAIN MOISTURE MEASUREMENT					Χ	X	Χ
BATCH LOGGING							Χ
AUTOMATIC SILO LOGGING							Χ
ANNUAL REPORT							X

^{*} Two separate dryers can be controlled, sharing devices such as intake pit, heater and silo storage.

Accessories

	X-SERIES	OPTIMA 2.0	ULTIMA
FILLING CONVEYOR WITH FREQUENCY CONVERTER	X	Х	X
DISCHARGE HOPPER SHUT-OFF GATE	WITH EXTENSION UNIT	X	X
2-WAY DIVIDER	WITH EXTENSION UNIT	X	X
3-WAY DIVIDER	WITH EXTENSION UNIT	Χ	X
6-WAY DIVIDER		X	X
OPTIVOL PARTIAL BATCH AUTOMATION		X	X
REMOTE CONTROL OF PRE-CLEANER	X	X	X

Remote monitoring makes everyday life easier

Remote monitoring is available for all systems: you get real-time status information, key events, alerts, and you can adjust drying settings remotely via mobile. This saves time and eliminates unnecessary visits to the dryer.

Our automation is designed to meet diverse needs – from compact basic solutions to extensive and flexible systems. Ease of use and expandability are at the core.

Our automation solutions combine user-friendliness, efficiency, and modern technology – ensuring that grain drying is controlled and profitable.



OPTIMA – EASY-TO-USE AND RELIABLE AUTOMATION

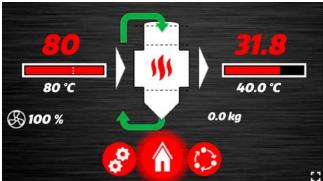
Optima 2.0 manages the entire drying process automatically – from filling to emptying. The automatic batch change keeps the process running without unnecessary interruptions, saving time and improving efficiency.

Clear and effortless Optima 2.0

The user interface is clear, and the five pre-programmed functions make operation easy. Exhaust air temperature-controlled drying is straightforward and dependable, ensuring a consistent result.

Optima 2.0 is a cost-effective solution that offers everything essential without unnecessary extras. The component design ensures reliability and long service life, while the range of accessories provides flexibility according to individual needs.







The dryer is easy to operate using the clear Optima 2.0 touchscreen, which visually displays everything happening at the dryer.

ULTIMA – WHEN FLEXIBILITY AND INTELLIGENCE MATTER

Ultima is automation that grows with your farm. It is designed for farmers who want to maximise efficiency and minimise time spent at the dryer.

Ultima is more than a control centre – it is a comprehensive management system that unites drying and storage operations. Continuous moisture measurement and sampling ensure quality, while all data is automatically stored for full traceability and documentation.

Convenient online silo logging

Ultima's strength lies in its flexibility: route changes can be made without heavy rewiring, making expansions quick and cost-efficient. Over its lifetime, Ultima is often more economical than traditional systems, as it adapts to new needs without major reinvestments. In addition, Ultima manages storage and silo logging via an online service – keeping crop, field, and batch data organised and easily accessible.

A solution for growing farms

We especially recommend Ultima when the system includes multiple conveyors or distributors.

It is ideal for package dryers and large Stand-Alone installations where versatile control and flexibility are required.

Ultima can control up to two dryer units.

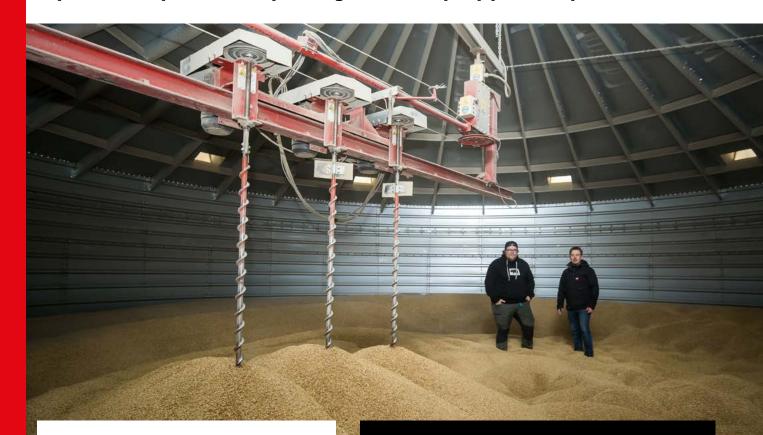
Commissioning includes professional training to ensure optimal operation from day one. It is the smart solution for a developing farm – combining cutting-edge technology with practical functionality.





A DRYING SILO INCREASES INTAKE CAPACITY AND IMPROVES THE EFFICIENCY OF THE DRYING PROCESS

The drying silo combines the Finnish-made Iso-Antti silo with a high-quality mixing system. A drying silo increases your overall grain drying capacity and allows you to easily produce uniform feed mixes. This new solution is ideal for livestock farms that require large amounts of self-produced feed.



D10,6 specifications

Volume **831 m³**Grain volume **680 m³**Height **11.45 m**

D12,1 specifications

Volume **1098 m³** Grain volume **880 m³** Height **11.72 m**

- Two diameter options: D10,6 and D12,1
- Special-steel, Finnish-made Iso-Antti silo
- High-quality mixing system with three augers
- Standard equipment includes grain spreader, fan, ventilated floor, and exhaust air connections
- Touchscreen automation
- Discharge and filling systems available according to customer needs

The drying silo is based on the Iso-Antti silo

The drying silo is designed to operate independently, but it also works perfectly as a companion for a dryer. Grain moisture content can be as high as 25–30% when loaded into the drying silo. The structure is based on the Iso-Antti silo, made from special steel. The roof is equipped with reinforced beams to withstand heavy snow loads during winter.

Grain is transferred into the drying silo via a grain spreader. The fan directs air through the ventilated floor, and the mixing system keeps the grain mass in motion. Excess moisture is removed through outlets located on the roof. A radiator can be added to the fan unit to enhance the drying effect.

Proven performance

The heart of the drying silo is the mixing system. It allows air to flow efficiently through the thick grain layer and ensures even mixing. The angle sensor on the horizontal beam of the mixing system enables the drying of even moist grain. The manufacturer of Antti's drying silo mixing system has over 20 years of experience in grain drying in silos. Long experience and high-quality components ensure operational reliability.

Automatic convenience

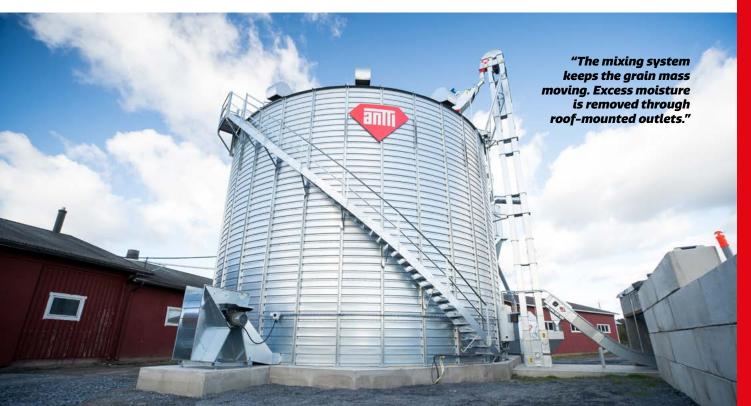
The mixing system of the Antti drying silo operates automatically. From the clear touchscreen control panel, the user selects functions such as filling, discharge, mixing, drying, and the desired target moisture – and lets the automation handle the rest. The system includes a reinforced variable-pitch vertical auger and three horizontal augers with sensors and electric motors that ensure efficient mixing and drying. This maintains grain quality throughout storage and makes long-term preservation safe.

Easily prepare feed mixes

The drying silo also allows you to easily mix different grain varieties. Since modern dryers clean the grain from impurities, you can produce high-quality, consistent feed directly on your farm to meet the needs of your livestock.



The automatic drying program is selected from the clear touchscreen interface.



ROUND GRAIN SILOS – FOR SAFE CROP STORAGE

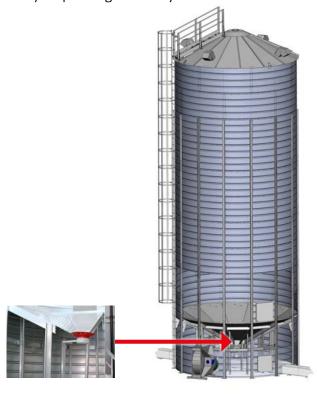
Antti's D5,3 and D7,5 round silos are top-quality products in their class. The elements and vertical supports are dimensionally precise, and the assembly proceeds quickly using either jacks or a crane. The silos can be equipped with optional accessories such as filling indicators and conveyor supports. The internal cone bottom is a popular choice that significantly improves silo usability. Depending on the application, you can choose between a solid cone or a ventilating cone.





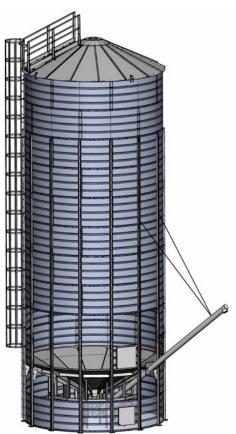
Silos with ventilating cones

Ventilating cone silos are equipped with an internal cone that allows air circulation. These silos can be used as buffer storage for freshly harvested grain or for cooling dried grain. The silos are fitted with properly sized exhaust air vents on the roof, and discharge is handled by screw or chain conveyor. Ventilating cone silos keep both the harvester and the dryer operating efficiently.



Silos with solid cone bottoms

Antti's solid cone silos are particularly suitable for long-term grain storage. The range of sizes is the same as for ventilated cone silos. Cone-bottom silos are easy and fast to empty. The above-ground cone design prevents water-related issues, and discharge is handled via screw or chain conveyor.



A ventilating internal cone enhances both harvesting and drying efficiency.

ISO-ANTTI – DESIGNED WITH BIG THINKING

Iso-Antti silos are built to last. They are designed for minimal maintenance and maximum durability. Thanks to the special steel used in their construction, Iso-Antti silos withstand the same 917 kg/m³ load as smaller Antti silos. The roof structure includes separate roof beams to ensure that even Finland's heavy winter snow loads are no problem. The roof load capacity is 1500 kg.



Dimensions of Iso-Antti silos

	ISO-ANT	TI D12,1	ISO-ANTT	I D10,6
TIERS	VOLUME WITH VENTILATED FLOOR M'*	HEIGHT M	VOLUME WITH VENTILATED FLOOR M'*	HEIGHT M
14	1 871	18,5	1 422	18,2
13	1 742	17,3	1 324	17,1
12	1 614	16,2	1 225	15,9
11	1 485	15,1	1 127	14,8
10	1 356	14	1 028	13,7
9	1 227	12,9	929	12,6
8	1 098	11,7	831	11,5
7	969	10,6	732	10,3
6	841	9,5	633	9,2

^{*} Optional ventilated floor reduces silo volume (D10,6 by 31 m³ and D12,1 by 40 m³). Ventilated floor height: 345 mm; free space: 307 mm.

Iso-Antti comes fully equipped

Standard equipment includes roof and wall manholes, wall ladders with safety cages, roof ladders with rails, and ventilation ducts. The roof structure consists of a central cone, roof beams, and roof panels ensuring symmetry and strength. Multiple discharge options are available for Iso-Antti silos.

Foundation requirements

The foundations of Iso-Antti silos are cast concrete structures built on ground level with a flat floor. Regardless of the soil type, a geotechnical survey must be performed before construction.

Ventilated floor

Ventilated floor

The ventilated floor allows aeration of the grain mass using a high-pressure blower.

- Perforated sheet floor with pressurised subspace
- High-efficiency high-pressure fan
- Ventilated floor height: 345 mm; free space: 307 mm

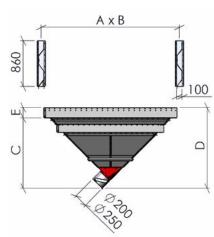


SQUARE SILOS TAILORED TOTHE NEEDS OF EACH FARM



Antti's silo elements are available in three lengths and five base sizes. Depending on requirements, the silo bases can be fitted with various shut-off systems, loading bends, manholes, and ventilation accessories. Contact your Antti representative for more information.

SQUARE SILOS												
А	В	С	D	E	BASE VOLUME M³	SILO/ TIER M³						
2110	2110	1075	1235	195/160	1.6	3.8						
2110	2600	1315	1475	195/160	2.4	4.7						
2600	2600	1300	1495	195	3	5.8						
2600	3110	1555	1750	195	3.7	6.9						
3110	3110	1555	1750	195	5.1	8.3						



	SILO BA	SILO BASE 3 X 3 SILO BASE 3 X 2.5 SILO BASE 2.5 X 2.5		SILO BASE 3 X 2.5		2.5 X 2.5	SILO BASE 2.5 X 2	
TIERS	VOLUME M³	HEIGHT M	VOLUME M³	HEIGHT M	VOLUME M³	HEIGHT M	VOLUME M³	HEIGHT M
3	30.0	4.33	24.4	4.33	20.4	4.08	16.5	4.07
4	38.3	5.19	31.3	5.19	26.2	4.94	21.2	4.93
5	46.6	6.05	38.2	6.05	32.0	5.80	25.9	5.79
6	54.9	6.91	45.1	6.91	37.8	6.66	30.6	6.65
7	63.2	7.77	52.0	7.77	43.6	7.52	35.3	7.51
8	71.5	8.63	58.9	8.63	49.4	8.38	40	8.37
9	79.8	9.49	65.8	9.49	55.2	9.24	44.7	9.23
10	88.1	10.35	72.7	10.35	61.0	10.10	49.4	10.09
11	96.4	11.21	79.6	11.21	66.8	10.96		
12	104.7	12.07	86.5	12.07	72.6	11.82		
13	113.0	12.93	93.4	12.93	78.4	12.68		
14	121.3	13.79	100.3	13.79	84.2	13.54		

Expandable and practical space utilisation

Silos can easily be connected to one another, and future expansion is simple. The element structure provides a ready, watertight exterior wall, which can be clad if desired. Various roof structures can be built on top of the silo cluster, creating useful space underneath or between the silos – ideal for activities such as seed processing, further grain handling, an office, or even a dryer.







Space under the silos

Antti silo bases are selfsupporting and only require support at the corners. This saves on construction costs and allows for continuous open space beneath the silos.

HEATERS – POWER AND PERFORMANCE FOR DRYING

A modern dryer's heat source must be durable, dependable, and economical. Antti heaters meet all these requirements. They are manufactured from high-quality materials and designed for high efficiency.

Gas and biofuels are becoming increasingly common energy sources for dryers, and Antti provides effective solutions for both. For smaller dryers, oil heaters are typically used. These are equipped with burners that support both renewable and traditional light fuel oils to meet future energy needs.

Oil heaters



The range of oil heaters is extensive, ensuring a suitable power output for every need. The combustion chamber and heat exchanger are made of fire-resistant special steel. Efficiency levels are among the best on the market.

Bioheaters



A bioheater allows you to utilise fuel from your own land, eliminating oil costs altogether. The bioheater is also available as a convenient container solution.

Gas heaters



Direct-firing gas heaters deliver power without compromise and provide superior efficiency. The modulating burner automatically adjusts the power output to match the drying demand.

VACBOOST OIL HEATERS

MODEL	POWER KW	OIL CONSUMPTION (MAX) KG/H	NATURAL GAS (MAX) M³N/H	LENGHT MM	HEIGHT MM	WIDTH MM	AIR PIPE DIAMETER MM
VACBOOST 300	300	27,8	33,0	2176	1291	2418	630
VACBOOST 400	400	37,1	44,0	2176	1291	2418	630
VACBOOST 500	500	46,4	54,9	2710	1291	3116	800
VACBOOST 650	650	62,8	74,5	2155	1291	3116	1000
VACBOOST 800	800	79,8	76,9	4111	1690	4174	1000
VACBOOST 1000	1000	96	109,9	3596	1690	4284	1250
VACBOOST 1400	1400	140,0	153,8	4108	2897	4632	2 X 1000
VACBOOST 2000	2000	192,0	219,8	4108	2897	4632	2 X 1250

DIRECT-FIRING VACBOOST GAS HEATER WITH MODULATING BURNER

MODEL	POWER KW	LIQUEFIED GAS [KG/H]	NATURAL GAS [M³N/H]	LENGHT MM	HEIGHT MM	WIDTH MM	AIR PIPE DIAMETER MM
VACBOOST GAS 800	300-800	23-62	30-80	3187	1572	1390	1000
VACBOOST GAS 1500	500-1500	39-117	50-150	4022	1572	1392	1250
VACBOOST GAS 2200	1500-2200	117-172	150-220	6224	2176	2053	1250
VACBOOST GAS 3000	1500-3000	117-234	150-300	6224	2176	2053	1600

BIOHEATERS

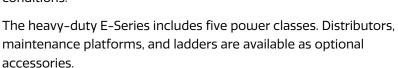
		CONSUI	MPTION				
MODEL	POWER KW	WOODCHIPS (800 KWH/M³) M³/H	PELLETS (4,75 KWH/KG) KG/H	LENGHT MM	HEIGHT MM	WIDTH MM	AIR PIPE DIAMETER MM
BIO VACBOOST 500	500	0,6	105	2815	1556	2711	800
BIO VACBOOST 800	800	1,0	168	2815	1556	2711	1000
BIO VACBOOST 1200	1200	1,5	253	3904	2273	2874	1250



ELEVATORS AND INTAKE PITS

A wide range of heavy-duty conveying and transfer solutions for all grain handling needs

Antti elevators and grain conveyors move and handle grain as they should – efficiently, gently, and without causing damage. Antti elevators can move even exceptionally wet grain reliably and durably. The spacious head section, correctly shaped bottomless buckets, and optimal belt speed keep the grain flowing under all conditions.





E-ELEVATOR								
MODEL	E40/E40S	E60/E60S	E80/E80S	E100/E100S	E120/E1205			
CAPACITY	40 T/H	60 T/H	80 T/H	100 T/H	120 T/H			
MOTOR (KW)		ELEVATOR HEIGHT (M)						
3	11,2 - 15,7							
4	16,2 - 20,7	11,2 - 14,7						
5,5	21,2 - 26,7	15,2 - 19,7	11,2 - 14,7	11,2 - 11,7				
7,5	27,2 - 34,7	20,2 - 26,7	15,2 - 19,7	12,2 - 16,7	11,2 - 13,7			
9,2		27,2 - 32,7	20,2 - 24,7	17,2 - 19,7	14,2 - 16,7			
11		33,2 - 34,7	25,2 - 29,7	20,2 - 23,7	17,2 - 19,7			
15			30,2 - 34,7	24,2 - 34,7	20,2 - 26,7			

Complete your Antti dryer with an intake pit

An intake pit efficiently guides grain onto the elevator or the conveyor. Antti's range includes both gravity-fed and chain-conveyor intake pits. You can choose from several models in sizes ranging from 2,1 to 112 m³. The intake pits are compatible with all Antti dryer systems.



GRAVITY PITS						
	VOLUME M ³ MAX VOLUM 6M PLINTH					
1,2x2,8	2,1	-				
2x4	5,3	31				
2,5x4	9,3	36				
2,5x5	10	43				
3x5	16	50				
3x6	16,8	57				

CONVEYOR PITS								
VOLUME MAX VOLUME / MOTOR (KW) AT DIFFERENT CONVEYOR CAPAC								
	M³	5 M PLINTH	60 T/H (KTG)	60 T/H (KTIG)	80 T/H (KTIG)	100 T/H (KTIG)		
3X3	4,6	31,6	3	4	5,5	7,5		
3X4	7,1	43,1	4	4	5,5	7,5		
3X5	9,1	54,1	4	5,5	7,5	7,5		
3X6	12,2	66,2	4	5,5	7,5	7,5		
3X8	17,2	89,2	5,5	5,5	7,5	9,2		
3X10	22,2	112,2	5,5	7,5	7,5	9,2		

HIGH-QUALITY GRAIN CLEANERS

JCC Vibrocompact is a reliable flat-bed cleaner. It is designed for cleaning and grading all types of grains and other crops, including small seeds, peas, dried herbs, and spices. The cleaner separates products by particle size (sieve cleaning) and aerodynamic properties (air cleaning).

JCC Vibrocompact

The cleaned material passes through two vibrating sieves powered by two vibro motors. The sieves are self-cleaning thanks to flexible rubber balls. The sieve mesh size is selected according to the crop and impurities to be removed. An integrated aspiration channel removes light impurities such as husks and dust at the outlet. For processing exhaust and clean air, a radial fan and cyclone separator are recommended.



A versatile, modular cleaner and separator for dry granular products (such as seeds). Vibromax performs both size grading (sieving) and density separation (air cleaning). The system is based on a vibrating sieve frame that can be equipped with different modules as needed.

Key strenghts

- Modular and combinable design
- Highly customisable configurations
- High cleaning and grading efficiency
- Excellent performance in a compact size





		JCC 05	JCC 08 (KTG)	JCM 10122 (KTIG)	JCM 10123	JCM 10222	JCM 10223
PRE-CLEANING CAPACITY	T/H	6	15	60	60	100	100
COMMERCIAL CLEANING	T/H	4	10	25	40	50	80
SEED CLEANING	T/H	2	5	12	18	24	36
SCREEN AREA	M ²	0,8	1,9	3,4	5,1	6,8	10,2
NUMBER OF SIEVES	KPL	2	2	4	6	8	12
VIBRO MOTORS	KW	2X0,15	2X0,25	2X0,75	2X0,75	2X0,75	2X0,9
FAN (PIPE)	KW(MM)	2,2 (200)	2,2 (200)	5,5 (300)	5,5 (300)	7,5 (300)	7,5 (300)
LENGTH	MM	1530	1970	2822	3550	3115	3915
WIDTH	MM	920	1240	1580	1580	1580	1580
HEIGHT, GRAIN FEED	MM	1287	1665	1765	1883	2236	2327
WEIGHT WITHOUT FAN	KG	220	350	1050	1165	1260	1460



ANTTI PROVIDES INFORMATION, HELP AND TRAINING

Antti customers not only benefit from high-quality drying equipment but also from comprehensive support. Every new Antti owner is offered an opportunity to become familiar with the latest technology. Our local experts will teach you how to use your dryer to its full potential.

From construction and installation to operation and maintenance, Antti covers everything you need to know about your new machine. Don't hesitate to contact your local Antti representative with any questions. You can find your nearest representative on our website, which also includes extensive information, news, tips, and brochures.

Maintenance keeps your dryer in top condition

With regular maintenance, you can ensure that your dryer stays in excellent condition. Maintenance is provided by our local representatives. Focus on what matters most and let professionals take care of your dryer.

By using genuine Antti spare parts, you ensure your dryer's full performance year after year. Original Antti parts are also great value for money. All maintenance work and original spare parts come with a seasonlong warranty.



Antti-Teollisuus Oy

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Find out more at www.antti.fi/en