Solid, simple and smart: advanced reliability in compressed air

RMC 30-45 / RMC 30-45 IVR OIL-INJECTED SCREW COMPRESSORS

MARK

If you have owned a Mark compressor before, you know it will not let you down. The RMC 30-45 (IVR) continues this tradition of reliability. Compact and quiet, the RMC 30-45 (IVR) fits in the smallest spaces and performs in the toughest conditions. It will keep your operational costs down too. The Variable Speed Drive RMC 30-45 IVR reduces energy consumption by an impressive 35%.

Dependable operation

- Silent, compact build to save space and reduce noise levels.
- Easy to operate thanks to the advanced ES4000^{T} controller.
- Reliable operation, even in ambient temperatures of up to 46°C.
- The IP54-enclosed drive train and electrical cubicle ensure reliability in dusty and humid conditions.
- Quality air protects your air system, your pneumatic tools, and your final products.

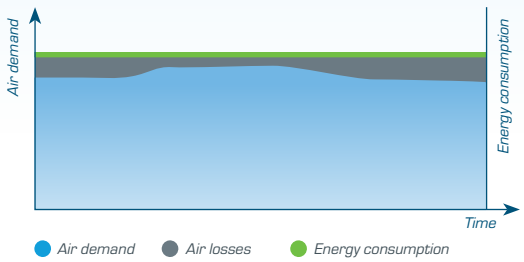
Lower costs

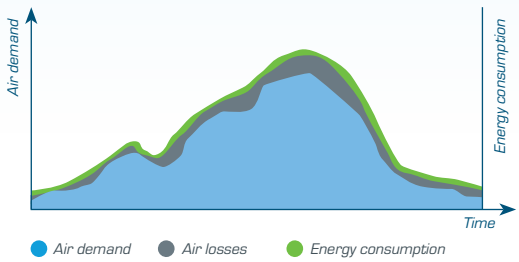
- Silent operation allows installation closer to users.
- Small footprint means saving space, which in turn saves money.
- Integrated direct/gear drive transmission ensures minimal losses.
- Easily accessible service parts guarantee quick and easy maintenance.
- Available with Variable Speed Drive technology for energy savings of 35%.

RMC 30-45 (IVR)
for stable and for fluctuating air demand

How you use your compressor greatly determines your operational costs. That is why our 40-60 hp series includes a fixed-speed model for stable air usage and a VSD version for fluctuating air demand.

	RMC 30-45 FIXED-SPEED	RMC 30-45 IVR VARIABLE-SPEED
Performance	- On average 30% smaller footprint than most competitors - Gear drive contributes to high reliability in tough conditions - Ideal workhorse for compressor rooms with long duty cycle operation	- Direct drive (30 kW) and gear drive (37-45 kW), ensure slip-free and reliable VSD operation - Energy savings of up to 35% - High IP rating on mechanical and electrical parts for reliable operation in tough conditions - Payback within 2 years for upgrade from fixed-speed to VSD
+ TCO* savings		





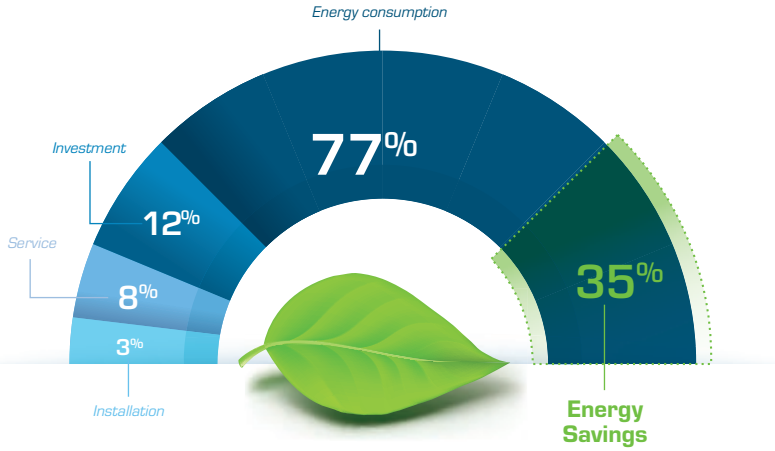
* Total Cost of Ownership.

Sturdy and compact

The RMC 30-45 (IVR) is built to last. Its high-performance air end and transmission are supported by quality components and a robust canopy that will withstand tough and dirty conditions. And while the RMC 30-45 (IVR) is sturdy, it is the opposite of bulky. Thanks to its small footprint, it will fit in the tightest spaces in your compressor room. With noise levels as low as 67 db(A), you can even install the RMC 30-45 (IVR) on your production floor.

Easy to run and service

We know you have no time to lose. That is why we designed the RMC 30-45 (IVR) to be easy to use and service. The ES4000T controller offers a host of air system management and monitoring options using its intuitive touchscreen. Servicing your RMC 30-45 (IVR) is just as straight-forward. The service panels can be removed quickly for easy access to all mechanical and electrical components to ensure swift maintenance with minimal downtime.



Variable Speed Drive for energy savings

If you have a stable compressed air demand, a fixed-speed compressor will work just fine for you. However, if your air use fluctuates during the day or week, a compressor always running at 100% will waste a lot of energy. Mark's RMC 30-45 IVR Variable Speed Drive (VSD) compressors adjust their motor speed to follow your air demand as it goes up and down. The result: up to 35% energy savings. As energy takes up more than 70% of the cost of owning and operating a compressor, these savings quickly add up.

Outstanding air quality

High air quality – including the reduction of moisture – is of paramount importance to safeguard the longevity of your pneumatic tools. It is even required for use as process air. The RMC 30-45 (IVR) range provides this quality air by cleaning the incoming air through pre-filtration mats and a high-efficiency inlet air filter. Inside the compressor, the air is further filtered through a multi-stage oil separator (<3ppm) and an aftercooler. Higher levels of purification can be achieved with an optional dryer, line filters and a water separator.

Intuitive control

The ES4000^{T} controller* offers you all the control, monitoring and connectivity features you want and need:

. **Large 4.3" color touchscreen display**
. **30+ languages**
. **Warning indications and shutdown alarms**
. **Service status and schedule indication**
. **Online visualization of running conditions**
. **Compressor data analysis**

* Optional for fixed-speed models.

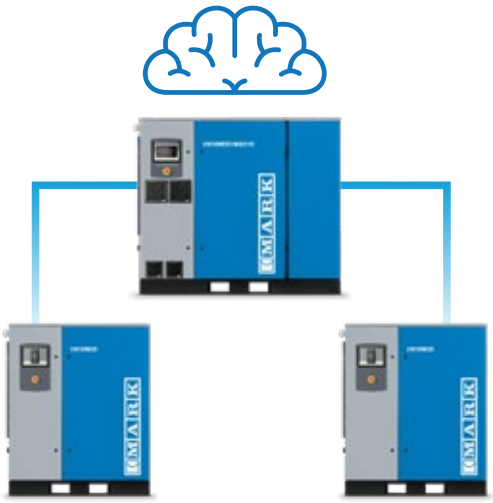
ICONS

Increased reliability, powered by ICONS

With the **Intelligent CONnectivity System** (ICONS), you get data and insights from your machines delivered to your computer, tablet or smartphone.

. Get **notified** by text or email whenever your machine requires your attention.
. Control your **maintenance costs** and ensure a longer machine life.
. Increase the **reliability** of your machine by identifying problems before they become a threat to the continuity of your production.

ECOntrol6i



Enhance your air system performance with the ECOntrol6i

Are you operating multiple compressors? Synchronize your machines and increase the reliability of your air supply with the **ECOntrol6i** central controller solution. One single touchscreen display gives you a host of air system management options. This includes narrowing down the operating pressure band for maximum energy savings. You can also equalize the running hours of your compressors to save on maintenance costs.

Built for reliability

IE3 efficiency Siemens motor: Delivers energy savings of 35% on average; includes innovative oil-cooling technology for optimal performance in up to 46°C.

Electrical cubicle: Can withstand up to 60°C and is IP54 protected.

In-house designed compression element: Gives you best-in-class Free Air Delivery and Specific Energy Requirement.

Drive train: IP54-rated for complete protection from dust and moisture.

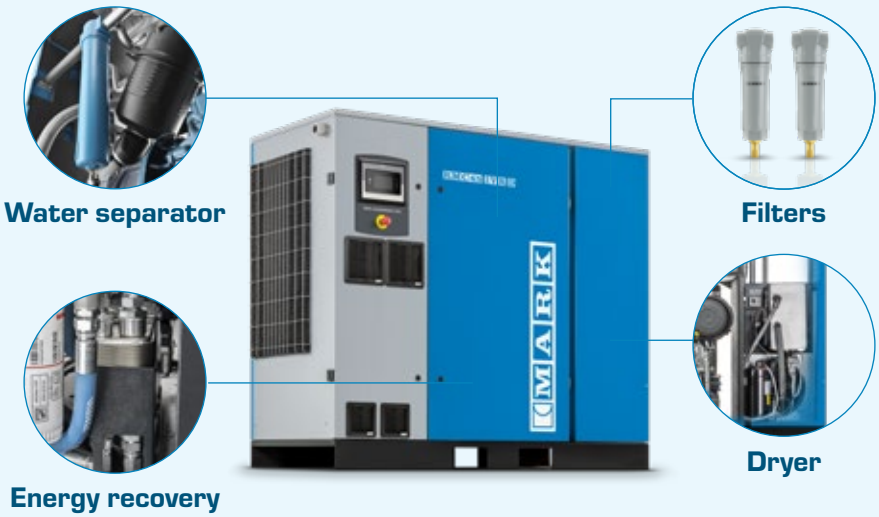
Radial fan: Ensures improved pressure build-up and quiet operation.

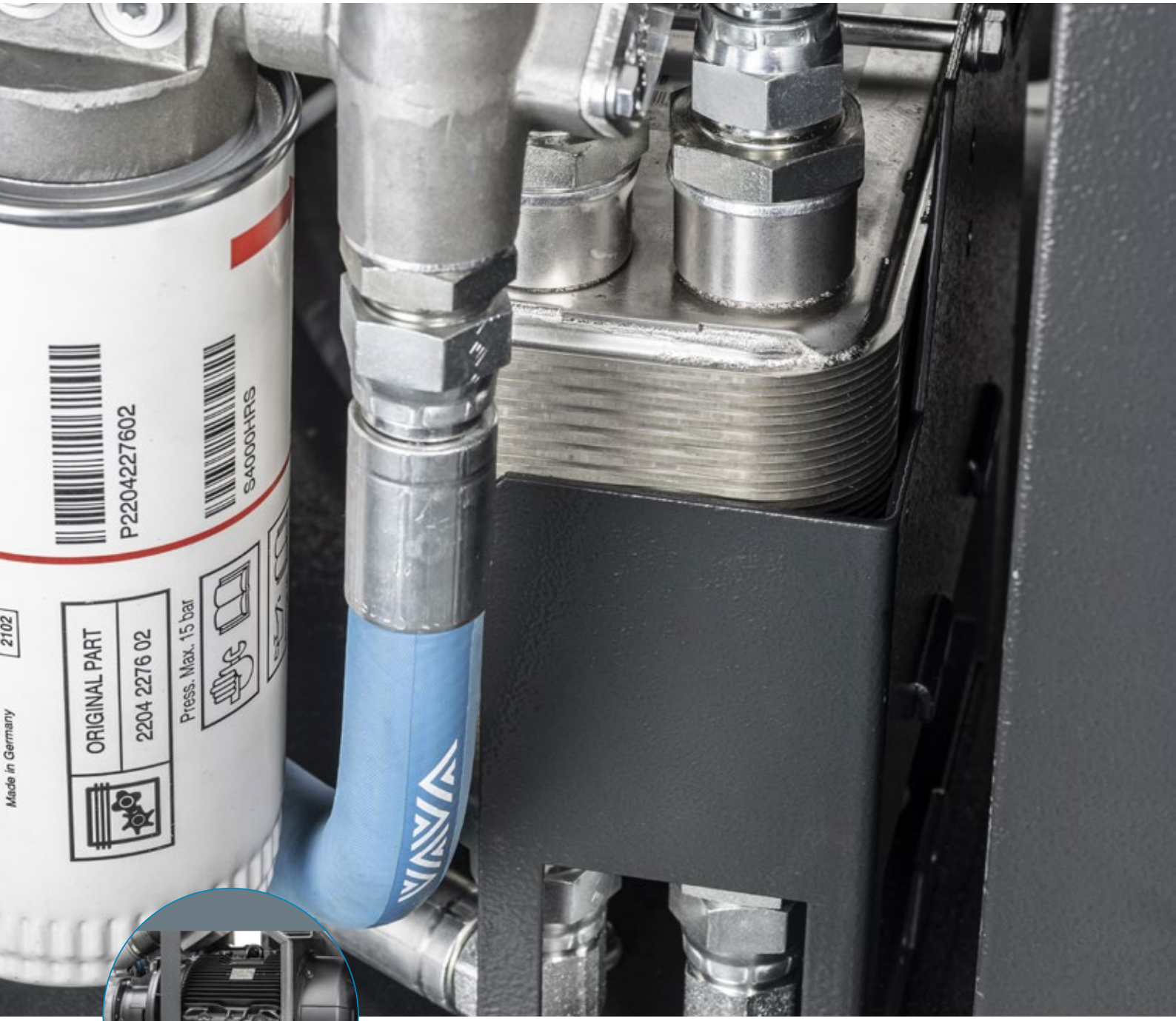
Lower your operational costs

Want to save on your compressor costs? Lowering your energy use will have the biggest impact, far more than going for a cheaper compressor. Luckily, there are many options to minimize the energy consumption of your air system.

One source for all your air needs

Of course you want to get the most out of your RMC 30-45 (IVR). Extend the Mark reliability and performance throughout your compressed air system with our air dryers, line filters, water separators, air receivers, and our AIRnet piping system. Better yet, most of these features can be fully integrated into your RMC 30-45 (IVR).





A range of options

The RMC 30-45 (IVR) comes with a range of options to meet your specific or additional requirements concerning air quality, efficiency, performance, and working conditions:

- Integrated energy recovery
- IE4 fixed-speed motor
- 8000-hour premium synthetic oil
- Food-grade oil
- Freeze protection
- WSD & Electronic water drain
- Heavy-duty pre-filtration
- ECO6i

Technical specifications

RMC 30-45

Model	Max. working pressure	Reference working pressure	Motor power		Free Air Delivery @ reference conditions*			Noise level **	Cooling air flow	Weight	
										PACK	FF
	bar	bar	kW	hp	m³/h	l/s	cfm	db(A)	m³/h	kg	
RMC 30	7.5	7.0	30	40	350	97.1	206	67	4900	530	640
	8.5	8.0			321	89.3	189				
	10	9.5			296	82.1	174				
	13	12.5			265	73.7	156				
RMC 37	7.5	7.0	37	50	421	117.0	248	70	5000	631	741
	8.5	8.0			405	112.6	239				
	10	9.5			365	101.5	215				
	13	12.5			320	88.9	188				
RMC 45	7.5	7.0	45	60	491	136.3	289	72	7950	646	764
	8.5	8.0			455	126.5	268				
	10	9.5			419	116.4	246				
	13	12.5			377	104.8	222				

* Unit performance measured according to ISO 1217, Annex C, latest edition
** Noise level measured according to ISO 2151 2004.

RMC 30-45 IVR

Model	Min. working pressure	Reference working pressure	Motor power		Min. FAD*		Free Air Delivery @ reference conditions*				Max. FAD*		Noise level **	Cooling air flow	Weight	
					7 bar		7 bar		9.5 bar		12.5 bar				PACK	FF
	bar	bar	kW	hp	m³/h	l/s	m³/h	l/s	m³/h	l/s	m³/h	l/s	db(A)	m³/h	kg	
RMC 30 IVR	4	13	30	40	65	18	335	93	295	82	248	69	67	4900	505	615
RMC 37 IVR	4	13	37	50	115	32	410	114	364	101	281	78	70	5000	655	765
RMC 45 IVR	4	13	45	60	115	32	486	135	425	118	371	103	72	7950	685	795

* Unit performance measured according to ISO 1217, Annex E, latest edition
** Noise level measured according to ISO 2151 2004.

Dimensions

	Length	Width	Height
	mm	mm	mm
Pack	1320	830	1555
FF	1810	830	1555

Contact your local representative:

www.mark-compressors.com

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ORIGINAL PART

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.

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