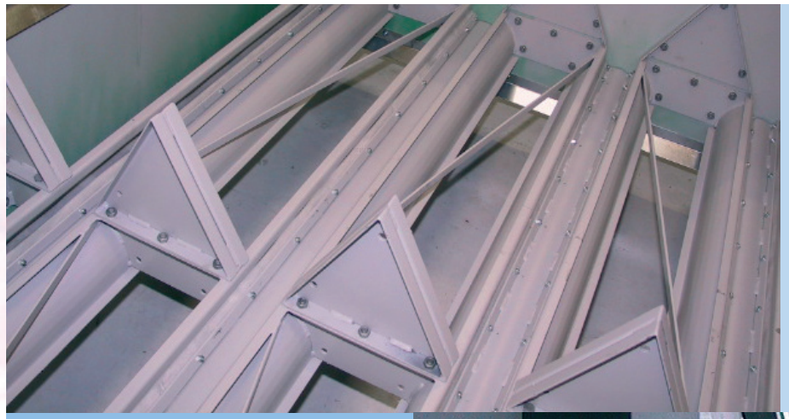

# Counterflow Cooler

## Crocus

Crocus has 15 years experience with production and assembly of custom-built solutions for conveying and industrial storage plant. Today, Crocus has an experienced and professional staff and 6000 m² production facilities. All products are manufactured in accordance with EU regulations.

Please contact Crocus for further technical information and prices.

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# Crocus Counter-flow Cooler

**The Crocus counter-flow cooler is designed to cool pellets, flakes, oilseeds, grain and similar free-flowing products after processing.**

## Energy efficient cooling

Cool air is drawn into the cooler, under the discharge section. It passes across the product that is evenly distributed across a large perforated cooling surface and is expelled via an external ventilator.

When the raw materials meet the cold air flow, heat and water vapour are exchanged cooling the product by degrees as it progresses through the cooler. The coldest and driest air meets the coolest and driest products and optimising efficiency.

Separation of the air intake and product discharge, combined with the relatively large cooling surface, ensures a homogenous air flow and a low energy consumption.

## Gentle on products

Air is passed through the product layer at approx. 0,8-1,1 m/sec. which minimises evaporation of water from the product making the cooling process gentle on products.

Furthermore, limiting evaporation to a minimum ensures that condensation on the inside of the cooler is also limited hereby ensuring hygiene in use.

## Non-stop cooling enhances efficiency

Designed for continuous usage, Crocus has developed a bunker discharge system that allows change over from one product or recipe to another with a change time of approx. 1 min.

The cooled product is discharged via the motorised outlet to the bunker system, the first product into the cooler being discharged first.

The perforated cooling surface may be dismantled for cleaning without the use of tools.

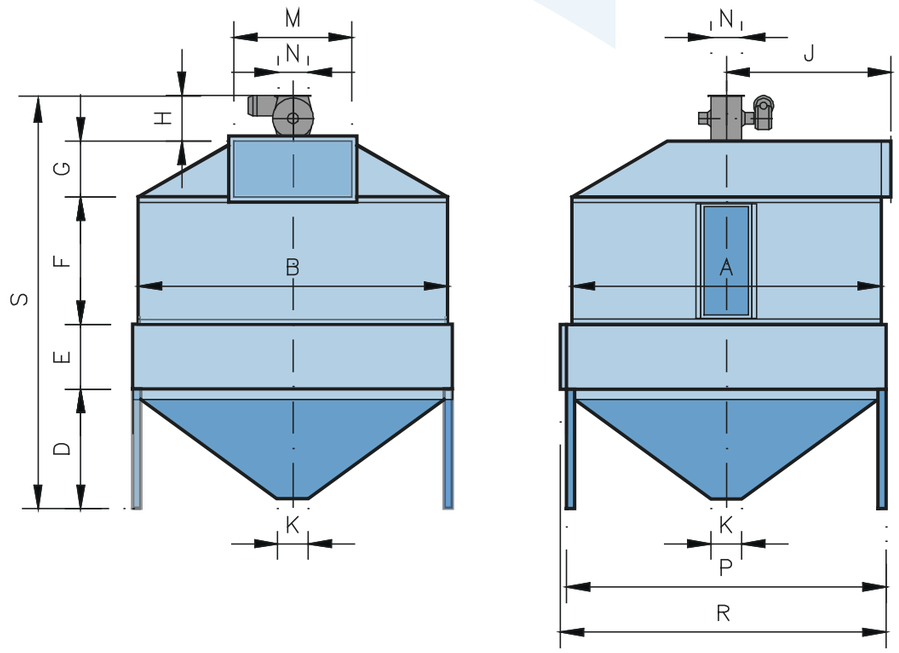
## Flexible industrial design

The Counter-flow Cooler is available in two designs, square and round, for flexibility of installation. Both designs are equipped with a cooling chamber manufactured in 2-3 mm stainless steel plate with a reinforced glass inspection hatch for ease of access.

## Low maintenance and operating costs

The industrial design of Crocus counter-flow cooler makes it robust, highly reliable and ensures consistent results ie. uniform moisture content.

# Technical data




| Type CCS: | Cap. (t/h) | Area ($m^2$) | A | B | D | E | F | G | H | J | K | L | M | N | P | R | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **100** | 10 | 3.6 | 1900 | 1900 | 800 | 638 | 1150 | 600 | 375 | 1000 | 300 | 2040 | 600 | 305 | 2040 | 2100 | 3660 |
| **101** | 15 | 4.4 | 1900 | 2280 | 895 | 638 | 1150 | 600 | 375 | 1240 | 300 | 2040 | 600 | 305 | 2040 | 2100 | 3760 |
| **150** | 15 | 5.2 | 2280 | 2280 | 990 | 638 | 1150 | 600 | 375 | 1240 | 300 | 2420 | 800 | 305 | 2420 | 2480 | 3850 |
| **151** | 20 | 6.1 | 2280 | 2660 | 1085 | 638 | 1150 | 600 | 375 | 1430 | 300 | 2420 | 800 | 305 | 2420 | 2480 | 3950 |
| **200** | 25 | 7.1 | 2660 | 2660 | 1180 | 638 | 1150 | 600 | 445 | 1430 | 300 | 2800 | 1000 | 355 | 2800 | 2860 | 4110 |
| **201** | 30 | 8.1 | 2660 | 3040 | 1275 | 638 | 1150 | 600 | 445 | 1620 | 300 | 2800 | 1000 | 355 | 2800 | 2860 | 4205 |
| **250** | 35 | 9.3 | 3040 | 3040 | 1370 | 638 | 1150 | 600 | 445 | 1620 | 300 | 3180 | 1250 | 355 | 3180 | 3240 | 4305 |
| **251** | 40 | 10.4 | 3040 | 3420 | 1365 | 638 | 1150 | 600 | 445 | 1810 | 300 | 3180 | 1250 | 355 | 3180 | 3240 | 4400 |
| **300** | 45 | 11.7 | 3420 | 3420 | 1560 | 638 | 1150 | 700 | 445 | 1810 | 300 | 3560 | 1500 | 355 | 3560 | 3620 | 4590 |
| **301** | 50 | 13 | 3420 | 3800 | 1655 | 638 | 1150 | 700 | 445 | 2000 | 300 | 3560 | 1500 | 355 | 3560 | 3620 | 4685 |
| **350** | 55 | 14.5 | 3800 | 3800 | 1750 | 638 | 1150 | 700 | 445 | 2000 | 300 | 3940 | 1750 | 355 | 3940 | 4000 | 4780 |
| **351** | 60 | 15.9 | 3800 | 4180 | 1745 | 638 | 1150 | 700 | 445 | 2190 | 300 | 3940 | 1750 | 355 | 3940 | 4000 | 4875 |

| Type CCR: | Cap. (t/h) | Area ($m^2$) | øC | D | E | F | G | H | J | K | M | N | P | R | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **100** | 10 | 2.9 | 1900 | 800 | 630 | 1250 | 550 | 375 | 1000 | 305 | 850 | 355 | 2040 | 2100 | 3605 |
| **150** | 15 | 4.1 | 2280 | 960 | 630 | 1250 | 550 | 375 | 1190 | 305 | 1250 | 355 | 2420 | 2480 | 3765 |
| **200** | 20 | 5.6 | 2660 | 1120 | 630 | 1250 | 550 | 445 | 1380 | 305 | 1250 | 445 | 2800 | 2860 | 3995 |
| **250** | 25 | 7.3 | 3040 | 1280 | 630 | 1250 | 550 | 445 | 1570 | 305 | 1500 | 445 | 3180 | 3240 | 4155 |
| **300** | 30 | 9.1 | 3420 | 1480 | 630 | 1250 | 700 | 445 | 1760 | 305 | 1500 | 445 | 3560 | 3620 | 4505 |
| **350** | 35 | 11.3 | 3800 | 1550 | 630 | 1250 | 700 | 445 | 1950 | 305 | 1800 | 445 | 3940 | 4000 | 4575 |

All measurements are stated in mm