



Water Circulation
PT-W



Sifter PT-S400

With a water circulation, the process water used to cool the strands is circulated, filtered and cooled in a closed circuit.

As the strands are cooled, the process water absorbs their heat energy and heats up. The process water is then pumped through a heat exchanger and cooled back again by means of cooling water from a customer's cold water circuit.

A float valve with fresh water connection compensates for the loss of process water through the evaporation and the discharge via the strands. A coarse filter is installed in front of the pump and a filter unit with cartridge filter is installed in front of the heat exchanger to retain fibres and fines brought from the strands into the process water.

Separating process and cooling water has the advantage that:

- each pelletizing line can be operated with a water temperature adjusted to the respective plastic
- a unintended transfer between individual pelletizing lines by the process water is prevented



The water circulation can be integrated into the trough base frame until a certain size.

Once a certain size limits is exceeded, a separate installation is advantageous.



Data:

Water circulation		PT-W20	PT-W40	PT-W60	PT-W90	PT-W120	PT-W150
Buffer tank content	[l]	(75)	(75)	(100)	(100)	150	200
Fresh water supply		Float valve ½" FT					
Pump capacity	[m³/h]	1,2	2,4	3,6	5,4	7,2	9,0
- Drive power	[kW]	1,1	1,1	1,1	2,2	2,2	2,2
Heat exchanger		brazed				bolted	
- Cooling power	[kW]	20	40	60	90	120	150
Water filtration		Cartridge filter					
- Filtration rating	[mm]	0,5					
Sound level	[dB(A)]	<= 85					
Weight	[kg]	70	80	100	150	180	200



About us:

The PT Maschinenbau GmbH is a privately owned company, located in southern Germany. As specialists in strand pelletizing we deliver our products from here to customers throughout whole Europe and worldwide.

We bundle up the core competencies for design, engineering and construction of our products. For the further provision of services we complement our abilities us by using a proven network of suppliers and service providers. We prefer generating our products by using local and European suppliers.



During decades of working in this business area we have gained a comprehensive experience, derived from countless projects with notable customers in all industry sectors and countries. Based on this know-how, with a long lasting and well-rehearsed team, we generate proven, reliable and durable solutions for our customers.

Scope of products:

Cooling		Drying		Cutting		Sifting
Cooling trough	Cooling belt	Strand conveyance	Water circulation	Air wipe Air knife	Pelletizer	Sifter
PT-K150	PT-B100	PT-C100	PT-W20	PT-D50	PT-G50E	PT-S150
PT-K200	PT-B200	PT-C200	PT-W40	PT-D100	PT-G100E	PT-S300
PT-K250	PT-B300	PT-C300	PT-W60	PT-A75	PT-G120D	PT-S400
PT-K400			PT-W90	PT-A150	PT-G220D	PT-S400-DD
PT-K600			PT-W120	PT-A300	PT-G320D	PT-S550-DD
PT-K800			PT-W150	PT-A400		
				PT-A600		

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