

To,  
**Sonhira Agro Pharmer Producer Company Limited**  
Mohityanche Vadgaon  
Tal- Kadegaon, Dist- Sangli

Kind Atten: **Mr. Dattatray Mohite (9970838703)**

**Subject: - CPA 10 HP 7 Bar TMD 300 & Min 45 CFM – Screw Compressor**  
**(A Division of ATLAS COPCO)**

**Ref: - As per Telephonic discussion**

Dear Sir,

We thankfully acknowledge the receipt of your valued enquiry. With reference to your requirement of Screw Air Compressor & our discussions, we are pleased to submit our offer for your requirement of Screw Air Compressor Model: **CPA 10 HP – 7 Bar - TMD 300 – (Fixed Speed) Screw Compressors suitable to deliver a Min Operational Flow of 45 CFM along with Pre-Filter Canopy System with Air Receiver 0.3 M3 @ 7 Bar, Original CP Refrigerated Air Dryer (For CPA 10 HP), FMO / FMM = Pre & Post Filters** for your kind reference and approval.

Hope you will find the above in line with your requirement and further in case of any clarification required kindly contact us.

Thanking you and assuring you of our best of attention & services at all the times.

**For Shree Engineering & Services,**

**Rohan Pawar**  
Cell No- 7350004299

**Specifications of Rotary Air-Cooled Electric Motor Driven  
Silenced Screw Compressor Model: CPA 10 HP (TMD 300)****Technical Data:**

Model	CFM	HP	Pressure (Bar)	End Conn.	Weight (Kg)	Noise Level dB (A)
CPA 10 TMD 300	45	10	7	½"	300	68

Dimensions (mm): - 1550 x 630 x 1340

**Compressor: -**

- One Single Stage, Rotary Screw Element Complete With,
- Dry Paper Type Suction Air Filter With Silencer
- Conveniently Located for Easy Replacement of Filter Element
- Un-loader With Integrated Regulating Valve for Load/Unload control System
- Simple Design with Only One Moving Part, Needs No Regular Adjustments
- Three-Way Solenoid Valve Required for Load/Unload Regulation of The Compressor
- Air / Oil Temperature Switch / Gauge.
- Air Oil Temperature at Element Outlet & To Shut Down the Compressor in Case of too High Element Outlet Air Temperature.
- Air Check Valve at The Element Discharge End.

**Air Oil Receiver Tank** Consisting of,

- Sight Glass for Oil Level Indication and Oil Filling Arrangement
- Minimum Pressure Valve to Close Off the Compressor from The Air Net When the Unit Is Stopped or Running Unloaded and To Maintain Required Air Pressure in The System for Proper Oil Lubrication.
- Safety Valve
- Gauge for Air Oil Receiver Pressure
- Oil Draining Arrangement
- Three Stage Air Oil Separation System

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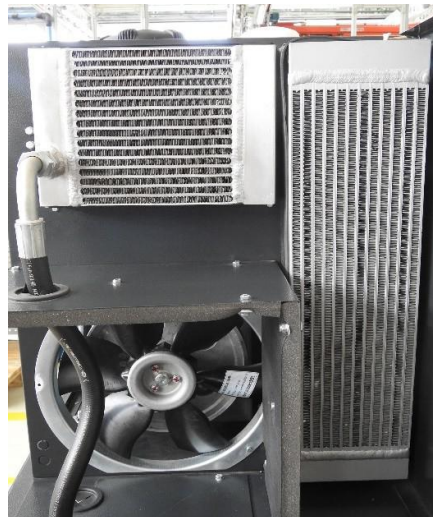
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Pune-411009 Phone no.020 24427713, 24424098

- First by Cyclonic Action (Centrifugal), Second by Gravitational (Heavier Particles Separate Down), Third by Passing Through Coalescent Filter

**Motor: -**

- CPA 10 HP = 7.5 KW, 2 Pole, Squirrel Cage Induction Motor with TEFC IP 55 Enclosure, Class F Insulation, Suitable For 45<sup>0</sup> C Ambient Temperature And 400 +/- 10% Volts, 3ph., 50 +/- 3% Hz Supply

**Air & Cooler Assembly**



- Air & oil cooler are compact block coolers of aluminum for optimum heat transfer.
- Lower Pressure drop & lower weight. After Cooler reduces the temperature of outlet air to approximately 8 to 10 degrees above ambient air temperature
- Oil filter mounted on Air oil cooler for filtration of lubrication oil
- Thermostatic Valve to regulate oil temperature within the system

**Acoustic Canopy & Drive Arrangement: -**

- Compressor Package Is Enclosed in A Powder Coated Acoustic Canopy with Sound Absorbing Material for Limiting the Noise Level. Canopy Is Pressurized Ensuring No Pressure Drop at Suction Filter And Avoids Entry for Dust Particles in The Element
  - Anti-Vibration Mounts Support Electric Motor and Compressor Unit and Isolate the Moving Components from Rest of The Structure, Thereby Reduces Sound Level and Avoids Need for Anchoring the Machine on Floor.
  - Cogged Belts and Pulley Drive Arrangement for Efficient Power Transmission, With Ease of Belts Removal & Tensioning.

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- Paper Flyer With "Ok" Indicating Sign Stuck at The Top Panel Air Exhaust to Indicate Correct Rotational Direction of Motor

**Pre-Filter Panel: -**

- Suitably sized Pre filtering arrangement for air entering the canopy of compressor unit. Easily removable for cleaning purpose.

**Power & Control Panel: -**

**Power Panel**

- Power panel incorporating suitable Star – Delta Starter with contactors, relays etc
- Single phasing preventer ensures safety of compressor by tripping in case of single phasing
- Emergency stop button

**Control Panel**

- Dial Indicators mounted on facia for “Discharge Air Pressure” & “Element Outlet Air Temperature”
- Hour Meter mounted on facia for indicating “Total running hours”

**ES 4000 “Energy Saving” Electronic Regulation & Monitoring System: -**



**Start, Stop & Reset Buttons (Feather touch contacts)**

- For starting, stopping & resetting the fault after necessary rectifications

- After pressing stop button, compressor runs idle for 30 seconds before ensuring that compressor never “stops” in load condition & reduces system temperature gradually.

#### **Compressor Status Indications**

- Voltage ON (Mains power ON)
- Compressor ON (Operational)
- Compressor running idle to switch off
- Compressor running on “LOAD”

#### **Compressor Warning & Shutdown Indications (LED Indications)**

- Element outlet air temperature high (Alarm & Trip)
- Single Phase (Alarm & Trip)

#### **The ES 4000 compressor management: -**

It allows considerable reduction in electricity consumption. The “intelligent” program of ES 4000 has the unique property of distinguishing between three types of air consumption.

#### **Brief Idling Period**

When Idle time < 4 minutes, it means “HIGH CONSUMPTION” of air, ES 4000 ensures Unloading (Idling) & Loading operation and avoids stopping – starting of electric motor

#### **Long Idling Period**

When Idle time > 4 minutes, it means “LOW CONSUMPTION” of air, ES 4000 ensures that when compressor reaches maximum set pressure, it idles for 30 seconds & it is placed in “STAND –BY” Mode.

#### **Intermittent Operation**

ES 4000 distinguishes between the consumption cycles & adjusts itself to the optimum mode. Switching over between HIGH & LOW cycles takes place automatically, based on a test of the last cycle performed.

#### **Air Outlet: -**

- Ball valve with ½” Female outlet connection

**Ready to commission compressor unit: -**

- The compressor unit can be directly put on the industrial floor & is provided with the first fill of oil and pre wired with power cable

**Accessories for the above Compressor: -**

- 1) **Air Receiver: 0.3 M3** Nominal Volume Vertical Air Receiver suitable for working pressure of **10 Bar**, conforming to IS 2825 with material of construction IS 2063 Gr. A complete with welded supporting stand, Inspection opening with cover, In / Out Flanged connection, 1 No. Pressure Gauge, suitably sized safety valve and manual drain valve.
- 2) **Refrigerated Air Dryer:** Refrigerated Air Dryer Suitable for Compressor Model: CPA 10 HP, Ambient Temperature 45°C, Air Inlet Temperature 45°C To Achieve Pressure Dew Point of 3°C  $\pm$  1°C, Complete with Necessary Instruments & Controls for Fully Automatic Operation with auto drain facility.
- 3) Compressed Air Filter - FMO & FMM oil removal filters: - **(Pre-Filter - Before Dryer)** - High Efficiency FMO Series compressed air filter suitable for Compressor Model: CPA 10 HP for general purpose protection, filtration up to 1 micron size, residual oil not exceeding 0.1 mg/m<sup>3</sup> complete with differential pressure indicator to indicate clogging of the filter element.
- 4) **(Post Filter – After Dryer)** - High Efficiency FMM Series compressed air filter suitable for Compressor Model: CPA 10 HP for general purpose protection, filtration up to 0.01-micron size, residual oil not exceeding 0.008 mg/m<sup>3</sup> complete with differential pressure indicator to indicate clogging of the filter element.

**CPA 10 HP 7 Bar TMD 300 & Min 45 CFM – Screw Compressor**

Sr No	Description	Qty	Discounted Price
1	Compressor Model CPA 10 @ 7 Bar – Fixed Speed Screw compressor along with “ES 4000 Micro Controller System”  <b>Air Receiver – 0.3 M3</b>  <b>Original CPX Refrigerated Air Dryer</b>  Pre-Filter Canopy Mesh Structure  <b>FMO / FMM = Pre &amp; Post Filters</b>	<b>1 No Comp. Package</b>	<b>Rs. 5,60,000/-</b>



**Scope of Supply: -**

- 1) **CPA 10 HP (7 Bar) – Average Min CFM output – 45 CFM respectively @ Min 10 bar Operating Pressure - Rotary screw compressor TMD Package along with ES 4000 Controller System for Efficient Power Management of compressor Package along with Pre-Filter Canopy System.**
- 2) **0.3 M3 Receiver @ 7 bar design tested up to 7.7 Bar & Hydro tested up to 11.55 Bar as per ISO & IBR Regulations with Safety Valve, Pressure Gauge & other accessories including Manual Drain Valve for efficient moisture removal.**
- 3) **Pre-Filter Canopy with Acoustic Canopy Arrangement – along with Double Trap Filtration System for dust & particle removal from inlet air.**
- 4) **ES 4000 Controller System** for efficient management of cut off & on along with better power savings through systematic air logic structures for ES 4000 Controller.
- 5) **Original CP Refrigerated Air Dryer – with Auto Drain Valve Facility & R – 134 Type A gas with 100% moisture removal capacity along with the “Float Type Auto Drain Valve” & + 3 Deg Digital PDP Indicator for effective moisture separation.**
- 6) **FMO / FMM = Pre & Post Filters, efficiency level = 99.981% & Oil Residual content < 0.008 mg/m<sup>3</sup> after Post Filter (Class 1 Air as per ISO 8573-01) – Technically 100% Oil Free Air for Instrument Grade Application**

**Terms & Conditions: -**

- ✚ Price: - Ex- Pune
- ✚ P&F- 1%
- ✚ GST: - 18% GST (For Compressor Package)
- ✚ Payment: - 100 % Advance against Proforma Invoice
- ✚ Delivery: - ex-stock
- ✚ Transportation: - At your Account
- ✚ Validity: - 30 Days

Note:- 1. 1 Year Service Warranty from date of dispatch.  
2. Commissioning will be in our scope.

**Price Includes: -**

Commissioning, First Fill of Original CP Roto Air Oil, 1 Year Standard warranty for the package, Manual Drain Valve for the receiver along with the Safety Valve & pressure gauge, Auto Drain Valve for CPX Dryer, Pre-Filter Canopy System for the package



**SE&S/UNIT/RP-696/2022-23**

**29.01.2022**

Thanking You,

**For Shree Engineering & Services,**

**Rohan Pawar**

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