EVVS

Air-Cooled Water Chillers
for Plastic Industry centralized cooling

EUROCHILLER
Part of Atlas Copco Group

Find out more

New Eurochiller **EVVS** range

Cutting-Edge Technology and Premium Components

Discover the innovative **EVVS** chillers, utilizing **R454B** refrigerant to significantly minimize environmental impact with a low Global Warming Potential (GWP). EVVS Water Chillers play a vital role in the plastics industry by providing precise temperature control. These units are essential for directly cooling plastics during processing, ensuring that manufacturing machines operate efficiently. By preventing defects, warping, and shrinkage, our cooling solutions guarantee high-quality, dimensionally accurate products. Additionally, they help reduce energy waste and costs.
EVVS Water Chillers also enhance safety, extend equipment lifespan, and increase process flexibility, making them indispensable for plastics processing.

Low-GWP Refrigerant

We prioritize environmental sustainability and offer the option to equip your **EVVS** with **R454B** refrigerant, a low global warming potential solution. This low-impact refrigerant helps to reduce greenhouse gas emissions, promoting a greener future.

R454B: GWP = 467

Advanced Multi-Scroll Compressors

At the heart of EVVS there is an **advanced multi-scroll compression system** designed for stable and reliable performance. This technology increases efficiency, reduces vibrations, and extends the lifespan and reliability of the chiller.

HIGH PERFORMANCE

Exceptional Energy Efficiency

EVVS ensures efficient cooling for industrial operations while minimizing energy consumption, thanks to its high **Seasonal Energy Performance Ratio (SEPR HT)**. This reduces operational costs and supports environmental sustainability without compromising performance.

SEPR (HT)* up to 6,40

Energy saving example
EVVS 310 AG HT **SEPR HT = 6,29**
Other conventional Chiller **SEPR HT** = **5,45**

EVVS Energy saving / year = 23.127 kW/h
Electricity cost = 0,20 €/kWh
EVVS Energy saving / year = > 4.600,00 €

*Seasonal Efficiency Performance Ratio for Process HT Chillers (EU Reg. 2281/2016) can be used for comparison with other chillers with standard efficiency level.

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Cutting-Edge Technology and Premium Components

Robust frame structure
Epoxy coating protection

EC Axial fans
Brushless energy-saving motor

Microchannel coils
Less refrigerant charge / More efficiency

Centrifugal water pump
High pressure and stand-by options

IQ21 PLC controller
Industrial Touch screen display interface

Hydronic configuration flexibility
Brazed plate or Shell & tube evaporator

Scroll compressors - IDVs technology
Optimized for low-GWP refrigerant

Electronic expansion valve
Partial load control optimized

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

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Technical Data

EVVS AG R454B HT 50 Hz		**175**	**195**	**210**	**245**	**260**	**310**	**350**	**380**	**420**	**480**	**530**	**600**	**660**	**710**	**750**	**830**
Cooling Capacity[1]	[kW]	174,6	191,7	208,4	240,4	264,5	315,2	339,3	385,9	420,8	491,4	555,4	592,3	630,0	691,4	729,1	820,4
Power consumption[1]	[kW]	36,6	41,7	47,0	58,4	51,5	61,2	68,8	81,4	93,6	101,1	112,1	126,1	140,2	141,6	155,3	174,0
EER[1]	-	4,77	4,60	4,44	4,12	5,14	5,15	4,93	4,74	4,50	4,86	4,96	4,70	4,49	4,88	4,69	4,71
SEPR HT[2] Reg. EU 2281/2016	-	6,62	6,49	6,26	6,10	6,16	6,29	6,08	5,99	5,87	5,98	6,14	5,83	5,72	6,10	5,92	6,03
Compressors / Circuits	-	2 / 1	2 / 1	2 / 1	3 / 1	5 / 2	6 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	5 / 2	6 / 2	5 / 2	6 / 2	6 / 2
Number of fans	-	2	2	2	2	3	4	4	4	4	5	6	6	6	7	7	8
Hydronic configurations	-	Single or twin (stand-by) pump option, from 2 to 6 bar | Integrated buffer tank option															
IN/OUT water connections	[inch]	3”	3”	3”	3”	4”	4”	4”	4”	4”	5”	5”	5”	5”	6”	6”	6”
Length	[mm]	2.660				3.500					5.020				6.475		
Width	[mm]	1.590				2.230					2.230				2.230		
Height	[mm]	2.520				2.520					2.520				2.520		

(1) Reference condition: Ambient Air 25°C, Evaporator in 20°C / out 15°C, 0% Glycol.
(2) Data declared in compliance with the European Regulation (EU) 2016/2281 regarding Eco-Design requirements for cooling products and high temperature process chillers. Values refer to configuration without pump.

Applications of EVVS Chillers 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
- Plastic Welding
- Profile Extrusion

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