

Wood Waste Handling Review

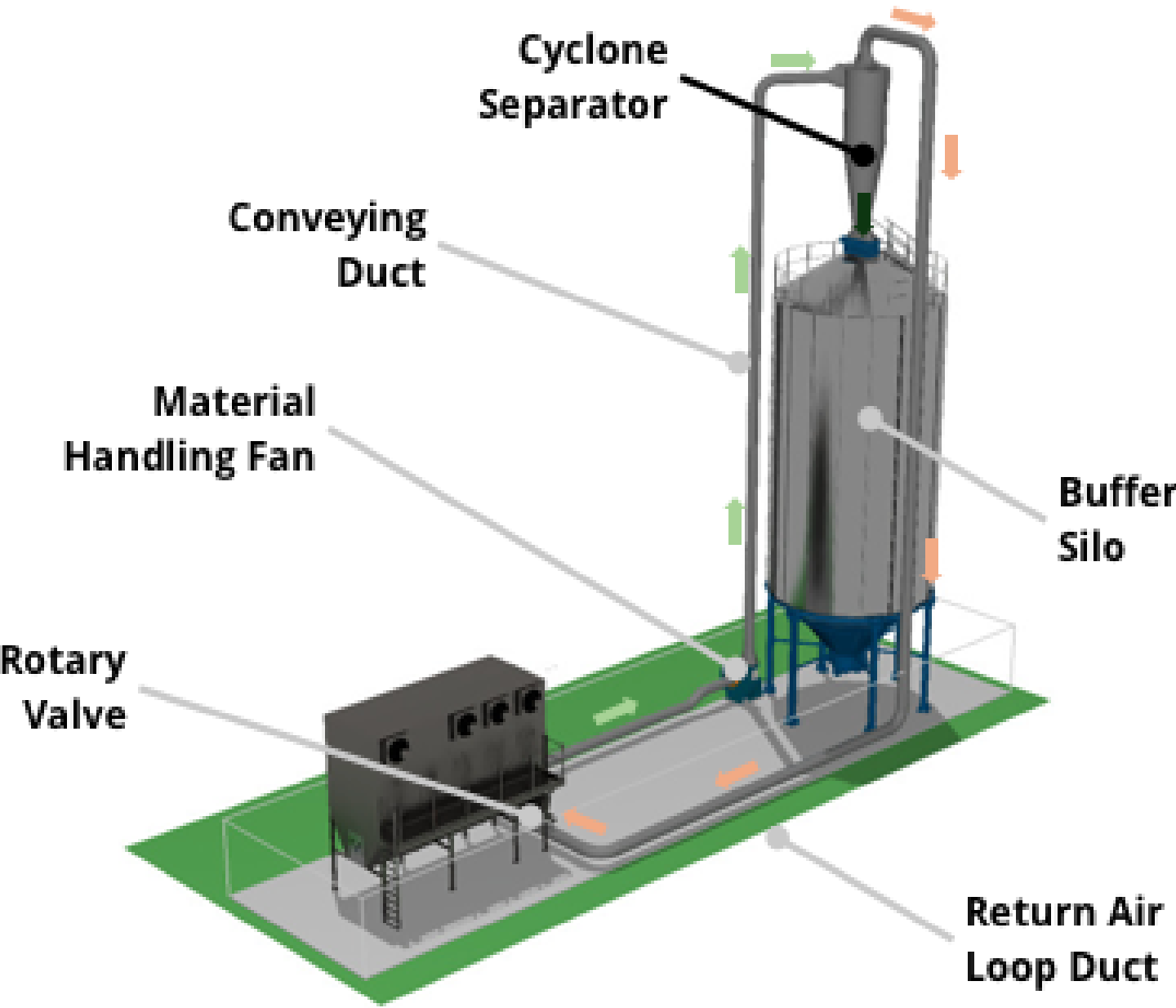
Aagaard A/s

- Making progress together

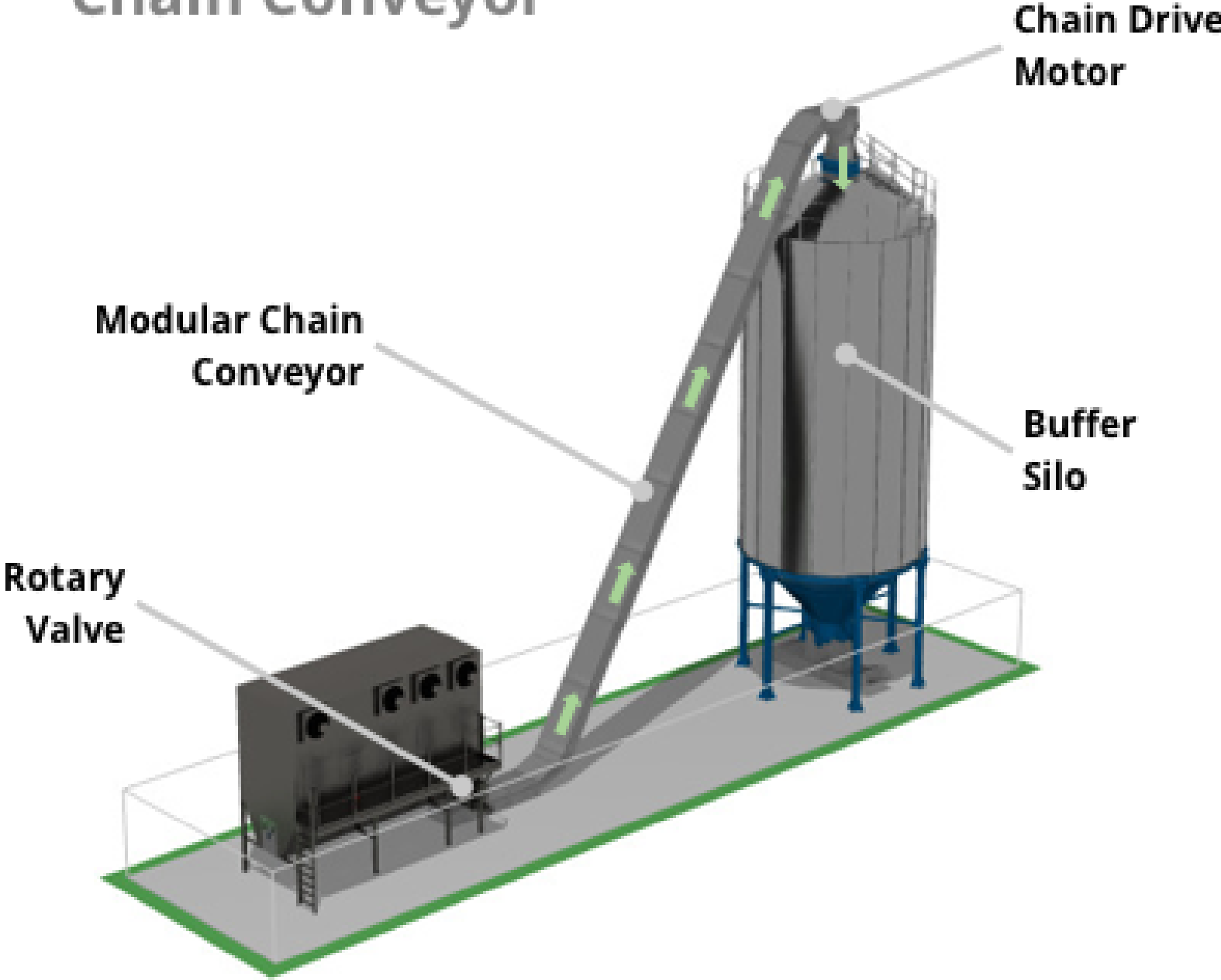
Wood Waste Handling Review

Aagaard A/S

Pneumatic System



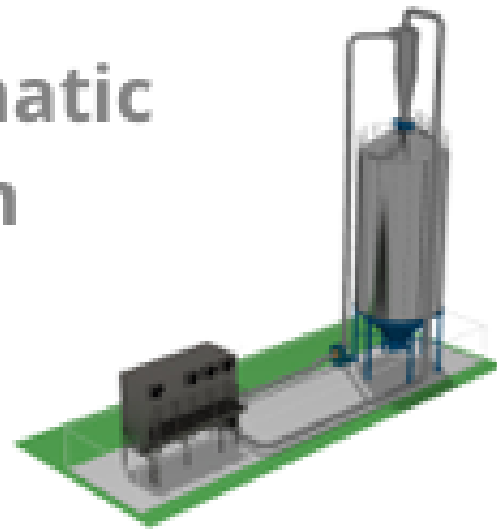
Chain Conveyor



Wood Waste Handling Review

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Pneumatic System



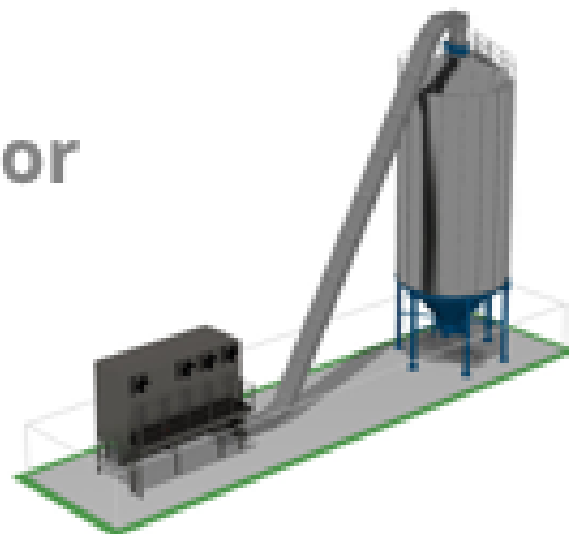
Pros

- Design flexibility
- Lower initial cost

Cons

- High energy usage
- Noisy operation
- Wear & tear
- Over dimensioned to improve reliability

Chain Conveyor



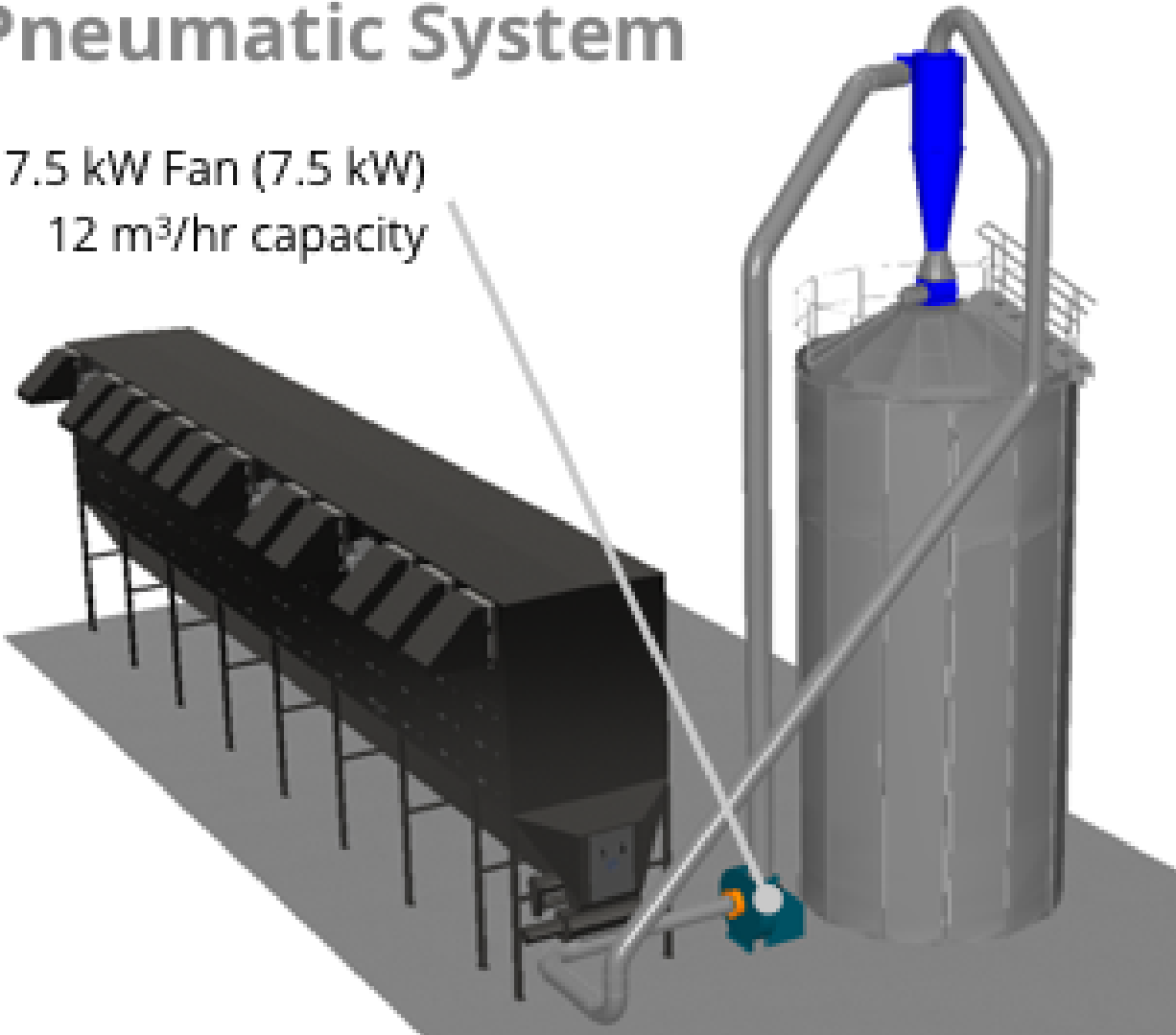
- Low energy consumption
- Quiet operation
- Reliability (wear & tear)
- Combustible dust safety

- Higher initial cost

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Pneumatic System

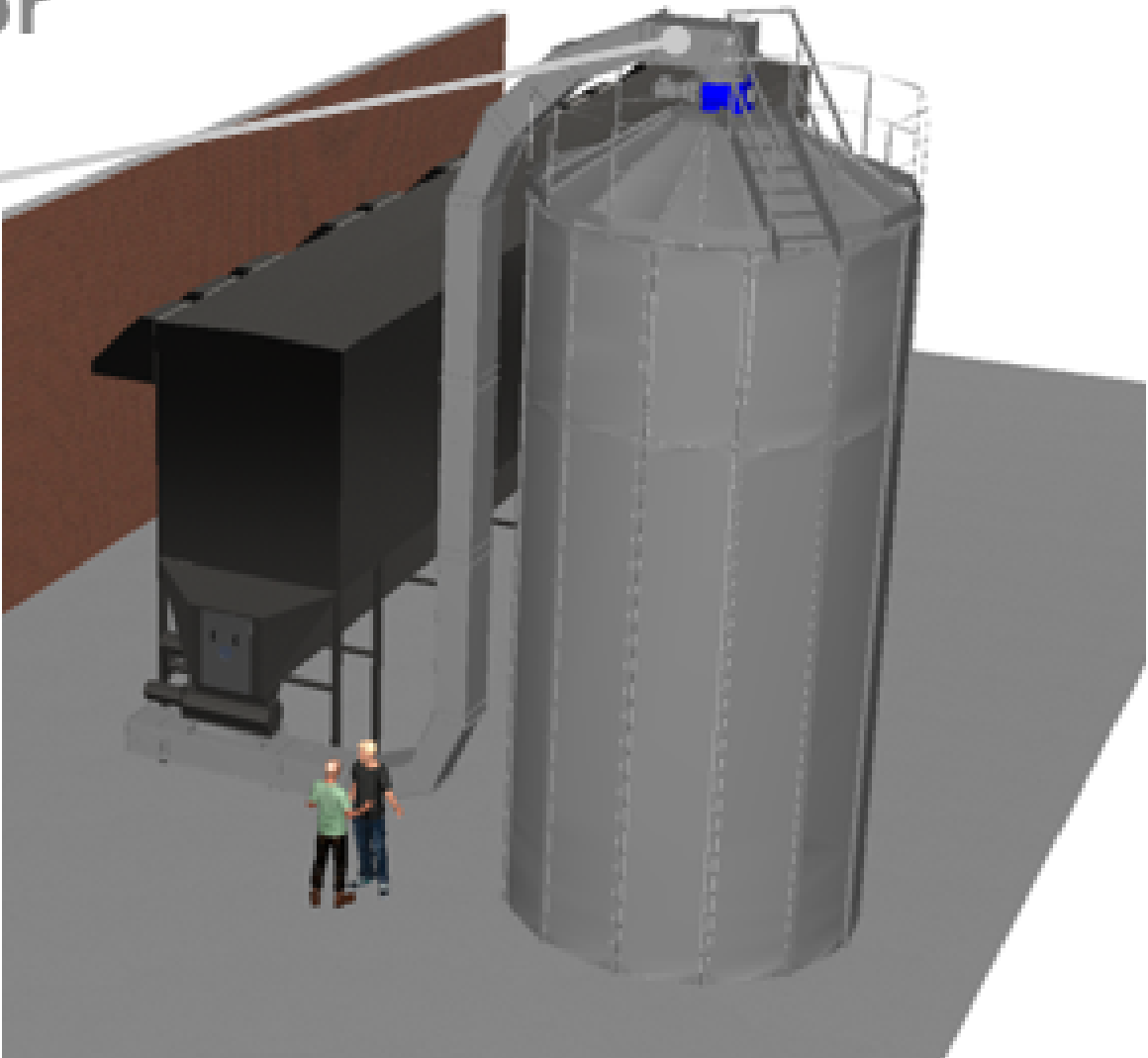


7.5 kW	Annual Usage		
	8 hr	16 hr	24 hr
Power (kWh)	15.000	30.000	63.000
Operational Cost (€)	2.250 €	4.500 €	9.450 €

Chain Conveyor

3 kW Motor (0.8 kW)
48 m³/hr capacity

> 80%
Energy
Reduction

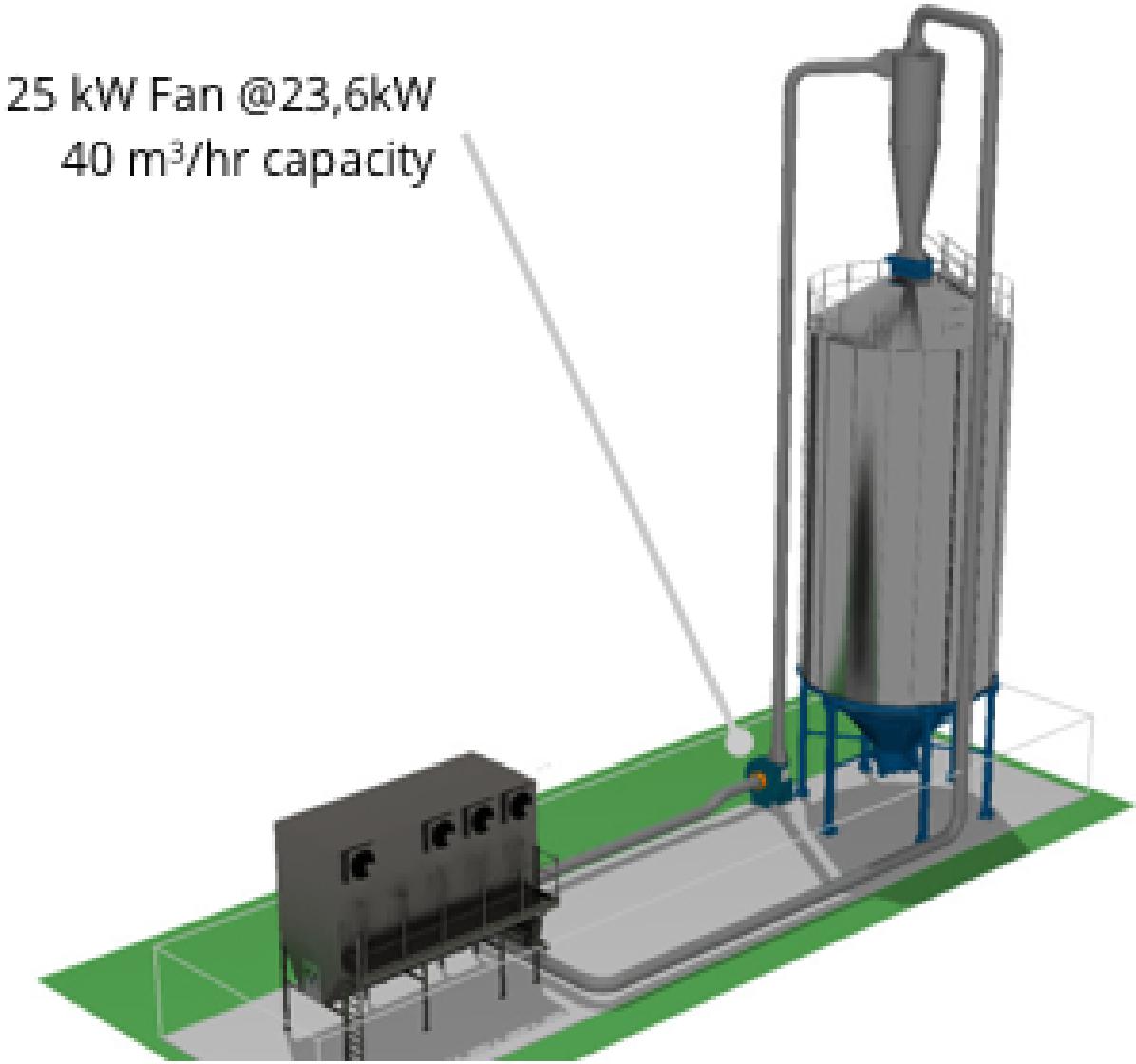


0.8 kW	Annual Usage		
	8 hr	16 hr	24 hr
Power (kWh)	1.600	3.200	6.720
Operational Cost (€)	240 €	480 €	1.008 €

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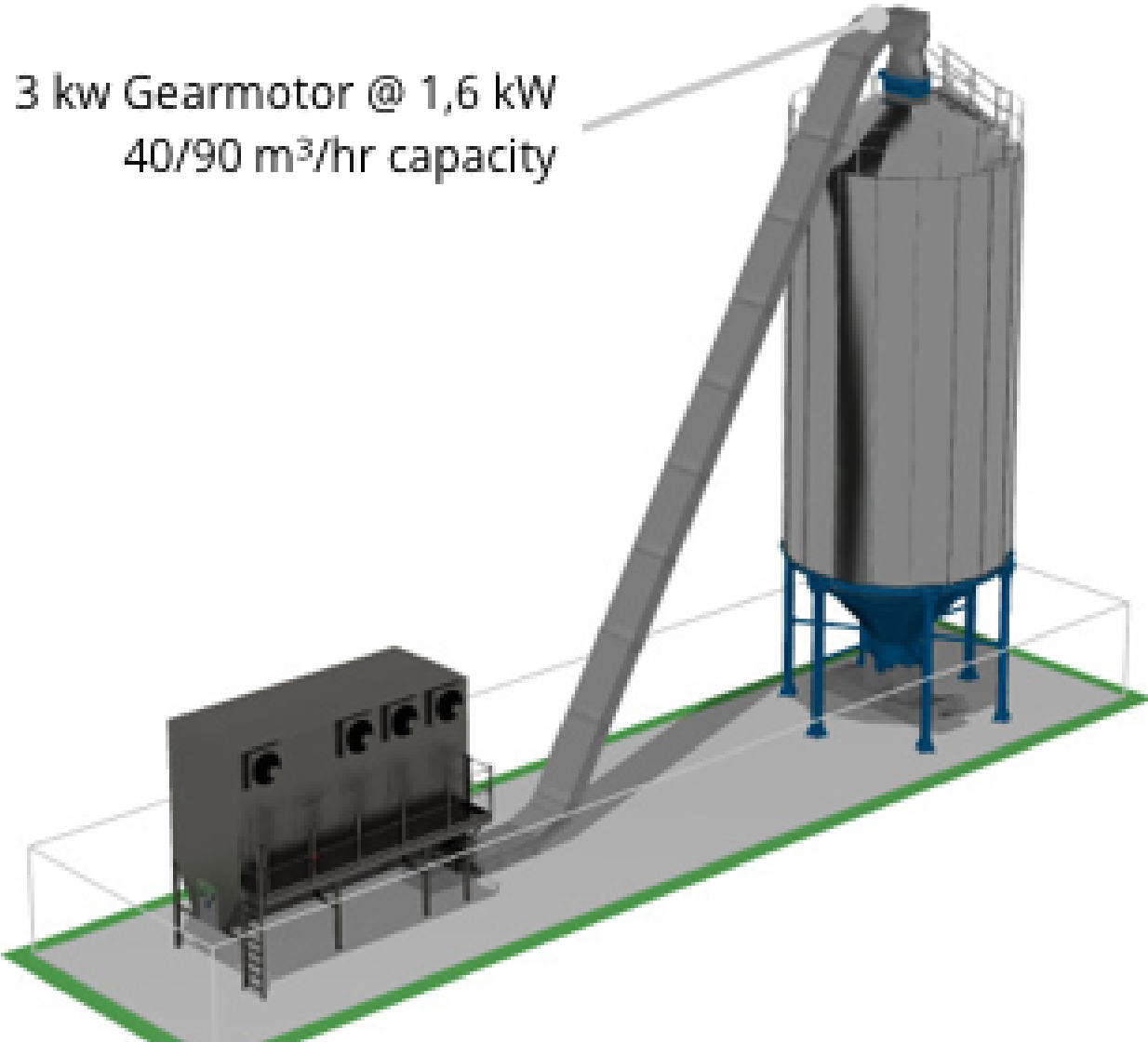
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Pneumatic System



23,6 kW	Annual Usage		
	8 hr	16 hr	24 hr
Power (kWh)	47.200	94.400	198.240
Operational Cost (€)	7.080 €	14.160 €	29.736 €

Chain Conveyor



1,6 kW	Annual Usage		
	8 hr	16 hr	24 hr
Power (kWh)	3.200	6.400	13.440
Operational Cost (€)	480 €	960 €	2.016 €

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Systems Feeding Silo(s)	Pneumatic				Chain Conveyor			
	Power	Annual Cost (€)			Power	Annual Cost (€)		
	(kW)	8 hr 250 d	16 hr 250 d	24 hr 350 d	(kW)	8 hr 250 d	16 hr 250 d	24 hr 350 d
(1) System	23.6	7,080	14,160	29,736	1.6	480	960	2,016
(2) Systems	47.2	14,160	28,320	59,472	3.2	960	1,920	4,032
(3) Systems	70.8	21,240	42,480	89,208	4.8	1,440	2,880	6,048

Yearly savings



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