



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 airend 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.





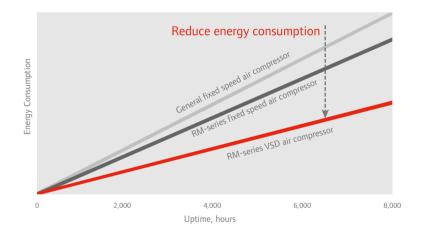
Technology is Power

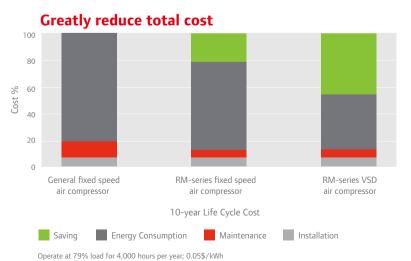
A high-quality compressor provides required operating parameters while supplying air. So, every RM series compressor is equipped with an intelligent controller to monitor key operating points and adjust system parameters, so as to prolong the uptime and reduce energy consumption. Wherever you are, you 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.





Internal Structure Design Optimization



• 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.



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.







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.



30-45kW

G 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.





• 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	Nominal Pressure	Air Volume (FAD*)	Dimensions (L x W x H)	Weight kg
i Standard unit perfo	rmance				
DA47: A		7	1.22		222
RM7i_A RM7i_A 272	7.5	8	1.14		222 362
RM7i_A TAS 272		10	1.00	716 x 677 x 1061	460
110071_711705 272		12.5	0.81	1380 x 790 x 1737	100
DA411: A		7	1.69	1576 x 844 x 1644	
RM11i_A RM11i_A 272		8	1.58		225
RM11i_A TAS 272	11	10	1.41		365
NWI 11_A 1A3 272		12.5	1.23		460
		7	2.50		
RM15i_A		8	2.40	984 x 1017 x 1065	465
RM15i_A TAS 350	15	10	2.07	1596 x 1246 x 1808	812
		12.5	1.70		
	7 3.10 8 3.00 10 2.61 12.5 2.15	3.10			
RM18i_A RM18i_A TAS 350		8	3.00		509
		10	2.61		856
		12.5	2.15	993 x 1020 x 1118	
		7	3.70	1596 x 1246 x 1808	
RM22i_A		8	3.60	1330 X 12 10 X 1000	524
- RM22i_A TAS 350	22 AS 350	10	3.08		871
		12.5	2.72		
		7	5.44		
RM30i_A	30	8	5.21		697
_	30	10	4.74		
		7	6.52		
RM37i_A	37	8	6.12		742
	3,	10	5.62		
		7	8.30	-	
RM45i_A	45	8	8.08		870
	.5	10	6.85		

Model	Rated Power kW	Nominal Pressure barg	Air Volume (FAD*) m³/min	Dimensions (L x W x H)	Weight kg
n Standard unit per	formance				
RM7n_A RM7n_A 272	7.5	12.5	0.15-1.18	840 x 680 x 810	169 309
RM11n_A RM11n_A 272	11	12.5	0.15-1.65	1356 x 789 x 1520	182 322

^{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		RM30-45i		
Airend	Airend with premium performance	•	•	•	•	
	Energy-saving controller, with Chinese / English bilingual text display	•	•	•	•	
	Programmable start-stop operation and remote connection	•	•	•	•	
Controller	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.C. LITM.	Vibration isolating pad & high-class flexible metal conduit	•	•	•	•	
V-Shield [™] technology	Reusable air-tight fluorinated sealing materials	•	•	•	•	
	Noise-reducing housing of the unit	• • •	•	•		
	Drip-proof base frame	•	\	\	•	
Supporting system	Long-life filter element and separator element	•	•	•	•	
	Full-load / no-load flow regulation system control	•	•	•	\	
	Variable frequency PID regulation control		•			
	Direct start	•	\	\	\	
	Star-delta reduced voltage starter	0	•	•	\	
	Variable frequency reduced voltage start	\	\	\	•	
Main motor and electrical system	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	•	•	•	•	
	50°C high temperature option ⁽³⁾	0	0	0	\	
Protection under harsh ambient	14barg discharge pressure	0	0	\	\	
conditions	272L skid-mounted air tank	•	0	\	•	
	TAS+ skid-mounted air tank	•	•	\	0	
Environmental protection options	Food grade coolant Ultra FG	0	0	0	0	

⁽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 & Oxvaen 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



- 2~10°C rated pressure dew point
- Adaptability to extreme working conditions in summer: Stable operation at 45°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

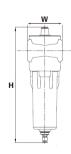
Dryer Performance

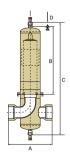
Model	Flow m³/min	Power V/Ph/hz	Air connector diameter inch	Dimensions (L x W x H)	Weight kg
D-IN series refrigerated dr	yer				
D42Rs-A	0.7	220/1/50	0.75" BSPT	470 x 360 x 680	42
D72Rs-A	1.2	220/1/50	0.75" BSPT	470 x 360 x 680	48
D108Rs-A	1.8	220/1/50	1" BSPT	550 x 380 x 690	63
D216Rs-A	3.6	220/1/50	1.5" BSPT	650 x 450 x 780	81
D294Rs-A	4.9	220/1/50	1.5" BSPT	760 x 500 x 780	95
D342Rs-A	5.7	220/1/50	1.5" BSPT	760 x 500 x 850	102
D390Rs-A	6.5	220/1/50	1.5" BSPT	760 x 500 x 850	118
D444Rs-A	7.4	220/1/50	1.5" BSPT	760 x 500 x 850	124
D540Rs-A	9	220/1/50	1.5" BSPT	850 x 520 x 875	185
D-INRi series refrigerated	dryer				
D216INRi-A	3.6	220/1/50	1.5" BSPT	620 x 480 x720	72
D294INRi-A	4.9	220/1/50	1.5" BSPT	700 x 520 x850	102
D342INRi-A	5.7	220/1/50	1.5" BSPT	700 x 520 x850	102
D390INRi-A	6.5	220/1/50	1.5" BSPT	700 x 520 x850	133
D444INRi-A	7.4	220/1/50	1.5" BSPT	700 x 520 x850	135
D540INRi-A	9	220/1/50	1.5" BSPT	854 x 614 x960	177
D-ILRi/IERi series regenera	tive adsorption dryers (-	20°C)			
D72ILRi/IERi20	1.2	220/1/50	1/2" BSPT	730 x 480 x1550	132/145
D126ILRi/IERi20	2.1	220/1/50	3/4" BSPT	850 x 500 x1620	144/152
D216ILRi/IERi20	3.6	220/1/50	3/4" BSPT	950 x 550 x1620	168/186
D282ILRi/IERi20	4.7	220/1/50	1" BSPT	1000 x 600 x1660	321/347
D312ILRi/IERi20	5.2	220/1/50	1" BSPT	1000 x 600 x1660	328/352
D408ILRi/IERi20	6.8	220/1/50	1-1/2" BSPT	1000 x 600 x1660	358/395
D540ILRi/IERi20	9	220/1/50	1-1/2" BSPT	1250 x 650 x1740	405/447
D-ILRi/IERi series regenera	tive adsorption dryers (-	40°C)			
D72ILRi/IERi40	1.2	220/1/50	1/2" BSPT	730 x 480 x1550	132/145
D126ILRi/IERi40	2.1	220/1/50	3/4" BSPT	950 x 550 x1620	168/186
D216ILRi/IERi40	3.6	220/1/50	1" BSPT	1000 x 600 x1660	321/347
D282ILRi/IERi40	4.7	220/1/50	1-1/2" BSPT	1000 x 600 x1660	342/385
D312ILRi/IERi40	5.2	220/1/50	1-1/2" BSPT	1000 x 600 x1660	358/395
D408ILRi/IERi40	6.8	220/1/50	1-1/2" BSPT	1250 x 650 x1740	405/447
D540ILRi/IERi40	9	220/1/50 380/3/50	2" BSPT	1350 x 700 x1830	442/496

High-efficiency Filter Performance

Model	Flow @7barg	Connector	Dimensi	Dimensions mm	
model	m³/min	Dimensions	Ĥ	w	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

F540*	9	2" BSPT	-	730	16	50	7.6
Filtration	Flow @7barg	Connector		Dimensi	Weight		
class	m³/min	Dimensions	À	В	C	Ď	kg
F-IU grade steriliza	ation 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



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



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



Easier Upgrade

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



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



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™ Al 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



Ouick Response Services

Better & professional insights

Service Contract



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: 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: 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



















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.

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 quarantee 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 quarantee





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.

Distributed by:			