

**DON'T GO WITH THE FLOW!**

**Geelen Counterflow<sup>®</sup>**

**world's highest efficiency  
world's lowest downtime**



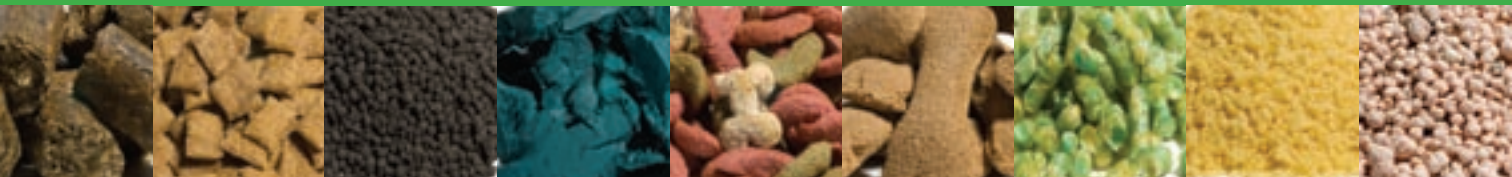
GEELLEN COUNTERFLOW

VK..x..R.

# TRIPLE GRID COOLER

The Triple Grid cooler operates by sucking air through a product bed which is variable in depth. New product is continuously fed in through the inlet valve, while the Triple Grid discharger ensures smooth discharging of cooled product into the hopper.

The gear motor driven discharger is triggered by level or temperature sensor. Discharging speed is adjustable through a hand wheel, or a two position system with pneumatic cylinder. The Triple Grid discharger is particularly suited to pelleted products with good flowing capabilities. Typical applications are for cooling of feed pellets, wood pellets, pulp pellets, etc.



# COOL AND DRY!

# TRIPLE GRID COOLER



### Sizes and capacities

Multiple sizes are available, each with different cooling surface area's. In combination with your process details, the cooling surface determines the air volume that is required for proper cooling. Bin walls are available off the shelf in several sizes, or alternatively they can be custom made to your specifications.

### Material specification

Every cooler consists of stainless steel inlet valve, hood, product distributor and bin walls. The discharger and hopper are in mild steel.

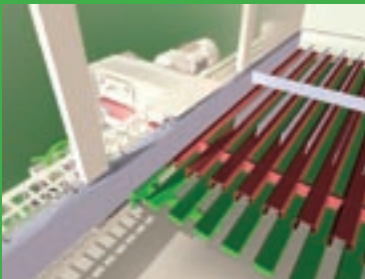


### Clean out

A pneumatic cylinder opens and closes the grid completely at the end of the run to make sure no pellets are left behind. Hatches or wide doors with safety switch provide access to the cooler and hopper for inspection and cleaning.

### Cooler fire safety

An adjustable thermostat in the hood is used to trigger shut off of fans if necessary. A fire valve in the hood immediately cuts off the supply of fresh air in case temperature in the cooler reaches a pre-set limit.



### Bevelled corners

Bevelled corners in the hopper ensure that product or fines do not build up.

### Air flow control

With an Air Flow Control Valve, air volume can be accurately controlled. There is automatic stabilisation of air volume, irrespective of bed depth. The required air volume can be recipe dependent. No more risk of blow holes during start up or emptying and no more risk of fines flying into the cyclone.

### Power failure protection

A second pneumatic cylinder is employed to close the grid immediately when there is a power failure in the plant.

### Two discharge positions selection

A pneumatic cylinder is used to select between 2 different discharge position for products of different diameters.

### Absorption of fats

When fats are added just upstream of the cooler, the Geelen Clam Shell Valve will ensure a thorough absorption into the product before cooling starts. This reduces pollution of the air system and product.

### Efficient change over

An Intermediate Gate installed above the main cooler deck will reduce the downtime in between any two product runs, without any compromise to efficiency or product quality.

### Custom built hopper and support

The hopper and support frame can be built according to your exact instructions.

Some of the above mentioned features may be optional