

APEKS CO₂ EXTRACTION SERVICE PLANS



Maintain your system so you can keep extracting! We offer Service Plans for each system, so you have peace of mind knowing that your system will always operate at optimal parameters.

- Keep your system running smoothly and keep extracting!
- Extend the life of your equipment when you purchase a 12 month preventative maintenance plan.
- Never miss a required maintenance on your system.
- Ensure your stock of consumables is always on hand.
- Take the guesswork out of when you need a tune up.

- The cost of the plan is less than the cost and inconvenience of downtime, and far cheaper than calling us out when you need us!
- 1-year warranty is guaranteed when service items are performed by an Apeks Supercritical technical engineer.
- Covers administrative items, chiller check, diaphragm compressor, the mechanical extraction system, and all electrical components.
- Service visits at 2,000 and 4,000 hours.
- Retroactive plans available!

2,000 HOURS



Administrative

1. Standard deviation analysis
2. Inventory spare parts kit
3. Check component and valve labels are present
4. Check electrical drawings are present
5. Diaphragm Compressor
6. Oil and filter change
7. Clean compressor check valves and replace O-rings if needed
8. Torque check the valve retainer
9. Inspect all hoses, fittings for leaks
10. Verify diaphragm compressor belt tension, alignment and condition
11. Check diaphragm compressor OPV setting
12. Leak check valve stems
13. Torque check compressor head
14. Check pump RPM
15. Motor temperatures
16. Motor end bell cleaning
17. Motor heat sink cleaning
18. Sheave bolt torque check
19. Oil pressure in operating conditions
20. Compressor check, fitting leaks
21. Check insulation on hot CO₂ line
22. Inspect components in compressor: mounting, rubber/bolted to the floor



Electrical

1. Inspect wire connections in the control panel and junction boxes
2. Measure voltage and current in operating conditions
3. Verify e-stop functioning properly
4. Software update if available
5. Pressure transducer calibration check
6. Thermocouple calibration check
7. Transducer cable damage check
8. Thermocouple cable damage check
9. I/O function check
10. Check control power voltage
11. Check internet connectivity
12. Check motor lug tightness (inside peckerhead)
13. Check indicator light test
14. Check motor lug tightness (inside peckerhead)
15. Check indicator light test



Chiller

1. Check coolant level in chiller
2. Check glycol percentage in chiller
3. Inspecting and cleaning chiller air filters
4. Inspecting and cleaning chiller water filter



Mechanical/Extraction Side

1. Check vessel closures
2. Torque check the valve couplings set screw
3. Inspect all hoses, fittings for leaks
4. Leak check valve stems
5. Check system levelling feet
6. Inspect extraction vessel filters
7. Inspect 40- and 10-micron filter/O-rings
8. Inspect separator closure clamps
9. Replace separator sanitary clamp nut
10. Inspect orifice threads
11. Replace separator gaskets
12. Air compressor water drain
13. Air compressor regulator adjustment
14. Pilot valve seating/leaks check
15. Cup seal condition check
16. Check air operated ball valve indicator
17. Check that the correct PRV is in each location
18. Check that the lock wire is intact on PRV
19. Check that the jam nut is okay
20. Inspect vacuum pump
21. Inspect vacuum gauge
22. Check CO₂ vent line condition; connected properly and secured
23. Check valve torque
24. Check hose clamps where appropriate
25. Inspect manual pressure gauges and liquid level
26. Inspect frame welds
27. Inspect vessel welds
28. Inspect and exercise all manual valves

page 1 of 2... cont. over

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4,000 HOURS

At 4,000 hours, your system receives all the items from the 2,000 hours service, plus:



Chiller

1. Inspect coolant in chiller



Liquid Pump

1. 5kDP only – packing
2. 5kDP only – gear oil



Diaphragm Compressor

1. Rebuild diaphragm compressor
2. Motor lubrication



Mechanical Extraction Side

1. Inspect valve seals
2. Make up bottle check valve inspection

System	Cost	System	Cost
The Bambino®	\$8,400/year	The Transformer®	\$10,800/year
The Duplex®	\$14,400/year	The Force®	\$18,000/year

**IT PAYS TO KEEP YOUR CO₂ EQUIPMENT IN GOOD SHAPE!
PROTECT YOUR INVESTMENT AND IMPROVE OUTPUTS WITH OUR ANNUAL
MAINTENANCE AND SERVICE PLANS. CHOOSE ONE OF OUR SERVICE PLANS AND
AVOID ANY COSTLY DISRUPTIONS TO YOUR OPERATION.**

Call us (740) 809-1160
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