

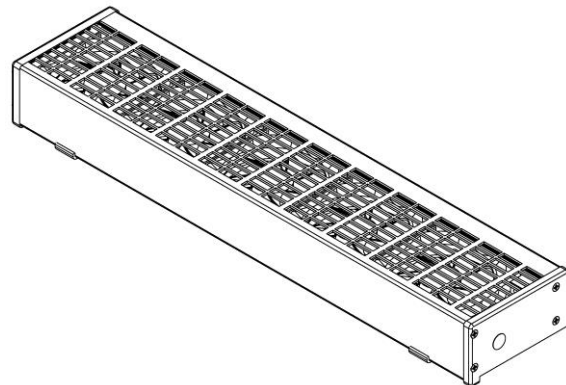
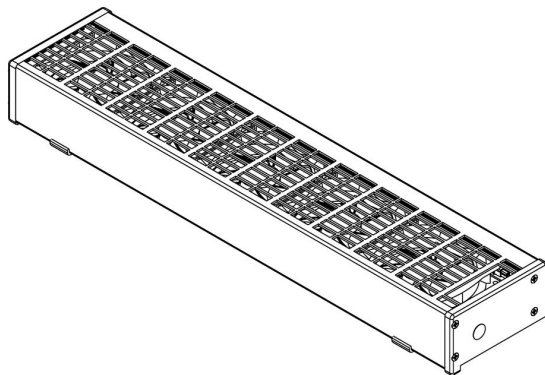
# ClimateBooster

## Convactor Pro – Canal

## Convactor Pro - Wall

For floor-, wall mounted and standing convectors

### Technical Data



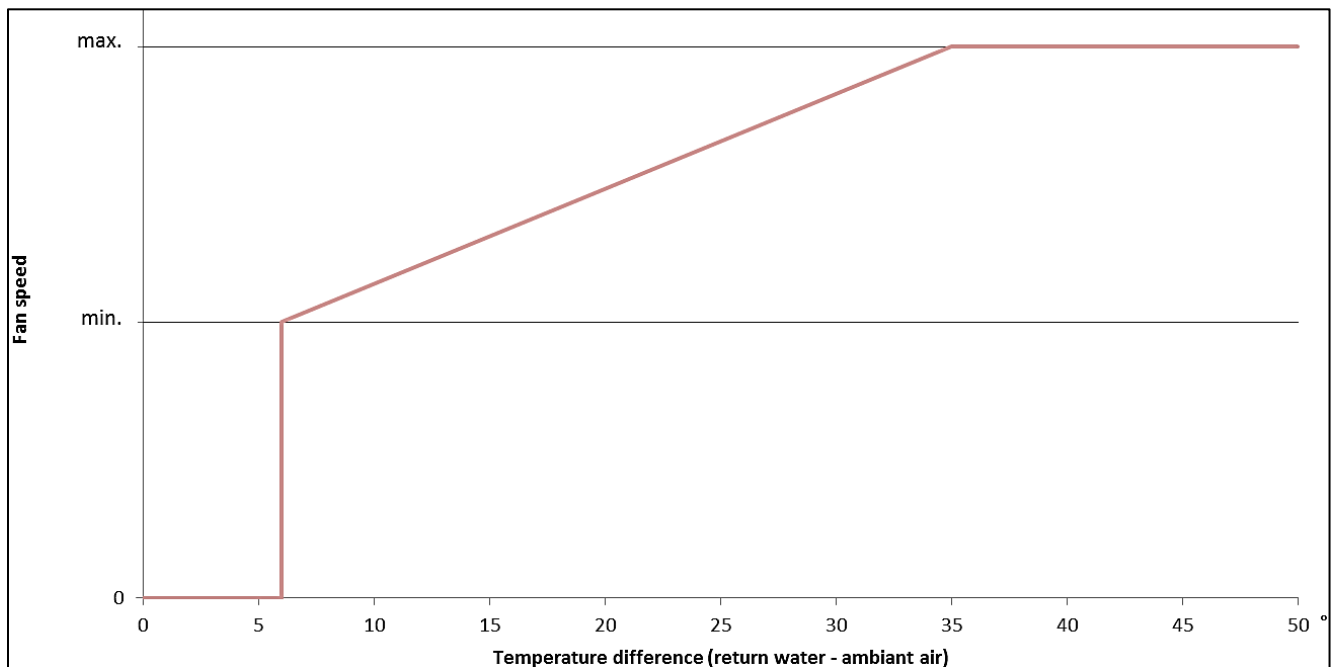
## Basic functions ClimateBooster Convector Pro

The ClimateBooster Convector Pro contains multiple active controlled fans which are activated when the convector is in heating or in cooling mode (only in combination with wall mounted or standing convectors). The fans increase the airflow through the convector whereby 50% till 80% more heat is extracted from the convector. This benefits the distribution of heat inside the room and makes it possible to lower the overall heating temperature of the heating system, for example when heat pumps are installed.

A ClimateBooster Convector Pro can be simply placed on top of the convector unit. The product contains an integrated control print which modulates the fan speed. The Convector Pro contains at least one Base station which contains the control print and electronics, and multiple extension units.

The required fan speed (revolutions per minute) is determined based on two temperature sensors. The first sensor measures the incoming ambient air whereby the second sensor measures the water temperature of the convector. The temperature difference between those sensors determines the rotational speed of the fans. The ClimateBooster Convector Pro temperature profile is optimized in a way that it is suitable for a wide range of convector configurations. Convector cooling is only activated for the Convector Pro – Wall products.

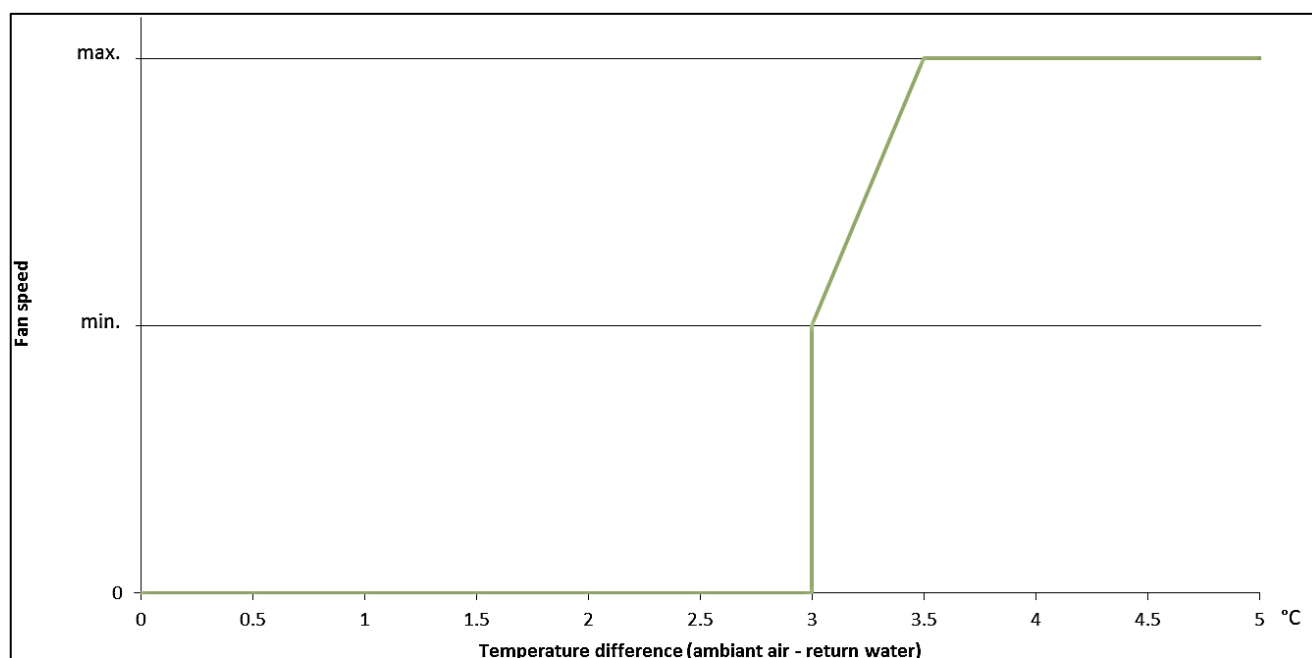
The Convector Pro will be activated when the temperature difference between the ambient air and convector temperature is above 6°C. Below 6°C the Convector Pro will be hold in stand-by mode. The speed fan is linearly controlled by the control print according to the temperature profile as can be seen in the figure. Maximum fan speed is reached at 35°C of temperature difference.



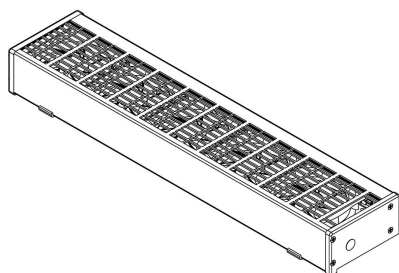
## ClimateBooster Convector Pro – Wall Cooling

Most hybrid heat pumps, water-to-water heat pump and air-to-water heat pump are able to supply cooling. The option for cooling is automatically programmed on the control print of a Convector Pro- Wall. The cooling is active when the temperature difference between ambient air and water temperature is above 2,5°C. Below 2,5°C the ClimateBooster will be hold in stand-by mode. The speed fan is linearly controlled by the control print according to the temperature profile as can be seen in the figure. Maximum fan speed is reached at 3°C of temperature difference.

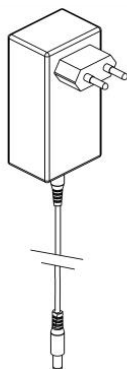
**Please note:** ClimateBooster products are not equipped with dew point protection software or equipment. Make sure that the cold water temperature is always above the dew point of the air in order to prevent undesired water condensation on the outside of the convector.



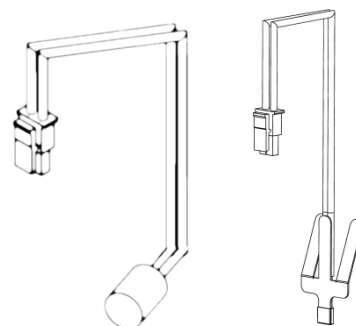
## General data:



**ClimateBooster - convector**



**AC/DC power supply**



**Temperature sensors**

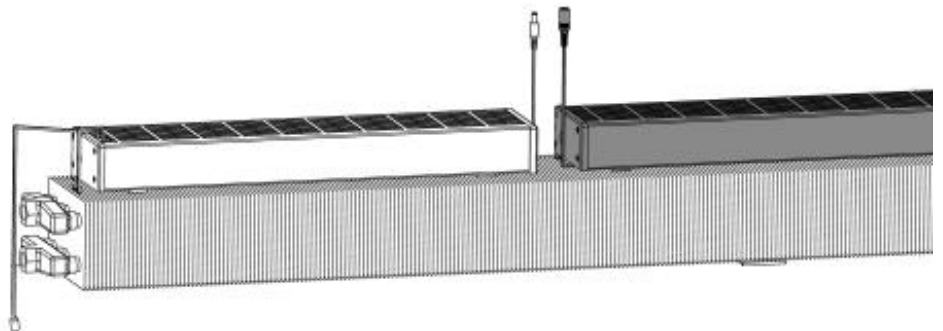
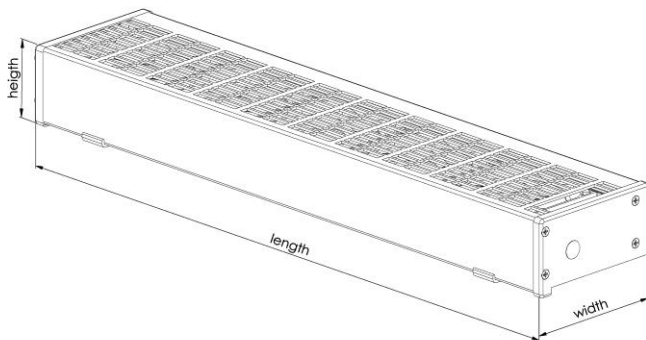
Stand-by power consumption	:	$\leq 0,3 \text{ W}$
Operating Temperature	:	ambient 0 to +40 °C / contact to radiator 0 to 90°C
Relative humidity	:	10 – 90 % RH (non-condensing)
Storage temperature	:	0 to 60°C (with package)
IP rating	:	IP20 (when correctly installed on top of the convector)
Indoor/outdoor use	:	indoor use only
Noise level	:	$\leq 25\text{dB}$ . <i>Depending on system state and length</i>
Temperature accuracy heating mode	:	+/- 1,5 °C
Temperature accuracy cooling mode	:	+/- 1,5 °C
DC voltage range	:	5-12V DC (7,5V DC normal value)
DC load ClimateBooster	:	Max. 3A
Stand-by power ClimateBooster	:	$\leq 0,3\text{W}$
Fan rotation range (PWM controlled)	:	0 to 100% of specification fan

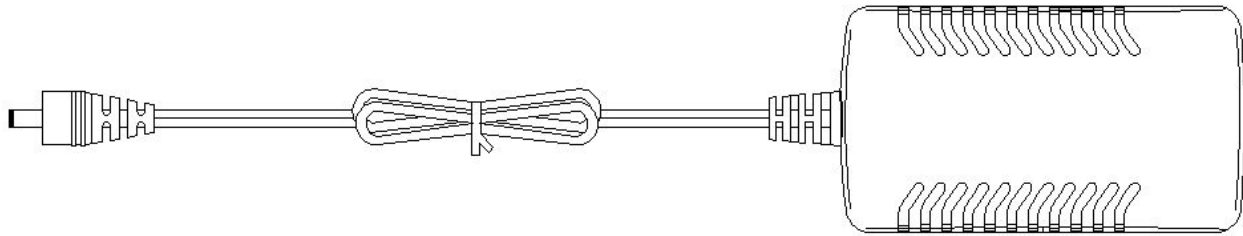
## Convector Pro - Wall

Product set	EAN	Width	Height	AC Operating power at 7,5VDC:	Product weight
Set 1	7436956626620	10cm	6cm	≤ 1.60 to 5.00 watts	1,5 kg
Set 2	7436956626644			≤ 2.20 to 7.00 watts	2,8 kg
Set 3	7436956626668			≤ 2.95 to 9.00 watts	4,1 kg
Set 4	7436956626682			≤ 3.70 to 10.60 watts	5,4 kg
Set 5	7436956627603			≤ 4.45 to 12.60 watts	6,7 kg
Set 6	7436956627627			≤ 5.20 to 14.60 watts	8 kg

## Convector Pro - Canal

Product set	EAN	Width	Height	AC Operating power at 7,5VDC:	Product weight
Set 1	7432228396321	10cm	6cm	≤ 1.60 to 5.00 watts	1,5 kg
Set 2	7432228396338			≤ 2.20 to 7.00 watts	2,8 kg
Set 3	7432228396345			≤ 2.95 to 9.00 watts	4,1 kg
Set 4	7432228396352			≤ 3.70 to 10.60 watts	5,4 kg
Set 5	7432228396369			≤ 4.45 to 12.60 watts	6,7 kg
Set 6	7432228396376			≤ 5.20 to 14.60 watts	8 kg




**AC/DC Power supply:**

Part number	:	702
Model	:	SJ-0730-E
Efficiency level	:	Ⓥ
Efficiency	:	more than 81,7% full load.
Stand-by power consumption	:	≤ 0,3 W
IP rating	:	IP20
Indoor/outdoor use	:	indoor use only

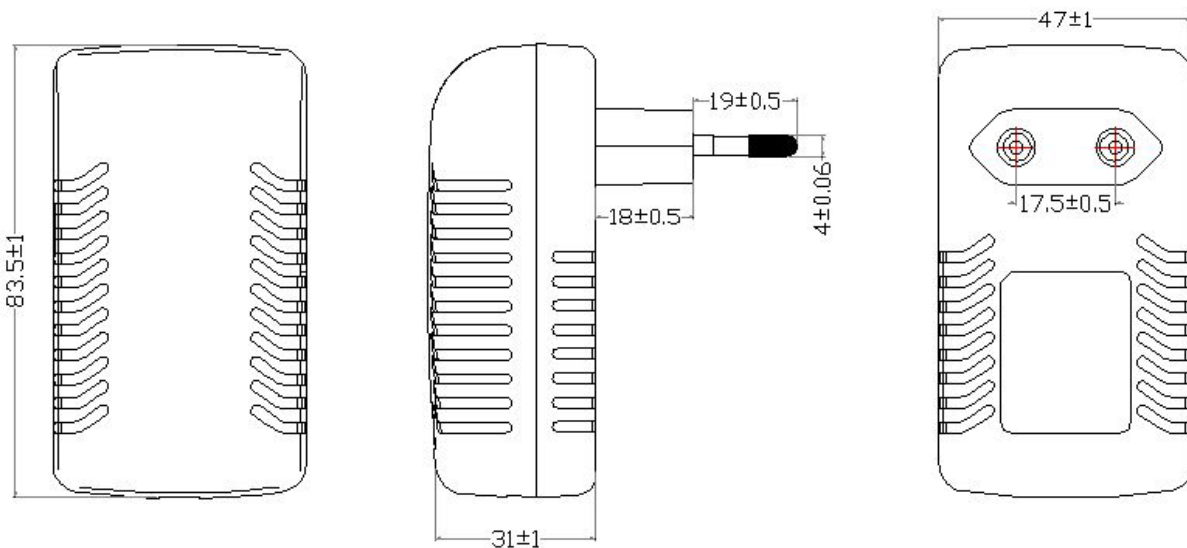
**AC input:**

AC voltage:	:	100-240V AC
Frequency	:	50-60 Hz.
Max. AC load	:	0.8 A
Input connector	:	2 Pin EU / two input plug of EU.

**DC output :**

DC voltage	:	7.5V DC
Max. DC load	:	3 A
Max. DC power	:	22.8 W
Output connector	:	DC jack 5.5*2.1*11mm ⊖ ⊕ ⊕

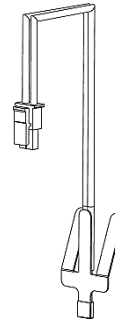
AC/DC power supply Dimensions (L x W x H)	:	L = 83.5 mm W = 47mm H = 31 mm
Weight	:	approx. 165g
Cable length	:	approx.1500mm



## Temperature sensors:

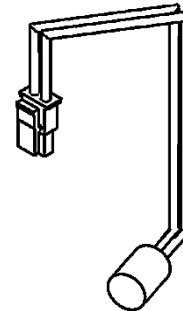
### Convactor temperature


Sensor type:	:	Water sensor Convactor
Part number:	:	504
Cable sensor length	:	approx.500mm
Weight	:	approx. 10g
Temperature accuracy	:	+/- 1,5 °C





### Ambient air temperature


Sensor type:	:	Ambient air sensor Convactor:
Part number	:	505
Cable sensor length	:	approx.1500mm
Weight	:	approx. 30g
Temperature accuracy	:	+/- 1,5 °C




	<b>Danger</b> <b>Swallowing</b>
	<p>Children could swallow small magnets.          If several magnets are swallowed, they could get stuck in the intestine and cause perilous complications.</p> <p>Magnets are not toys! Make sure that children don't play with magnets.</p>

	<b>Warning</b> <b>Pacemaker</b>
	<p>Magnets could affect the functioning of pacemakers and implanted heart defibrillators.</p> <ul style="list-style-type: none"> <li>• A pacemaker could switch into test mode and cause illness.</li> <li>• A heart defibrillator may stop working.</li> </ul> <p>• If you wear these devices keep sufficient distance to magnets: <a href="http://www.supermagnete.nl/eng/faq/distance">www.supermagnete.nl/eng/faq/distance</a></p> <ul style="list-style-type: none"> <li>• Warn others who wear these devices from getting too close to magnets.</li> </ul>

	<b>Caution</b> <b>Magnetic field</b>
	<p>Magnets produce a far-reaching, strong magnetic field. They could damage TVs and laptops, computer hard drives, credit and ATM cards, data storage media, mechanical watches, hearing aids and speakers.</p> <ul style="list-style-type: none"> <li>• Keep magnets away from devices and objects that could be damaged by strong magnetic fields.</li> <li>• Please refer to our table of recommended distances: <a href="http://www.supermagnete.nl/eng/faq/distance">www.supermagnete.nl/eng/faq/distance</a></li> </ul>


<b>Caution</b>	<b>Nickel allergy</b>
	<p>Many of our magnets contain nickel, also those without nickel coating.</p> <ul style="list-style-type: none"> <li>• Some people have an allergic reaction when they come into contact with nickel.</li> <li>• Nickel allergies could develop from perpetual contact with nickel-plated objects.</li> </ul>
	<ul style="list-style-type: none"> <li>• Avoid perpetual skin contact with magnets.</li> <li>• Avoid contact with magnets if you already have a nickel allergy.</li> </ul>

<b>Caution</b>	<b>Airfreight</b>
	<p>Magnetic fields of improperly packaged magnets could influence airplane navigation devices. In the worst case it could lead to an accident.</p>
	<ul style="list-style-type: none"> <li>• Airfreight magnets only in packaging with sufficient magnetic shielding.</li> <li>• Please refer to the respective regulations: <a href="http://www.supermagnete.nl/eng/faq/airfreight">www.supermagnete.nl/eng/faq/airfreight</a></li> </ul>

## Additional ClimateBooster products


### Extension Cable 1.5m:



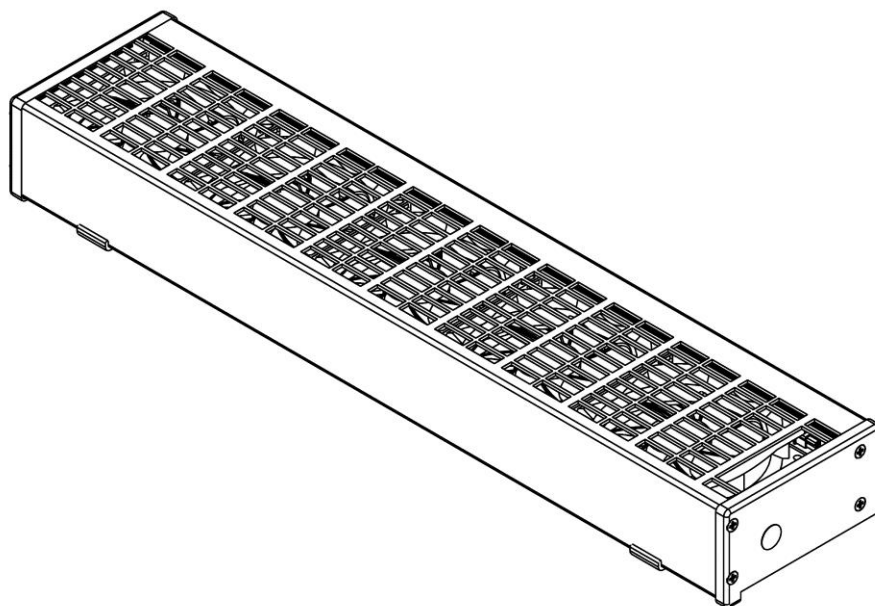
Part number	:	1107
model	:	1.5M 5.5x2.1x11S jack to plug
IP rating	:	IP20
Indoor/outdoor use	:	indoor use only
DC voltage range	:	5 to 12V DC
Max. DC load	:	5 A
Output connector	:	DC jack 5.5*2.1*11mm 
Weight	:	approx. 50g
Cable length	:	approx. 1500mm

### Extension Cable 4.0m:



Part number	:	1108
model	:	4.0M 5.5x2.1x11S jack to plug
IP rating	:	IP20
Indoor/outdoor use	:	indoor use only
DC voltage range	:	5 to 12V DC
Max. DC load	:	5 A
Output connector	:	DC jack 5.5*2.1*11mm 
Weight	:	approx. 110g
Cable length	:	approx. 4000mm





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