



Oil-flooded Screw Compressed Air System

New RM Series 7-45 kW



Ingersoll Rand offers the intelligence you need to win

Ingersoll Rand works to keep you ahead of your competition with advanced compressed air systems that boost productivity, lower operating expenses and extend equipment life. These innovations are designed into every air compressor—industry-leading air end enhancements for superior efficiency, world-class delivered capacity and exceptional reliability. All supported by unique advantages, including expert design and engineering, a comprehensive suite of support programs and long-life Ingersoll Rand-branded consumables.

New RM series oil-flooded screw air compressors. The intelligence you need - to win.

Global Presence, Local Service



Efficient Operation & Strong Information

We Started at the Core

We utilize new state-of-the-art airend for development of the new RM series to deliver better performance for you. Through rotor profile optimization and many other improvements, the new airend can increase efficiency by 11% and reduce operating cost to a greater extent. Besides, new rotor profile achieves ideal air capacity, i.e. 11% more than the previous model. Smaller specific power means lower equipment investment cost and energy consumption, thus lowering your total cost.



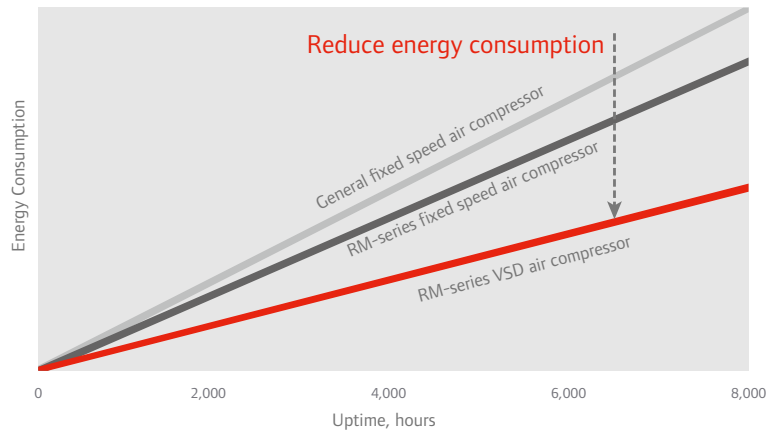
Technology is Power

A high-quality compressor provides required operating parameters while supplying air. So, every RM series compressor is equipped with an intelligent controller to monitor key operating points and adjust system parameters, so as to prolong the uptime and reduce energy consumption. Wherever you are, you can learn the operating status of an air compressor in a real-time manner and promptly take necessary actions.

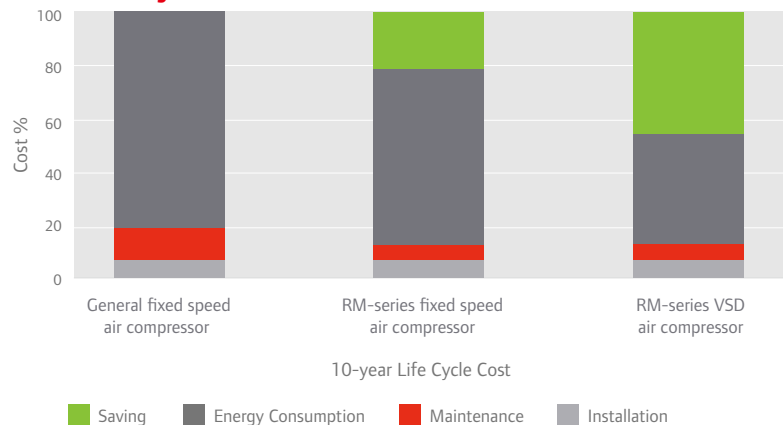
For Higher Energy Efficiency

Every RM series air compressor features an all-new highly efficient airend, in combination with IE3 fixed speed and ECO*-PM VSD IE5 motor technology, helping you save up to 12-30% on energy costs.

ECO (Environment, Conservation & Optimization) adopts the basic R&D concept of environmental protection, energy conservation and economy, all of which also become three qualities persistently chased by ECO PM motor, and conform to the objectives of Ingersoll Rand corporate strategy and Paris Accord.



Greatly reduce total cost



Operate at 79% load for 4,000 hours per year; 0.05\$/kWh

Internal Structure Design Optimization

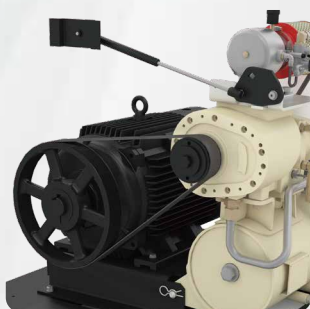


1 Efficiency

New efficient airend design increases efficiency by 11% & air capacity by 11%, and achieves long-lasting reliable operation.

2 Reliability

It can remove lubricant in compressed air to below 3-5ppm, so as to protect downstream equipment, extend filter service life, increase productivity and reduce maintenance cost for customers.



3 Ease of Maintenance

RM7-22i fixed speed drive unit equipped with a standard self-tensioning belt system requires no manual maintenance, and thus reduces daily maintenance costs.

RM30-45i fixed speed drive unit is equipped with an integral gear drive system as standard, which includes gearbox, gear and integrated direct-linking gear drive for higher drive efficiency.



7-22kW



7 Intelligence

Luminance series intelligent controllers achieves real-time monitoring of system parameters, whose standard IoT function enables you to learn air compressor status, wherever you are, and pre-alarms to exempt you from losses due to unexpected sudden shutdown.



6 Efficiency / Ease of Maintenance

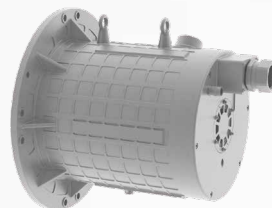
Integrated cooling fan reduces energy consumption, improves efficiency of the unit, and saves more space for maintenance of other components.

5 Robustness

Fixed speed: highly efficient IEC60034-30 IE3 motor enables IP55 protection grade, Class F insulation and Grade B temperature rise.



Variable speed drive (VSD): highly efficient IE5, IP66 oil-cooled permanent magnet VSD motor enables Class H insulation and Class B temperature rise.



30-45kW

4 Efficiency / Productivity Superiority

The air intake system with large-allowance inlet air and low pressure drop air filter effectively reduces inlet air pressure and improve efficiency of the unit, and reduces maintenance work and cost to facilitate the production for customers.



7-45kW Performance

Model	Rated Power kW	Nominal Pressure barg	Air Volume (FAD*) m³/min	Dimensions (L x W x H) mm	Weight kg
i Standard unit performance					
RM7i_A RM7i_A 272 RM7i_A TAS 272	7.5	7 8 10 12.5	1.22 1.14 1.00 0.81	716 x 677 x 1061 1380 x 790 x 1737 1576 x 844 x 1644	222 362 460
RM11i_A RM11i_A 272 RM11i_A TAS 272	11	7 8 10 12.5	1.69 1.58 1.41 1.23		225 365 460
RM15i_A RM15i_A TAS 350	15	7 8 10 12.5	2.50 2.40 2.07 1.70	984 x 1017 x 1065 1596 x 1246 x 1808	465 812
RM18i_A RM18i_A TAS 350	18.5	7 8 10 12.5	3.10 3.00 2.61 2.15		509 856
RM22i_A RM22i_A TAS 350	22	7 8 10 12.5	3.70 3.60 3.08 2.72	993 x 1020 x 1118 1596 x 1246 x 1808	524 871
RM30i_A	30	7 8 10	5.44 5.21 4.74		697
RM37i_A	37	7 8 10	6.52 6.12 5.62	1556 x 928 x 1413	742
RM45i_A	45	7 8 10	8.30 8.08 6.85		870

Model	Rated Power kW	Nominal Pressure barg	Air Volume (FAD*) m³/min	Dimensions (L x W x H) mm	Weight kg
n Standard unit performance					
RM7n_A RM7n_A 272 RM7n_A TAS 272	7.5	7	0.15-1.18	840 x 680 x 810 1356 x 789 x 1520	169 309 417
RM11n_A RM11n_A 272 RM11n_A TAS 272	11	7	0.15-1.65		182 322 417
RM15n_A RM15n_A TAS 350	15	7	0.92-2.54	900 x 800 x 1300 1596 x 1147x 2043	325 689
RM18n_A RM18n_A TAS 350	18.5	7	0.92-3.12		340 689
RM22n_A RM22n_A TAS 350	22	7	0.92-3.66		342 689

1. Air volume (FAD*) (volume flow) is the operation parameter of the entire machine and measured as per the test standard in ISO1217:2009 Annex C.

7-45kW Configurations

Standard Features	Description	Fixed Speed	Fixed Speed	Fixed Speed	Variable Speed
		RM7-11i	RM15-22i	RM30-45i	RM7-11n
Airend	Airend with premium performance	●	●	●	●
Controller	Energy-saving controller, with Chinese / English bilingual text display	●	●	●	●
	Programmable start-stop operation and remote connection	●	●	●	●
	Built-in sequential controller program for at most 4 units ⁽¹⁾	●	●	●	●
	Standard Modbus RTU protocol, RS485 interface	●	●	●	●
	Power outage restart option (PORO) ⁽²⁾	●	●	●	●
Active self-adaptive protection (PAC™)	Monitor the maintenance of filter element and other wear parts, and adjust system operating parameters accordingly	●	●	●	●
	Real-time electronic maintenance indicator & shutdown protection	●	●	●	●
Cooling system	High efficient energy-saving fan with low noise	●	●	●	●
V-Shield™ technology	Vibration isolating pad & high-class flexible metal conduit	●	●	●	●
	Reusable air-tight fluorinated sealing materials	●	●	●	●
Supporting system	Noise-reducing housing of the unit	●	●	●	●
	Drip-proof base frame	●	\	\	●
	Long-life filter element and separator element	●	●	●	●
	Full-load / no-load flow regulation system control	●	●	●	\
	Variable frequency PID regulation control	\	\	\	●
Main motor and electrical system	Direct start	●	\	\	\
	Star-delta reduced voltage starter	○	●	●	\
	Variable frequency reduced voltage start	\	\	\	●
	High-efficiency TEFC, IP55 closed motor with Class B temperature rise & Class F insulation	●	●	●	\
	Permanent magnet variable frequency TEOC, IP66 motor – Class B temperature rise, Class H insulation	\	\	\	●
General configurations	12 months' warranty program	●	●	●	●
Protection under harsh ambient conditions	50°C high temperature option ⁽³⁾	○	○	○	\
	14barg discharge pressure	○	○	\	\
	272L skid-mounted air tank	●	○	\	●
	TAS+ skid-mounted air tank	●	●	\	○
Environmental protection options	Food grade coolant Ultra FG	○	○	○	○

● Standard feature ○ Optional feature \ Not applicable

(1) To be realized after software update (2) Standard for software, buzzer for non-standard

(3) Suitable for RM7/15/18i_A unit without TAS

Customized Products for Your Application

Ingersoll Rand offers a wide portfolio of reliable products that will adapt to your industry and application. We will assess and customize the system solution to reduce the total air consumption cost of your compressed air system, maximizing your operational productivity.

Sewage Treatment



- Aeration
- Mixing
- Material conveying
- Sludge purging
- Air source for ozone generator

Animal Husbandry



- Pneumatic valve
- Pneumatic switch
- Power conveying
- Purging

Medical Gas Supply & Oxygen Generation



- Air supply for oxygen generation
- Dental treatment gas
- Medical devices
- Cleaning equipment

Air Treatment

Moisture and contaminants in compressed air can cause serious equipment operation problems, such as rust, scaling, and pipe clogging, which can lead to product damage or even shutdown. Using our air treatment equipment as an integral component of your compressed air system will help improve productivity, system efficiency and product quality.

Refrigerated dryer



- 7°C rated pressure dew point
- Adaptability to extreme working conditions in summer: Stable operation at 46°C ambient temperature/60°C inlet air temperature
- High-efficiency rotor compressor, three-in-one changer
Heater to improve system stability
- Equipped with an intelligent controller for easy operation and efficient management

Desiccant dryer



- Reliable -40°C pressure dew point under most operating conditions
- High-strength desiccant and durable valve
- Low pressure-drop design saves energy
- Advanced microprocessor control, easy to use and maximizing the extension of service time

High efficiency filter



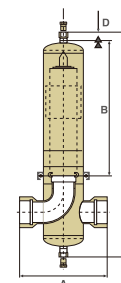
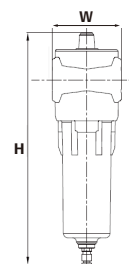
- G(GP) class –conventional protective filtration
- D(DP) class - general dust removal filtration
- H(HE) class - high efficiency precision filtration
- A(AC) class - activated carbon filtration
- F-IU class - absolute sterilizing-grade filtration

Dryer Performance

Model	Flow m ³ /min	Power V/Ph/hz	Air connector diameter inch	Dimensions (L x W x H) mm	Weight kg
D-IN series refrigerated dryer					
D42Rs-A	0.7	220/1/50	0.75" BSPT	400 x 400 x 650	47
D72Rs-A	1.2	220/1/50	0.75" BSPT	400 x 400 x 650	47
D108Rs-A	1.8	220/1/50	1" BSPT	520 x 430 x 660	56
D216Rs-A	3.6	220/1/50	1.5" BSPT	600 x 500 x 770	72
D294Rs-A	4.9	220/1/50	1.5" BSPT	700 x 650 x 850	79
D342Rs-A	5.7	220/1/50	1.5" BSPT	700 x 650 x 850	88
D390Rs-A	6.5	220/1/50	1.5" BSPT	700 x 650 x 850	92
D444Rs-A	7.4	220/1/50	1.5" BSPT	700 x 650 x 850	97
D540Rs-A	9	220/1/50	1.5" BSPT	750 x 660 x 880	116
D-ILRi/IERi series regenerative adsorption dryers (-20°C)					
D72ILRi/IERi20	1.2	220/1/50	1/2" BSPT	730 x 480 x 1550	132/145
D126ILRi/IERi20	2.1	220/1/50	3/4" BSPT	850 x 500 x 1620	144/152
D216ILRi/IERi20	3.6	220/1/50	3/4" BSPT	950 x 550 x 1630/1650	168/186
D282ILRi/IERi20	4.7	220/1/50	1" BSPT	1050 x 600 x 1680/1720	321/347
D312ILRi/IERi20	5.2	220/1/50	1" BSPT	1050 x 600 x 1680/1720	328/352
D408ILRi/IERi20	6.8	220/1/50	1-1/2" BSPT	1050 x 600 x 1680/1720	358/395
D540ILRi/IERi20	9	220/1/50	1-1/2" BSPT	1250 x 650 x 1760/1800	405/447
D-ILRi/IERi series regenerative adsorption dryers (-40°C)					
D72ILRi/IERi40	1.2	220/1/50	1/2" BSPT	730 x 480 x 1550	132/145
D126ILRi/IERi40	2.1	220/1/50	3/4" BSPT	950 x 550 x 1630/1650	168/186
D216ILRi/IERi40	3.6	220/1/50	1" BSPT	1050 x 600 x 1680/1720	321/347
D282ILRi/IERi40	4.7	220/1/50	1-1/2" BSPT	1050 x 600 x 1680/1720	342/385
D312ILRi/IERi40	5.2	220/1/50	1-1/2" BSPT	1050 x 600 x 1680/1720	358/395
D408ILRi/IERi40	6.8	220/1/50	1-1/2" BSPT	1250 x 650 x 1760/1800	405/447
D540ILRi/IERi40	9	220/1/50 380/3/50	2" BSPT	1350 x 700 x 1840/1900	442/496

High-efficiency Filter Performance

Model	Flow @7barg m³ / min	Connector Dimensions	Dimensions mm		Weight kg		
Threaded type A,G,H,D							
F42*	0.7	0.5" BSPT	266	90	1.1		
F72*	1.2	0.5" BSPT	266	90	1.1		
F108*	1.8	0.75" BSPT	300	90	1.4		
F216*	3.6	1" BSPT	420	120	3.2		
F294*	4.9	1.5" BSPT	520	120	5.2		
F342*	5.7	1.5" BSPT	520	120	5.2		
F390*	6.5	1.5" BSPT	520	120	5.2		
F444*	7.4	1.5" BSPT	520	120	5.2		
F540*	9	2" BSPT	730	160	7.6		
Filtration class	Flow @7barg m³ / min	Connector Dimensions	Dimensions mm				Weight kg
F-IU grade sterilization filter							
F150IU	2.5	1"BSPT	160	168	282	170	0.5
F216IU	3.6	1"BSPT	220	210	435	220	2.6
F480IU	8	2"BSP	220	335	560	350	3.5



Luminance Controller

With its strong control and remote management function, the new generation Luminance controller of Ingersoll Rand guarantees steady operation and also greatly improves the operating and management efficiency of your compressor.



Controller Features



More User-friendly Interface

- High-resolution touch screen
- More intuitive key parameter & information display



Easier Upgrade

- Modular design for easier iterative upgrade of software functions and continuous improvement of user experience



More Advanced Algorithm

- Advanced controller algorithm for smaller pressure fluctuation and lower energy consumption
- Sequencer for up to 4 compressors with Luminance and no other system controllers



Steadier Performance

- Fully isolated design with stronger anti-interference capability and better electromagnetic compatibility
- Used in a variety of operating ambient conditions and operating life of at least 40,000 hours for 5 years



More Efficient Management

- Built-in Internet connection for efficient remote management of operating status and maintenance schedule of the unit
- Automatic alarm & fault reminder and performance report sending



Stronger Core

- Multi-core processor for significant improvement of computing speed and communication capability
- Significantly reduce data collection and operation interface delay for more timely communication

What is Helix™ AI Cloud?

Ingersoll Rand Helix™ AI Cloud aims to maximize the uptime and easily enable the owner's real-time compressed air system data management. The advanced sensor technology integrated in the compressor regularly sends data to our cloud platform, which can be accessed by you from PC, tablet PC or smartphone to learn machine operating condition at any time. We provide layered services for you to choose the required data monitoring and analysis level based on your specific operation demand.



Shorter Planned Stops

Better machine performance



Visualized Maintenance Plan

All units under control



Timely Maintenance

Extended service life of the unit



Online State Monitoring of the Unit

Higher productivity and mechanical efficiency



Lower Shutdown Risk

Minimum unscheduled downtime



Quick Response Services

Better & professional insights

Service Contract



PackageCARE™

PackageCARE: from 1st day when the agreement becomes effective, all operating risks transfer from you to us to free you from any concerns. You will enjoy 100% operating risk transfer for any machine model and life.



PlannedCARE™

PlannedCARE: all-round genuine spare parts and maintenance services
You will enjoy preventative diagnosis, current state analysis & trend judgment; 10 years' airend warranty (for new oil-flooded screw air compressor)



PartsCARE™

PartsCARE: genuine spare parts for daily maintenance
You will enjoy regular shipment of spare parts and daily maintenance reminder, 5 years' airend warranty (for new oil-flooded screw air compressor)

It All Adds Up to Peace of Mind



Lower TCO

CARE service programs provide the most cost-effective solutions based on your customized maintenance strategy.

Quality Results

Ingersoll Rand factory-trained service technicians are backed by more than 160 years of industry experience.

Increased Uptime

Our CARE programs help decrease unplanned downtime and costly production interruptions.

Efficient Energy Use

Peak system efficiency is achieved through properly performed maintenance and inspection.

Peace of Mind

Our world-class services will help you achieve the results you need, while you focus on what's important to your business,

Maintenance Service Package

Replacement / maintenance period: 2,000 / 4,000 / 8,000 hours

All parts and components required for maintenance or service at a time are included in the package.

Reliability: constant air quality guarantee with genuine spare parts

Scheduling: regular maintenance & care as planned to decrease failure probability and increase operating stability

Efficiency: one chart No. replacing a number of spare parts lists to increase procurement & management efficiency

Comprehensiveness: all parts and components required for maintenance or service at a time are included for shorter lead time than individual parts

Economy: visual service cost budget and superiority in price to purchase of individual parts



One-stop service with OEM quality guarantee



Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to Making Life Better for our employees, customers, shareholders, and planet. Customers lean on us for exceptional performance and durability in mission-critical flow creation and industrial solutions. Supported by over 80+ respected brands, our products and services excel in very complex and harsh conditions. Our employees develop customers for life through their daily commitment to expertise, productivity, and efficiency. For more information, visit www.IRCO.com.

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