

# ULTRA-I

## Zero Emission Air Compressor and Chemical Pump

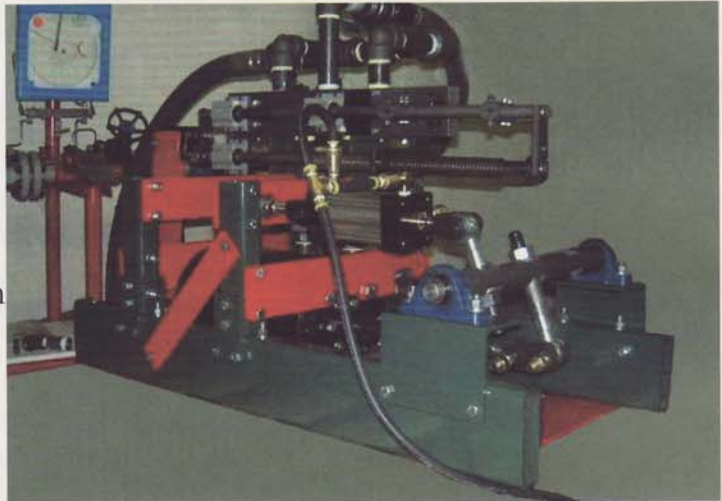
Stellar Tech is proud to introduce the **Zero Emission** air compressor and chemical injection Pump.

### What's it Purpose?

The **Ultra-I** is designed to produce compressed air at gas well sites where electricity is not available. The existing pneumatic instrumentation are then operated by air rather than gas or propane.

### How does it Work?

Stellar Tech **Ultra-I** gets its energy from the gas flow line to drive a reciprocating piston. The gas remains in the system and is returned to the flow line with **no venting to the atmosphere**. No venting means no loss of revenue and/or possible damage to the environment.



This rugged, low maintenance system comes equipped with a **back-up system**. In the event of a planned or unplanned shut down of the **Ultra-I**, the back-up system will automatically purge the lines with Nitrogen and turn on the gas or propane source to keep the well operating. Production is not interrupted.

The system's critical operating components are readily accessible. Therefore any required maintenance to the system can be carried out by your field personnel.

The **Ultra-I** has a variety of configurations to insure that your compressed air requirements and pump capacities are sufficient to properly operate your well. The differential pressure required to operate the **Ultra-I** is very low and can usually be found at the well site with no need to further impact the wells production. (See back of brochure for specifications)

For more information on the **Ultra-I** please contact:

# Stellar Tech Ultra-I Specifications

**Maximum Wellhead Operating Pressure** – 1500psi

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**Sour Gas Rating** – up to 15% H<sub>2</sub>S

**Dimensions:**

Width – 22inches  
Length – 48inches  
Height – 30inches



**Air Production Capacity:**

**Model Ultra-IA:**

At 60 strokes/minute, at 30psi pressure – **2100scf/day** – Required differential **2-3psi**  
At 70 strokes/minute, at 40psi pressure – **2600scf/day** – Required differential **4-5psi**.  
At 75 strokes/minute, at 60psi pressure – **3000scf/day** – Required differential **6-7psi**  
At 80 strokes/minute, at 80psi pressure – **3300scf/day** – Required differential **7-8psi**

**Model Ultra-IB**

At 60 strokes/minute, at 30psi pressure – **3600scf/day** – Required differential **5-6psi**  
At 70 strokes/minute, at 40psi pressure – **3800scf/day** – Required differential **7-8psi**  
At 75 strokes/minute, at 60psi pressure - **4000scf/day** – Required differential **10-11psi**  
At 80 strokes/minute, at 80psi pressure – **4200scf/day** – Required differential **12-13psi**

**N.B. Other design configurations are available as required.**

**Pump Capacities:**

**Note:** The Ultra-I is designed so that air generation and pump activity do not peak at the same time. Therefore the need for a greater psi differential is usually not required when the system is performing both tasks. However, the psi differential required for the pumping activity, is determined by the line pressure that the pump is working against.

**Standard 1inch Plunger Pump Maximum Capacity:**

At 60 strokes/min – **25 liters/hr**  
At 70 strokes/min – **30 liters/hr**  
At 75 strokes/min – **32 liters/hr**  
At 80 strokes/min – **33 liters/hr**

**1 ½ inch Plunger Pump Maximum Capacity**

At 60 strokes/min – **35 liters/hr**  
At 70 strokes/min – **40 liters/hr**  
At 75 strokes/min – **43 liters/hr**  
At 80 strokes/min – **46 liters/hr**

**Note:** The pump stroke length is adjustable to set the output rate as required.

**Other pump sizes are available as required.**