tABF

Air Temperature Control units for Blown Film Lines
Where Blown Film Meets Cooling Revolution

EUROCHILLER®
Part of Atlas Copco Group

Find out more

New Eurochiller **tABF** range

The new concept for Air Temperature Control

Meet **tABF**, the new Air Temperature Control units innovating the cooling on blown film line applications. Utilizing **a new refrigerant** to significantly minimize environmental impact with a **low GWP** (Global Warming Potential). Designed specifically for industrial processes, these units provide exceptional flexibility and energy efficiency without forgetting about the cooling precision. This direct expansion air chiller, featuring inverter-controlled scroll compressors, electronic expansion valves and integrated connectivity, guarantee high performance, reliability, and easy maintenance.
Designed for the purpose, tABF is your best partner in blown film production.

Competitive Advantages

tABF is equipped with direct expansion evaporating coil, Inverter compressors technology, PID control algorithm with speed management. These features offer a lot of advantages when compared to Indirect Air coolers. They guarantee **improved mechanical properties** of the film, **increased transparency and gloss** and **increased production speed.**

Exceptional Energy Efficiency

- **Standard Mode**: Mechanical cooling only (compressors).
- **Precision Mode**: Mechanical cooling + heat recovery via water/air coil integrated.
- **Energy Saving Mode**: Energy Saving though a new regulation concept.

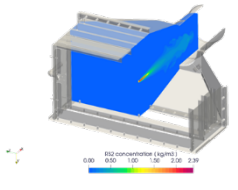
Suitable for All Conditions

- **Ambient air temperature**: from -10°C to +50°C
- **Wide condensing water** inlet temperature range: from 12°C to 55°C.
- Compatible with any available on-site water source.
- Compressor speed regulation: from **20 Hz to 120 Hz**

BOOST QUALITY & PRODUCTION

MONEY SAVING UNIT

DESIGNED TO LAST



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The new concept for Air Temperature Control

Improved Reliability
Design of the chassis based on FEM analysis

Compliance with new F-Gas
New low-GWP Refrigerant

Enhanced operating temperature range
Last generation VSD Scroll Compressors

Increased efficiency
Heat Exchangers re-designed with CFD study

Connectivity with the Blown Film line
Multiple communication protocols

Reduced energy consumption
Energy-saving plug-&-play solution

Variable speed Scroll compressors
Advanced BLDC motor technology

Wide operational range
Flexible operational range for every location

Ready for **Industry 5.0**

The **PLC 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 · LonWorks

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Water-cooled **Air Temperature Control units** for Blown Film Lines

Technical Data

tABF WG 400V/50 Hz		SINGLE (**Air-Ring** temperature control)					TWIN (**Air-Ring + IBC** temperature control)				
		20	**30**	**40**	**55**	**110**	**20/10**	**30/10**	**40/15**	**55/20**	**75/30**
Cooling Capacity[1]	[kW]	25,0	35,0	45,0	65,0	*Available from 2027*	25,0 / 10,0	35,0 / 10,0	45,0 / 15,0	65,0 / 25,0	*Available from 2027*
Nominal air flow rate	[m³/h]	2.000	3.000	4.000	5.500		2.000 / 1.000	3.000 / 1.000	4.000 / 1.500	5.500 / 2.000	
Frame	-	Small		Medium			Small + Small		Medium + Small		
Refr. circuits / air loop link	-	1 / 1					2 / 2				
Compressors / Circuits	-	1 / 1					2 / 2				
Total power input[1]	[kW]	4,8	6,1	8,8	11,6		4,8 / 2,1	6,1 / 2,1	8,8 / 3,5	11,6 / 4,8	
Min. air flow	[m³/h]	650	1.000	1.300	1.800		650 / 320	1.000 / 320	1.300 / 500	1.800 / 650	
Dimensions (L x D x H)	[mm]	1.810 x 610 x 1.870		1.810 x 1.100 x 1.870			1.810 x 1.215 x 1.870		1.810 x 1.695 x 1.870		

(1) Reference condition: Air IN 35 °C, 45 % r.h. / Air OUT 15 °C, nominal air speed. Condensing water IN/OUT: 30 / 35 °C.
Preliminary data – subject to change without notice.

Applications of tABF in the Plastic Industry

- Food Packaging Films
- Shrink Films
- Stretch Films
- Polybags
- Zipper Bags
- Greenhouse Films
- Mulch Films
- Silage Bags
- Construction Films
- Barrier Films

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