

DANTHERM GROUP



BCM 191-311-511

Evaporative coolers

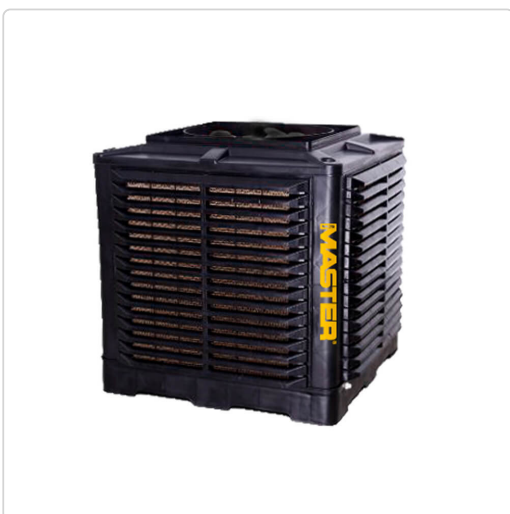
High efficiency cooling solutions for large industrial facilities. Master air coolers stand out for their low consumption and great efficiency, allowing air cooling of large spaces with a minimum operating cost.



Master BCM



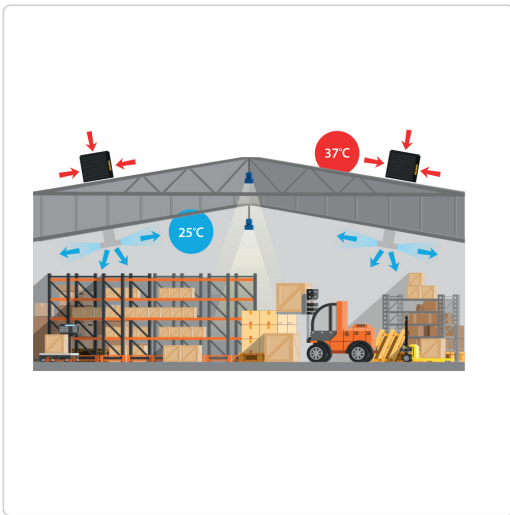
Master industrial coolers



Master BCM top exit



Master BCM side exit



Master BCM installation example



Master BCM air flow

Key features

- ✓ Powerful cooling method available in 19,000m³/h, 31,000m³/h, 50,000m³/h
- ✓ Control temperature and humidity
- ✓ Low running costs
- ✓ Easy to maintain
- ✓ Evaporative filter pads, blocking dirt
- ✓ Dust filter, blocking dust
- ✓ UV lamp, disinfecting the water
- ✓ Low energy consumption, 10% compared to traditional AC
- ✓ Fresh, cool and healthy air to guarantee cool and clean environment
- ✓ Full technical and commercial support available for dimensioning and project support

Benefits of evaporative cooling

- ✓ Clean air that reduces the risk of bacteria and virus
- ✓ No chemicals or refrigerants
- ✓ Low energy consumption
- ✓ Virtually maintenance-free equipment

How does it work

The outdoor hot air is moistened and cooled as it passes through water-soaked filters, then driven indoors at up to 12°C lower temperature. Thus, a constant flow of fresh and natural air is projected, which is introduced clean into the room, eliminating at the same time bad odours, germs and dust. This promotes the constant renewal of air that doesn't recirculate, generating a healthy environment.

Installation example



Why Master?

Master evaporative systems adapt to our climate and are an excellent alternative to condition large spaces with low energy costs.

The installation is simple, since it's sufficient with the positioning of the evaporative equipment on the roof or facade and connect it to a water supply and single-phase electric current. Thanks to its lightness, it doesn't require cranes or large supporting structures for the installation and commissioning.

Self-management water cleaning system

Thanks to its electronic structure and components (electrovalve, drain valve and level sensors), Master equipment has an automated system for cleaning, emptying and filling water tank.

Pre-cool

The evaporative cooler enters in pre-cooling mode for one minute, just before the engine starts to operate, thus ensuring the cooling from the first moment.

Auto mode

With the previous adjustment of the required values of temperature and humidity, this mode allows to operate the equipment autonomously and efficiently by regulating its air flow rate, as well as water levels according to the values (T° and %RH).

Auto clean

This function allows to set a period of time (hrs.) for the automation of units cleaning. Programmable period of time from 0 to 72hrs. The water drain valve opens allowing its exit and in this way the corresponding cleaning. After one minute the inlet solenoid valve opens, giving rise to a new water inlet in the tank. This self-cleaning mode is adjusted according to the measures and recommendations for prevention and control of Legionellosis.

Product specifications

Specifications	Units	BCM 191
Cooling pad - total surface	dm ³	201
Cooling pad size - 1 pc.	cm	75 x 67 x 10
Air flow	m ³ /h	19,000
Fan type		Axial
Fan speed		12
Power consumption	kW	1.1
Power supply	V/Hz	230/1ph/50
Air exit	mm	Down or top or side

Specifications	Units	BCM 191
Tank capacity	l	30
Water consumption	l/h	20-40
Remote control integration	SM 4.0	Yes
Product size (l x w x h)	mm	1100 x 1100 x 960
Weight	kg	55

Specifications	Units	BCM 311
Cooling pad - total surface	dm ³	306
Cooling pad size - 1 pc.	cm	87 x 88 x 10
Air flow	m ³ /h	31,000
Fan type		Axial
Fan speed		12
Power consumption	kW	3
Power supply	V/Hz	380/3ph/50-60
Air exit	mm	Down or top or side
Tank capacity	l	50
Water consumption	l/h	30-50
Remote control integration	SM 4.0	Yes
Product size (l x w x h)	mm	1280 x 1280 x 1170
Weight	kg	86

Specifications	Units	BCM 511
Cooling pad - total surface	dm ³	420
Cooling pad size - 1 pc.	cm	100 x 105 x 10
Air flow	m ³ /h	50,000

Specifications	Units	BCM 511
Fan type		Axial
Fan speed		12
Power consumption	kW	4
Power supply	V/Hz	380/3ph/50-60
Air exit	mm	Down or top or side
Tank capacity	l	60
Water consumption	l/h	40-70
Remote control integration	SM 4.0	Yes
Product size (l x w x h)	mm	1500 x 1500 x 1450
Weight	kg	112