

CHATHAM COUNTY PURCHASING DEPARTMENT

ADDENDUM NO. 1 TO BID# 22-0008-5

**FOR: REPLACEMENT OF AN AIR COMPRESSOR AND ASSOCIATED EQUIPMENT
AND CONTROLS FOR THE CHATHAM COUNTY DETENTION CENTER**

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**PLEASE SEE THE FOLLOWING ADDITIONS, CLARIFICATIONS AND/OR
CHANGES:**

1. **Change:** Due to no attendance, this will no longer be a mandatory Pre-Bid Conference and anyone qualified can submit a response.
2. **Clarification:** Please see attached specifications for the Kaeser Air Compressor and components.

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**BID DUE DATE WILL REMAIN 2:00PM
FEBRUARY 16, 2022**

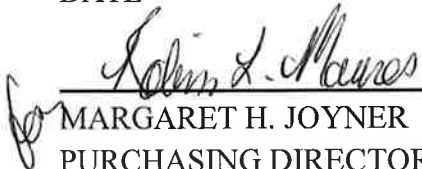
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BIDDER IS RESPONSIBLE FOR MAKING THE NECESSARY CHANGES.

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February 8, 2022

DATE



MARGARET H. JOYNER
PURCHASING DIRECTOR
CHATHAM COUNTY

KAESER rotary screw compressors

Type: AIRTOWER 5C (air-cooled)

SXC complete system

The **AIRTOWER 5C** is an all-in-one compact compressed air supply system: As the saying goes, "Just plug and play". The rotary screw compressor, refrigeration dryer and air receiver are #hidden beneath the SXC's double-skinned roto-moulded polyethylene enclosure to create a single turnkey unit. The complete system delivers outstanding energy efficiency, ease of maintenance, durability and perfectly matched components to ensure years of dependable, cost-effective service. The SXC is the ideal choice for users in the trades and workshop sector who require a dependable supply of quality compressed air from a highly compact compressed air system.

Technical specifications (Performance parameters at **125 psig gauge working pressure**, relative to the entire system, including fans. In accordance with ISO 1217:2009 Annex C.)

Flow rate at 125 psig(g)	21.19 cfm
Power consumption of entire system at 125 psig(g)	5.1 kW
Max. gauge pressure	125 psig
Drive motor efficiency, full load	88.5 %
Drive motor efficiency class	IE3
Drive motor rated capacity	5.0 hp
Drive motor speed	3520 rpm
Drive motor protection rating	IP 54
Electrical supply	208/230/460V / 3 / 60Hz
Compressed air discharge temperature above ambient temperature (at 68°F, 30% rel. humidity)	
Sound pressure level	70 dB(A)

Specifications are subject to change without notice.

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Technical specifications - Type: AIRTOWER 5C

Pressure loss, refrigeration dryer	2.6 psi
Pressure dew point at ambient temperature 68°F, rel. humidity 30%	43 °F
Refrigerant	R-513A
Refrigerant charge	0.55 lb
Global warming potential (GWP)	631
CO2 equivalent	0.16 t
Internally-coated air receivers	215 l
Compressed air connection	3/4 NPT
Cooling oil charge	0.7 US gal
Compressor cooling oil type	SIGMA FLUID M-460
Dimensions (W x D x H)	24.375 IN x 38.625 IN x 58.250 IN
Weight	639 lb

Specifications subject to change without notice.

Available options

Bolt-down machine feet

Compressor cooling oil type

Project planning note:

Please note that additional compressed air treatment components may be required for your proposal. Compressed air always contains a certain amount of solid matter/dust, moisture and residual oil content (hydrocarbons in aerosol/vapour form). Depending on the application, a certain standard of treatment may be required (see ISO 8573). We will be pleased to provide further advice and information.

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Technical specifications - Type: F8KE

Standard equipment:

Corrosion-protected aluminium enclosure	Standard
Locking screw for faultless opening and closing	Standard
Differential pressure gauge (mechanical)	Standard
Flow-optimized element head	Standard
Large filter surface area thanks to deep-fold filter media	Standard
Stable, surface-treated polyester drainage layer	Standard
Stable element frame made from a perforated stainless steel plate	Standard

Options:

Differential pressure monitoring	Pressure diff. gauge
Wall bracket kit	
Silicone-free version (VW factory standard 3.10.7)	No
Special paint, filter bowl	

Project planning note:

- Please note that additional compressed air treatment components may be required for your proposal. Compressed air always contains a certain amount of solid matter/dust, moisture and residual oil content (hydrocarbons in aerosol vapour form). Depending on the application, a certain standard of treatment may be required (see ISO 8573). We will be pleased to provide further advice and information.

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KAESER FILTER

Typ: F6KE - KE - Extra

Maintenance-friendly, low-cost clean air.

KAESER FILTERS are key to the preparation of compressed air to all ISO 8573-1 purity classes, and they perform their role with very low pressure differentials. Their maintenance-friendly design means it is easy to correctly open and close the filter housing, enabling the filter element to be changed quickly and with the minimum of fuss.

Technical Data (performance parameters at 100 psi operating pressure, based on 14.5 psi(a) and 68 °F. Aerosol test concentration 10 mg/m³)

Flow rate	21.2 cfm
Pressure differential as new (dry)	<2.9 psi
Initial pressure differential when saturated	<2.03 psi
Maximum residual aerosol content	<0.01 mg/m ³
Operating pressure, max./min.	232 psig / 30 psig
Ambient temperature max./min	122 °F / 38 °F
Compressed air inlet temperature	38 °F / 150 °F
Compressed air connection	1/2 NPT
Condensate drain version	Automatic
Dimensions (W x D x H)	6.102 IN x 3.425 IN x 14.094 IN
Weight	8 lb

Subject to alteration without notice!

Application:

For use downstream from compressed air drying. For removal of aerosols and solid particles for high compressed air quality.

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Kaeser Condensate Filter (KCF)**Models:****KCF 25, KCF 50, KCF 100, KCF 200, KCF 400**

Maximum Pressure at Inlet	232 psig
Maximum Ambient Air Temperature	140 °F
Minimum Ambient Air Temperature	41 °F
Estimated Weight	KCF 25 7.7 lbs, KCF50 12.7 lbs KCF100 19.5 lbs, KCF200 70.5 lbs KCF400 92.6 lbs
Number of Inlet Connections:	2 (KCF 25, KCF 50, KCF 100) 4 (KCF 200, KCF 400)

Kaeser Condensate Filter designed for the performance specified herein and including the following standard features and accessories:

- Lightweight - easily handled and positioned for filling
- Crafted of rotation-molded polyethylene
- Uses coated polypropylene absorbent technology
- Single absorbent cartridge incorporates two-stage separation
- Self-contained single element is easily replaced and suitable for landfill disposal
- Typical cartridge life is 6 months. Compressor type, lubricant, and ambient conditions affect service life.
- Condensate can be discharged under pressure into the unit
- No electricity required
- No hard piping required
- No moving parts
- Water purity sampling port with shut-off valve on models 25, 200, and 400

Maintenance

- Easily removable lid
- Filter cartridges are equipped with lifting handles
- Disconnecting of inlet lines not required for filter change

Options

- Immersion heater with thermostat for low ambient installations
- High pressure relief chamber (up to 580 psig at inlet)
- High condensate level alarm
- Flow splitter that permits the simultaneous use of up to four parallel piped units for large air flow applications

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