

DON'T GO WITH THE FLOW!

Geelen Counterflow[®]

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



GEELLEN COUNTERFLOW

VK..x..K.

SWIVEL VALVE COOLER

The Swivel Valve 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 Swivel Valve discharger ensures smooth discharging of cooled product into the hopper. Bridging of the product bed is avoided by gently lifting the product bed before discharging.

The discharge system is triggered by level or temperature sensor and driven by hydraulic cylinder and power pack. Open and closed positions of the discharger can be adjusted either manually or remotely by controller or PLC.

The Swivel Valve discharger can handle any type of granular product. It is also the cleanest discharge system available, leaving no product in the cooler after emptying.



COOL AND DRY!

SWIVEL VALVE 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 can be optionally delivered in stainless steel as well.



Clean out

Clean out is simple and effective. By driving the hydraulic cylinder to its fully open position, the discharger will drop all product remains into the hopper. 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.

Remote control

By using an angle encoder with mA signal and controller, multiple open and closed positions can be selected, based on the type of product you are cooling. The controller can talk to your PLC.

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