



# LRST Series

## Tank Mounted Direct Drive Compressor

In-Built VFD | Permanent Magnet Technology | Energy Saving



*The Air of Trust*

# 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.

## Anest Iwata Inspiring History



2022  
"ARID"  
Air Dryer Launched

2019  
Rotary Vane  
Vacuum Pump Launched

2018  
Screw Air Compressor  
Sales Started in India

2017  
Electric Bus  
Compressor Launched

2015  
MEGASY Series  
Medical Air & Vacuum Unit  
Launched

Second Facility in Greater Noida



2013  
Reciprocating Vacuum  
Pump Launched in India

2012  
Oil-Free Claw  
Air Compressor Launched

2005  
Braking Compressor for  
Indian Railways Launched

2010  
Second Facility Inaugurated  
in Greater Noida (India)

2000  
Anest Iwata Motherson  
Established



2004  
World's First Oil-Free  
Booster Compressor  
Launched

1991  
World's First Oil-Free Scroll  
Air Compressor Launched



1993  
World's First Oil-Free Scroll  
Vacuum Pump Launched

1928  
First Reciprocating  
Compressor  
Manufactured

1984  
World's First Oil-Free  
Reciprocating Compressor with  
"Seize Free Technology"  
Launched



1926  
Established  
In Japan



1977  
Screw Air compressor  
Launched

# Affordable High Efficiency Compressed Air is here!

## 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 aircend

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

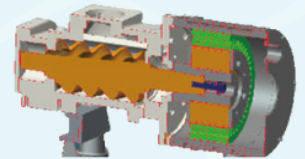


## Permanent magnet motor

- 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 & aircend

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



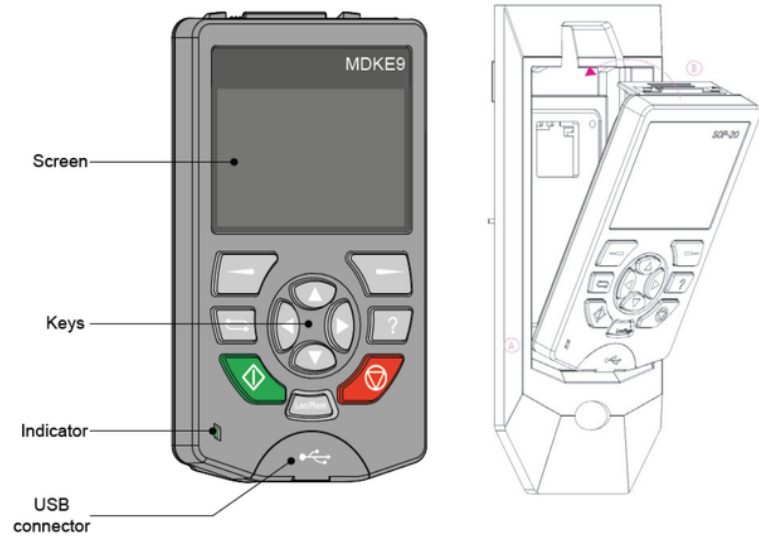
## Easy access for maintenance

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.

## Product description



## 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 (m <sup>3</sup> /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			0.35 - 0.95	12 - 34	10					
LRST-1103-415	11	15	0.69 - 1.70	24 - 60	8	68	1197 x 605 x 1220	130	RC 1/2	320
LRST-1101-415			0.6 - 1.5	21 - 53	10					
LRST-1503-415	15	20	0.92 - 2.3	32 - 81	8	69	1197 x 605 x 1220	130	RC 3/4	340
LRST-1501-415			0.8 - 2.0	28 - 70	10					

**Note :**

- Standard Voltage is 415V/50Hz
- Free Air Delivery (m<sup>3</sup>/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



## Engineering Capabilities & Customised Solutions.

We at Anest Iwata Motherson (AIM) are committed to delighting our customers. Our state-of-the-art Air Energy Core Technology Centre located in Yokohama, Japan works relentlessly on innovations and technologies that add value to our products and make us ready to serve our customer's future needs. It is our customer's trust in us that we have developed many "World's First" products.

**Always Ahead with Anest Iwata!**

**Innovation driven  
World's 1st  
products**



**Oil Free Reciprocating Compressor**



**Oil Free Scroll Compressor**



**Oil Free Booster Compressor**

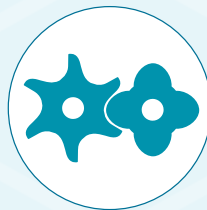


**Oil Free Scroll Vacuum Pump**

Anest Iwata  
Australia Pty.  
Ltd.



**Reciprocating**



**Screw**



**Scroll**



**Claw**

***Compressed Air Solutions in all Technologies***