



Saving money with air

Industrial climate separation solutions
through AFIM® Air Doors

A safer and more pleasant work environment while saving money

All passages damage-free!

Operation

AFIM® Air Doors create an effective air separation between two climate zones. Unlike standard air curtains, AFIM® Air Doors focus on the separation of temperature, moisture, odour, dust, and insects. Not only do you save on your energy bill, there is also no need to invest in a draught lobby and airlocks.

The AFIM® Air Door consists of an energy-efficient high pressure fan and a specially developed outlet module. The air that is blown out under pressure forms an effective separation between two different climate zones. This airflow acts as a thin invisible door that hermetically shuts the opening.

The solution to every problem

AFIM® Air Doors come in many types and versions, each designed for a specific solution for every imaginable situation. A division can be made between the various AFIM® Air Doors models for climate separations starting from 0°C (32°F). There are also various models for freezer rooms, called the AFIM IGLO®.

Benefits



Savings: Invisible separation of two climate zones while temperatures remain stable.



Productivity: Increases the logistics flow because passage ways remain open.



Safety: open transport passages without vision obstacles; safer logistics.

Operation and results

1 Situation with an unprotected passage

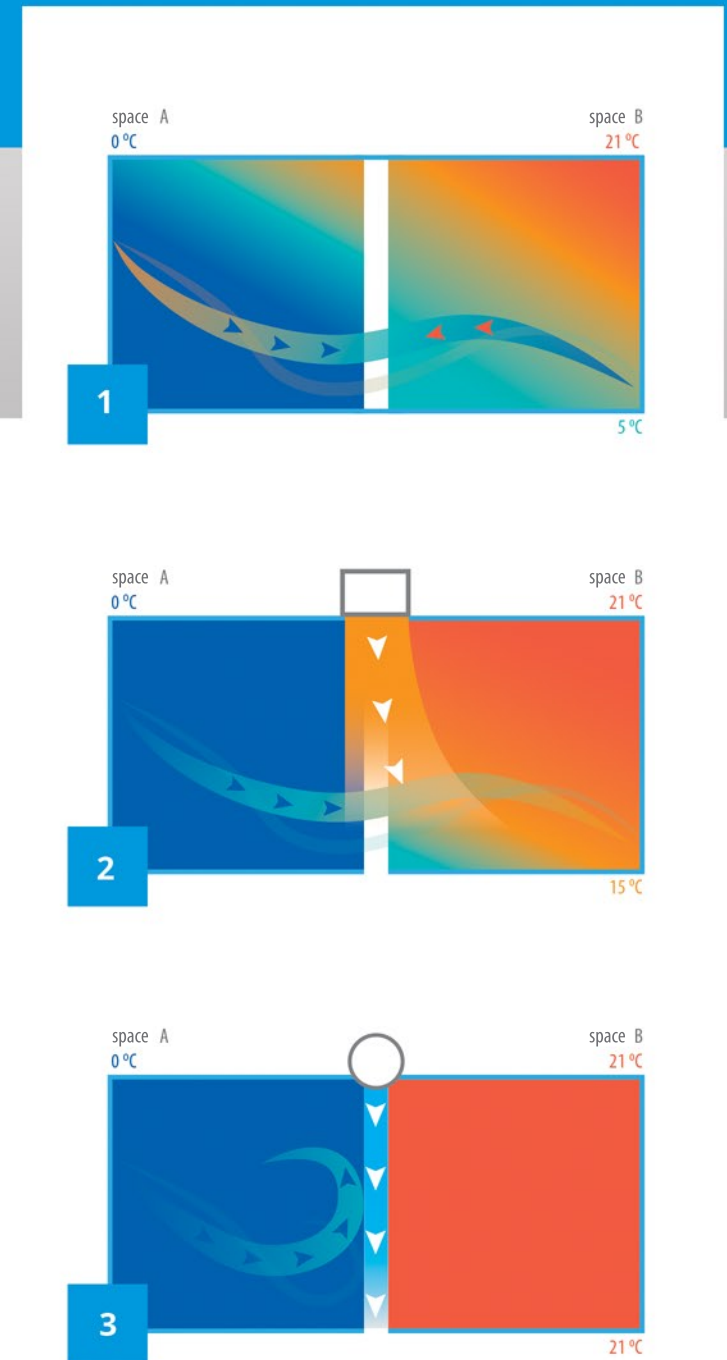
In an open passage to a colder climate, air will exchange. Warm air flows in at the upper side of the passage to the inside, and cold air at the lower side to the outside. This is also known as the natural heat transfer. Draught or low pressure will only strengthen this phenomenon.

2 Situation with a conventional air curtain

A conventional air curtain operates with a large amount of air at low pressure. This creates only a limited shielding and many losses occur in industrial passageways. Often these losses are compensated through additional heating.

3 Situation with AFIM® Air Door

The AFIM® Air Door uses a small amount of air under high pressure. As a result, the effective separation between the two temperature zones is clearly noticeable. The result is an optimum separation down to floor level, no unnecessary loss of energy occurs and there's always a free passage for transport. AFIM® Air Doors can be seamlessly deployed in large industrial passageways.



Benefits of AFIM® Air Doors

Leave the door open!

Logistical obstacles arise because doors must be closed in order to reduce unnecessary energy loss. AFIM® Air Doors create a separated climate, with all the advantages of an open passageway for transportation.

The benefits of AFIM® Air Doors are unprecedented. Preserving temperatures, faster and safer logistics, no risk of damage, and virtually used anywhere.

AFIM® Air Doors can be used in new constructions, existing constructions, and renovation projects. Since every situation is different, the AFIM® Air Doors are custom designed and manufactured for each opening, taking into consideration the specific conditions and application.

The AFIM® Air Door is a unique product that is delivered, installed, and activated with great care.

Suitable for use among others in

- Cold stores
- Freezers
- Freezer rooms
- Warehouses
- Production areas
- Produce departments
- Entrances

Benefits

- Saving energy
- Hygienic solution
- No more logistic or time loss
- No more obstruction of vision
- No maintenance costs
- Temperatures remain stable in each room
- No more flying insects
- No risk of damage
- Suitable for freezer rooms
- Grows with the company



Practical benefits

STRIP CURTAIN

AFIM® AIR DOORS

HIGH SPEED DOOR



Hygienic solution



No logistic or time loss



No obstacles in the passageway



No maintenance costs



Temperatures remain stable in each room



No more flying insects



No risk of damage



Easy application in a passageway to a freezer room without ice forming



Grows with the company
(if activities increase, the solution remains functional and effective)



Models AFIM® Air Doors

								
Application		AFIM® Compact	AFIM® Compact Power	AFIM® Basic	AFIM IGLO® Basic	AFIM IGLO® Compact	AFIM IGLO®-1	AFIM IGLO®-2
	Temperature retention	5 ★★★★★	5 ★★★★★	5 ★★★★★	5 ★★★★★	5 ★★★★★	5 ★★★★★	5 ★★★★★
	Focused on climates <0 ° C to -40 ° C (freezer area)	3 ★★★	3 ★★★	3 ★★★	4 ★★★★	4 ★★★★	5 ★★★★★	5 ★★★★★
	Including dehumidifying	-	-	-	Up to 2 passages combined	From 2 and more passages with one dehumidifier	Maximum of 1 passage combined with one dehumidifier	Maximum of 1 passage combined with one dehumidifier
	No logistics (speed) loss	5 ★★★★★	5 ★★★★★	5 ★★★★★	5 ★★★★★	5 ★★★★★	5 ★★★★★	5 ★★★★★
	Dimension of the passage (WxH)	Up to approximately 3.5 x 3.5 meters	Up to approximately 5.0 x 6.0 meters	Up to approximately 7.0 x 7.0 meters	Up to approximately 3.5 x 5.5 meters	Up to approximately 3.5 x 6.0 meters	Up to approximately 3.5 x 6.0 meters	Up to approximately 3.5 x 6.0 meters
	Investment	€	€	€€	€€€	€€€	€€€€	€€€€

Not suitable ★
 Less suitable ★★
 Suitable ★★★
 More suitable ★★★★
 Eminently suitable ★★★★★

■ AFIM® Compact

The AFIM® Compact is specifically designed for the food industry and is made of stainless steel. The AFIM® Compact is the universal solution for virtually every industry and suitable for both interior and exterior doors.

■ AFIM® Compact Power

The AFIM® Compact Power is the enlarged version of the AFIM® Compact. This was developed by and for the food industry and is made of stainless steel. The AFIM® Compact Power is the universal solution for virtually every industry and suitable for both interior and exterior doors with dimensions greater than 3.5 metres

■ AFIM® Basic

The AFIM® Basic is the powerhouse among the Air Doors. The AFIM® Basic is focused on large industrial passages, both interior and exterior doors and applicable where real power is required.

■ AFIM IGLO® Basic

The AFIM IGLO® Basic is the solution for small passageways to freezer rooms, where the emphasis is put on a freezer room clear of ice and snow.

■ AFIM IGLO® Compact

The AFIM IGLO® Compact is the universal and versatile solution for freezer rooms, suitable for almost all conditions. The AFIM IGLO® Compact is made of stainless steel.

■ AFIM IGLO®-1

The AFIM IGLO®-1 combines a physical lock with an open passage for transport. The effective buffer ensures that no drop of moisture enters the freezer. The AFIM IGLO®-1 is ideal for passages to freezer rooms with high transport intensity.

■ AFIM IGLO®-2

The AFIM IGLO®-2 is the ultimate solution for stores where the door should remain open for a long time for transportation. Due to the combination of several powerful air jets the AFIM IGLO®-2 is an impermeable barrier to heat and moisture, with all the advantages of a passageway without ice and snow.

Compact & effective

The AFIM® Compact has been specifically developed for the food industry and is made by default in stainless steel.

- Advantages:**
- ✓ Efficient climate separation
 - ✓ Economical to purchase
 - ✓ Easy to implement in the food industry

Operation

The AFIM® Compact forms a barrier between the various climate zones by means of a single powerful air jet.

Application

The AFIM® Compact is suitable for the separation of temperature, moisture, odour, dust, and insects. The compact design makes the AFIM® Compact universally suitable within the food industry.

The AFIM® Compact is the universal solution for virtually every industry and suitable for both interior and exterior doors.



Solution for heavy duty

The AFIM® Compact Power is the enlarged version of the AFIM® Compact and designed for and by the food industry. The AFIM Compact Power is the universal solution for both interior and exterior doors with dimensions greater than 3.5 metres.

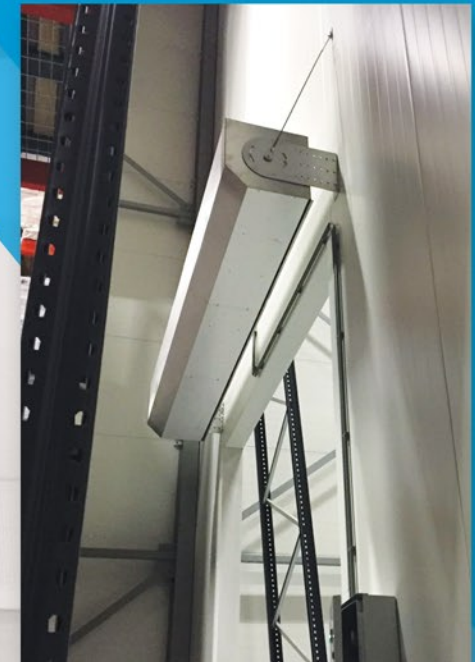
- Advantages:**
- ✓ Efficient climate separation
 - ✓ Easily applied in large industrial doorways
 - ✓ Easily applied in the food industry

Operation

The AFIM® Compact Power forms a barrier between the various climate zones by means of a single powerful air jet. The operation is guaranteed, even in highly polluted environments, using the full stainless steel version.

Application

The AFIM® Compact Power is suitable for the separation of temperatures, moisture, odour, dust, and insects. The compact design makes AFIM® Compact Power the universal solution for large passageways within the food industry. The AFIM® Compact Power is the universal solution for virtually every industry and suitable for both interior and exterior doors.



The powerhouse

The AFIM® Basic is the powerhouse among the Air Doors. The AFIM® Basic is focused on large industrial passages for both interior and exterior doors.

Benefits:

- ✓ Efficient climate separation in large passages
- ✓ Flexibly built in, due to the separate air module and high pressure fan
- ✓ To adapt to every conceivable situation

Operation

The AFIM® Basic achieves an effective climate separation by a single powerful air jet.

Application

The AFIM® Basic is suitable for the separation of temperature, moisture, odour, dust, and insects in large passageways. The air that is blown out under pressure makes AFIM® Basic useful for almost every imaginable situation within the industry. The AFIM® Basic: when real power is required.



Don't give moisture a chance

The AFIM IGLO® Basic is the solution for small passageways to stores in which the emphasis is put on a freezer room without snow and ice.

- Benefits:**
- ✓ A passageway without snow, fog and ice
 - ✓ Faster and safer logistics
 - ✓ No structural changes needed in the workplace

Operation

The AFIM IGLO® Basic forms a barrier between the front space and the cold storage section by means of a single powerful air jet.

Application

The AFIM IGLO® Basic is often used for small passages as well as automatic pallet passages to a cold storage area, where moisture in particular can pose a problem.



Robust, powerful and universal

The AFIM IGLO[®] Compact is a universal and versatile solution for stores and has been developed for almost all circumstances. The AFIM IGLO[®] Compact fits seamlessly into any existing door to the freezer room.

- Benefits:**
- ✓ A passageway without snow, fog and ice
 - ✓ Faster and safer logistics
 - ✓ No structural changes needed in the workplace

Operation

The AFIM IGLO[®] Compact forms a barrier between the front space and the cold storage section by means of a single vertical air jet.

Application

Universally suitable for almost all existing entrances to a freezer room. The AFIM IGLO[®] Compact is made in stainless steel and is ideal for use on production sites.



If it needs to stay really cold

The AFIM IGLO®-1 combines a physical block with the free passage of transport. The effective buffer ensures that no drop of moisture enters the freezer.

Benefits:

- ✓ A passageway without snow, fog and ice
- ✓ Faster and safer logistics
- ✓ Dry buffer for maximum efficiency without damaging the freezer door

Operation

The AFIM IGLO®-1 forms a dry buffer between the front space and the cold storage by means of a variety of powerful jets of air. Warm moist air is effectively blocked because of this.

Application

The AFIM IGLO®-1 is ideal for freezer passages with heavy traffic, where a physical airlock is present or architecturally possible.



The ultimate solution

The AFIM IGLO[®]-2 is the ultimate solution for doorways that are required to be open for long periods of time.

Benefits:

- ✓ A passageway without snow, fog and ice
- ✓ Faster and safer logistics
- ✓ No risk of damage to the freezer door because of it staying open

Operation

The combination of several powerful jets of air makes the AFIM IGLO[®]-2 an impermeable barrier to heat and moisture, with all the advantages of a passageway without ice and snow.

Application

The AFIM IGLO[®]-2 is ideal for freezer passages with heavy traffic.





Procedure

A good and professional air technology solution can only be created with the right knowledge. Therefore, a solution with an AFIM® Air Door is provided and installed exclusively through qualified suppliers.

Realising the solution with an AFIM® Air Door is as follows:

- Problem analysis
- Presentation of the best solution
- Measuring
- Installation
- Adjustment
- Service & Maintenance

Saving

Before you purchase an AFIM® Air Door we'll provide you with an insightful savings calculation. Along with the savings calculation we'll give you detailed advice for each specific situation.

Are you interested in a tailored solution?
Please contact one of our qualified sales points.

5-year all-inclusive warranty

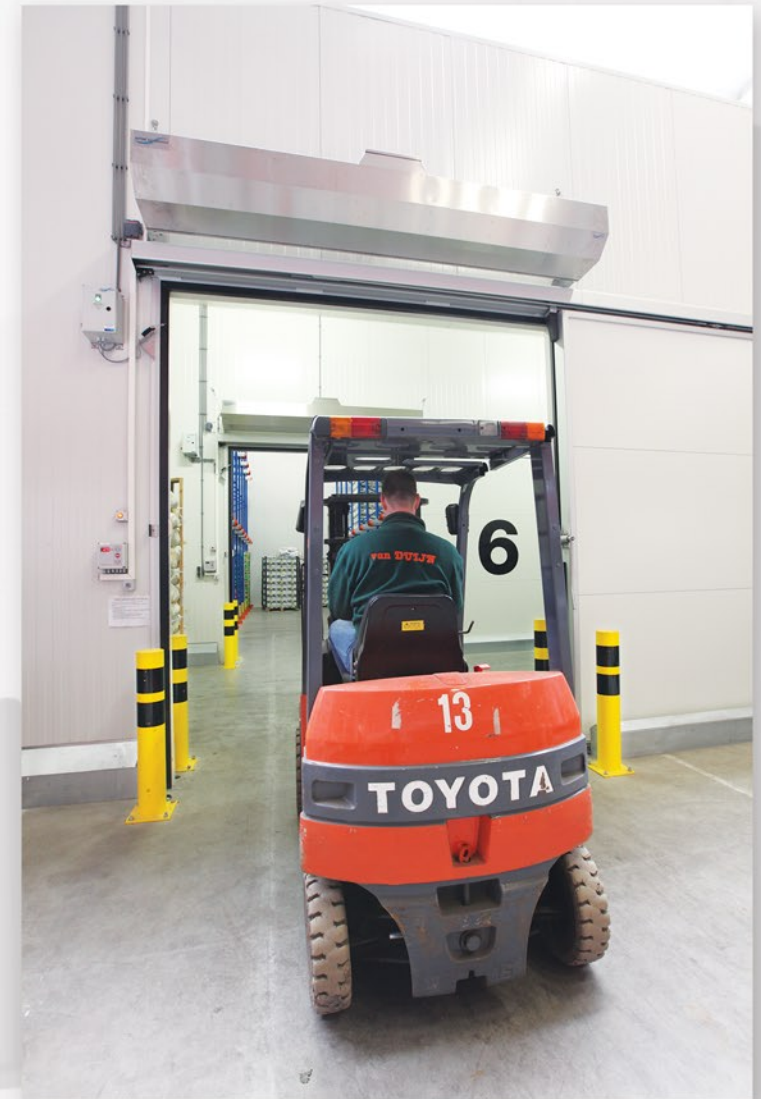
AFIM® Air Doors fall within the category of industrial quality products.

Almost all models will have a standard 5-year all-inclusive warranty.

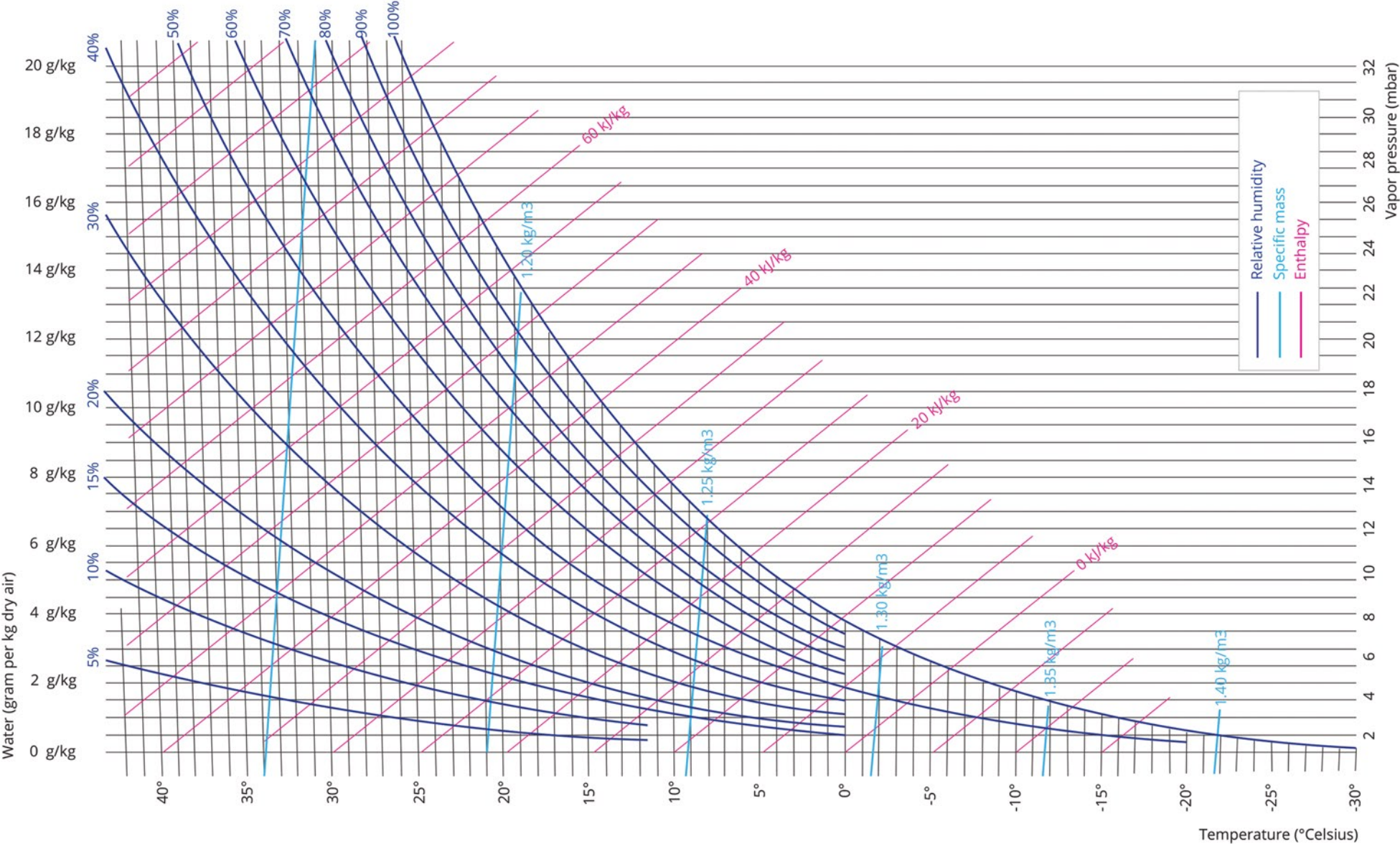
The all-in guarantee ensures that the solution continues to function smoothly during the first 5 years after purchase.

In certain cases, it is necessary to frequently maintain the AFIM® Air Doors. In this situation the qualified supplier provides a maintenance contract tailored to the specific situation for the 5-year all-inclusive warranty.

A maintenance contract ensures regular and proper care of the AFIM® Air Door installation



Mollier Diagram





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