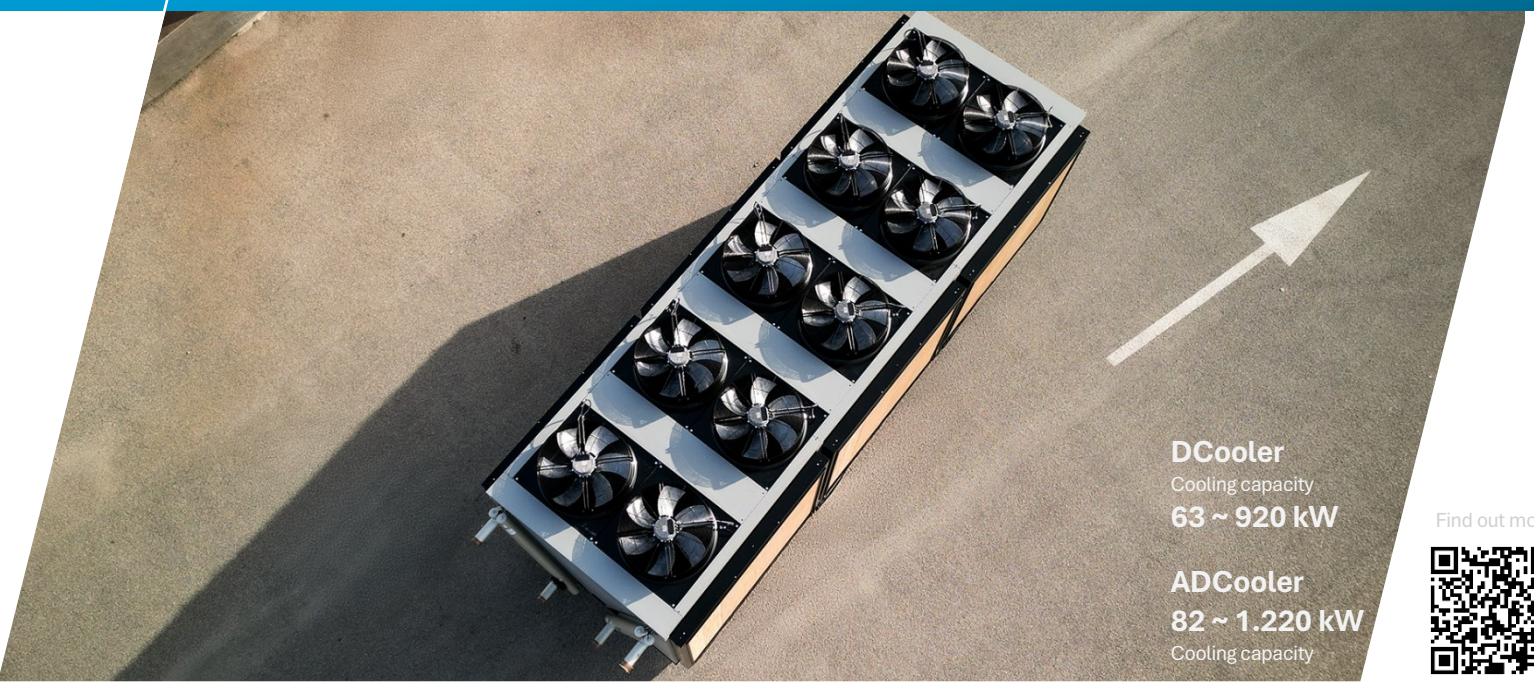
DC & ADCooler

Dry-Cooler & Adiabatic Dry-Cooler
for Plastic Industry Dedicated Cooling

EUROCHILLER®
Part of Atlas Copco Group



Find out more

Eurochiller **DCooler & ADCooler** range

Boosted Cooling Power with Smart Water Management

Our **DCoolers** deliver high-performance heat rejection using ambient air, offering a sustainable and low-maintenance solution for industrial and commercial cooling systems. Designed for reliability and energy efficiency, they are ideal for applications where water conservation and operational simplicity are key. With robust construction and quiet operation, our dry coolers ensure optimal thermal performance even in demanding environments.
Our Adiabatic version **ADCooler** combines the efficiency of air-cooled systems with the enhanced performance of evaporative cooling. By pre-cooling the incoming air with a controlled water mist, it significantly improves heat rejection during peak temperatures—without the high-water consumption of traditional cooling towers. Perfect for regions with hot climates or high thermal loads, it offers a smart balance between performance, sustainability, and cost-efficiency.

Water-Saving Technology

- **Water-Free Operation:** No need for continuous water supply or treatment. It uses water only when needed, with smart control.
- **Eco-Conscious Design:** Anti-Legionella design with automatic water flushing system.
- **Eco-Friendly Solution:** Ideal for regions with water restrictions or sustainability goals.
- **Minimal Environmental Impact:** No chemical discharge, no water waste, and no risk of legionella.

Energy Efficiency

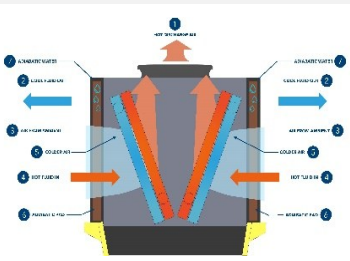
- **Enhanced Cooling Capacity:** Up to 40% more efficient during peak heat.
- **Low Carbon Footprint:** Energy-efficient EC fans and smart controls reduce electricity usage.
- **Optimized Water Use:** Uses water only during peak conditions, reducing overall consumption.
- **Energy Savings:** Improved thermal efficiency lowers energy demand and operating costs.

Key Benefits

- **Quiet Performance:** Low-noise fans for silent operation in sensitive environments.
- **Long-Term Sustainability:** Durable materials and low maintenance extend product life.
- **Low Maintenance:** No risk of scaling, corrosion, or biological growth. Corrosion-resistant coil materials (copper/aluminum or stainless steel).
- **Compact & Modular Design:** Easy to install and scale according to system needs.

WATER SAVING

ADIABATIC SYSTEM



V-SHAPED COILS

Eurochiller **DCooler** & **ADCooler** range

Cutting-Edge Technology and Premium Components

Robust frame structure
Epoxy coating protection

EC Axial fans option
Brushless fans for -20°C installations

Cu-Al Coils
High efficiency thermal exchange

Optional internal water pump
Internal pump with pressurized water circuit

Adiabatic pads
The smart choice against cooling towers

Drainage
Patented system to avoid Legionella issues

Adiabatic solenoid valves
Smart management of pads watering

Ambient friendly
Powerful but eco-friendly

Ready for **Industry 5.0**

The optional **Chiller Gateway interface** enables seamless integration with the most widely used industrial communication protocols, including Ethernet and Profibus. This feature supports the digital transformation of manufacturing environments by ensuring full connectivity within modern factory.

Modbus RTU · Modbus TCP/IP · BACnet · EtherNet/IP · OPC · PROFIBUS · PROFINET

CE

Dry & Adiabatic - Cooler for Plastic Industry dedicated cooling

Technical Data

DCooler Version 50Hz		**DC-S 60**	**DC-S 120**	**DC-S 200**	**DC-S 270**	**DC-S 350**	**DC-S 450**	**DC-L 250**	**DC-L 400**	**DC-L 500**	**DC-L 600**	**DC-L 720**	**DC-L 880**
Cooling Capacity (1)	kW	63	125	210	283	363	447	265	378	525	647	752	920
ADCooler Version 50 Hz		**ADC-S 80**	**ADC-S 170**	**ADC-S 280**	**ADCS-380**	**ADC-S 490**	**ADC-S 600**	**ADC-L 350**	**ADC-L 500**	**ADC-L 700**	**ADC-L 850**	**ADC-L 1000**	**ADC-L 1200**
Cooling Capacity (2)	kW	82	169	282	383	505	630	346	498	694	856	994	1.220
Nominal Water Flow	m3/h	10,8	21,5	36,1	48,7	62,4	80,5	45,6	65,0	90,3	11,3	129,3	158,2
Number of Fans		1	2	3	4	5	6	4	6	8	10	12	14
Power of Fans	kW	2,25	4,5	6,75	9,0	11,25	13,5	8,8	13,2	17,6	22,0	26,4	30,8
IN/OUT Water Connections	[inch]	2"	2 1/2"	3"	3"	3"	3"	4"	4"	4"	4"	4"	4"
Water Content	lt	40	70	140	300	380	460	175	290	410	550	720	790
Length	[mm]	1.770	2.970	4.170	5.370	6.520	7.770	3.970	5.205	6.435	8.380	9.900	10.930
Width * (AD)	[mm]	1.610 (1.910)	1.610 (1.910)	1.610 (1.910)	1.610 (1.910)	1.610 (1.910)	1.610 (1.910)	2.380 (2.680)	2.380 (2.680)	2.380 (2.680)	2.380 (2.680)	2.380 (2.680)	2.380 (2.680)
Height	[mm]	2.145	2.145	2.145	2.145	2.145	2.145	2.600	2.600	2.600	2.600	2.600	2.600
Pump Kit Version	kW	2,3	3,0	5,5	7,5	9,2	11,0	Option not available					

(1) Reference condition: Ambient Air 30°C / Water in/out +40/35°C, 0% Glycol.
(2) According to ENV 1048 regulations without adiabatic pads.

Applications of DCooler & ADCooler in the Plastics Industry

- Plastic Molding Machines
- Chill Rolls
- Shredder Recycling
- Wrap Recycling
- Bag, Bottle, and Film Production
- Injection Molding
- Blown Film Molding
- Stretch Blow Molding
- Profile Extrusion

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