



FEED AND BIOFUEL

# COOLER

PCF AND CBK

**ANDRITZ**

ENGINEERED SUCCESS

# Counter flow coolers for pelleting and extrusion applications

ANDRITZ has been manufacturing counter flow coolers for both pelleting and extrusion applications for over 30 years. This time-tested technology is still the most effective, safe and efficient method of cooling available in the industry today. As hot pellets are dispensed into the cooling chamber from the rotary valve above, fresh, cold air is being drawn down through the pellets from below.

Consequently, the last, hottest pellets discharged into the cooler are always encountering fresh air. As these pellets fill to the height of the mid-level switch, dispensing is temporarily halted and the pellets are discharged until this switch is uncovered again. This action ensures that ideal retention times are met and an optimal cooling temperature of 5°C above ambient temperature results.

The cooler comes with legs, a discharge hopper, a man-hole and a rotary valve located between the pellet mill and cooler. The rotary valve, hood, and bin walls are all manufactured in stainless steel for easy cleaning and protection against corrosion which ultimately improves over-all hygienic conditions inside the equipment.

The coolers are constructed with beveled corners to aid in pellet cooling and are also equipped with stationary pellet spreaders. However, an optional rotating pellet spreader is available for the cooler hood which ensures

the pellets entering the cooler are evenly distributed. Additionally, an optional adjustable rotating rake is available to remove craters on very light products.

Counter-flow coolers are designed with an easily adjustable variable discharge system, a hydraulic drive station, and are available with either a grid discharge for pellets (PCF models) or swivel valves (CBK models), the latter of the two is gentler on the product and more effective on difficult products flowing products.

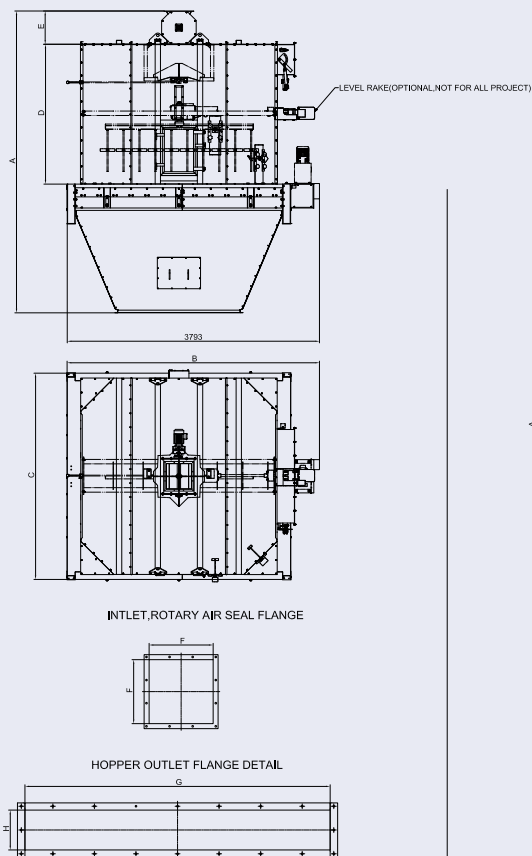
This cooler offers many features that make operation and safety a priority such as a large, transparent inspection door with safety switches for monitoring of the pelleting and cooling process, easily adjustable level switches for high level, discharge and empty levels. A fire protection system with a temperature sensor in exhaust air and a pneumatic damper. Fan and fines separator is available in either a cyclone or filter.

---

## PCF AND CBK COOLER FEATURES

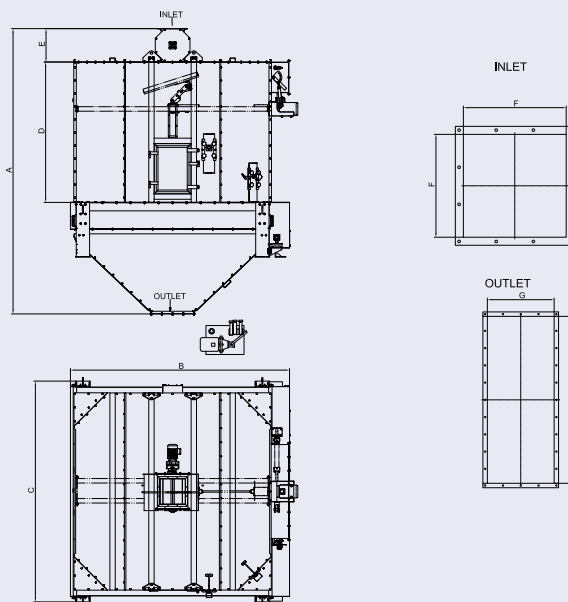
- Inlet rotary valve in stainless steel with directly coupled gear motor.
- Suction hood in stainless steel.
- Stationary pellet spreader
- Bin walls with 4 stainless steel sides, of which 1 side is provided with hard glass inspection window and switch.
- 2 rotating level sensors with brackets.
- Standard outlet hopper with central outlet, and standard leg length.
- Fire detector, adjustable thermostat in hood.
- Grid discharge unloading system type PCF with hydraulic unit.
- Unloading system type CBK: Swivel valve system for pellets, chips, lumps, extrudates etc. The system is actuated by a hydraulic piston with a motor driven oil pump.
- Unloading capacity adjustable by proximity switches
- Manhole in outlet hopper, for unloading system
- Valve in exhaust, pneumatic with air piston and solenoid valve. For shut off on fire detection.
- Set of supporting legs, non-standard





PCF Cooler

CBK Cooler



## TECHNICAL DATA - PCF

| Cooler model | Weight (Kg) | Grid area (m <sup>2</sup> ) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Inlet FxF (mm) | Outlet G(mm) | H(mm) |
|--------------|-------------|-----------------------------|--------|--------|--------|--------|--------|----------------|--------------|-------|
| PCF010       | 1600        | 3,53                        | 3023   | 2753   | 2154   | 1443   | 450    | 305            | 1000         | 1000  |
| PCF015       | 1940        | 4,35                        | 3499   | 3318   | 2154   | 1683   | 450    | 305            | 1180         | 240   |
| PCF020       | 2320        | 5,26                        | 3721   | 3318   | 2634   | 1803   | 450    | 385            | 1200         | 240   |
| PCF030       | 3200        | 7,84                        | 4539   | 3793   | 3114   | 2103   | 500    | 385            | 1836         | 240   |
| PCF040       | 5000        | 9,4                         | 5084   | 4341   | 3626   | 2753   | 500    | 385            | 2000         | 1000  |

## TECHNICAL DATA - CBK

| Cooler model | Weight (Kg) | Grid area (m <sup>2</sup> ) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | Inlet FxF (mm) | Outlet G(mm) | H(mm) |
|--------------|-------------|-----------------------------|--------|--------|--------|--------|--------|----------------|--------------|-------|
| CBK015       | 2580        | 4,35                        | 3803   | 2806   | 2324   | 1683   | 450    | 305            | 1000         | 300   |
| CBK020       | 2840        | 5,26                        | 4308   | 2850   | 2776   | 1803   | 450    | 305            | 1300         | 300   |
| CBK030       | 4000        | 7,84                        | 4523   | 3284   | 3306   | 2103   | 500    | 385            | 1840         | 240   |
| CBK040       | 5630        | 9,4                         | 5308   | 3996   | 3776   | 2753   | 500    | 385            | 1400         | 500   |



## GLOBAL SUPPLIER – LOCAL PRESENCE

With sales, service, engineering, manufacturing and production sites located all around the world, ANDRITZ Feed and Biofuel is truly a global organization with a local presence. ANDRITZ is vital to ensuring a reliable global supply of aqua feed, animal feed, pet food, and biofuel. With full process lines accounting for half the world's production of aqua feed and biomass alone, we continuously support leading producers in achieving the highest levels in safety, quality, and control from feedstock to final product.

How can we help grow your business?

### ANDRITZ Feed and Biofuel A/S

Glentevej 5–7  
6705 Esbjerg, Denmark  
p: +45 72 160 300  
andritz-fb.dk@andritz.com

#### AUSTRALIA

p: +61 3 8773 4888  
andritz-fb.au@andritz.com

#### CHINA

p: +86 21 5774 5781  
andritz-fb.cn@andritz.com

#### INDIA

p: +91 87544 15287  
andritz-fb.india@andritz.com

#### SOUTH AFRICA

p: +27 82 781 0808  
andritz-fb.za@andritz.com

#### BANGLADESH

p: +88 (02) 9844800  
andritz-fb.bd@andritz.com

#### COLOMBIA

p: +57 (1) 744 8200  
andritz-fb.co@andritz.com

#### ITALY

p: +39 (0445) 575 695  
andritz-fb.it@andritz.com

#### TURKEY

p: +90 232 570 38 00  
andritz-fb.tr@andritz.com

#### BRAZIL

p: +55 47 3387 9146  
andritz-fb.br@andritz.com

#### DUBAI

p: +971 4 299 5555  
andritz-fb.uae@andritz.com

#### MEXICO

p: +52 443 323 1530 ext 364  
andritz-fb.mx@andritz.com

#### UK

p: +44 1482 825119  
andritz-fb.uk@andritz.com

#### CANADA

p: +1 (519) 676-7057  
anbosales@andritz.com

#### FRANCE

p: +33 24 75 06 364  
andritz-fb.fr@andritz.com

#### NETHERLANDS

p: +31 40 2627777  
andritz-fb.nl@andritz.com

#### USA

p: +1 570 546 1253  
andritz-fb.us@andritz.com

#### CHILE

p: +56 2 24624608  
andritz-fb.cl@andritz.com

#### GERMANY

p: +49 2104 9197 0  
andritz-fb.de@andritz.com

#### POLAND

p: +48 60 906 1037  
andritz-fb.pl@andritz.com

#### VIETNAM

p: +84 8 6253 9434  
andritz-fb.vi@andritz.com

**ANDRITZ.COM/FT**



All data, information, statements, photographs and graphic illustrations in this leaflet are without any obligation and raise no liabilities to or form part of any sales contracts of ANDRITZ AG or any affiliates for equipment and/or systems referred to herein. © ANDRITZ AG 2019. All rights reserved. No part of this copyrighted work may be reproduced, modified or distributed in any form or by any means, or stored in any database or retrieval system, without the prior written permission of ANDRITZ AG or its affiliates. Any such unauthorized use for any purpose is a violation of the relevant copyright laws. ANDRITZ AG, Stattegger Strasse 18, 8045 Graz, Austria.

