

IT'S TIME FOR A REVOLUTION



REVOMAX II

THE FIRST ALL-IN-ONE STEADY STATE TEMPERATURE AND
HUMIDITY LOGIC AIRCONDITIONER IN THE WORLD

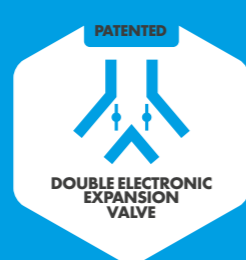
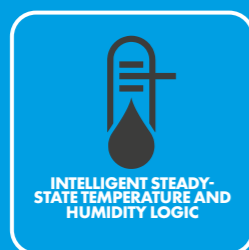


THE FUTURE OF COOLING
JUST GOT COOLER.

STEADY STATE SIMULTANEOUSLY COOL OR HEAT, DEHUMIDIFY, FILTER AND CIRCULATE AIR. THAT'S COOL!



The Revomax is a climate control system with our new **Infinity DC inverter technology** which has the broadest capacity range from all existing air conditioning units, **we can get as low as 20-30% from the cooling capacity** where other products cannot go lower as 60%, this results in super stable climate no matter if the customer installed less fixtures as optimum like with the PRO3 or PRO4.



REVOMAX II BY OPTICLIMATE

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REVOMAX COOLING LOAD

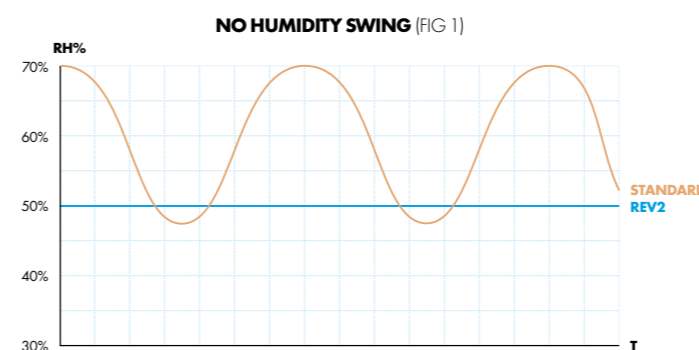


STANDARD AIRCO COOLING LOAD



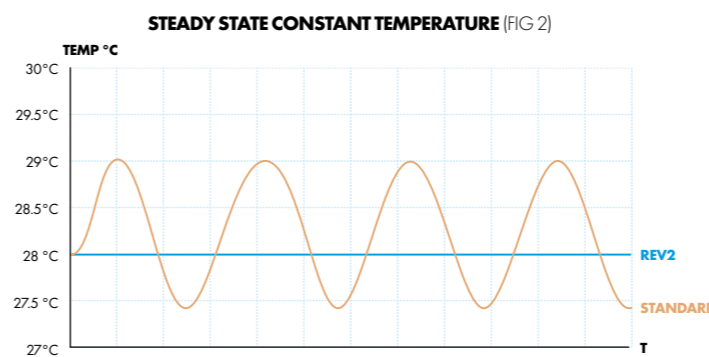
LINEAR DEHUMIDIFICATION TECHNOLOGY

With a normal air conditioner the humidity cannot be controlled, with the PRO4 the humidity swing will be 20% and with the REV2 only 4%RH. Constant humidity means no humidity swings. (fig 1)



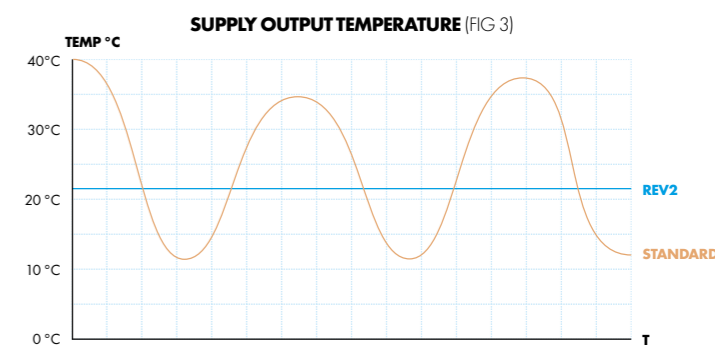
INTELLIGENT STEADY-STATE TEMPERATURE AND HUMIDITY LOGIC

Constant temperature, no temperature fluctuations so the temperature will be $\pm 0,2^{\circ}\text{C}$ from the setpoint (Fig 2).



Stable output (supply) temperature, during dehumidification at night or day with the PRO4 the output temperature can go up as high as 40°C and as low as 10°C depending on the indoor temperature during dehumidification.

With the REV2 the output temperature will be $\pm 0,2^{\circ}\text{C}$ within the temperature setpoint. For many applications and plant species this is very important, for example green vegetables like lettuce and herbs high output temperature fluctuation result in stressed plants. The more stable the output temperature (fig 3) the lesser the stress for the plants. Because of this new feature the unit can now be used for a much larger variety of applications and plants.



The above new features are made possible because of our **patented double EEV technology**, we are the only supplier with this technology. This will bring the Revomax to a new level of controllability and flexibility.

The REV2 units will also be optimised for growing with LED. When growing with LED the room temperature rises slowly when the LEDs are turned on and because of this optimum photosynthesis is slowed down. With the Revomax the room will be heated up with the DC compressor in heating mode without using external electrical heaters. Like this the optimum temperature will be reached in the fastest possible way and optimum photosynthesis will be reached as fast as well. During heating the dehumidification process keeps being active to assure the humidity stays in control.

Besides this the revomax units will be outfitted with a 7" smart remote controller which can be connected by WIFI and or LAN. With this you can control the Revomax remotely and also get alarms and alerts by email.



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PREVENT HARMFUL SUBSTANCES AND UNPLEASANT ODOURS

built-in lightweight dust and carbon filter keeps the interior components dust-free and so-called volatile organic substances (VOSs)



1 UNIT 2 COOLING OPTIONS

The REVOMAXII is the only true solution for controlling your indoor climate and has the unique property of being able to simultaneously cool or heat, dehumidify, filter and circulate air. Each Revomax is available as a Water-cooled, and Air-cooled airconditioning.

REVOMAX II

BY OPTICLIMATE

The OptiClimate is a climate control system developed entirely on the company's own premises. This resulted in a completely optimised and efficient product which enables the climate to be adjusted to perfection while consuming as little energy as possible.

The OptiClimate is the only real all in solution for managing your interior climate and has the unique property of being able to cool or heat, dehumidify, filter and circulate air at the same time. You are no longer dependent on the outside temperature and can experience the perfect climate, all year round. You can even achieve the ideal temperature during a heat wave. The OptiClimate creates an optimal distribution of air in the room creating an even temperature. The temperatures can be exactly adjusted to your wishes and will be continuously maintained.

IMPROVE AIR QUALITY

Humidity is everywhere in the air and can have a negative effect on your way of life and productivity. Humidity can be very damaging and can cause mould, rot, rust and a musty odour. Too much humidity can lead to dust mites and allergies. It is therefore essential for an optimal indoor climate to manage humidity. The OptiClimate helps you to create the ideal humidity under the most extreme circumstances.

The dehumidification functions of all other (water-cooled) air conditioning systems on the market work based on cooling. During cooling, the air is dehumidified, which is a natural phenomenon. If there is little warmth in the air, the required temperature is quickly reached and the air conditioning discontinues cooling and dehumidifying. This keeps atmospheric humidity high. Compared to its competitors, the OptiClimate has the unique property of being able to dehumidify even after the desired temperature has been reached.

PREVENT HARMFUL SUBSTANCES AND UNPLEASANT ODOURS

The built-in lightweight dust and carbon filter keeps the interior components dust-free and so-called volatile organic substances (VOSs) and disturbing smells such as solvents, softeners, cooking and food odours, smoke and body odours are absorbed. The dehumidification function also deals preventively with musty odours from mould formation due to condensation.

MOST SAFE SYSTEM

The OptiClimate system has all kinds of built-in functions that ensure that the OptiClimate is one of the most secure climate systems on the market.



The built-in temperature protection disconnects heat sources when the set maximum temperature is exceeded. E.g. when the water supply is obstructed. A fire could occur without this device.



If the water sensor comes into contact with the water, the built-in water leak safeguard ensures the water supply is cut off. This may occur, in the event of a burst pipe, broken link or connection, or a blocked sewer.



The OptiClimate is fireproof; all of the electrical components including the heating and connections are contained in the steel housing.



The OptiClimate has an alarm outlet for sending an SMS alarm in the event of an error message (requires a separate SMS module). The REVOMAX has a built in remote control feature made possible by WIFI or LAN.



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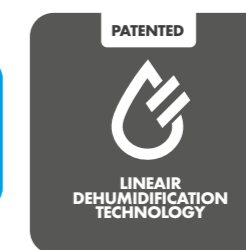
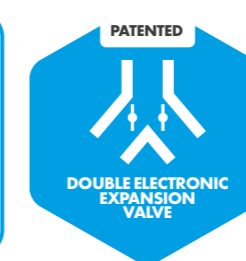
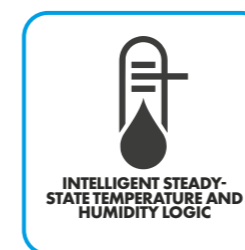
REVOMAX II FREE AIR

BY OPTICLIMATE

Where the REVOMAXII is made to distribute the air through a ducting system or air distribution hoses, the REVOMAXII FREE AIR is made to blow it out freely. The REVOMAXII FREE AIR is designed in such a way that it takes up as little volume as possible and thus takes up as little space as possible and at the same time intercepts as little light as possible.

The special fans have a throw of up to 30m, so the FREE AIR models can be placed on the wall of the greenhouse. In this way the greenhouse can be conditioned without passing air distribution hoses under the crop.

All the features that the REVOMAXII has are also available for the FREE AIR version.



REVOMAX II

BY OPTICLIMATE



WHY CHOOSE REVOMAX BY OPTICLIMATE?

- Digital inverter technology, widest capacity range 30-100%
- Intelligent steady state temperature and humidity logic
- Optimised for LED horticulture growing The perfect climate control all year round
- Cooling, heating, dehumidifying, circulating and filtering in one device
- Photocell; the photocell automatically activates the cooling mode in the morning and the heating/dehumidifying mode at night
- Simply enter the day and night temperature and OptiClimate will do the rest; it doesn't get easier
- The quietest system available
- Relatively low energy consumption
- Dehumidifying possible day and night
- Adjustable cooling input
- Built-in dust and carbon filter
- Ceramic heating + heat pump mode heating
- Built-in temperature and water leakage safety switch optional
- Clear and detailed remote control
- Could be remote controlled by WIFI or LAN
- Fire-safe!
- Pre-heat function
- Slow cool-down function
- Alarm log function
- Invisibly concealed
- Deep cooling possible, temperatures below 10°C

REVOMAX

SPECIFICATIONS

Art.	Type	Voltage	Phase*	Absorbed power	Capacity	Dehumidifying Power L/24h**	Water consumption L/min***	Heating	Dimensions (cm)	Weight
1-7402	6000 REV2	230V - 400V	1 or 3	1450W	6 kW	170	2 - 4	3x1000W	86x48x43	89 kg
1-7403	10000 REV2	230V - 400V	1 or 3	2150W	10 kW	290	3 - 6	3x1300W	96x56x50	99 kg
1-7404	15000S REV2	230V - 400V	1 or 3	3100W	15 kW	441	5 - 9	3x2000W	107x66x51	122 kg
1-7405	15000T REV2	400V	3	3100W	15 kW	441	5 - 9	3x2000W	107x66x51	122 kg
1-7408	21000 REV2	400V	3	4340W	21 kW	610	7 - 13	3x2700W	117x71x56	146 kg
1-7409	30000 REV2	400V	3	6300W	30 kW	880	10 - 20	3x2700W	123x90.5x54.5	200 kg
1-7410	30000 REV2 FREE AIR	400V	3	6200W	30 kW	880	10 - 20	3x3000W	122.5x83x54.5	206 kg
1-7412	45000 REV2 FREE AIR	400V	3	9300W	45 kW	1320	15 - 30	3x3000W	123x90.5x54.5	290 kg

OPTICLIMATE

SPECIFICATIONS

Art.	Type	Voltage	Phase*	Absorbed power	Capacity	Dehumidifying Power L/24h**	Water consumption L/min***	Heating	Dimensions (cm)	Weight
1-1000	2000 PRO3	230V - 400V	1 or 3	500W	2 kW	35	0,6 - 1,2	2x1300W	100x50x42	53 kg
1-1001	3500 PRO3	230V - 400V	1 or 3	740W	3,5 kW	55	1 - 2	2x1500W	100x50x42	57 kg
1-1002	6000 PRO3	230V - 400V	1 or 3	1450W	6 kW	100	2 - 4	3x1500W	115x53x43	80 kg
1-1003	10000 PRO3	230V - 400V	1 or 3	2150W	10 kW	170	3 - 6	3x2000W	115x56x50	120 kg
1-1004	15000 PRO3	400V	3	3100W	15 kW	270	5 - 9	3x2700W	122.5x83x54.5	158.5 kg
1-1006	15000 PRO3 Inverter	400V	3	3100W	15 kW (+8% boost)	270	5 - 10	3x2700W	122.5x83x54.5	158.5 kg
1-4006	15000 PRO4 Inverter	400V	3	3100W	15 kW (+8% boost)	441	5 - 10	3x2000W	123x90.5x54.5	180 kg

Art.	Type ****	Model	Power	Weight	Dimensions(cm)	Noise	Power	#Fans	Water content
1-8011	OC Water Cooler 4,5 kW	1x OC 2000 / 1x OC 3500	4,5 kW	7 kg	650x410x320	28 dB(A)	0,06 kW	1	2 ltr
1-8021	OC Water Cooler 9 kW	1x OC 6000	9 kW	13 kg	1200x410x320	31 dB(A)	0,12 kW	2	4 ltr
1-8041	OC Water Cooler 14 kW	1x OC 10000 / 2x OC 6000	14 kW	19 kg	1750x410x320	33 dB(A)	0,18 kW	3	6 ltr
1-8061	OC Water Cooler 18 kW	1x OC 15000	18 kW	26 kg	1200x810x320	34 dB(A)	0,24 kW	4	8 ltr
1-8073	OC Water Cooler 32 kW	2x OC 15000	32 kW	52 kg	1750x810x320	36 dB(A)	0,36 kW	6	21 ltr

Art.	Type ****	Model	Power	Weight	Dimensions(cm)	Noise	Power	#Fans	Water content
1-8031	OC Water Cooler 12 kW	1x OC 10000 / 2x OC 6000	12 kW	63 kg	1025x933x600	32 dB(A)	0,27 kW	1	6 ltr
1-8051	OC Water Cooler 17 kW	1x OC 15000	17 kW	76 kg	1025x933x600	32 dB(A)	0,27 kW	1	11 ltr
1-8075	OC Water Cooler 32 kW	vertical 2x OC 15000	32 kW	125 kg	1600x983x600	40 dB(A)	0,60 kW	1	21 ltr
1-8074	OC Water Cooler 32 kW	horizontal 2x OC 15000	32 kW	125 kg	1600x1050x943	40 dB(A)	0,60 kW	1	21 ltr

REVOMAX by OptiClimate

Water-cooled OptiClimate

Water cooler Compact Ultra-Light V

Water cooler Industrial Grade V



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