

LRST Series Tank Mounted Direct Drive Compressor

In-Built VFD | Permanent Magnet Technology | Energy Saving







Anest Iwata Motherson

Anest Iwata Motherson (AIM) is a joint venture between Anest Iwata Corporation, Japan, and Motherson Group, India. Anest Iwata Corporation is one of the global leaders in Air Compressors and Vacuum Pumps with more than 9 decades of inspiring history of technological excellence.

Anest Iwata Motherson is committed to delighting its customers by ensuring the supply of the best quality products, supported with effective after-sales services at optimum value. The company has two state-of-the-art manufacturing facilities and a wide network of sales and service centers spread across India.



<u>Affordable High Efficiency Compressed Air is here!</u>

Introducing AIM's latest range of Permanent Magnet Screw Compressors.

The LRST range is the perfect choice for small to medium air users who have a variable air demand or who would like an energy-efficient machine that can match their demand as air usage increases. The LRST range now makes variable-speed energy-saving technology affordable to even the smallest user, where previously it was only a viable option for large air users.





Affordable energy savings

The unique design of the LRST machine bridges the gap between air users that have outgrown a piston compressor but cannot justify the cost of a new variable speed screw compressor. The oil-cooled IE4 'Super Premium Efficiency Permanent Magnet Motor' added with an inbuilt variable speed drive is the most cost-effective & energy-efficient air compressor available to you.

Unique advantages of the LRST series:

- Low noise operation
- Maximum energy savings
- Oil cooled IP65 PM motor
- Bearing free motor design
- 1:1 direct drive
- Wide operating speed

- Automatic start-stop scheduling
- Low component count
- Solid seamless steel pipes
- Air receiver with segregated oil tank
- Easy to service and maintain
- Pure soft start control

LRST Features and Benefits

High efficiency airend

- Large oversized rotors increase efficiency by 60%
- · Low rotational speed leads to reduced wear
- · Triple lip shaft seals ensure leak-free operation

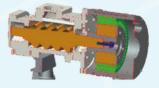


Permanent magnet motor

- · IE4 PM Motor offers the highest level of efficiency
- IP65 sealed motor prevents dust ingress
- Oil cooled motor ensures adequate cooling even in the harshest of environments
- · Bearing free design means no bearing maintenance

Direct coupled motor & airend

- 1:1 Direct Drive means no belt to maintain
- No gearbox or transmission losses
- · Reduced noise over belt driven machines





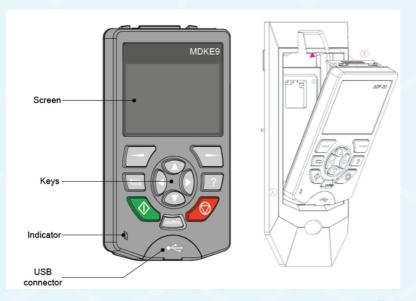
Easy access for maintenance

The Simple design means that all internal components are easily accessible

- · Solid seamless steel pipework eliminates the risk of perished hoses
- · Low component count increases reliability and service cost
- No drive belt maintenance

Low noise operation

- The PM motor and VSD lead to low noise operation
- · Ideal for installing in the workplace
- Direct Drive reduces transmission noise levels

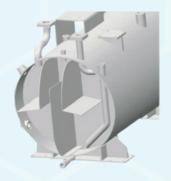


User friendly controller

- Full-text user-friendly controller
- · Plain text simplifies menu navigation
- Dedicated compressor software imbedded into the VSD simplifies commissioning, settings, and maintenance timers
- Ability to schedule start and stop times reduces energy through reduced running hours
- Unique removable ethernet cable connected controller. A controller can easily be relocated outside the machinery room.



Unique patented air receiver and oil tank



- A unique labyrinth structure enables a small section of the receiver to be used as an oil tank, reducing manufacturing costs
- · This design also reduces the machine size, weight, and footprint

Small, Compact and Flexible

The unique design of the LRST compressor makes it ideal for workplace installations, where space availability is a constraint.

- > The flip-top design offers easy access to consumable parts from the front
- > No need for rear machine access
- > Can be located close to a back and sidewall
- > No rear ventilation airflow required

Technical Specifications

| Model | kW | HP | Capacity (m3/min) | Capacity (CFM) | Pressure (Bar) | Noise Level (dB) | Dimensions (mm) | Tank Size (ltr) | Outlet size (Inch) | Weight (kg) |
|---------------|-----|----|----------------------------|-------------------|-------------------|---------------------|--------------------|--------------------|-----------------------|----------------|
| LRST-7503-415 | 7.5 | 10 | 0.41 - 1.1 | 14 - 39 | 8 | 67 | 1197 x 500 x 1125 | 130 | RC 1/2 | 280 |
| LRST-7501-415 | 7.5 | | 0.35 - 0.95 | 12 - 34 | 10 | | | | | |
| LRST-1103-415 | 44 | 15 | 0.69 - 1.70 | 24 - 60 | 8 | 68 | 1197 x 605 x 1220 | 130 | RC 1/2 | 320 |
| LRST-1101-415 | 11 | | 0.6 - 1.5 | 21 - 53 | 10 | | | | | |
| LRST-1503-415 | 15 | 20 | 0.92 - 2.3 | 32 - 81 | 8 | co | 1107 v COF v 1220 | 120 | DO 0/4 | 240 |
| LRST-1501-415 | 15 | 20 | 20 0.8 - 2.0 28 - 70 10 | 1197 x 605 x 1220 | 130 | RC 3/4 | 340 | | | |

Note:

- Standard Voltage is 415V/50Hz
- Free Air Delivery (m³/min / cfm) is measured as per ISO 1217: 2009 Annex C
- Mean noise level measured at a distance of 1 m according to ISO 2151: 2004 using ISO 9614/2 (sound intensity method); tolerance ±3 dB(A)
- All performance parameters are as per JIS (Japanese Industrial Standards)
- Standalone Refrigerated Air Dryers, Heatless Air Dryers, Oil Removal Filters, and Auto Drain Valves are also available upon request
- · Specifications may change without prior notice



Always Ahead with Anest Iwata!

Innovation driven World's 1st products



Compressor

First" products.

Oil Free Reciprocating Oil Free Scroll Compressor



needs. It is our customer's trust in us that we have developed many "World's

Oil Free Booster Compressor



Oil Free Scroll **Vacuum Pump**



Reciprocating



Screw



Scroll

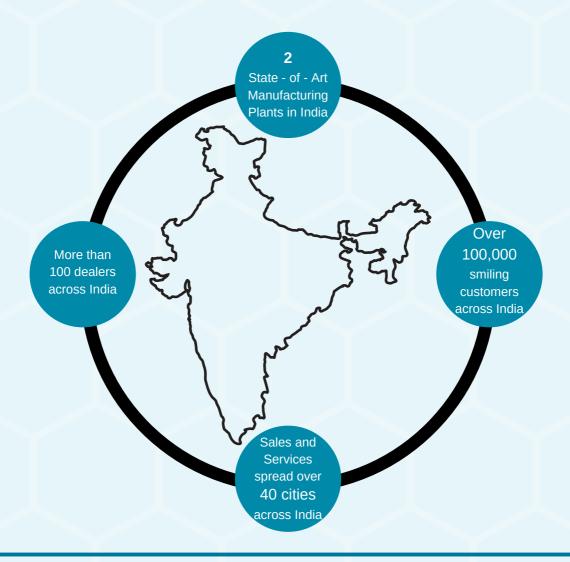


Claw

Compressed Air Solutions in all Technologies



Tctive with Newest Technology





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AUTHORISED CHANNEL PARTNER







High Efficiency APM Screw Air Compressor





High Efficiency Permanent Magnet Drive





Anest Iwata Motherson

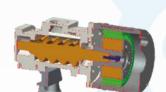
In Japan

Anest Iwata Motherson (AIM) is a joint venture between Anest Iwata Corporation, Japan, and Motherson Group, India. Anest Iwata Corporation is one of the global leaders in Air Compressors and Vacuum Pumps with more than 9 decades of inspiring history of technological excellence.

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High efficiency inverter APM air compressor



Unique designed two layer oil cooled PM motor

The double-layer oil-cooled shell design uses the air compressor cooling system to cool the motor through the liquid channel, ensuring low-temperature operation of the motor in the whole frequency range and preventing high-temperature lead to demagnetization. The PM motor adopts high-temperature permanent magnet material resistant to 180 degrees Celsius, which effectively ensures that the permanent magnet unit does not demagnetize. The IP65 motor is ideal for dusty or poor environments. The PM motor does not use traditional bearings making the motor maintenance-free



Energy saving

In the case of a small amount of air used or no air used, the system goes to sleep to achieve maximum energy savings. During sleep, when you use compressed air again, the inverter will respond quickly and starts immediately.

New Airend profile

The super profile increases the compression area so that the performance of the Airend is better than the standard one. Thanks to its excellent safety and reliability, plus high energy efficiency make it the best choice for replacing traditional Airend on the market.

Original "Taper" connection

The Airend and the motor are connected by the Taper connection method. It is convenient and quick to install and disassemble. It does not need to be adjusted, and it is not easy to damage the motor and internal parts, which greatly reduces the maintenance cost.



Latest touchscreen PLC

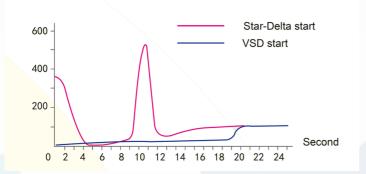
The latest touch screen PLC realizes the real intelligent control for your compressor, Time table running makes your compressor start/stop automatically as you want, more functions have been included to help the easy management of your compressor, we also could support remote control and monitoring with your permission.

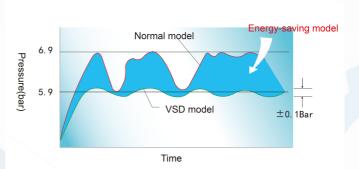


The advantages of Anest Iwata APM compressor

1. Keep constant air supply

The compressor keeps ±0.1bar constant pressure of air supply under the required pressure. With big air demand, the pressure keeps constant and the rotating speed increase ensures air demand. With small air demand, the pressure keeps constant and the rotating speed decreases to satisfy sufficient air demand.





2. Variable speed soft start, less impact to the power grid.

Variable speed soft-start eliminates the peak current when starting, a smooth start can reduce the power supply, and equipment costs, as well as impact the power grid.

3. Reduce mechanical damage, increase service life

VSD compressor reduces the frequent loading and unloading of the solenoid valve, increases its service life, and avoids the damage due to long-term high-speed running. Furthermore, when the solenoid valve starts for the first time, then it has no more action, which not only extends the service life but also extends its maintenance period to save operating expenses.

4. Low noise

VSD air compressor starts and runs steadily without frequent loading and unloading sound fixed speed screw compressor. Adopting double VSD control (main motor and fan motor double VSD) will have better efficiency and the air discharged air temperature can be controlled within ±2°C to avoid condensation.

5. Stand-by function

When the air demand is small or no demand, the system will enter into a standby mode to have maximum energy-saving.

6. Electricity-saving— Unbelievable high efficiency of electricity-saving return

With variable speed control technology, the outlet air capacity of the compressor can be combined perfectly with the customer's requirements, which thoroughly avoids loss of unloading power. In the status of intermittent air demand, a soft start with zero loading can avoid the peak value of current and torque, so the compressor can start and stop many times.

Technical Specification

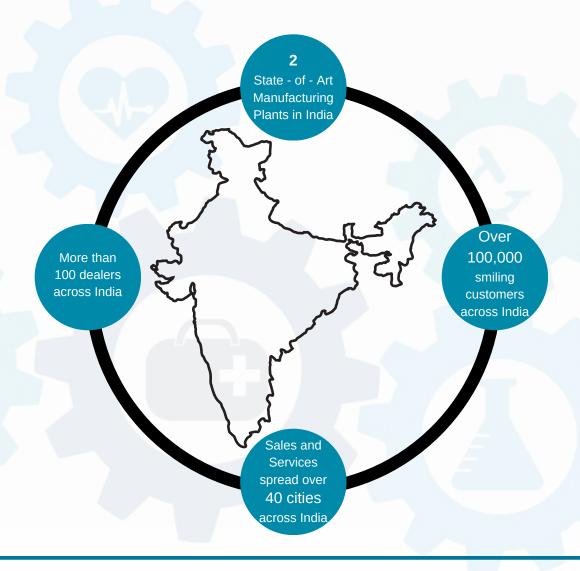
| Model | kW | НР | FAD (m3/min) | CFM | Pressure (Bar) | Noise Level (dB) | Dimensions (mm) | Outlet size | Weight (kg) |
|-------------------|-----|-----|-----------------|-----|-------------------|---------------------|--------------------|----------------|----------------|
| AIM 10 APM - 7 | 7.5 | 10 | 1.15 | 41 | 7 | 64 | | RC 1/2 | 230 |
| AIM 10 APM - 8 | | | 1.10 | 39 | 8 | | 750 x 650 x 890 | | |
| AIM 10 APM - 10 | | | 0.95 | 34 | 10 | | | | |
| AIM 15 APM - 7 | 11 | 15 | 1.75 | 62 | 7 | | 900 x 800 x 1053 | RC 3/4 | 270 |
| AIM 15 APM - 8 | | | 1.70 | 60 | 8 | 64 | | | |
| AIM 15 APM - 10 | | | 1.50 | 53 | 10 | | | | |
| AIM 15 APM - 13 | | | 1.20 | 43 | 13 | 66 | | | |
| AIM 15 APM - 15 | | | 1.00 | 36 | 15 | | | | |
| AIM 20 APM - 7 | 15 | 20 | 2.40 | 85 | 7 | 68 | 900 x 800 x 1053 | RC 3/4 | 280 |
| AIM 20 APM - 8 | | | 2.30 | 82 | 8 | | | | |
| AIM 20 APM - 10 | | | 2.00 | 71 | 10 | | | | |
| AIM 20 APM - 13 | | | 1.60 | 57 | 13 | 70 | | | |
| AIM 20 APM - 15 | | | 1.30 | 46 | 15 | | | | |
| AIM 20 APM - 16 | 1 | | 1.20 | 43 | 16 | | | | |
| AIM 30 APM - 7 | 22 | 30 | 3.70 | 131 | 7 | 70 | 1200 x 800 x 1100 | | |
| AIM 30 APM - 8 | | | 3.60 | 128 | 8 | | | RC 1 | 350 |
| AIM 30 APM - 10 | | | 3.00 | 107 | 10 | | | | |
| AIM 30 APM - 12.5 | | | 2.70 | 96 | 12.5 | 77 | | | |
| AIM 30 APM - 15 | | | 1.90 | 68 | 15 | | | | |
| AIM 30 APM - 16 | | | 1.80 | 64 | 16 | | | | |
| AIM 50 APM - 7 | | 50 | 6.20 | 220 | 7 | 74 | 1300 x 900 x 1270 | RC 1 1/2 | 520 |
| AIM 50 APM - 8 | 37 | | 6.10 | 216 | 8 | | | | |
| AIM 50 APM - 10 | | | 5.60 | 198 | 10 | | | | |
| AIM 60 APM - 7 | | | 7.40 | 262 | 7 | 73 | 1300 x 950 x 1370 | R 1 1/2 | 620 |
| AIM 60 APM - 8 | 45 | 60 | 7.30 | 258 | 8 | | | | |
| AIM 60 APM - 10 | 1 | | 6.80 | 241 | 10 | | | | |
| AIM 75 APM - 7 | 55 | 75 | 10.4 | 368 | 7 | 77 | 1800 x 1200 x 1550 | RC 2 | 1000 |
| AIM 75 APM - 8 | | | 10.1 | 357 | 8 | | | | |
| AIM 75 APM - 10 | | | 8.50 | 301 | 10 | | | | |
| AIM 100 APM - 7 | | | 13.3 | 471 | 7 | | | | |
| AIM 100 APM - 8 | 75 | 100 | 12.9 | 456 | 8 | 77 | 1800 x 1200 x 1550 | RC 2 | 1100 |
| AIM 100 APM - 10 | | | 11.8 | 418 | 10 | | | | |

Note:

- Free Air Delivery (FAD) is measured as per ISO 1217: 2009 Annex C
- Mean noise level measured at a distance of 1 m according to ISO 2151: 2004 using ISO 9614/2 (sound intensity method); tolerance ±3 dB(A)
- All performance parameters are as per JIS (Japanese Industrial Standards)
- All pictures shown are for illustration purposes only. The actual product may vary due to continuous product enhancement.
- Standalone Refrigerated Air Dryers, Heatless Air Dryers, Oil Removal Filters, Auto Drain Valves, and Air Receiver are also available
- · Specifications may change without prior notice



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AUTHORISED CHANNEL PARTNER





Rotary Screw Air Compressor - EPM Series Variable Speed Drive

18.5kW - 160kW / 25 - 220 HP **High Efficiency Permanent Magnet Drive**







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Unique Benefits of the EPM Series:

Save up to 40% of Power

- Compared to an equivalent fixed speed compressor

Pay-Back in as little as 1-2 years

- The more your air demand fluctuates, the faster the payback

More Air per Kilowatt

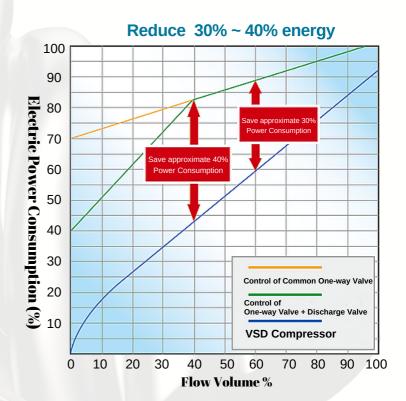
 New over-sized compression Airend gives you more air efficient enough that you may be able to use a lower kW Compressor

No Offload Running

- When the compressor is up to pressure, it stops with no offload running

Low RPM

- Average of 40 - 50% lower max RPM than our competitors



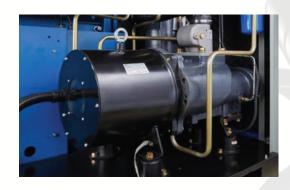
Product Description





Anest Iwata EPM Series Permanent Magnet Drive Features

Oversized High Efficiency Airend





- On average 40-50% lower max RPM than our competitors
- Increased efficiency by 5-10%
- · Large oversized rotors for low rotational speed
- Asymmetric rotor profile for increased sealing between rotors
- Triple lip shaft seals
- Dual back to back taper rolling bearings
- · Oil seal leak recovery system

High Efficiency IPM Motor

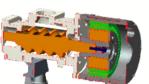
• Soft start on main and fan motor

for installation and dismantlement

- Variable range of 30-100%
- No offload running
- Can dramatically reduce running hours & power consumption
- Direct Drive (1:1 ratio) eliminates gearing or transmission losses

Special Dual Housing Oil-Cooled Motor

The Airend lubricant also cools the motor in a design in which the two housings are incorporated into one, with space left for an oil channel between the inner & outer housing. This design helps cool the motor more efficiently than the traditional air cooling fan system and reduces power consumption. The Airend and motor use a simple and easy morse connection



Energy saving features:

- · Oversized low RPM, high-efficiency Airend
- Highest IPM motor efficiency, Better than IE4 efficiency levels.
- Superior VSD control technology for main & fan motor
- Energy-saving touch screen controller



Variable Speed Drive (VSD) Inverter



The Advance inverter has a massive 30-100% variable range which converts AC to DC to control the new IPM motor. According to your air consumption the inverter will automatically adjust the IPM motor to suite your air demand while keeping a stable pressure of 0.1bar. The fan motor also has its own individual VSD feature which modulates the fan speed to keep a constant temperature.

Energy Saving Touch Screen Controller

- 7 inch color screen with button and touch panel
- · Operation screen readings for pressure/ temperature/ power/ frequency/ run hours/compressor status
- Day time scheduling on/off and pressure (4 different times/pressure allowed per day) to maximize savings
- Master-slave operation (Maximum of 16 compressors)
- Stop-start remote
- Service intervals/ alarm
- Date and Time
- Fault History
- Monitoring alarms
- Supports MODBUS RTU protocol



Seamless Steel & Leak Resistant



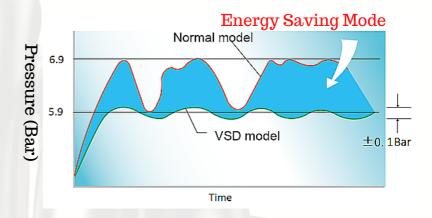
- A high-flow, leak-proof design.
- Rigid steel piping (with high-flow characteristics)
- Eliminates oil pressure losses and the risk of rupture or oil loss through the normal aging of traditional flexible, rubber hoses
- All joints in the hoses employ a combination of fluorine 0-ring & compression rings to offer a leakfree and vibration-free operation.

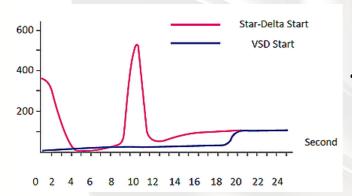


Advantages of EPM Series Screw Compressor

Keeps Constant Air Supply

- The compressor keeps ±0.1 bar constant pressure of air supply under the required pressure
- With an increase in air demand, the pressure is constant and the rotating speed complements to ensure air demand
- With small air demand, the pressure is constant and the rotating speed decreases to satisfy sufficient air demand





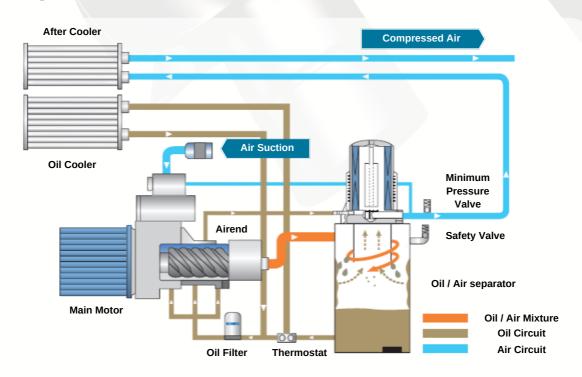
Variable speed soft start, less impact to the power grid

 Variable speed soft-start eliminates the peak current when starting. A smooth start can reduce the power supply, equipment costs, as well as the impact on the power grid

VSD-Permanent Magnet Efficiency

The Interior Permanent Magnet (IPM) motor uses DC power via an inverter to seamlessly speed up and slow down
the compressor to match the air demands. Once up to the pressure, the motor stops with no offload running. AC
induction motors found on most VFD compressors are limited by, the number of times per hour they can
stop/start, and therefore, cannot match the efficiency of the IPM motor. The EPM series has an unlimited startstop ability which can dramatically reduce both total run hours, and power usage

System diagram



Technical Specifications

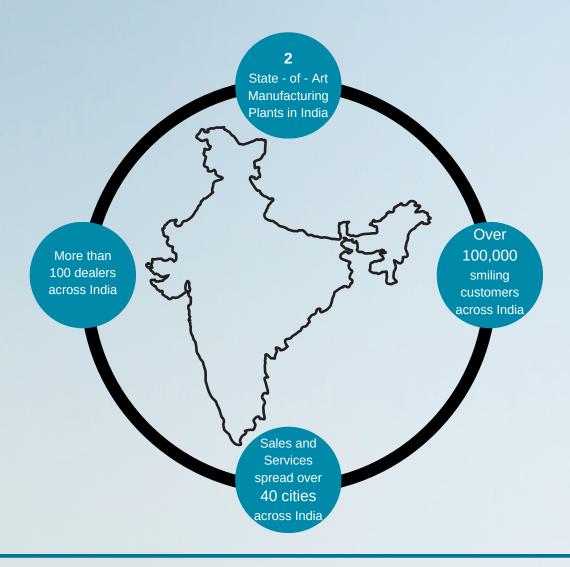
| Model | Power | | Capacity | | Pressure | Dimensions | Weight | Noise level | Outlet |
|--------------------|-------|-------|------------|------------|----------|--------------------|--------|-------------|--------|
| Model | kW | HP | m3/min | CFM | Bar | mm | Kg | at 1m | Size |
| AIM 25 EPM-7 | 18.5 | 25 | 1.3 - 3.7 | 46 - 131 | 7 | 1200 x 800 x 1100 | 480 | 68 ± 3dB | R1 |
| AIM 25 EPM-8 | | | 1.1 - 3.5 | 39 - 124 | 8 | | | | |
| AIM 25 EPM-10 | | | 1.0 - 2.9 | 35 - 102 | 10 | | | | |
| AIM 30 EPM-7 | 22 | | 1.5 - 4.1 | 53 - 145 | 7 | 1200 x 800 x 1100 | 560 | 66 ± 3dB | R1 |
| AIM 30 EPM-8 | | 30 | 1.4 - 4.0 | 49 - 141 | 8 | | | | |
| AIM 30 EPM-10 | | | 1.1 - 3.5 | 39 - 124 | 10 | | | | |
| AIM 40 EPM-7 | | | 2.1 - 6.2 | 74 - 219 | 7 | 1300 x 950 x 1370 | 830 | 68 ± 3dB | R1 1/2 |
| AIM 40 EPM-8 | 30 | 40 | 1.8 - 6.1 | 64 - 215 | 8 | | | | |
| AIM 40 EPM-10 | | | 1.5 - 5.2 | 53 - 184 | 10 | | | | |
| AIM 50 EPM-7 | | | 2.3 - 7.3 | 81 - 258 | 7 | 1300 x 950 x 1370 | | | |
| AIM 50 EPM-8 | 37 | 50 | 2.2 - 7.2 | 78 - 254 | 8 | | 850 | 69 ± 3dB | R1 1/2 |
| AIM 50 EPM-10 | | | 2.0 - 6.3 | 71 - 222 | 10 | | | | |
| AIM 60 EPM-7 | | | 3.0 - 9.4 | 106 - 332 | 7 | 1300 x 1030 x 1520 | 890 | 70 ± 3dB | R11/2 |
| AIM 60 EPM-8 | 45 | 60 | 2.9 - 9.3 | 102 - 328 | 8 | | | | |
| AIM 60 EPM-10 | | | 2.6 - 8.0 | 92 - 283 | 10 | | | | |
| AIM 75 EPM 2-7 | | 75 | 3.6 - 12.0 | 127 - 424 | 7 | 1800 x 1200 x 1650 | 1450 | 76 ± 3dB | RC 2 |
| AIM 75 EPM 2 - 8 | 55 | | 3.3 - 11.0 | 117 - 388 | 8 | | | | |
| AIM 75 EPM 2 - 10 | | | 3.0 - 10.0 | 106 - 353 | 10 | | | | |
| AIM 90 EPM 2 - 7 | | | 3.8 - 12.7 | 134 - 448 | 7 | 1800 x 1200 x 1650 | 1490 | 76 ± 3dB | RC 2 |
| AIM 90 EPM 2 - 8 | 63 | 90 | 3.7 - 12.5 | 131 - 441 | 8 | | | | |
| AIM 90 EPM 2 - 10 | | | 3.3 - 11.0 | 117 - 388 | 10 | | | | |
| AIM 100 EPM 2 - 7 | | 100 | 3.8 - 16.3 | 134 - 576 | 7 | 2280 x 1500 x 1950 | 2010 | 78 ± 3dB | DN65 |
| AIM 100 EPM 2 - 8 | 75 | | 3.6 - 16.0 | 127 - 565 | 8 | | | | |
| AIM 100 EPM 2 - 10 | | | 2.9 - 13.7 | 102 - 484 | 10 | | | | |
| AIM 125 EPM 2 - 7 | | | 5.0 - 20.0 | 177 - 706 | 7 | 2280 x 1500 x 1950 | 2050 | 78 ± 3dB | DN65 |
| AIM 125 EPM 2 - 8 | 90 | 125 | 4.2 - 19.0 | 148 - 671 | 8 | | | | |
| AIM 125 EPM 2 - 10 | | | 3.3 - 16.5 | 117 - 583 | 10 | | | | |
| AIM 150 EPM 2 - 7 | | | 7.4 - 24.5 | 261 - 866 | 7 | 2800 x 1750 x 1690 | 2900 | 78 ± 3dB | DN80 |
| AIM 150 EPM 2 - 8 | 110 | 150 | 7.2 - 24.0 | 254 - 848 | 8 | | | | |
| AIM 150 EPM 2 - 10 | | | 6.3 - 21.0 | 222 - 742 | 10 | | | | |
| AIM 180 EPM 2 - 7 | 132 | 2 180 | 8.3 - 30.0 | 293 - 1060 | 7 | 2700 x 1650 x 2150 | 3050 | 79 ± 3dB | DN80 |
| AIM 180 EPM 2 - 8 | | | 8.0 - 28.5 | 282 - 1007 | 8 | | | | |
| AIM 180 EPM 2 - 10 | | | 6.5 - 23.0 | 229 - 812 | 10 | | | | |
| AIM 220 EPM 2 - 7 | | | 9.3 - 33.5 | 328 - 1183 | 7 | 2700 x 1650 x 2150 | 3150 | 79 ± 3dB | DN80 |
| AIM 220 EPM 2 - 8 | 160 | 220 | | 318 - 1130 | 8 | | | | |
| AIM 220 EPM 2 - 10 | | | 7.5 - 27.0 | 265 - 954 | 10 | | | | |

Note:

- Standard Voltage is 400V/50Hz
- Free Air Delivery (m /min / cfm) is measured as per ISO 1217: 2009 Annex C
- Mean noise level measured at a distance of 1 m according to ISO 2151: 2004 using ISO 9614/2 (sound intensity method); tolerance 3 dB(A).
- All performance parameters are as per JIS (Japanese Industrial Standards)
- Vertical Air Tanks are available from 500 to 5000 liters
- Standalone Refrigerated Air Dryers, Heatless Air Dryers, Oil Removal Filters, and Auto Drain Valves are also available
- Specifications may change without prior notice



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