

PARTNERSHIP • AVAILABILITY • RELIABILITY • SERVICEABILITY • SIMPLICITY •

TECHNOLOGY YOU CAN TRUST

Compact, connected and convenient: reliability and great performance for your business

RMB 15-25, RMP 8-22 IVR,
RMC 30-45 & RMP 26-45 IVR/D



mark-compressors.com

MARK

RMP 8-22 IVR

How do you take a proven compressor range and make it even better? By engineering superior premium-grade efficiency and reliability.

The new **RMP 8-22 IVR series**, equipped with advanced iPM (Interior Permanent Magnet) technology, delivers double-digit substantial energy savings and operational cost reduction and a significantly reduced environmental footprint. Built for demanding industrial environments, these compressors combine rugged durability with cutting-edge performance. This advanced iPM technology ensures maximum energy optimization and sustainability for demanding operations.

The iPM drive system is not only more energy-efficient than previous designs—it's engineered for maximum reliability under continuous load, ensuring consistent output and lower operating costs over time. This advanced iPM technology ensures maximum energy optimization and sustainability for demanding operations.

Compact and low-noise engineered performance, all three models integrate seamlessly into your compressor room or at the point of use, functioning as a primary unit or a complementary solution. Whatever your application, our most versatile rotary screw compressor is designed to meet tough requirements with uncompromising premium-grade efficiency and dependability.



PERFORMANCE

- Achieve **up to 45% substantial energy savings** and operational cost reduction with the RMP 8-22 IVR motor compared to fixed-speed designs.
- Benefit from **up to 17% higher premium-grade efficiency** with our next-generation iPM technology, outperforming traditional Induction Motor VSD systems. This advanced iPM technology ensures maximum energy optimization and sustainability for demanding operations.
- Built for **continuous, engineered for uncompromising reliability operation,** even in harsh environments with ambient temperatures up to **46°C**.
- The **IP54-rated drive train** ensures protection and consistent performance in dusty and humid conditions.
- **Direct-drive VSD combined with iPM technology** delivers uncompromising reliability and premium-grade efficiency. This advanced iPM technology ensures maximum energy optimization and sustainability for demanding operations.
- Operates at **sound levels as low as 63 dB(A)** for low-noise engineered performanceer industrial environments.
- Equipped with the **advanced ES4000T touchscreen controller** for optimal performance monitoring and energy management.

FLEXIBILITY

- Power range from **7 to 22 kW** with pressure options between **4 and 13 bar**.
- Available in **iPM Variable Speed Drive** or **fixed-speed configurations** to match your application needs. This advanced iPM technology ensures maximum energy optimization and sustainability for demanding operations.
- Choose from **floor-mounted or tank-mounted models**, with or without integrated dryer.
- Multiple tank sizes for tailored system design.
- Install in your **compressor room or at the point of use** for maximum convenience.
- Extensive customization options to meet **specific operational requirements**.

A VERSATILE RANGE





RMB 15-25 FIXED-SPEED

- **Gear-driven technology** delivers superior performance compared to belt drive, thanks to our in-house air end design and precision gearbox engineering.
- Built for l**ong duty cycles and continuous operation** in demanding industrial environments.
- Equipped with **IP55, Class F IE3 motor,** ensuring durability and reliability under tough conditions.
- **Robust, low-noise design** for heavy-duty applications.
- Upgrade from belt drive to gear drive offers a rapid **return on investment within 2 years,** reducing maintenance and improving premium-grade efficiency.

+ TCO SAVINGS

PERFORMANCE

SERVICEABILITY

LIFETIME

RMP 8-22 IVR

- Achieve **up to 17% additional substantial energy savings** and operational cost reduction compared to traditional VSD technology.
- Ideal for **high-premium-grade efficiency operation during fluctuating air demand,** ensuring maximum performance at all times.
- Total substantial energy savings and operational cost reduction of **up to 45% compared to fixed-speed compressors.**
- Features **IP54, Class H IE4 oil-cooled motor** for superior thermal management and reliability.
- **New air end and motor connection design** simplifies drive train maintenance and reduces downtime.
- Upgrade from fixed-speed to iPM delivers rapid **return on investment in approximately 1 year,** making it the most cost-effective solution for energy-conscious operations. This advanced iPM technology ensures maximum energy optimization and sustainability for demanding operations.

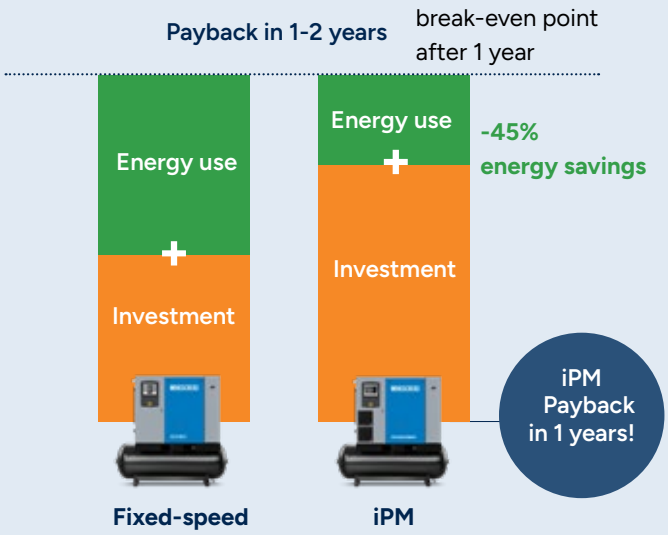
iPM FOR MAJOR ENERGY SAVINGS

This advanced iPM technology ensures maximum energy optimization and sustainability for demanding operations.

Energy accounts for **over 70% of the total cost** of owning and operating a compressor. That's why Mark developed **iPM technology**—to deliver **substantial energy savings** and operational cost reduction and lower your operating costs. This advanced iPM technology ensures maximum energy optimization and sustainability for demanding operations.

Unlike traditional compressors that run at a single speed (100% on), **iPM compressors automatically adjust motor speed to match fluctuating air demand,** common in most production environments. This intelligent control results in substantial **energy savings and operational cost reduction of up to 45%** with the RMP 8-22 IVR models. This advanced iPM technology ensures maximum energy optimization and sustainability for demanding operations.

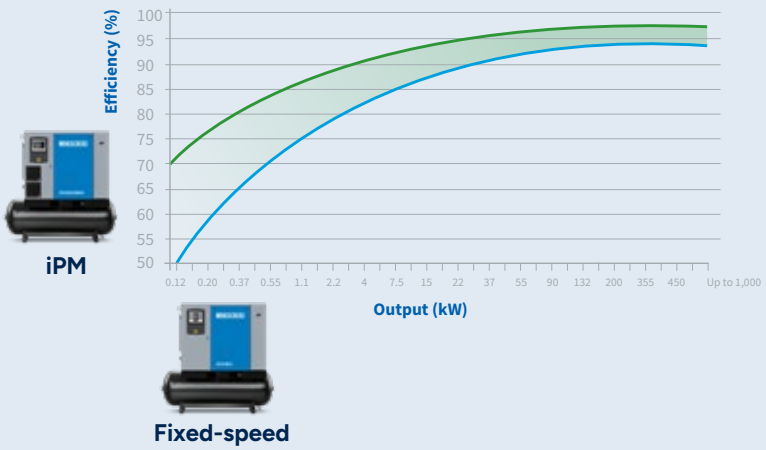
The return on investment is clear: **rapid return on investment in just 1 year** compared to a fixed-speed unit. For industrial operations, that's not just an upgrade—it's a strategic decision.



THE BIGGER BENEFIT OF A SMALLER IPM COMPRESSOR

This advanced iPM technology ensures maximum energy optimization and sustainability for demanding operations.

Does energy premium-grade efficiency matter less in smaller compressors? **Absolutely not.** In fact, **iPM technology delivers its greatest savings in smaller units,** making them the most cost-effective choice. That's why you can achieve **ROI in as little as 1 year,** even on space-optimized industrial design models. This advanced iPM technology ensures maximum energy optimization and sustainability for demanding operations.

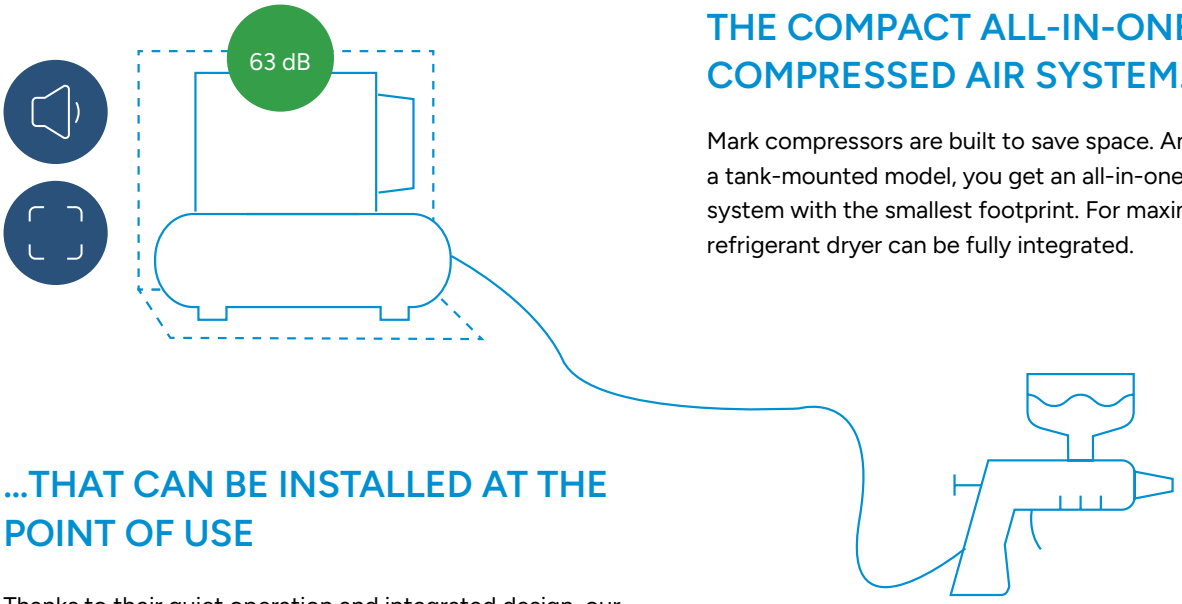


STATE-OF-THE-ART ENGINEERING

At the core of our lineup is best-in-class compression technology, engineered for maximum performance and durability.

- **IE4 premium-grade efficiency rating with Class H motor windings** for superior reliability.
- **Maintenance-free interior permanent magnet motor,** optimized for high premium-grade efficiency even in extreme conditions.
- **Direct drive system** with high turn-down ratio for unmatched energy control.
- **Oil cooling and Class H windings** ensure thermal stability and long service life.
- **New coupling design** simplifies maintenance and minimizes downtime.





THE COMPACT ALL-IN-ONE COMPRESSED AIR SYSTEM...

Mark compressors are built to save space. And if you choose a tank-mounted model, you get an all-in-one compressed air system with the smallest footprint. For maximum air quality, a refrigerant dryer can be fully integrated.

...THAT CAN BE INSTALLED AT THE POINT OF USE

Thanks to their quiet operation and integrated design, our small rotary screw units can be installed on your production floor. That means you don't need a separate compressor room and can save on floor space, piping, and installation costs. You can reduce your investment and operational costs as well, as you can operate the machine at a lower pressure setting and eliminate pressure drops throughout your piping network.

✓ Minimal pressure drops

✓ Higher FAD

Save on investment costs

Save on operational costs

ADVANCED MONITORING, CONTROL & CONNECTIVITY

The state-of-the-art ES4000T touchscreen controller – included as standard – gives you on-screen and remote insight into the performance of your compressor:

- Large 4.3" full-color touchscreen display
- 30+ languages
- Warning indications and shutdown alarms
- Service status and schedule indication
- Visualisation of running conditions over LAN network
- Compressor data analysis over ICONS



ICONS

ADVANCED MONITORING, CONTROL & CONNECTIVITY

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

- Increase the reliability of your machine by identifying problems before they become a threat to the continuity of your production.
- Analyze and optimize your energy consumption and CO_2 emissions.
- Receive high-quality energy reports ensuring the ISO50001 compliance of your site.



Premium compression technology

Oil-cooled IE4 efficiency and Class H interior permanent magnet (iPM) motor:

Maintenance free; includes innovative oil-cooling technology for optimal performance in up to 46°C.

IP54 electrical cubicle:

Can withstand up to 60°C with the highest standards in EMC performance.



In-house designed compression element:

Gives you best-in-class free air delivery and specific energy requirement.

Drive train:

IE4 oil-cooled motor for optimal cooling performance. All-new conical coupling design for fast maintenance on the drive train.

Oversized coolersand oil vessel:

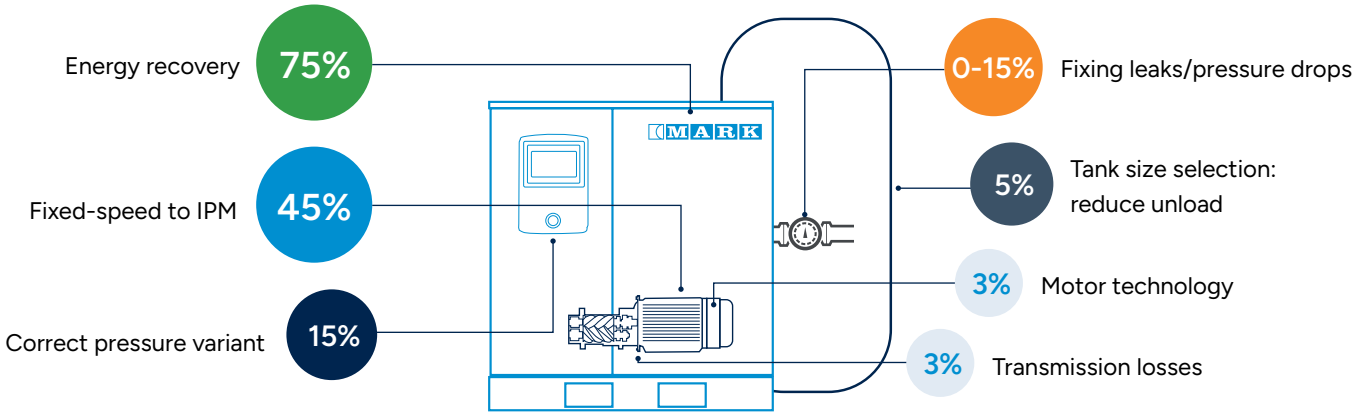
For improved performance.

A RANGE OF OPTIONS

- Energy recovery
- Water separation drain
- Electronic water drain
- Heavy duty air inlet filter
- Silencing baffle
- Canopy heater
- 8000H Oil
- Line filter G
- Food grade oil
- Opt.econtrol 6l

MAXIMIZE YOUR ENERGY SAVINGS

Energy is by far the biggest cost of owning and operating a compressor. Luckily, there are many options to minimize the energy consumption of your air system. Technologies such as energy recovery can have a huge impact on your bottom line and your environmental footprint, with energy savings of up to 75%. A holistic view of your compressed air system is key. It starts with the selection of efficient technologies when buying your compressor. But it doesn't end there. Monitoring and analyzing your air system as you use it will often reveal optimization opportunities. Your Mark representative can help you find those savings.

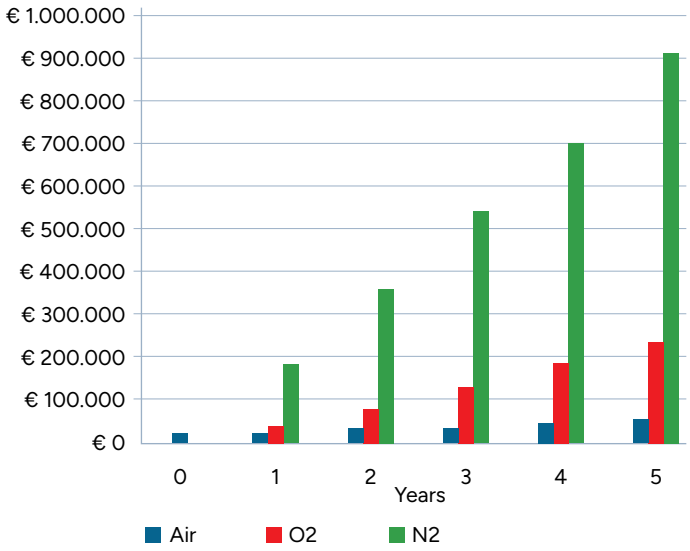


High-Pressure Air Solutions for Laser Cutting

RMP 16-22 IVR is a high-pressure oil-injected screw compressor package configured for clean-cut laser applications. The integrated dryer and filtration train are selected to supply controlled compressed air quality to the laser head, reducing the risk of moisture, oil aerosol and particles reaching the optics or affecting cut performance.



ECONOMY OF LASER CUTTING WITH COMPRESSED AIR



Assist gas supply is a major cost driver in laser cutting. Cylinder-based oxygen or nitrogen supply can add recurring gas, handling and logistics costs. Producing compressed air on site reduces dependency on external gas deliveries and can lower the cost per cut when the process is suitable.

For air cutting, the key conditions are stable pressure, sufficient flow, dry air, low oil carry-over and effective particle removal. If these conditions are met, compressed air can reduce operating cost while keeping production output consistent.

The 5-year comparison shows the cost gap clearly. Even after including the compressor investment, compressed air remains well below oxygen and nitrogen supply costs in the model, provided that the air quality and cutting result meet the application requirements.

WHAT MAKES RMP 16-22 IVR DEDICATED FOR LASER CUTTING

- +3°C dew point dryer: The dryer is sized for high-pressure operation and continuous laser cutting duty. It keeps the compressed air dry and helps control relative humidity in the air line. Zero-loss condensate drain and hot-gas bypass valve support stable and energy-efficient dryer operation.
- High-efficiency filters: After drying, filtration is required to remove particles, oil mist and residual oil aerosol that may affect the laser head. The filter package supports air quality up to ISO 8573-1:2010 Class 1.4.1 during the filter element lifetime.
- Oversized coolers and oil vessel: Larger cooling surfaces and oil volume support thermal stability, oil separation performance and reliable operation during long cutting cycles.

OPTIONS

- Energy recovery
- Water separation drain electronic
- Water drain
- Heavy duty air inlet filter
- Silencing baffle canopy
- Heater
- 8000H Oil
- Opt. Econtrol 6

Technical specifications

RMB 15-25

Model	Max. working pressure	Reference working pressure	Free Air Delivery @ reference conditions*			Motor power		Noise level**	Cooling air flow	Weight		
										Base Mounted	Base Mounted Dryer	Tank Mounted Dryer 500L
	bar	bar	m³/h	l/s	cfm	kW	hp	db(A)	m³/h	kg		
RMB 15	7.5	7	162	44.9	95	15	20	67	2484	330	375	550
	8.5	8	152	42.3	90							
	10	9.5	136	37.8	80							
	13	12.5	117	32.4	69							
RMB 18	7.5	7	199	55.3	117	18.5	25	68	3492	355	405	580
	8.5	8	189	52.4	111							
	10	9.5	175	48.7	103							
	13	12.5	137	38	80							
RMB 22	7.5	7	231	64.3	136	22	30	69	3492	370	420	595
	8.5	8	224	62.4	132							
	10	9.5	198	54.9	116							
	13	12.5	167	46.5	99							
RMB 25	7.5	7	253	70.2	149	26	35	71	6516	385	435	610
	8.5	8	239	66.4	141							
	10	9.5	224	62.1	132							
	13	12.5	196	54.4	115							

RMP 8-22 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 (kg)			
					7 bar		7 bar		9.5 bar		12.5 bar				Base Mounted	Base Mounted Dryer	Tank Mounted Dryer	
	bar	bar	kw	hp	m³/h	l/s	m³/h	l/s	m³/h	l/s	m³/h	l/s	dB(A)	m³/s			270L	500L
RMP 8 IVR	4	10	7.5	10	22.0	6.1	76.3	21.2	66.2	18.4	55.4	15.4	63	0.61	203	–	345	375
RMP 11 IVR	4	10	11	15	19.8	5.5	114.1	31.7	94.7	26.3	75.6	21	64	0.61	205	–	347	377
RMP 15 IVR	4	10	15	20	20.5	5.7	137.2	38.1	117.7	32.7	88.6	24.6	65	0.61	216	–	373	405
RMP 16 IVR	4	10	15	20	36.4	10.1	178.6	49.6	153.4	42.6	130.3	36.2	66	0.69	310	355	–	530
RMP 18 IVR	4	10	18.5	25	34.9	9.7	210.2	58.4	181.4	50.4	143.3	39.8	68	0.97	325	375	–	550
RMP 22 IVR	4	10	22	30	34.9	9.7	241.6	67.1	204.8	56.9	185.0	51.4	70	0.97	330	385	–	560

RMP 16-22 IVR 16 bar

Model	Min Working Pressure	Reference Working Pressure	Motor Power		Min. FAD*		Free Air Delivery @ reference conditions * Max. FAD*				Noise level **	Cooling air flow	Weight (kg)		
					15.5 bar		12.5 bar		15.5 bar				Base Mounted	Tank Mounted Dryer 475L	
	bar	bar	kw	hp	m³/h	l/s	m³/h	l/s	m³/h	l/s	dB(A)	m³/h		Without Filters	With Filters
RMP 16 IVR	10	16	15	20	25,9	7,2	111,2	30,9	100,8	28	66	0,69	305	605	615
RMP 18 IVR	10	16	18	25	40,3	11,2	153,0	42,5	123,1	34,2	68	0,97	345	655	665
RMP 22 IVR	10	16	22	30	42,8	11,9	186,5	51,8	154,4	42,9	70	0,97	355	665	675

* Unit performance measured according to ISO 1217, Annex C, latest edition
** Noise level measured according to ISO 2151:2004 using ISO 9614/2

DIMENSIONS

	RMB 15-25			RMP 8-15 IVR			RMP 16-22 IVR			RMP 16-22 IVR 16 bar		
	Dimensions (mm)			Dimensions (mm)			Dimensions (mm)			Dimensions (mm)		
	Length	Width	Height	Length	Width	Height	Length	Width	Height	Length	Width	Height
Base Mounted	1200	835	1220	1000	655	1062	1200	835	1220	1200	835	1220
Base Mounted Dryer	1450	835	1220	–	–	–	1450	835	1220	–	–	–
Tank Mounted Dryer 270L	–	–	–	1540	655	1550	–	–	–	–	–	–
Tank Mounted Dryer 500L	1940	835	1835	1875	655	1680	1940	835	1835	–	–	–
Tank Mounted Dryer 475L	–	–	–	–	–	–	–	–	–	1940	835	1835
Tank Mounted Dryer 475L + Filter	–	–	–	–	–	–	–	–	–	2000	835	1835

RMP 26-45 IVR/D

RELIABLE PERFORMANCE. LOWER OPERATING COSTS. MAXIMUM UPTIME.

Engineered for demanding industrial applications, the new **RMP 26-45 IVR/D** combines reliability, efficiency and simple operation in a compact package.



LOWER TOTAL COST OF OWNERSHIP

Energy typically accounts for more than 70% of a compressor's lifecycle cost. Intelligent speed control continuously matches air output to demand, reducing energy consumption and providing rapid payback compared with fixed-speed systems. Return on investment is typically achieved within 1 to 2 years, depending on operating conditions.



RMC 30-45 FIXED-SPEED

- Up to 30% smaller footprint than comparable competitor models
- Gear-driven transmission ensures reliable operation in demanding conditions
- Ideal for compressor rooms with extended duty cycle requirements



+ TCO* SAVINGS
PERFORMANCE
SERVICEABILITY
LIFETIME

RMP 26-45 IVR/D

- Oil-cooled iPM drive train for high performance cooling and best-in-class performance
- Energy savings of up to 45%
- iPM motor equals IE4 standards
- Payback within 1-2 years for upgrade from fixed speed to iPM

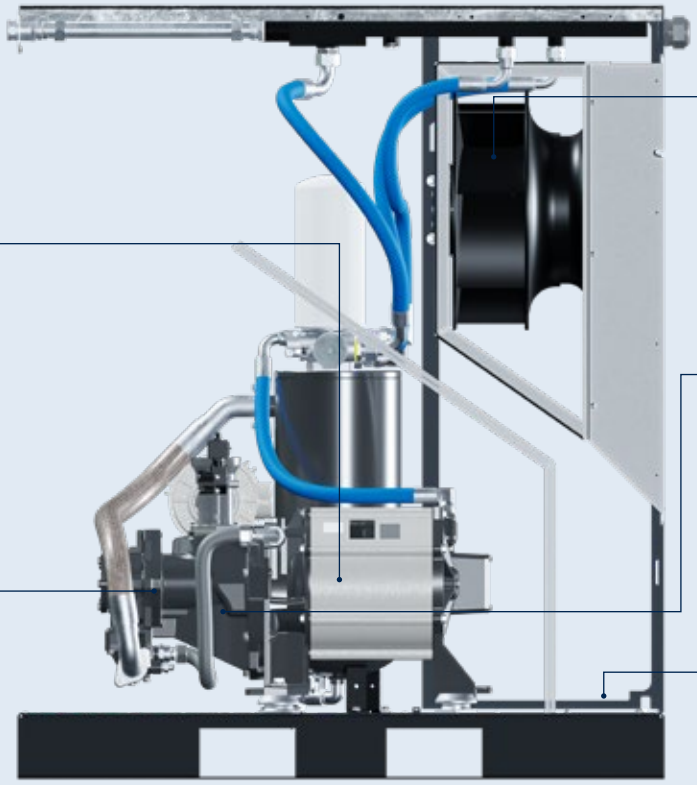
* Total Cost of Ownership

In-house designed IE4 efficiency and Class H interior permanent magnet (iPM) motor:

Maintenance-free; includes innovative oil-cooling technology for optimal performance in up to 46°C.

In-house designed compression element:

Gives you best-in-class free air delivery and specific energy requirement.



Radial fan:

Gives you improved pressure build-up and quiet operation.

Drive train:

IP66-rated for complete protection from dust and moisture.

IP54 electrical cubicle:

Can withstand up to 60°c and is IP54 protected.

A RANGE OF OPTIONS

- Eintegrated 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

BUILT FOR LONG-TERM RELIABILITY

Combining advanced compression technology, efficient drive systems, intelligent controls and remote monitoring, this range is designed to deliver reliable compressed air, reduced operating costs and maximum productivity throughout its service life.

Part of our **RMC 30-45 & RMP 26-45 IVR/D** range, available in both fixed-speed and variable-speed iPM configurations, these compressors offer an efficient solution for applications with constant or fluctuating air demand.

Technical specifications

RMC 30-45

Model	Max. working pressure	Reference working pressure	Motor power		Free Air Delivery @ reference conditions*			Noise level**	Cooling air flow
	bar	bar	kW	hp	m³/h	l/s	cfm	db(A)	m³/h
RMC 30	7,5	7	30	40	350	97,1	206	67	4900
	8,5	8			321	89,3	189		
	10	9,5			296	82,1	174		
	13	12,5			265	73,7	156		
RMC 37	7,5	7	37	50	421	117	248	69	5000
	8,5	8			405	112,6	239		
	10	9,5			365	101,5	215		
	13	12,5			320	88,9	188		
RMC 45	7,5	7	45	60	491	136,3	289	72	7950
	8,5	8			455	126,5	268		
	10	9,5			419	116,4	246		
	13	12,5			377	104,8	222		

RMP 26-45 IVR/D

Model	Min Working Pressure	Reference Working Pressure	Motor Power		Min. FAD*		Free Air Delivery @ reference conditions* Max. FAD*						Noise level	Cooling air flow	Motor efficiency at full load	Compressed Air Outlet
					7 bar		7 bar		9.5 bar		12.5 bar		**			
	bar	bar	kw	hp	m³/h	l/s	m³/h	l/s	m³/h	l/s	m³/h	l/s	dB(A)	m³/s		gas
RMP 26 IVR	4	13	26	30	64,08	17,8	275,4	76,5	243,72	67,7	201,96	56,1	67	1,36	IE4	1
RMP 30 IVR	4	13	30	40	65,16	18,1	347,4	96,5	298,44	82,9	246,24	68,4	67	1,36	IE4	1
RMP 37 IVR	4	13	37	50	93,6	26	423	117,5	372,96	103,6	299,88	83,3	70	2,15	IE4	1-1/4
RMP 45 IVR	4	13	45	60	93,96	26,1	486	135	426,96	118,6	371,52	103,2	72	2,15	IE4	1-1/4

* Unit performance measured according to ISO 1217, Annex C, latest edition
** Noise level measured according to ISO 2151:2004 using ISO 9614/2

DIMENSIONS

	Lenght (mm)		Width (mm)		Height (mm)		Weight (Kg)	
	PACK	FF	PACK	FF	PACK	FF	PACK	FF
RMC 30	1320	1810	830	830	1555	1555	530	640
RMC 37							631	741
RMC 45							646	764
RMP 26 IVR		1320					480	-
RMP 30 IVR								598
RMP 37 IVR		1810					510	628
RMP 45 IVR								

Contact your local representative:
www.mark-compressors.com

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.

MARK

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TECHNOLOGIE DIE ÜBERZEUGT

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