

Compressed Air Chiller CAC

Based on many years of experience the **CAC-units (Compressed Air Chiller)** were developed for the application on blow moulding machines.

CAC-units are available in 5 standard sizes. Compressed air outlet temperature in all CAC - units is **-35°C (-31°F)**.

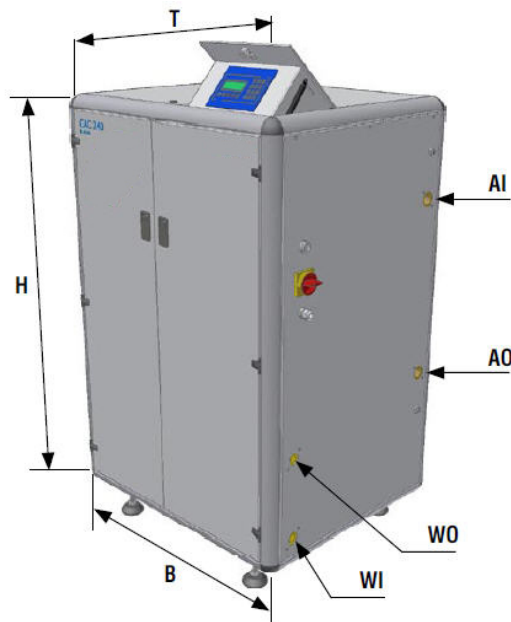
Model	Electric Power [kW]	Compressed air connections		Chilled water connections		Dimensions [mm]			Weight [kg]
		AI	AO	WI	WO	B	T	H	
CAC - 120	2.2	1"	1"	1/2"	1/2"	870	750	1160	277
CAC - 180	3.0	1"	1"	1/2"	1/2"	870	750	1160	344
CAC - 240	4.5	1"	1"	1/2"	1/2"	870	750	1400	454
CAC - 360	6.1	1 1/2"	1 1/2"	1/2"	1/2"	1330	860	1500	580
CAC - 540	8.5	1 1/2"	1 1/2"	1/2"	1/2"	1330	860	1900	900

Model	Nominal air flow [Nm ³ /h]	Min. air flow [Nm ³ /h]	Max. pressure [bar]	Power consumption [kW]	Chilled water load [kW]
CAC - 120	120	68	10 / 15*	2.2	5.0
CAC - 180	180	120	10 / 15*	3.0	7.6
CAC - 240	240	160	10 / 15*	4.5	10.1
CAC - 360	360	240	10 / 15*	6.1	15.2
CAC - 540	540	360	10 / 15*	8,5	23.0

The a.m. electrical power consumption is based on a standard voltage of 3 * 400V, 50 Hz.

* Special models on inquiry

The a. m. chilled water load is based on air inlet temperature of 35°C (95°F).



- required pressured air quality as per ISO 8573.1
Rest oil (Kl. 1) 0,01 mg/m³
Rest humidity (Kl. 5) + 7°C pressure dew point
Rest dust (Kl. 2) 1 µm oder 1 mg/m³
- Chilled water pressure drop 2 bar, air pressure up to 15 bar
- Chilled water temperature
 Max. 15°C Min. 2°C
- Standard voltages
 3 x 400 V, 50 Hz
 3 x 460 V, 60 Hz
 Other voltages on request

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Representative:



Capacity : 120 to 540 Nm³/h

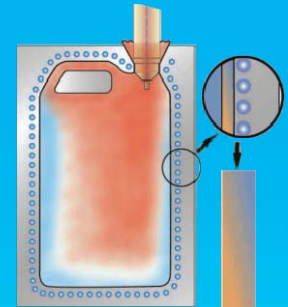
INCREASING PRODUCTION AND QUALITY

Extrusion Blow Molding with Chilled Compressed Air

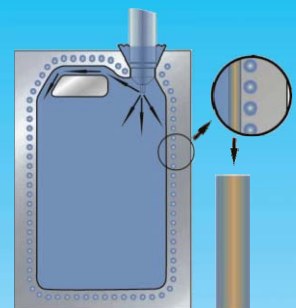
Cooling the product is the longest and most critical part of the solidification process. The fact that the mold only removes heat from the outside surface of the container causes material stress and extended cooling time in the mold.

The **Compressed Air Chiller (CAC)** replaces the regular blowing air with chilled compressed air (-35°C) inside the container during the blowing process.

Result: heat is removed also from the inner surface of the container reducing material stress and cutting cooling time up to 50%



Blowing process with normal air



Blowing process with chilled compressed air

15 yrs of
Indian market
presence

SAME PRODUCTION CONDITIONS THROUGHOUT THE YEAR

Injection and Blow Molding without Mold Condensation

When the surface temperature of an object sinks below the dew point of the ambient air, condensation builds on this object. This problem especially occurs on chilled molds of plastic processing machines.

The answer to this problem is to create a dry climate around the mold. The **Mold Sweat Protector (MSP)** fills the enclosed mold area with dry process air with a 4°C dew point.

Result: The MSP allows the usage of cold water with constant and optimal process temperature without the trouble of condensation.



Capacity : 1000 to 5000 Nm³/h

