



»»» MSC 30 - 45
MSD 55 - 75
Belt driven

»»» RMC 30 - 45
RMD 55 - 75
RME 75 - 110
Gearbox driven

Oil-injected screw
Compressors
Fixed & Variable speed

Solid, simple, smart.
Advanced reliability in
compressed air.





MSC/MSD • Belt driven RMC/RMD/RME • Gearbox driven

Compressed air drives your company. Consequently, choosing the right compressor is crucial. Going for our MSC/MSD and RMC/RMD/RME ranges of highly adapted oil-injected screw compressors is a choice you will not regret. Bring some fresh air into your company and enjoy the strong performance and high efficiency that come with it.



User benefits

Simple Installation

- Compact and all in one system
- Innovative design
- Easy and full protected transport
- Placement with forklift (2 lifting points) or transpallet (1 lifting point)
- No special foundation needed



Solid Quality

- Outstanding and first-class components
- High quality and long lasting belts
- High reliable belt tensioning system for excellent performance
- Separate oil and air coolers, less thermal shocks and a longer lifetime
- Perfect air filtration and cooling
- Overload protection
- Full automatic control
- High quality and heavy duty motor

Easy Maintenance and Accessibility

- All service components located at the front of the machine for excellent accessibility
- Easy access for service or cleaning
- Easy access of the coolers
- Oil-level eye at the front
- Easy and quick check thanks to service door and controller
- Service and cleaning is a one person job

Saving of Costs

- Less repair costs
- Lower maintenance costs
- Lower energy consumption
- Optimal efficiency, lubrication and cooling
- Improved controllers for a better energy efficiency

Safety

- Emergency stop
- Protection grid
- Separate panel for beltguard
- Closed inverter cubicle

Mark MSC/MSD and RMC/RMD/RME ranges offer a wide choice of compressors from 30 till 110 kW, belt or gearbox driven, with fixed speed (load-unload) control or variable speed (IVR) control. Energy costs and your specific requirements will help you choose the most suitable compressor for your application. Whatever model you choose, high standard components guarantee performance and design synergy ensures the easy operation you are looking for.

Fixed speed control - Load-unload regulation

A load/unload compressor delivers a constant air capacity. The net pressure is controlled by an inlet valve operating the compressor in a load/unload cycle. In case the set pressure is reached, the compressor turns into unload mode (by closing the inlet valve). When the pressure value drops below a specific level, the compressor starts up the same routine.

Variable speed control - Frequency inverter regulation (IVR)

A frequency driven compressor has a working pattern with lower peaks and a smoother air profile. This is achieved by controlling the air delivery and producing only the amount of air required for the customer's application at a specific moment. The net pressure is maintained by use of a frequency inverter. As a result, the compressor consumes only the energy needed which is very cost efficient.

Optional and standard features

OPTION	BELT DRIVEN		GEARBOX DRIVEN	
	Fixed speed	Variable speed	Fixed speed	Variable speed
Water separator	x	x	standard	✓
Automatic drain for water separator *	x	x	✓	✓
Wrong rotation direction protection	standard	standard	✓	✓
High efficiency air intake filtration	x	x	✓	✓
High efficiency pre-filtration panel	x	x	✓	✓
Standard filtration pannel	standard	standard	standard	standard
Noise reduction baffle (super silent)	✓	✓	✓	✓
Oil heater	x	x	✓	✓
Main switch	x	x	✓	✓
8000 hours oil	✓	✓	✓	✓
Foodgrade oil	✓	✓	✓	✓
Integrated energy recovery system	x	x	✓	✓
Woodenbox packaging	✓	✓	✓	✓
Tropical thermostatic valve	✓	✓	✓	✓
Automatic restart after power failure	standard	standard	standard	standard
ES 4000 advanced controller	✓	standard	✓	standard
"Plus" oil & filters**	x	x	✓	x
"Extended" oil & filters***	x	x	✓	x

✓ = available x = not available * For this option, the water separator is needed

Only for RMC 30-45: **4000 hours oil, air & oil filter ***8000 hours oil & oil filter, 4000 hours air filter

SMART TECHNICAL ADVANTAGES



THE TROUBLE -FREE PERFORMANCE YOU ARE LOOKING FOR

- Quality elements for better reliability
- Increased Free Air Delivery (FAD) and lower energy consumption
- Standard filtration panel extending service intervals

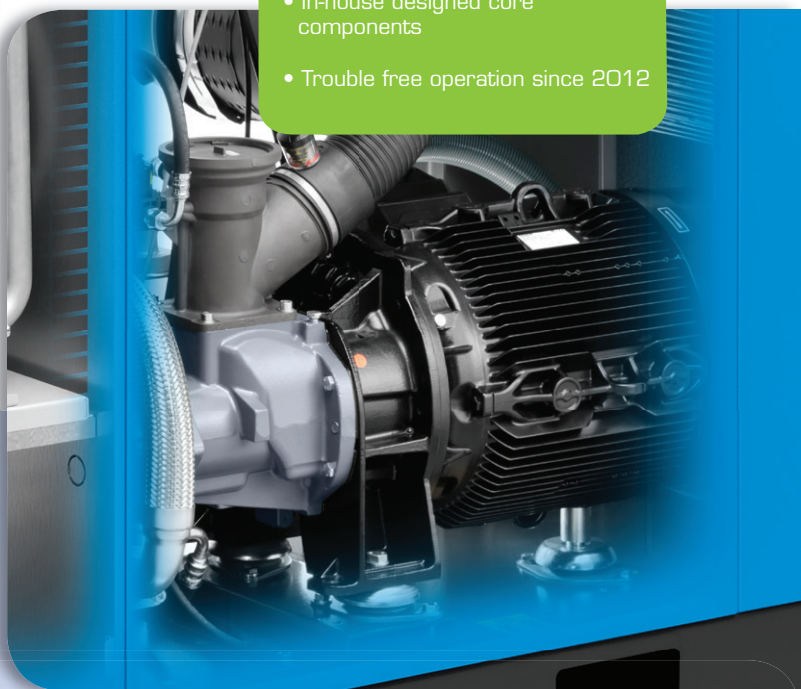


EASY OPERATION, ALWAYS IN CONTROL

- | | |
|---|---|
| <p>ES4000 STANDARD FOR MSC/MSD & RMC/RMD/RME</p> <ul style="list-style-type: none"> • Intelligent unload cycles • Constant pressure follow-up • Automatic restart after power failure | <p>ES4000 ADVANCED FOR MSC/MSD IVR & RMC/RMD/RME IVR STANDARD FEATURES +</p> <ul style="list-style-type: none"> • All standard controller features • Wide choice of timers • An integrated central controller |
|---|---|

RELIABLE COMPONENT SELECTION

- In-house designed core components
- Trouble free operation since 2012



SIMPLE MAINTENANCE

- Separate air and oil cooler which reduces the thermal tension extending the lifetime of the coolers
- Easy gliding ridges making maintenance a one man job



Your smart industry standard in easy operation and maintenance

MSC 30 - 45 MSD 55 - 75

Belt driven compressors have an in-house designed belt drive system. This, on its turn is driven by a high quality electric motor, which runs at a fix speed. Choosing for belt drive offers you:

- Easy maintenance
- Simple installation
- User-friendly operation
- The standard in the industry



Components



- 1 filtration panel
- 2 emergency stop
- 3 controller
- 4 air filter
- 5 oil cooler
- 6 air cooler
- 7 cubicle
- 8 inverter
- 9 oil-separator vessel
- 10 axial fan
- 11 air ends
- 12 motor
- 13 belt driven system
- 14 belt

Variants

TYPE	VOLTAGES		COOLING		DRYER	
	230/3/50	400/3/50	air	water	without	with
Fixed speed	✓	✓	✓	✗	✓	✗
Variable speed	✗	✓	✓	✗	✓	✗



“ The MSC/MSD/RMC/RMD/RME ranges come with a wide range of options, so all customer needs can be met. ”

“ Advanced design
Powerful & efficient
Very rigid and robust
construction ”

“ Maintenance is a one man job now.
Costs me less. ”

“ Thanks to the synergy in design within the ranges, the service is facilitated, availability of parts is increased and lead times of machines are reduced. ”

BELT DRIVEN - Fixed & Variable speed



Technical data

FIX SPEED	Working Pressure	Reference Working Pressure	Free Air Delivery @ reference conditions*			Motor Power		Noise Level**	Cooling Air Volume	Compressed Air output diameter	Weight
Model	BAR	BAR	m ³ /h	l/s	cfm	kW	hp	dB(A)	m ³ /h	"	kg
MSC 30	8	7,5	294	82	173	30	40	70	5400	1"1/2	748
	10	9,5	259	72	153	30	40	69	5400		
	13	12,5	208	58	122	30	40	69	5400		
MSC 37	8	7,5	367	102	216	37	50	71	5760	1"1/2	832
	10	9,5	332	92	196	37	50	70	5760		
	13	12,5	255	71	150	37	50	70	5760		
MSC 45	8	7,5	446	124	263	45	60	72	7200	1"1/2	862
	10	9,5	400	111	235	45	60	71	7200		
	13	12,5	343	95	202	45	60	71	7200		
MSD 55	8	7,5	522	145	307	55	75	72	9000	2"	1073
	10	9,5	475	132	280	55	75	71	9000		
	13	12,5	425	118	250	55	75	71	9000		
MSD 75	8	7,5	691	192	407	75	100	75	12600	2"	1280
	10	9,5	605	168	356	75	100	74	12600		
	13	12,5	533	148	314	75	100	74	12600		

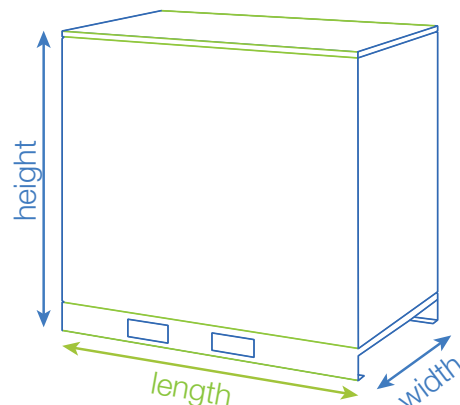
VARIABLE SPEED	Working pressure	Min Free Air Delivery (7 bar)		Max Free Air Delivery												Motor Power		Noise Level**	Cooling Air Volume	Compressed Air output diameter	Weight				
Model	BAR	m ³ /h l/s cfm		7			9,5			10			12,5			13			kW	hp	dB(A)	m ³ /h	"	kg	
MSC 30 IVR	4-10	88	25	52	294	82	173	254	72	149	246	70	145	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	30	40	70	5400	1"1/2	798
	4-13	78	22	46	261	72	154	259	72	153	259	72	152	199	58	117	193	56	114	30	40	69	5400		
MSC 37 IVR	4-10	110	31	65	367	102	216	320	92	188	310	90	183	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	37	50	71	5760	1"1/2	882
	4-13	100	28	59	335	93	197	333	93	196	332	92	196	243	71	143	236	69	139	37	50	70	5760		
MSC 45 IVR	4-10	140	39	83	432	120	254	436	121	256	390	111	230	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	45	60	72	7200	1"1/2	912
	4-13	121	34	71	405	112	238	402	114	237	401	114	236	327	95	192	317	92	187	45	60	71	7200		
MSD 55 IVR	4-10	157	44	92	522	145	307	475	132	280	461	128	271	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	55	75	75	9000	2"	920
	4-13	143	40	84	478	133	282	475	132	280	474	132	279	425	118	250	n.a.	n.a.	n.a.	55	75	74	9000		

* Unit performance measured according to ISO 1217, Annex C, latest edition ** Noise level measured according to ISO 2151 with optional baffle
All technical data for Aircooled machines without integrated dryer. For technical data of Watercooled machines or machines with integrated dryer, please contact your local salesforce

Dimensions

FIX SPEED	DIMENSIONS		
Model	length mm	width mm	height mm
MSC 30 - 37 - 45	1247	1060	1630
MSD 55	1420	1060	1630
MSD 75	1660	1060	1630

VARIABLE SPEED	DIMENSIONS		
Model	length mm	width mm	height mm
MSC 30 - 37 - 45 IVR	1420	1060	1630
MSD 55 IVR	1660	1060	1630



Your energy efficient and solid performance

>>> RMC 30 - 45 RMD 55 - 75 RME 75 - 110

Gearbox driven compressors are suitable for use with a variety of constant speed or variable speed drivers. Local energy costs and application requirements will determine the most economical method of drive for your application. Choosing the heavy duty gearbox solution offers you:

- Higher performance for less energy consumption
- Lower maintenance cost
- No transmission losses
- No belt tensioning
- No coupling maintenance
- Silent design thanks to standard radial cooling fan on RMC 30-45



>>> Components



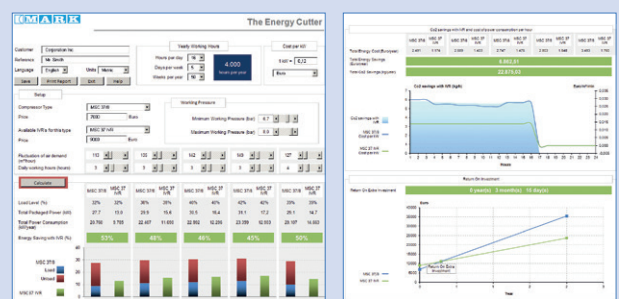
- | | | |
|--------------------|------------------------|---------------|
| 1 filtration panel | 5 air cooler | 10 fan |
| 2 emergency stop | 6 cubicle | 11 air ends |
| 3 controller | 7 inverter | 12 motor |
| 4 oil cooler | 8 integrated dryer | 13 air filter |
| | 9 oil-separator vessel | |

>>> Variants

TYPE	VOLTAGES		COOLING		DRYER	
	230/3/50	400/3/50	air	water	without	with
RMC/RMD (Fixed speed)	✓	✓	✓	✓	✓	✓
RME (Fixed speed)	✓	✓	✓	✓	✓	✗
RMC/RMD (Variable speed)	✗	✓	✓	✓	✓	✓
RME (Variable speed)	✗	✓	✓	✓	✓	✗

>>> Energy audit

A frequency driven compressor potentially offers a very energy efficient compressed air installation, with a return on investment of typically 1-2 years. To help you decide to go with a frequency driven compressor or not, Mark has created the Energy Cutter, a tool which calculates in an easy way and visually presents the yearly savings that can be obtained from investing in a frequency driven compressor for any specific industry. Besides the Energy Cutter tool, Mark offers energy audits, specialized advice to make sure you make the right decision when buying your compressor.



Oil-injected Screw compressors,
 belt or gearbox driven
 Range MSC/MSD
 • RMC/RMD/RME



- A high quality product offering you **technology you can trust**.
- Our products are **easy to use** and guarantee high **reliability**.
- Distributors are always nearby ensuring **availability** of both products and support.
- Choosing our high performance products entails a **partnership** that will boost your business.
- Safeguarding long-term productivity through optimal **serviceability** and use of original parts.



Care. Trust. Efficiency.

Care.

Care is what service is all about: professional service by knowledgeable people, using high-quality original parts.

Trust.

Trust is earned by delivering on our promises of reliable, uninterrupted performance and long equipment lifetime.

Efficiency.

Equipment efficiency is ensured by regular maintenance. Efficiency of the service organization is how Original Parts and Service make the difference.

Contact your local Mark representative now!



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