

# Spare Parts

Carrie Orbaker

Controller

September 14, 2021



# Recommended Spare Parts

1. Consumables
2. General Maintenance
3. Critical Emergency Repairs
4. Non-Critical Component Replacement
5. Five (5) Year Maintenance

# Level 1 Consumables

- Gaskets
- O-rings
- Seals
- Filters (all types)
- Pump Rebuild Kits\*
- Tubing
- Ammonia Scrubbers
- Ammonia Converters

# \* Analyzer Pump Rebuild Kits

What is the only way to be sure to get the kit you need?



LOOK AT THE STICKER ON THE PUMP!

# Now Available

## Complete Probe Maintenance Kits



**28500051-1**

**COMPLETE HIGH TEMP PROBE KIT**  
CONTAINS: (1) OUTER GASKET, (1) INNER  
GASKET, (3) MANIFOLD GASKETS & (1) FILTER  
DISC



**28500084-3**

**COMPLETE LOW TEMP PROBE KIT**  
CONTAINS: (1) OUTER GASKET, (1) INNER  
GASKET, (3) O-RINGS & (1) FILTER DISC



# Level 2

## General (Corrective) Maintenance

- Bulbs
- Fuses
- Membrane Dryer Elements
- Air Dryer Desiccant Towers
- Analyzer Components  
(capillaries, sensors, o-rings)

# Level 3

## Critical Emergency Repairs

- PLCs
- Network/Comm Equipment  
(Switches, Converters, Fiber Modules)
- Power Supplies
- Relays
- Temperature Controllers
- Regulators
- Pumps
- Valves

# Level 4

## Non-Critical Component Replacement

- Air Dryers
- Membrane Dryers
- Gauges
- Flowmeters
- Flow Switches
- Pressure Switches



# Level 5

## Five Year Maintenance

- Thermoelectric Coolers
- OIT Panels
- Analyzers
- Opacity Monitors
- Heated Sample Lines

# Cost of Spare Parts by Level

Level	Cost
1	\$2,386
2	\$4,891
3	\$26,954
4	\$6,275
5	\$50,052
	<b>\$90,558</b>

# Ordering Spare Parts

- We Keep Most Level 1, 2 and 4 Items in Stock
- Orders for Items in Stock Usually Ship in 1 to 2 Days
  - Email RFQs and POs to:

[orders@ciscocems.com](mailto:orders@ciscocems.com)