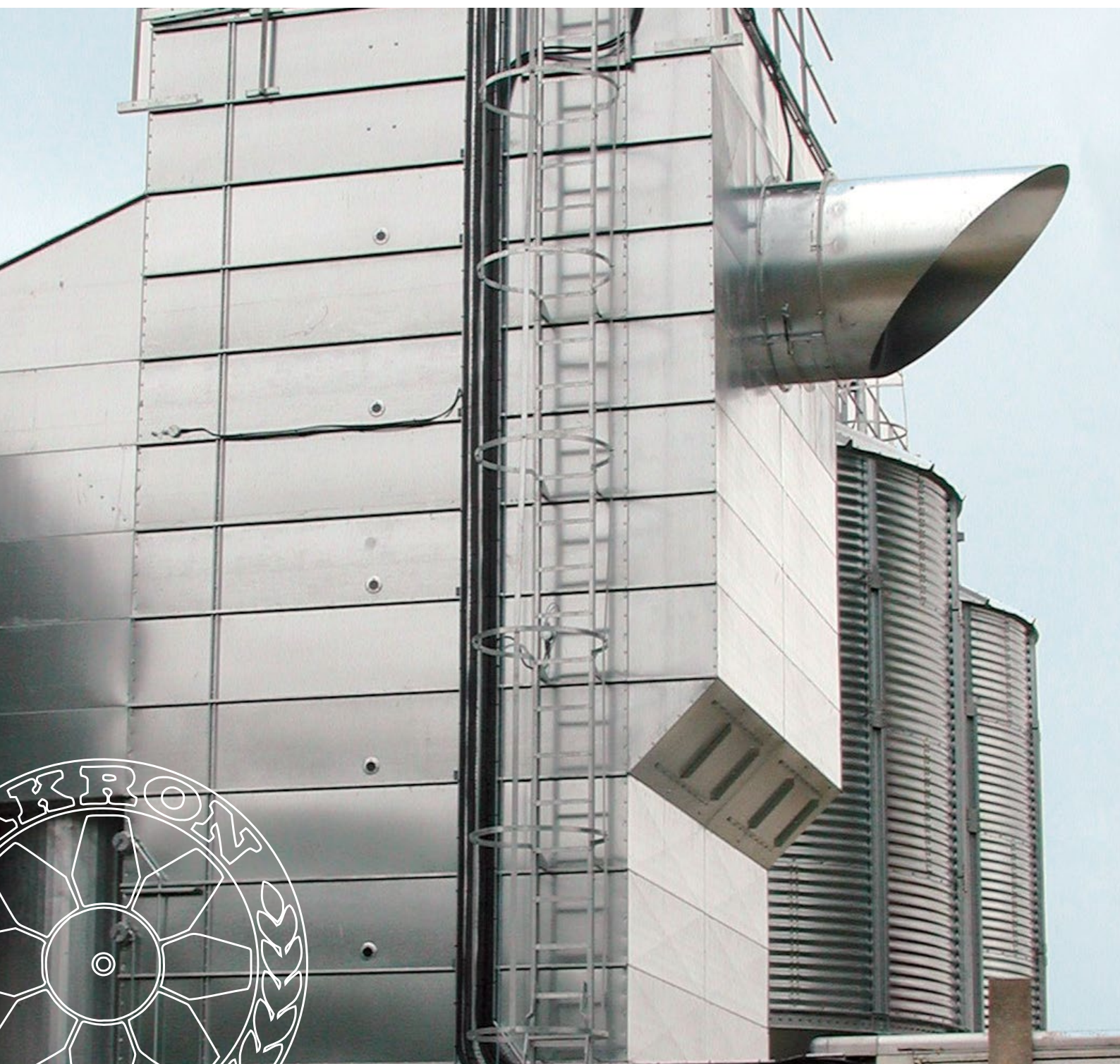
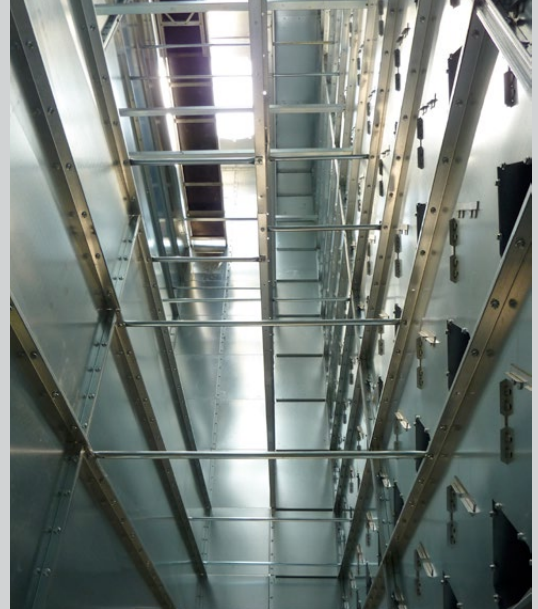


Akron Svegma Continuous Grain Dryers







Akron Svegma Continuous Grain Dryers

The Akron Svegma range of grain dryers rank among the world's finest in regard to drying quality, efficiency and capacity. Available in widths between two and eight metres and heights up to 20 metres, the Akron Svegma solutions offer consistent and high-efficiency drying of up to 125 tonnes of grain per hour. The modular and flexible design enables high levels of customization with unaffected drying performance, making the Akron Svegma dryer the ideal choice for farmers, farming cooperatives and commercial users of all sizes.

Proven design - continuous development

The Akron Svegma dryer was originally developed in the 1960s and has been continuously refined ever since. Akron's acquisition of Svegma in 1992 sparked a leap forward as the dryers were then fitted with Akron's own high-efficiency fans and heat production technology. Today's Akron Svegma dryer is still based on the original design, attenuated by 50 years worth of optimisation and experience.

Key features

- Smooth and clean internal grain column with unique lateral fixing.
- All-galvanized design and robust construction enables a long lifespan for both indoor and outdoor models.
- Closely spaced, tapered laterals for maximum drying efficiency with even air flow. This combined with a proven discharge section ensures minimal risk of restricted grain flow.
- Wide range of heat source options for maximum flexibility and lowest operation costs.
- Flexible operation with state-of-the-art PLC control.
- Low power requirements, noise and dust levels.
- CE-marking and compliance to quality standards.
- Available also with the revolutionary RC heat recovery system with integrated dust extraction.



Designed and optimised for best performance

World-class design and development and attention to detail has brought the Akron Svegma grain dryer series to its current position. The dryer is among the most versatile on the market, available in multiple sizes and configurations with a wide amount of heating, control and automation options.

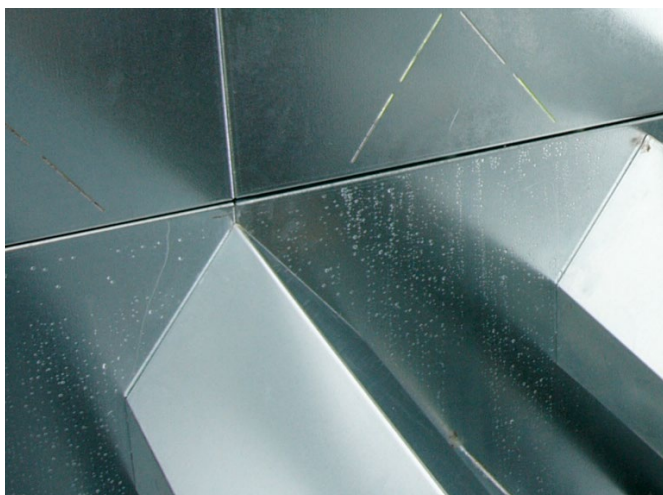
PLC-based control and automation system optimised for each customer's needs.

Turbulator for thorough mixing of hot air on direct heated dryers.

Variable cooling section shutters easily operated from the ground level. With all shutters open, the dryer is easily converted to run in batch mode. The dryer can also be run in "all-hot" mode with an external cooling system.

All flanges turned down for maximum strength and weather protection as well as internal cleanliness.

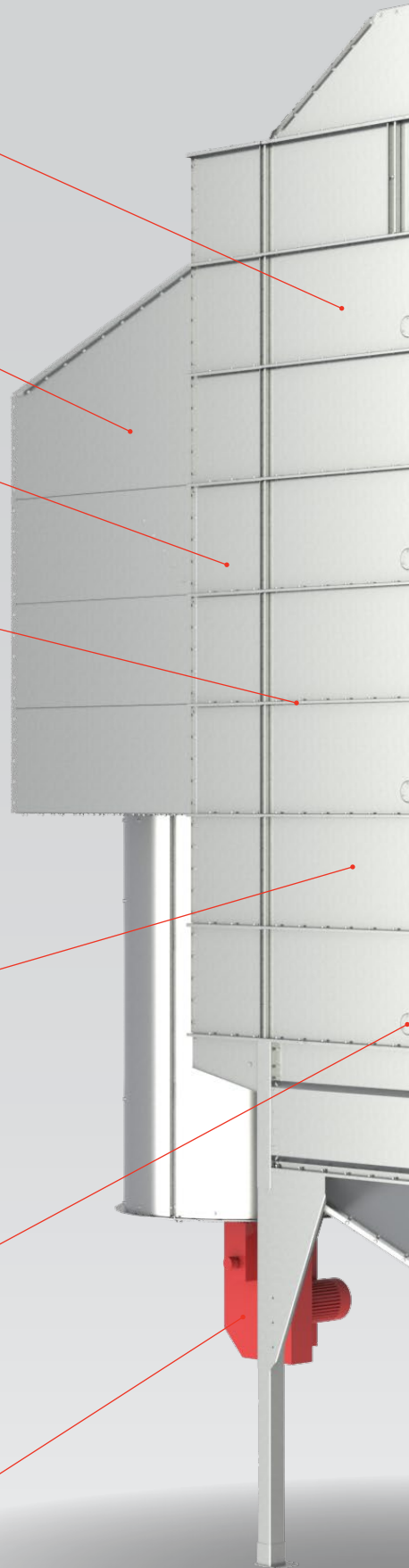
Totally smooth internal grain column allows unrestricted movement of the grain and avoids collection of dust and chaff.



Sight glass on every second dryer section.

Wide range of heating options; direct or indirect, with fuel options including oil, natural gas and solid (wood based) biofuel.

Also possible to connect to district heating network.



Sloping roof for outdoor use.

High performance, low noise fan units.
Akron Turboclean dust extraction fans available as option.



Galvanised construction for full protection in indoor and outdoor installations.
Several types of outer cladding are available as options to suit site requirements.

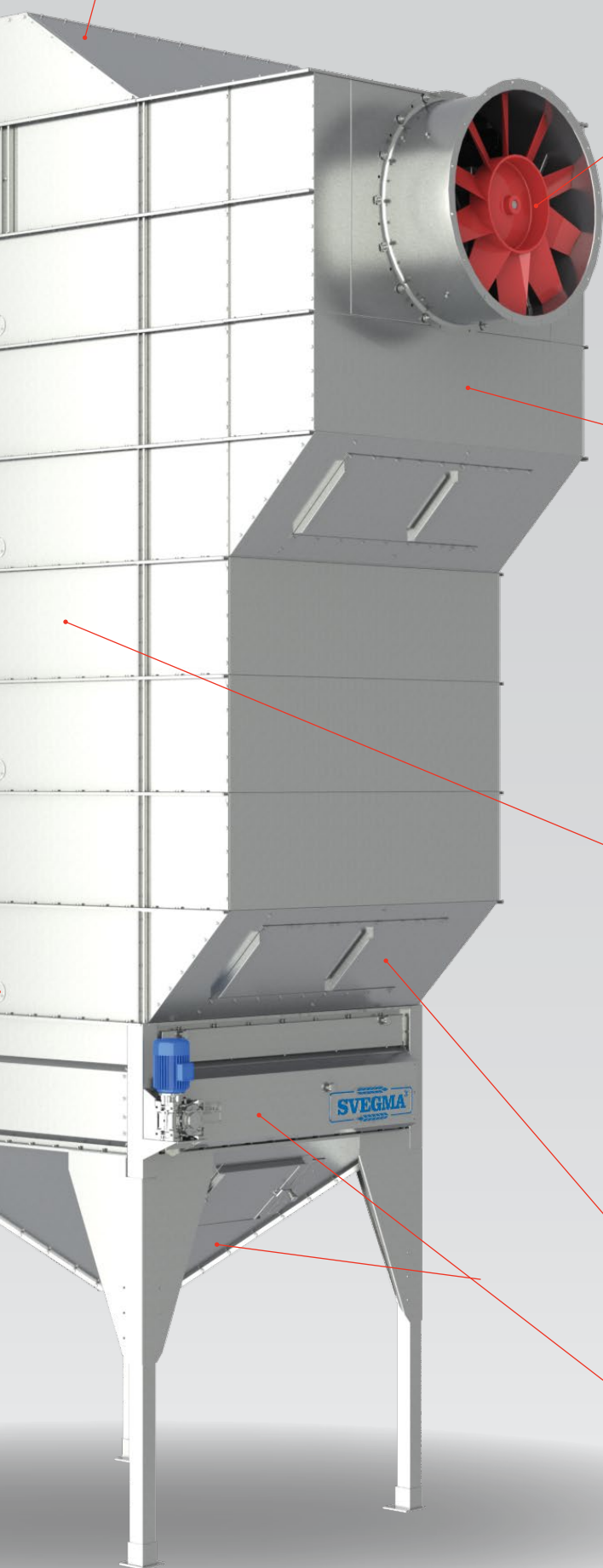
Closely spaced, tapered laterals and half-laterals for optimised air flow through the grain.

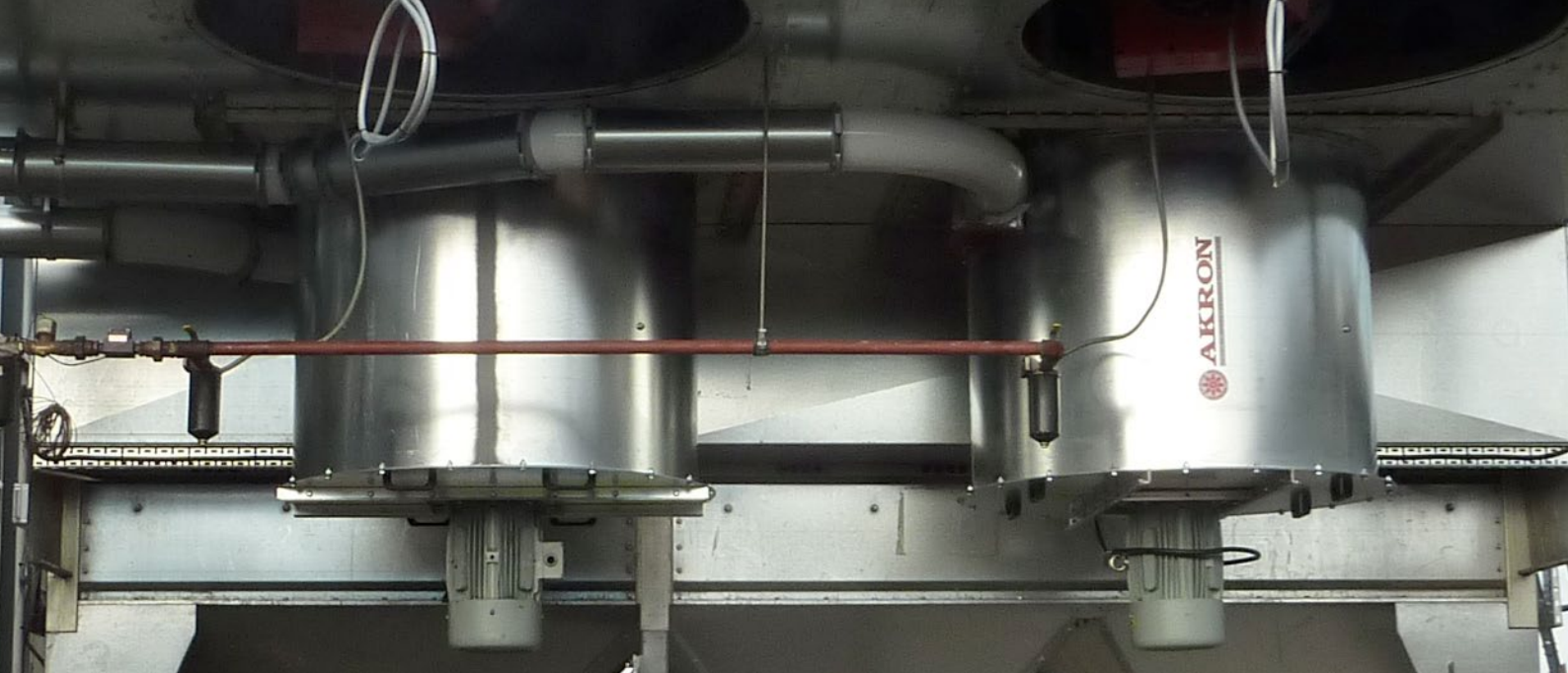


Strategically placed inspection hatches for easy maintenance and cleaning.

Shutter pulse or metering roller pulse discharge options with integral aeration available.

The discharge hoppers are available with adaptations to fit most chain conveyors or hoppers with built-in conveyors.





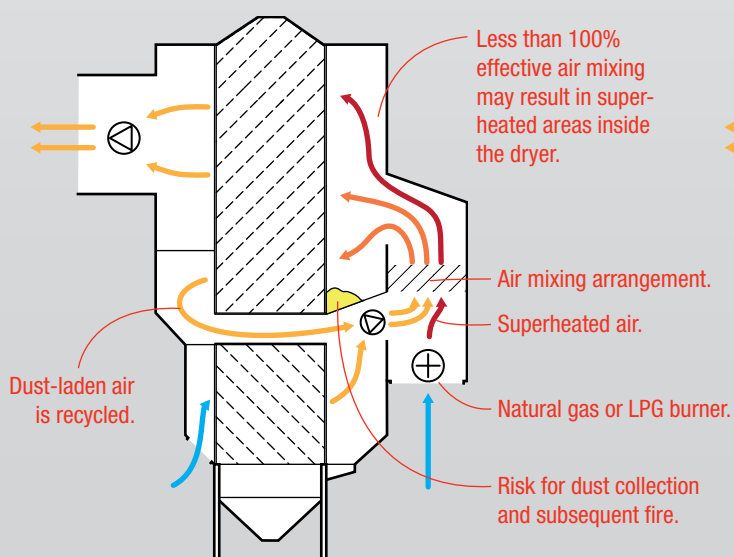
RC heat recovery with integrated dust extraction

Akron Svegma continuous dryers can be fitted with the revolutionary RC heat recovery system. The RC concept is based on the proprietary Akron Radiclean particle extraction fan and combines optimized energy efficiency with effective dust and particle extraction, while simultaneously allowing for a wider range of heating options than traditional heat recovery systems.

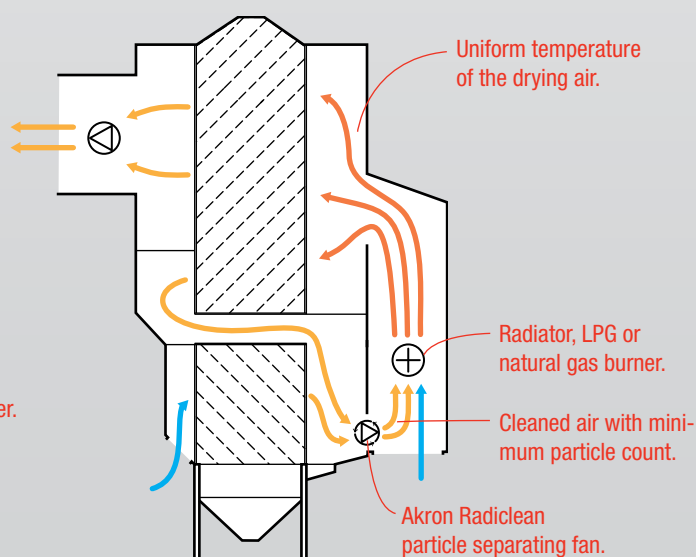
With the Akron Svegma RC technology, heat recovery no longer requires LPG or natural gas fired dryers; the recycled air is sufficiently free from dust and chaff to allow radiator heating. Other advantages compared to traditional heat recovery systems include a cleaner environment both inside and outside the dryer, decreased risk of fire and decreased

complexity regarding both process and construction since the need for air mixing arrangements inside the dryer and shutdown of air movement during discharging are effectively obviated.

The RC concept can be retrofitted on existing Akron Svegma dryers without capacity reduction - only the energy costs are lowered.

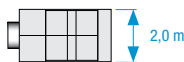

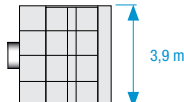
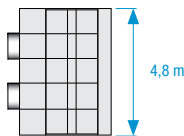
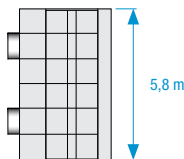
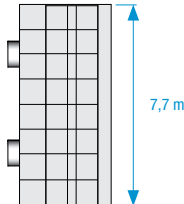


Traditional heat recovery dryer. The air is recycled after the heating arrangement. To reach the required drying temperature, the recycled air must be mixed with superheated air, almost exclusively requiring either natural gas or LPG fired heaters. For this type of dryer, efficient air mixing is very important.



Akron Svegma RC dryer with active particle separation. The Akron Radiclean fan allows air to be recycled prior to the heating arrangement, requiring heating only to the required drying temperature. This opens for other heating options as well as obviating the need for complex air mixing inside the dryer.

Nominal dimensions and capacities

Akron Svegma 2100 - 2 metre wide dryers		2104	2106	2107	2108	2110	2111	2112	2114	2115	2116	2118	
	Nominal capacity at 125°C	5,0	7,0	8,5	10,5	12,0	14,0	15,5	17,0	19,0	20,5	22,5	tph
	Removed water at 125°C	300	410	510	610	710	810	910	1010	1120	1220	1320	kg H ₂ O/h
	Net heat req at 125°C	360	480	610	730	850	970	1090	1210	1330	1450	1570	kW
	Nominal capacity at 80°C	3,0	4,0	5,0	6,0	7,0	8,0	9,0	10,0	11,0	12,0	13,0	tph
	Removed water at 80°C	170	230	290	350	410	460	520	580	640	700	750	kg H ₂ O/h
	Net heat req at 80°C	220	290	360	430	500	570	650	720	790	860	930	kW
	Holding capacity	9,0	11,7	13,0	14,3	17,0	18,3	19,7	22,3	23,7	25,0	27,8	m ³
Akron Svegma 3100 - 3 metre wide dryers		3104	3106	3107	3108	3110	3111	3112	3114	3115	3116	3118	
	Nominal capacity at 125°C	7,5	10,0	13,0	15,5	18,0	20,5	23,5	26,0	28,5	31,0	33,5	tph
	Removed water at 125°C	460	610	760	910	1070	1220	1370	1520	1670	1830	1980	kg H ₂ O/h
	Net heat req at 125°C	550	730	910	1100	1270	1450	1630	1820	2000	2180	2360	kW
	Nominal capacity at 80°C	4,5	6,0	7,5	9,0	10,0	12,0	13,0	14,5	16,0	17,5	19,0	tph
	Removed water at 80°C	260	350	440	520	610	700	780	870	960	1040	1130	kg H ₂ O/h
	Net heat req at 80°C	320	430	540	640	750	860	960	1070	1180	1290	1390	kW
	Holding capacity	13,5	17,5	19,5	21,5	25,5	27,5	29,5	33,5	35,5	37,5	39,5	m ³
Akron Svegma 4100 - 4 metre wide dryers		4104	4106	4107	4108	4110	4111	4112	4114	4115	4116	4118	
	Nominal capacity at 125°C	10,5	14,0	17,0	20,5	24,0	27,5	31,0	34,5	38,0	41,5	45,0	tph
	Removed water at 125°C	610	810	1020	1220	1420	1620	1830	2030	2230	2440	2640	kg H ₂ O/h
	Net heat req at 125°C	730	970	1210	1450	1700	1940	2180	2420	2660	2904	3150	kW
	Nominal capacity at 80°C	6,0	8,0	10,0	12,0	14,0	16,0	17,5	19,5	21,5	23,5	25,5	tph
	Removed water at 80°C	350	460	580	700	810	930	1040	1160	1280	1390	1510	kg H ₂ O/h
	Net heat req at 80°C	430	570	720	860	1000	1140	1290	1430	1580	1720	1860	kW
	Holding capacity	18,0	23,3	26,0	28,7	34,0	36,7	39,3	44,7	47,3	50,0	55,3	m ³
Akron Svegma 5100 - 5 metre wide dryers		5106	5107	5108	5110	5111	5112	5114	5115	5116	5118		
	Nominal capacity at 125°C		17,0	21,5	26,0	30,0	34,5	39,0	43,0	47,5	51,5	56,0	tph
	Removed water at 125°C		1010	1270	1520	1780	2030	2290	2540	2790	3040	3300	kg H ₂ O/h
	Net heat req at 125°C		1210	1510	1820	2120	2420	2720	3030	3330	3630	3930	kW
	Nominal capacity at 80°C		10,0	12,0	15,0	17,0	19,5	22,0	24,5	27,0	29,5	32,0	tph
	Removed water at 80°C		580	730	870	1020	1160	1310	1450	1600	1740	1890	kg H ₂ O/h
	Net heat req at 80°C		720	890	1070	1250	1430	1610	1790	2000	2150	2320	kW
	Holding capacity		29,2	32,5	35,8	42,5	45,8	49,2	55,8	59,2	62,5	69,2	m ³
Akron Svegma 6100 - 6 metre wide dryers		6106	6107	6108	6110	6111	6112	6114	6115	6116	6118		
	Nominal capacity at 125°C		20,5	26,0	31,0	36,0	41,5	46,5	51,5	57,0	62,0	67,5	tph
	Removed water at 125°C		1220	1520	1830	2130	2440	2740	3040	3350	3650	3960	kg H ₂ O/h
	Net heat req at 125°C		1450	1820	2180	2540	2900	3270	3630	3990	4360	4720	kW
	Nominal capacity at 80°C		12,0	14,5	17,5	20,5	23,5	26,5	29,5	32,5	35,5	38,5	tph
	Removed water at 80°C		700	870	1040	1220	1390	1570	1740	1920	2090	2260	kg H ₂ O/h
	Net heat req at 80°C		860	1070	1290	1500	1720	1930	2150	2360	2570	2790	kW
	Holding capacity		35,0	39,0	43,0	51,0	55,0	58,8	66,8	70,8	74,8	82,8	m ³
Akron Svegma 8100 - 8 metre wide dryers			8107	8108	8110	8111	8112	8114	8115	8116	8118		
	Nominal capacity at 125°C			34,5	41,5	48,5	55,0	62,0	69,0	76,0	83,0	89,5	tph
	Removed water at 125°C			2030	2430	2840	3250	3650	4060	4470	4870	5280	kg H ₂ O/h
	Net heat req at 125°C			2420	2900	3390	3870	4360	4840	5320	5810	6290	kW
	Nominal capacity at 80°C			19,5	23,5	27,5	31,5	35,5	39,5	43,0	47,0	51,0	tph
	Removed water at 80°C			1160	1390	1630	1860	2090	2320	2550	2790	3020	kg H ₂ O/h
	Net heat req at 80°C			1430	1720	2000	2290	2570	2860	3150	3430	3720	kW
	Holding capacity			52,0	57,4	68,0	73,4	78,7	89,3	94,7	100,0	110,7	m ³
General data for all dryer widths													
	No of drying sections	3	4	5	6	7	8	9	10	11	12	13	
	No of cooling sections	2	2	2	2	3	3	3	4	4	4	5	
	Dryer height	5,1	5,7	6,3	6,8	7,9	8,4	8,9	10,0	10,5	11,0	12,0	m

Dryer capacities in tonnes per hour are based on drying clean wheat, density 750 kg/m³ at 125°C and 80°C respectively, removing 5% moisture from 20% to 15%. Rates will vary depending on operating, installation and crop conditions. Larger capacities are also available.

NB! This information is provided for informative use only and forms no contractual or other obligation. Please contact your Akron dealer for more information and detailed offers to suit your specific installation.

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