



**Presented To:**

■ M/s. GV Discovery Centers Pvt  
Ltd, Genome valley, shamirpet.

Mr. Sayed Waseem Akhtar

**Prepared By::**

■ G. ANAND KUMAR

**Gayatri Technologies**

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To,

M/S. GV Discovery Centers Pvt Ltd

**Kind Attention: Mr. Sayed Waseem Akhtar**

Estd. In 1871, with a Heritage of **150 years+** in developing engineering solutions, We are pleased to offer you the following Air Compressor Package against your valuable enquiry.

Ingersoll Rand (India) Limited is a diversified industrial enterprise having its presence in India since 1921. Its first Indian manufacturing facility was established in Ahmedabad district Naroda, in 1965 and became a public limited company in 1977. Ingersoll Rand in India is a dominant player in its business of providing solutions for the Industrial Solutions sectors. Ingersoll Rand is the oldest American investment in India and is one of the few companies manufacturing almost every type and size of air compressor in India, with installations in every sector of industry. It is one of the few facilities in the world to manufacture all three of the major compressor types - Rotary, Centrifugal and Reciprocating.

The **INGERSOLL RAND** OIL FREE ROTARY AIR compressors and accessories with all functions integrated for the whole purpose of supplying required quality of air. And following annexures.

**Techno commercial Offer**

|                      |                                                      |
|----------------------|------------------------------------------------------|
| <b>Annexure No 1</b> | <b>Product description for Rotary air compressor</b> |
| <b>Annexure No 2</b> | <b>Commercial offer with IR T&amp;C's</b>            |
| <b>Annexure No 3</b> | <b>Solution sheet for elicited requirement</b>       |

In case you need any further information / clarification, please feel free to contact us. We look forward to hearing from you.

Sincerely,

**G. ANAND KUMAR**  
**Gayatri Technologies.**

Medium/ Low Pressure Solution

**ROTARY  
SCREW COMPRESSOR**

Model: RSb 26i - 10



**Features and Benefits**

**The Compressor Package is:**

A compact, free standing, silenced package. Delivers a high output to foot print ratio with minimum running costs.

Easy to transport

Easy to install

Easy to operate

Easy to maintain

**Scope of Supply**

- Energy efficient big sized Alpha- compression element assembly, with spin on oil filter and thermostat bypass valve.
- IE3 energy efficient drive motor.
- Epoxy coated acoustically lined silencing enclosure
- Pre- cabinet filter
- Mounted on a free-standing steel base frame, with forklift points
- Oil separator with large surface integrated filter element
- Air intake filter and suction piston regulator
- Electric module, including XePro-25 microprocessor-based control and monitoring system, star - delta and fan contactors
- Cooling module, including radial fan, separate oil and after coolers
- Factory filled with Ultra-coolant, the 8000 Hours lubricant



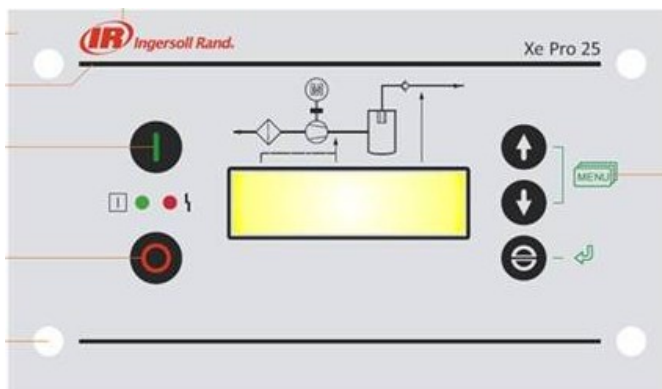
## High Output and Economy

The high output Alpha compression element is driven by IE3 motor and provides efficient compressed air generation with low energy costs.



The compression element male rotor with five lobes of advanced asymmetric design, and the female with six corresponding flutes, operating at low rotational speeds. Manufactured on the latest CNC grinding machines and inspection using accurate 3D monitoring technology, ensures a long trouble free life. A “fail-safe” shaft seal design eliminates oil leakage from the housing.

## Control and Instrumentation



The Ingersoll-Rand microprocessor-based compressor management system coupled with comprehensive instrumentation monitors and protects the compressor as well as providing the operator with status indication. The attached schedule provides a full list of all the parameters and functions available via the control panel. The controller incorporates an RS485 communication port for simple connection to additional equipment.

## Features and Benefits

Excellent Free Air Delivery at low speed.

Reduces electrical power costs and contributes to low total running costs.

Reduced energy requirement and CO<sub>2</sub> emissions.

## Inbuilt Intelligent Controller

Ensures full compressor availability thereby maximising production productivity

Protects your investment and ensures safe operation coupled with operator friendly controls.

The XePro-25 with its three-row clear text display is extremely user friendly and self-explanatory. All functions are clearly structured in six main menus.

Multilingual – 18 languages available

Protects the compressor and provides instant status monitoring.

Matches compressor control to the production process control system and displays the operation status



### **Energy Saving Regulation**

The regulation system matches demand by loading and unloading the compressor automatically in response to changes in pressure.

Pressure is accurately monitored by a pressure transducer linked to the control system which enables plant discharge pressure to be controlled within a 0.2 bar band.

During periods of low or zero demand the compressor automatically stops in order to reduce energy consumption and will restart when demand increases.

### **Drive Arrangement**

The modular designed compression element with integrated gear box is directly driven by an energy efficient IE3 electric motor.

The drive and fan motor is protected by thermistors embedded in the motor windings.

### **Cooling and Ventilation**

Oil circulates through the compressor for cooling, lubricating and sealing, passing through the oil cooler and 'spin on' type filters before being injected into the compression chamber and bearings. A thermostatically controlled oil bypass valve is fitted to ensure that the compressor reaches normal operating temperature as soon as possible after start-up.

The horizontal lightweight aluminium air cooled oil cooler and separate after cooler are manufactured using high performance extended surface heat exchange tubing.

Cooling air flow through the compressor is designed to give specific cooling through the bell housing of motor bearings and air-end drive bearings.

The cooling fan automatically stops when the compressor system temperature decreases further reducing off load power consumption.

### **Air Intake Filtration**

Consists of an enclosure pre filter and a dry type intake air filter with 3 micron efficiency protects the compressor against potentially damaging airborne particles.

### **Oil Separation**

A generously sized multi-stage air / oil separation system combines cyclonic separation and filtration to remove residual oil from the air, including a facility for easy service access.

### **Silenced Package**

Modular package design on a steel base frame and contained within an acoustically insulated epoxy coated steel enclosure.

The compression element, separator / receiver and drive motor assembly are positioned on flexible vibration free mountings, reducing noise and allowing the compressor to be free mounted with no floor fixings required.

### **Features and Benefits**

Matches compressor output to process demand and eliminates unnecessary unloaded running to save on electrical costs.

The energy efficient direct drive system reduces running and maintenance costs.

Maintenance free drive coupling.

Long bearing life in motor and air-end.

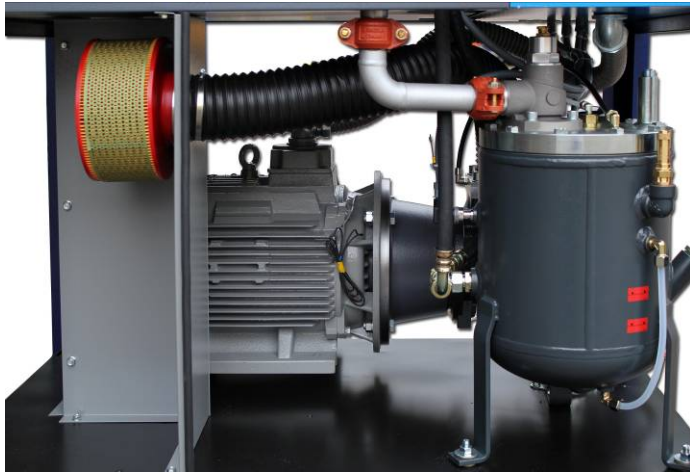
Optimum cooling ensures low operating temperatures and enables the compressor to operate with best compression efficiency and minimum power input reducing electrical costs.

Compressed air outlet temperature is only 6°C to 7°C above ambient temperature leading to smaller sized compressed air purification systems.

Quality hoses used on oil lubricating system and galvanised pipe work used on air delivery system with Viton Victaulic couplings for easy maintenance.

### Reduced Maintenance

The compressor is designed to minimise the number of consumable parts and provide extended service intervals. Easy access to service components as the hinged separator cover reduce service time and integrated Air-End components reduce pipe work in compressor.



### Planned Maintenance Capability

The control system provides indication of any requirement for routine servicing.

Efficient separation ensures an extremely low oil carry over therefore protecting downstream equipment and purification systems.

Reduced maintenance requirements minimise service and parts costs, contributing to reduced life time costs.

Access to all service components.

Easy change of high efficient oil fine separator element

Preventative maintenance can be planned so as not to disrupt normal production.

### **SPECIFICATIONS FOR AIR COMPRESSOR:**

| MODEL               | RSb26i (Fixed Speed) |
|---------------------|----------------------|
| • Capacity (CFM)    | 147 CFM              |
| • Pressure          | 10 bar(g)            |
| • Weight (kg)       | 677                  |
| • Dimensions (mm)   | 1345 x 880 x 1612    |
| • Motor Rating (Kw) | 30KW ( 40 HP )       |

**Quotation-Summary**

| Product description                                                                                                                                                                                                                          | Qty | Unit List price  | Total Price  | Special Discounted Price |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|--------------|--------------------------|
| <b>RSb 26i@ 10 Bar(g)</b><br>AIR COOLED ROTARY SCREW COMPRESSOR<br>FIXED SPEED                                                                                                                                                               | 1   | 13,28,000.00     | 13,28,000.00 | 6,00,000.00              |
| <b>Suitable Refrigerated Dryers</b><br>Model : D360IN -A.<br>Capacity : 212 CFM                                                                                                                                                              | 1   | 2,84,100.00      | 2,84,100.00  | 1,27,000.00              |
| <b>Suitable General Purpose Protection MODEL : FA400IG</b><br><b>Capacity : 235 cfm</b><br>- Particle removal down to 1 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of, 0.5 mg / m3 - | 1   | 37,500.00        | 37,500.00    | 17,000.00                |
| <b>Suitable High Efficiency Oil Removal MODEL : FA400IH</b><br><b>Capacity : 235 cfm</b><br>- Particle removal down to 0.01 micron including water & oil aerosols, providing a maximum remaining oil aerosol content of 0.01mg / m3          | 1   | 37,500.00        | 37,500.00    | 17,000.00                |
| <b>Air Receiver 1.0 m3@10 bar</b>                                                                                                                                                                                                            |     | 1,00,800.00      | 1,00,800.00  | 44,000.00                |
|                                                                                                                                                                                                                                              |     | <b>SUB TOTAL</b> |              | 8,05,000.00              |
|                                                                                                                                                                                                                                              |     | <b>GST@18%</b>   |              | 1,45,900.00              |
| <b>TOTAL PRICE INCLUSIVE OF GST &amp; FREIGHT</b>                                                                                                                                                                                            |     |                  |              | <b>9,49,900.00</b>       |

**TERMS & CONDITIONS.**

- **Prices:** FOR DESTINATION,
- **Taxes/Duties & Levies:** All taxes, duties and levies shall be charged extra at actual at the rates prevailing at the time of shipment. However, the present rate of GST is 18%.
- **Packing & Forwarding:** NIL
- **Freight:** PAID BASIS
- **Validity:** 30 days from the date of this offer and thereafter subject to our written confirmation.
- **Delivery:** Now compressor is readily available in stock at Naroda, Ahmedabad ( Within 1 week ) and balance items are available in Hyderabad.
- **Payment:** 100% advance along with purchase order
- **Transit Insurance:** This shall be your responsibility, if you wish us to arrange, we shall do so under our Marine special declaration policy. Premium shall be charged extra at actual. In the unlikely event of any transit loss / damage, it shall be the purchaser's responsibility to lodge their claim on our underwriters
- **Warranty:** 12 months from the date of commissioning or 18 months from the date of dispatch, whichever occurs earlier?
- However the warranty terminates if the unit/system is exported from India.
- **Inventory cost clause:** Notwithstanding anything contained anywhere in the Agreement or the Purchase Order, If the customer delays in taking the delivery of the product as per the agreed delivery schedule, then the customer shall pay to the Seller/Manufacturer/IR 0.5% for every week's delay subject to a maximum of 5%. This clause is also applicable if the product is ready for shipment and the customer has not taken the delivery of the product.

**Annexure 3: General Terms & Conditions**

**1. General:** Orders booked by the Company are subject to the conditions of sale herein contained. Purchaser shall be deemed to have signified his acceptance of these conditions by placing an order with the company. In the event of there being any conflict or inconsistency between the conditions of sale herein contained and the Terms and Conditions that may be stipulated by the Purchaser, the Terms and Conditions of sale herein contained shall prevail. Products offered in this proposal are subject to prior sale.

**2. PRICES & PAYMENTS:**

(a) The prices as finalized in the order will be firm till the mutually agreed delivery date. In case the delivery is delayed beyond the agreed delivery period due to reasons attributable to the customer Ingersoll Rand reserves the right to charge prices as applicable at the time of dispatch

(b) Are exclusive of any Sales Tax, Octroi or Excise Duty

(c) Are Ex-works or Ex-godown, as applicable depending upon point of shipment as described in our offer.

(d) All taxes, levies, duties or imposts upon the material and all enhancements thereof from time to time imposed by Central Government or any local or municipal body or authority shall be to the Purchaser's account in all respects. In cases where declarations or forms furnished by the Purchaser and purporting to have been issued under or in pursuance of any statutory provisions are rejected by the competent Assessing Authority of any reason, the Purchaser shall be liable to pay within seven days from a demand for the same being made by the Company any additional amount that the Company may be called upon to pay by such Assessing Authority in consequence of or in respect of any such taxes, levies, duties or imposts.

(e) All cheques, drafts, hundies, etc. shall be to order and crossed to INGERSOLL-RAND (INDIA) LIMITED, Account Payee only. Interest at the rate of 18 per cent per annum shall be charged on any sum payable by the Purchaser to the Company remaining unpaid on the date when due from the due date until the date of payment or realisation without prejudice to any other rights or remedies of the Company under the conditions of sale or otherwise at law. The Company shall be entitled, in its absolute discretion to withhold further supplies of its products under this contract or any other contract until all accrued outstanding are discharged by the Purchaser.



(f) If shipments are deferred at Purchaser's request, payment shall become due and payable upon notification by the Company that the machinery provided for by this arrangement is ready for shipment. In case of such delay in shipments, it is agreed that storage shall be at Purchaser's risk and inventory holding cost. Company reserves the right to ask for a cost escalation if deliveries are delayed beyond the mutually agreed period.

### **3. INSPECTION & DELIVERY:**

(a) Inspection of products will be done by Customer at Customer's facility immediately on receipt of products. In specific cases, by mutual consent, inspection shall be permitted at the factory premises.

(b) Product delivery dates are based upon current production capacities, material or component availability and inventory, and may be changed by company as conditions require based on mutual discussion and agreement with the customer. In no event will time be of the essence in respect of any delivery date specified in any order for Products.

(c) Delivery date shall be reckoned from the date of receipt of technically and commercially clear order together with receipt of advance.

(d) All claims for loss or damage to products while in the care, custody, and/or control of a carrier will be the responsibility of Customer, who will submit any claims to the Carrier. For the avoidance of doubt, Company shall not be liable for any such loss or damage to products.

### **4. PRODUCT CHANGES:**

Company reserves the right to change without notice the design of, or the process of manufacturing, the products, provided that the foregoing will not be construed as relieving the Company from its obligation to deliver products which conform to the specifications which Company may have furnished to Customer.

### **5. WARRANTY:**

(a) Company warrants that it is the legal owner of, and has the right to sell, any of the products purchased by the Customer. All products delivered under an invoice will be free and clear of all liens and encumbrances.

(b) Company warrants the performance of each product against any manufacturing defect / deficiency, material defect / deficiency, bad workmanship, for a maximum period of 12 Months from the date of commissioning of the product or 18 Months from the date of shipment as evidenced by the Invoice, whichever is earlier. (The foregoing warranty period shall apply to all company products, except the TYPE-30 range of COMPRESSORS where it shall be Three (3) months from the date of initial operation or Six (6) months from the date of shipment)

(c) This warranty does not apply to corrosion, erosion, normal wear and tear during the course of usage, and consumables.

(d) This warranty is not applicable in case the customer tranships the products from the original destination as intimated to the Company to another destination, unless agreed to in writing by mutual consent.

(e) No other warranties or representations, express or implied, are made with respect to the Products including, but not limited to, any implied warranty or merchantability or fitness for a particular purpose and Customer acknowledges that it has not relied on any such warranties or representations.

(f) The purchaser shall be obligated to promptly report any failure to conform to this warranty, in writing to the company within said period whereupon the company shall, at its option correct such non conformity by suitable repair to such equipment or, furnish a replacement part provided the purchaser has stored, installed, maintained and operated the equipment basis the company's recommendations. The company shall not be liable for any repairs, replacements or adjustments to the equipment or any costs of labour performed by the purchaser or others without the company's written approval.

### **6. LIMITATION OF LIABILITY:**

(a) Company's liability in respect of any product sold by it to Customer shall be limited to replacement of product with the same or similar product or reimbursement of actual cost of the product paid by the Customer as per Company's invoice.

(b) In no event will the Company be liable for incidental, consequential, indirect, special, or punitive damages including, but not limited to, loss of use of the products, loss of goods, loss by reason of shutdown or non-operation, increased expenses of operation, or claims of Customer's customers, whether based on contract, warranty, tort (including, but not limited to, strict liability or negligence), or otherwise, even if advised of the possibility of such damages.

(c) In the event that the material sold hereunder is used in a nuclear facility, the Purchaser and/or the Owner etc. of the facility hereby releases and agrees to indemnify the company and/or its suppliers for any nuclear damage, occurring on or off the site, including personal injury, in any manner arising out of a nuclear incident whether alleged to the due in whole or in part to the negligence of the Company or its suppliers.

### **7. FORCE MAJEURE:**

In all cases where delay or failure in performance of this contract is directly or indirectly caused by or due to an act of God, war, mobilization/demobilization requisition by or interference from Government or Local Authorities, lockout, labour disturbance, trade disputes, unavailability or shortage of materials, fires, riots, strikes and/or civil commotion of any events or circumstances whatsoever beyond the control of the Company then in such case, the Company shall be entitled to an extension of time for performance of this contract for a period corresponding to the period of delay by or in consequence of the operation (in whole or in part) of any of the causes and/or consequences aforesaid so that the Company shall supply and the Purchaser shall accept (without any allowance) all goods, machinery and materials so affected so soon as they are ready and transit arrangement can



be made or at Company's sole option to cancel the contract and in such event the Company shall not be liable to Purchaser on any account.

**8. TERMINATION OF ORDER:**

This contract is not subject to cancellation except by mutual consent, in which case cancellation charges as determined by the Company will apply. For shipment of material not made within the stipulated schedule, a revised schedule shall be mutually discussed and agreed upon.

**9. ENTIRE AGREEMENT/ARRANGEMENT:**

This arrangement as it exists at the date of approval by the Company is the sole arrangement between the parties, and all previous communications between them either verbal or written shall be deemed to be of no effect whatsoever. This proposal, when duly accepted and approved, constitutes in all respects the entire agreement between the parties hereto and no modification thereof shall be binding upon the parties hereto or to either of them, unless it is in writing duly executed by the Purchaser and approved by an executive officer of the Company.

**10. GOVERNING LAW:**

This Agreement and any dispute, controversy, disagreement, difference or claim, arising out of, relating to or in connection with this Agreement will be governed and construed in accordance with the laws of India. The Parties agree that any legal proceedings shall be brought exclusively in the courts at Bangalore only. The Parties acknowledge that this Agreement was freely negotiated between commercial entities with the benefit of legal counsel.

**12. NO INDUCEMENTS:**

The parties hereto represent to each other and each agrees that, neither it nor any person acting on its behalf has, in contravention of any applicable law, given or offered to give, or will give or offer to give, any sum of money or other material consideration to any person, directly or indirectly, as an inducement to obtain business hereunder.

**13. DEFINITIONS:**

- a) Company means Ingersoll-Rand (India) Limited
- b) Customer/Purchaser means the Buyer