



Cooling



Rollepaal Cooling

Rollepaal has a complete range of vacuum and spray cooling equipment for pipe diameters from 6 to 1600 mm (¼" to 64"). The controlled environment of the cooling units increases the process accuracy production capabilities.

Rollepaal Vacuum Cooling

Level control systems on cooling equipment existed from the very start. Various solutions can be used, such as floating systems and electric sensors. Keeping the vacuum level within narrow boundaries despite fluctuations of the water pressure and temperature is not an easy task. In the past, the operator had to adjust the valve positions and check the operation of the equipment regularly to deal with various circumstances. Today, level control has matured using a very reliable sensing element and a smart electronic controller. It is maintenance free, insensible to contamination and it has wide bore flanges to avoid seal-damage during startup.

Rollepaal Spray Cooling

Positioned after the vacuum cooling section, the spraying bath cools the pipe down further by spraying water on the pipe under atmospheric conditions. Fresh water is supplied to maintain the set temperature level. The water level is kept constant with an overflow outlet.

The spray cooling is intended for use in the daily production environment. The spray cooling chamber is a welded shell, made of V2A stainless steel. There are multiple aluminum covers with a sealing rubber insert on the top.

The spray nozzles are fixed alongside the tank. The inlet and outlet seals will be adapted to the pipe diameter. Pipe support is done with rollers or disks (depending on the application).

The machine chassis is a welded construction. The height can be adjusted by turning two screws on each console.

Advantages

- Standard long lasting air controlled valves, suitable for contaminated water
- New water level control, not sensitive for contaminated water
- Rigid and sturdy stainless steel construction
- Cost reduction because of quick tool change
- Stable vacuum and efficient cooling
- Highly efficient electronic motors
- Stable cool water temperature control
- Quick start up as seals maintain vacuum at out-of-shape pipe



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Product Range



Minimum diameter (mm)	Minimum diameter (inch)	Maximum diameter (mm)	Maximum diameter (inch)	Vacuum chambers
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RVC Rollepaal vacuum cooling units					
4	16	1	125	5	1 or 2
8	50	2	250	10	1 or 2
16	110	4	410	16	1 or 2
20	160	6	520	20	1 or 2
24	250	10	630	24	1 or 2
30	400	16	800	32	1 or 2
40	560	18	1000	40	1 or 2
48	800	24	1200	48	1 or 2
64	800	32	1600	64	1 or 2

RSC Rollepaal atmospheric cooling units					
4	16	1	125	5	
8	50	2	250	10	
16	110	4	410	16	
20	160	6	520	20	
24	250	10	630	24	
30	400	16	800	32	
40	560	18	1000	40	
48	800	24	1200	48	
64	800	32	1600	64	

RDV Rollepaal dual vacuum cooling units					
2	10	1/4	63	2.5	1
4	25	1	125	5	1 or 2
8	50	2	250	10	1 or 2

RDC Rollepaal dual atmospheric cooling units					
2	10	1/4	63	2.5	
4	16	1	125	5	
8	50	2	250	10	



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