

# LET IT SNOW

## MC Series: Air Compressors for Snow-Makers

From the foot of the Alps to the ends of the earth, Snow-Makers bank on proven MATTEI MC Series rotary vane air compressors when it is time to make snow. Preferred for use on self-powered snow guns due to their readily adaptable compact size, quiet reliable operation, and durable long-life low maintenance design. It's a fact; Mattei is in a class of its own. Want to protect productivity, increase profitability, and lessen your carbon footprint? Own a Mattei.



## UNCONVENTIONALLY RELIABLE, DURABLE & GREEN

Mattei's advancements in technology and Materials offers snow-makers the best value in premium quality air compressors for use anywhere on the planet. Unconventional "bearingless" Airends last up to 100,000 hours. Incredibly durable Mattei airends last 2-3 times as long as conventional rotaries. Super quiet operation, less lubricant, and energy-sparing designs help keep your operation green.



## 9 REASONS WHY MATTEI IS YOUR BEST CHOICE

Mattei compressors are designed to give constant top performance 24 hours a day, every day of the year. It is not unusual for these compressors to have an operating life of over 100,000 hours. Extremely rugged and reliable, MC Series is perfectly suited to applications for snow-making machines.

Rely on Mattei for:

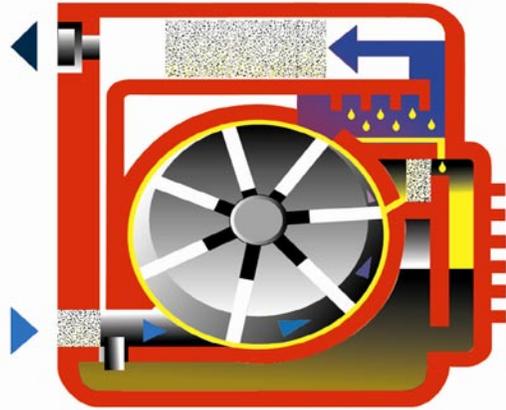
- **Unaltered performance through time**
- **No wear of the compressor's moving mechanical parts**
- **Pulse-free air**
- **Compact design**
- **Low oil volume and consumption**
- **Direct coupled compressor & motor**
- **Slow 1,800 RPM rotational speed**
- **Low maintenance**
- **Quiet operation**



# Function & Performance

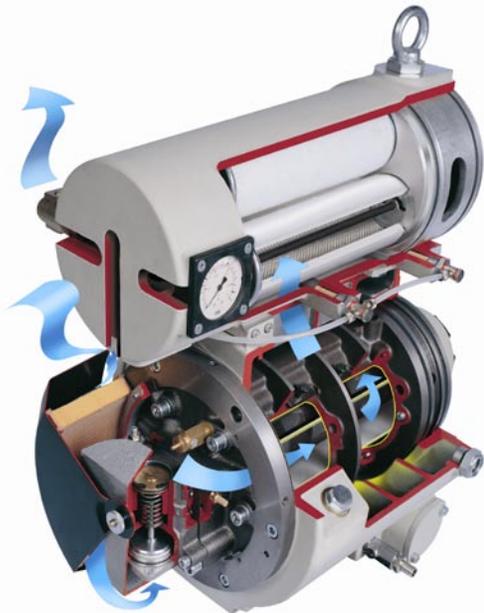
## How it Works

Ambient air is drawn through a filter into the compression chamber consisting of a stator in which an eccentrically arranged rotor revolves at 1,800 rpm. An air intake valve automatically adjusts the incoming air volume to match the compressed air needs of your snow gun at pressure. The rotor has longitudinal slots in which the vanes slide. Zero-wear vanes ride on a thin film of oil and are held against the stator by centrifugal force. The air is compressed through the contraction in volume of each chamber formed by the vanes, the rotor and the stator wall. Sealing, cooling and lubrication are ensured by the oil injected into the chamber.



## High Compressed Air Quality

A snow-making machine must guarantee an environmentally friendly operation. The compressor, which is an integral part of the machine, must thus produce clean air. Mattei compressors have an exclusive and efficient oil separating system which occurs in three stages: in the initial stage most of the oil is separated in a labyrinth in the compression chamber; the flow then enters the separator chamber where a mechanical separation takes place through speed reduction and flow deviation; the last phase occurs through the separator element. Only 0.02% of the initial oil arrives to this final stage; this is the reason for which the average life of Mattei's separator element is 10,000 operating hours. Most importantly, this separating system guarantees a maximum oil residue of 3 ppm in Mattei's compressed air.



## U.S.A.

MATTEI COMPRESSORS Inc  
 9635 Liberty Road, Suite E  
 Randallstown, MD 21133  
 Phone +1 410.521.7020 Fax  
 +1 410.521.7024 e-mail:  
 info@matteicomp.com

TECHNICAL SPECIFICATIONS									
Model	Electric Motor Power		Free Air Delivery(*) SCFM 100 psig	Sound Pressure Level(**) dB(A)	Air Outlet Rp	Dimensions (inch)			Weight lbs
	HP	kW				L	W	H	
MC80B	5	4	21	73	1/2"	33	12	17	176
MC80D	7.5	5.5	29	73	1/2"	33	12	17	176
MC86A	10	7.5	39	77	3/4"	43	15	20	269
MC86E	15	11	60	77	3/4"	43	15	20	287
MC86G	15	11	70	79	3/4"	43	15	20	287

Working Pressure 95 psig for 100 psig unit  
 (\*) F.A.D. in accordance with ISO 1217:1996, annex "C"  
 (\*\*) According to PN8NTC2.3; value measured at 1 m distance ±3  
 Mattei Compressors, Inc. reserves the right to change or replace the data contained in this publication, without notice.

[www.matteicomp.com](http://www.matteicomp.com)



COMPANY  
 WITH QUALITY MANAGEMENT  
 SYSTEM CERTIFIED BY DNV  
 = ISO 9001 : 2001 =