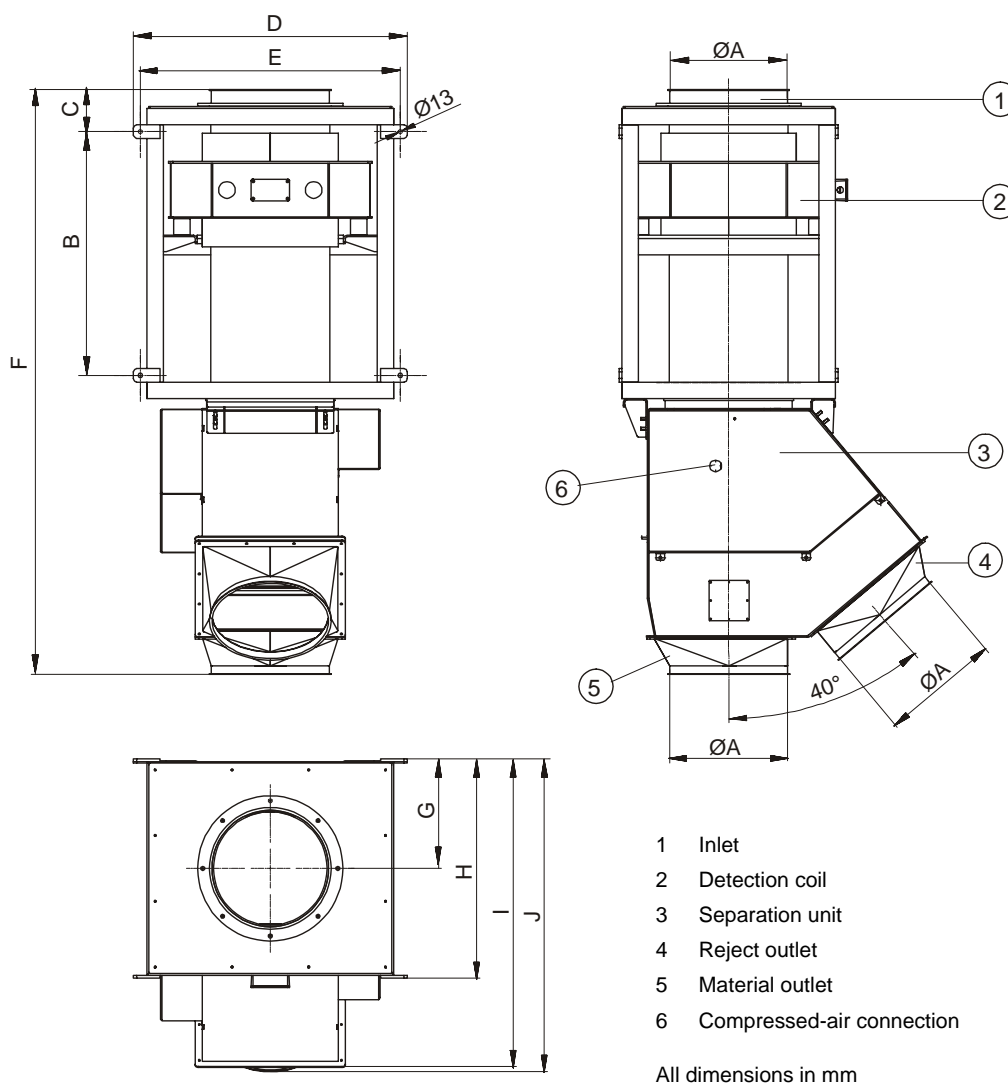


RAPID DUAL 200-350 metal separator

Dimensions



Technical data

Model number	RAPID DUAL 200	RAPID DUAL 250	RAPID DUAL 300	RAPID DUAL 350
Article number	RD200-0	RD250-0	RD300-0	RD350-0
Nominal width ØA Jacob system connector	199 mm	249 mm	299 mm	349 mm
Effective ID of inlet pipe Ø	187.6 mm	234.6 mm	299 mm	349 mm
B	523 mm	523 mm	730 mm	730 mm
C	123 mm	123 mm	125 mm	125 mm
D	680 mm	680 mm	820 mm	820 mm
E	640 mm	640 mm	780 mm	780 mm
F	1450 mm	1450 mm	1750 mm	1750 mm
G	287 mm	287 mm	328 mm	328 mm
H	574 mm	574 mm	656 mm	656 mm
I	781 mm	781 mm	920 mm	920 mm
J	818 mm	837 mm	910 mm	933 mm
Maximum sensitivity ¹⁾ Ø Ferrous ball	1.8 mm	2.5 mm	3.0 mm	3.5 mm
Maximum throughput ²⁾	44.000 l/h	69.000 l/h	100.000 l/h	136.000 l/h
Weight (kg)	125	175	250	300

¹⁾The stated detection sensitivity (ferrous ball Ø in mm) applies for nonconductive products at the standard operation frequency and refers to the centre of the detection aperture (most disadvantageous position). Products that show intrinsic conductivity due to moisture content, electrolytes or other conductive contents may reduce the sensitivity as well as variations of product temperature, environmental effects (mechanical shocks and vibrations, electromagnetic pollution) or the set product angle. The detectable size of metal particles depends on their nature, shape and position while passing the metal detector.

²⁾The stated throughput rate is based on well pourable granules. The shape of the particles and thus the flow characteristic of the bulk material determine the throughput rate which can vary. Upstream installed magnet separators may also reduce the throughput rate due to reduction of the cross section.



RAPID DUAL 200-350 metal separator

■ Conditions of use

Use:	To analyse free-falling bulk materials such as granulates, meat, minced meat and others
Bulk material classification:	
• Grain shape:	Granulates, Pellets, Flakes
• Max. grain size:	Ball $\varnothing < 8\text{mm}$, cylinder $\varnothing < 8\text{mm}$ length 20mm, flake 100x100x10mm
• Pourability:	Good, medium, bad
• Attributes:	Dry, damp, not abrasive, product effects (conductivity) can potentially be compensated
• Material flow:	Free fall, fall height max. 700mm above equipment top edge (No back draft of material)
• Bulk material temperature:	Maximum +80° C
• Ambient temperature:	-10° C to +60° C
Max. conveying pipe pressure:	25 mbar

■ Scope of delivery / Design / Connections

Scope of delivery:	Complete system with integrated detection coil, separation unit (double flap) and remote control unit PRIMUS; feeder and outlets for good and reject material with "Jacob" connector.
Mechanical design:	Detection unit and control enclosure: sheet steel, varnished, aluminium grey (RAL 9007) Separation unit: stainless steel 1.4301 (AISI 304), bead blasted Scanning pipe: PE-EL Parts in contact with product: stainless steel 1.4301 (AISI 304), PE-EL, Teflon, POM Compressed air-connection: 5-8 bar, 6/8 mm hose connection Compressed air consumption: RAPID DUAL-P 200-250: 1.7 litre / switch operation, RAPID DUAL-P 300-350: 2.7 litre / switch operation
Electrical design:	Control unit; detached, cable length 3m Operating voltage: 100-240 VAC ($\pm 10\%$), 50/60 Hz Current consumption: approx 160 mA / 115 V, approx. 80 mA / 230 V Mains cable: 1.8 m with plug Ingress protection: IP 54 Eject duration: adjustable from 0.05 to 29 sec Self-monitoring system: detection coil and outputs Scanning sensitivity: selectable with 8 adjustments Operation: see technical data sheet for Control Unit PRIMUS

■ Options / Accessories

<input type="checkbox"/> Visual alarm	<input type="checkbox"/> Compressed-air monitor	<input type="checkbox"/> Cable set for remote control unit:
<input type="checkbox"/> Failure indication	<input type="checkbox"/> Filter control valve	6 m, 10 m, 15 m
<input type="checkbox"/> Failure and metal indication	<input type="checkbox"/> Monitor system for diverter	<input type="checkbox"/> UL/CSA certificate
<input type="checkbox"/> Audible alarm	<input type="checkbox"/> Counter (number of detections)	<input type="checkbox"/> US-power cable
<input type="checkbox"/> Failure indication	<input type="checkbox"/> Push button for manual rejection	<input type="checkbox"/> Test samples
<input type="checkbox"/> Failure and metal indication	<input type="checkbox"/> Special varnishes	
<input type="checkbox"/> Combination alarm (visual alarm and audible alarm)	<input type="checkbox"/> Control Unit SENSITY for higher sensitivity	
<input type="checkbox"/> Failure indication		
<input type="checkbox"/> Failure and metal indication		

■ Special versions / Supplementary systems

<input type="checkbox"/> Model with improved wearout protection	<input type="checkbox"/> Magnet systems for pre-removal of ferrous metals
<input type="checkbox"/> Pipe transition pieces with flanges	<input type="checkbox"/> Hopper magnet
<input type="checkbox"/> Explosion-proof version ATEX	<input type="checkbox"/> Inline magnet
	<input type="checkbox"/> Inline chute magnet
	<input type="checkbox"/>