

**POWER SYSTEMS**  
**EQUIPMENT TEST LIST**  
**FOR**  
**AIR DRYERS, COMPRESSORS,**  
**COMPRESSOR-DEHYDRATORS, DEHYDRATORS,**  
**AND WAVEGUIDES**

SEE SECTION 010-300-011 FOR EQUIPMENT TEST LIST INSTRUCTION.

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
161-305-701	5		AIR DRYERS KS-16432 LISTS 1 AND 2			
		4.06	-4.09 Cleaning	MW	M	
		4.10	Air Compressor			
		A	Operation	MW	W	
		B1	Weekly Lubrication Requirements	MW	W	
		B2	Quarterly Lubrication Requirements	MW	3M	
		C	Air Filter	MW	3M	
		D	Drive Belt	MW	W	
		E	Breather Valve-L1 Only	MW	W	
		F	Suction Unloader and Discharge	MW	6M	
		4.11	Air Compressor Motor			
		A	Lubrication	MW	12M	
		B	Grounding	MW	12M	
		4.12	Check Valve on Compressor Discharge Line	MW	6M	
			L1 Dryer Only			
		4.13	Safety Valve	MW	3M	
		4.14	Pilot Unloader			
		A	Operation Check	MW	6M	
		B	Adjustments	MW	6M	
		C	Cleaning Procedure	MW	6M	
		4.15	Water Ejector	MW	6M	
		4.16	Water Drain Strainer	MW	3M	
		4.17	Water Drain Outlet	MW	3M	
		4.18	Tank Draining	MW	W	
		4.19	Pressure Regulator	MW	W	
		4.20	Air Pressure Alarm			
		A	High Pressure Alarm	MW	3M	
		B	Low Pressure Alarm	MW	3M	
		C	Alarm Operation Check	MW	3M	
		D	Alarm Adjustment	MW	3M	
		4.21	Humidity-Sensing Element	MW	3M	
		4.22	Humidity Alarm	MW	3M	
		4.23	Tank Temperature	MW	W	
		4.24	Refrigeration Thermostat	MW	3M	
161-307-701	3		AIR DRYER KS-16523			
		4.06	-4.09 Cleaning	MW	3M	
		4.10	Air Compressor			

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
161-307-701	3		(Cont)			
		A	Operation			
		B1	Weekly Lubrication Requirements	MW	W	
		B2	Quarterly Lubrication Requirements	MW	3M	
		C	Air Filter	MW	3M	
		D	Drive Belt	MW	W	
		E	Suction Unloader and Discharge Valves	MW	6M	
		4.12	Safety Valve	MW	3M	
		4.14	Pilot Unloader			
		A	Operation	MW	6M	
		B	Adjustments	MW	6M	
		C	Cleaning	MW	6M	
		4.15	Water Ejector	MW	6M	
		4.16	Water Drain Outlet	MW	3M	
		4.17	Tank Drainage	MW	W	
		4.18	Pressure Regulator	MW	W	
		4.19	Pressure Alarm	MW	3M	
		4.20	High Pressure Alarm	MW	3M	
		4.21	Low Pressure Alarm	MW	3M	
		4.22	Pressure Alarm Operation	MW	3M	
		4.23	Pressure Alarm Adjustment	MW	3M	
		4.24	Humidity Sensing Element	MW	3M	
		4.25	Humidity Alarm	MW	3M	
		4.26	Refrigeration System			
		1	Tank Temperature	MW	W	
		2	Refrigeration Thermostat	MW	3M	
161-315-801	1		"D" TYPE AIR DRYER			
ADDENDUM	1	2.04				
		2-3	Drain Condensate and Replace Silica Gel in Tower	MW	#	
		4	Replace Piston Rings, Ring Spring, Valve Gaskets, and Intake Exhaust Valve	MW	12M	
		5	Clean B-310 Filter Screen and Replace B-288 Filter Element	MW	#	
		7	Check Humidity Alarm	MW	#	
		8	Check Heat Exchanger Temperature and Pressure Cycle	MW	#	

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
161-315-801	1		(Cont)			
		9	Check Output Air Pressure	MW	#	
		10	Check for Leakage	MW	#	
			# The frequency of these items is			
			determined by the daily average air			
			delivery of the dryer.			
161-320-701	3		DE VILBISS COMPRESSOR KS-7491			
		2.02	Lubrication			
		A	Replace Oil in Compressor Crankcase	MW	12M	
		B	Oil Wheel Bearings	MW	12M	
		C	Lubricate Motor Bearings	MW	12M	
		2.03	Flush Crankcase	MW	12M	
		2.04	Drain Condensers During Operation	MW	2H	
		2.05	Clean Air Filter During Operation	MW	D	
		2.06	Check Belt Tension	MW	12M	
		2.07	Check Air Pressure During Operation	MW	D	
		2.08	Check Safety Valve During Operation	MW	D	
		2.09	Check Pilot Unloader During Operation	MW	D	
		2.11	Motor Speed	MW	3M	
		2.13	-2.15 Brush Requirements	MW	12M	
		2.16	Temperature	MW	12M	
		2.17	Recondition Motor	MW	3Y	
161-330-701	3		COMPRESSOR SET KS-14514 LIST 1			
		2.02	Lubrication			
		A	Replace Compressor Crankcase Oil	MW	12M	
		B	Lubricate Wheel Bearings	MW	12M	
		C	Lubricate Motor Bearings	MW	12M	
		2.03	Flush Crankcase	MW	12M	
		2.04	Water Trap			
		A	Water Trap Fig. 2 Drain During Use	MW	H	
		B	Water Trap Fig. 3 Drain During Use	MW	D	
		C	Airstream, Check During Use	MW	D	
		2.05	Check Air Inlet Filter During Use	MW	D	
		2.06	Check Belt Tension	MW	12M	
		2.07	Check Air Pressure During Operation	MW	D	
		2.08	Check Safety Valve During Operation	MW	D	
		2.09	Check Pilot Valve Unloader During Use	MW	D	

## EQUIPMENT TEST LIST

B.S.P.	ISS	TEST OR REQ.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
161-330-701	3		(Cont)			
		2.10	Motor Speed	MW	3M	
		2.11	Temperature	MW	12M	
		2.13	Recondition Motor	MW	3Y	
161-350-701	3		COMPRESSOR DEHYDRATOR KS-14155 L1 AND DEHYDRATOR KS-14155 L2			
			Note: If the L1 Compressor-Dehydrator Is Equipped With a Gardner-Denver Model VIC33S Compressor Unit, All Requirements in Part 2 Shall Be Superseded by 161-352-701 Part 2.			
		2.02	Lubrication			
		A	Compressor Crankcase Oil Check	MW	W	
		B	Lubricate Motor	MW	3M	
		2.04	Change Crankcase Oil	MW	3M	
		2.05	Drain Air Tank	MW	W	
		2.06	Replace Air Inlet Filter Pads	MW	6M	
		2.07	Check Tank Pressure Control Switch List 1 Compressor-Dehydrator	MW	3M	
		2.08	Check Air Pressure Generated	MW	3M	
		2.09	Check Safety Valve Operation	MW	3M	
		2.10	Check Drive Belt Tension	MW	3M	
		2.11	Drain Air Tank List 2 Dehydrator	MW	W	
		2.12	Check Tank Pressure Control Switch List 2 Dehydrator	MW	3M	
		2.13	Operation of Intermediate Pressure Regulator	MW	3M	
		2.14	Drain Air Filter	MW	W	
		2.15	Replace Filter Tube in Air Filter	MW	12M	
		2.16	Operation of Cylinder Relief Valve	MW	2Y	
		2.17	Operation of Cycling Timer	MW	3M	
		2.18	Operation of Reactivation Timer	MW	3M	
		2.19	Operation of Tank Pressure (TK) Alarm	MW	3M	
			Serial Numbers 60 or Higher			
			Note: If Equipped With a Gardner-Denver Model VIC33S Compressor, BSP			
			161-352-701 Part 2 Applies.			

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
161-350-701	3		(Cont)			
		2.20	Operation of Intermediate Pressure Alarm	MW	3M	
		2.21	Operation of Cable Pressure Regulator	MW	W	
		2.22	Operation of Cable Pressure Relief Valve	MW	3M	
		2.23	Operation of Low Cable Pressure Alarm	MW	W	
		2.24	Operation of High Cable Pressure Alarm	MW	W	
		4.05	Humidity Alarm Test	MW	3M	
		4.06	Visual Humidity Indicator	MW	W	
		4.08	Testing Inoperative Valves	MW	3M	
		4.09	Testing Leaking Valves	MW	3M	
161-352-701	2		COMPRESSOR DEHYDRATOR KS-16321 List 1 AND DEHYDRATOR KS-16321 List 2			
		2.02	Compressor Crankcase Oil Check	MW	W	
		2.04	Change Crankcase Oil	MW	3M	
		2.05	Drain Cooling Chamber and Air Storage Tank	MW	W	
		2.06	Examine Air Inlet Filter	MW	3M	
		2.07	Operation of Tank Pressure Control Switch	MW	3M	
			KS-16321 List 1 Compressor Dehydrator			
		2.08	Operation of Check Valve	MW	3M	
		2.09	Check Air Pressure Generated	MW	3M	
		2.10	Check Safety Valve Operation	MW	3M	
		2.11	Check Drive Belt Tension	MW	W	
		2.12	Drain Air Storage Tank	MW	W	
		2.13	Operation of Tank Pressure Control Switch	MW	3M	
		2.14	Operation of Tank Pressure Alarm	MW	3M	
		2.15	Drain Intermediate Pressure Regulator	MW	W	
		2.16	Operation of Intermediate Pressure Regulator	MW	3M	
		2.17	Operation of Cycling Timer	MW	12M	
		2.18	Operation of Reactivation Timer	MW	12M	
		2.19	Operation of Cable Pressure Regulator	MW	W	
		2.20	Operation of Lower Cable Pressure Alarm	MW	W	
		2.21	Operation of High Cable Pressure Alarm	MW	W	
		4.04	Humidity Alarm Test	MW	3M	
		4.09	Check Solenoid Valves	MW	3M	
		4.10	Check Cable Pressure Gauge	MW	3M	

EQUIPMENT TEST LIST						
B.S.P.	I S S	TEST OR REQT.	EQUIPMENT AND WORK DESCRIPTION	CLASS	FREQ.	JOB NO.
161-370-301	4		KS-16001 L1, L2, AND L3 DEHYDRATORS AND WAVEGUIDE ALARMS			
		4.03	<i>Pressure Switch</i>	<i>MW</i>	<i>3M</i>	
		4.04	<i>Humistat and Sensing Element</i>	<i>MW</i>	<i>3M</i>	
		4.05	<i>Tower Heater Circuit</i>	<i>MW</i>	<i>6M</i>	
		4.06	<i>Waveguide and Antenna Alarm Pressure Switch</i>	<i>MW</i>	<i>3M</i>	
161-370-701	2		KS-16001 L1, L2, AND L3 DEHYDRATORS AND WAVEGUIDE ALARMS			
		2.01	<i>Lubrication</i>			
		(1)	<i>Blower Motor Bearings</i>	<i>MW</i>	<i>12M</i>	
		(3a)	<i>Valve Drive Motor Bearings</i>	<i>MW</i>	<i>12M</i>	
		(3b)	<i>Valve Drive Motor Gear Box-Check Oil Level</i>	<i>MW</i>	<i>6M</i>	
			<i>Replace Oil</i>	<i>MW</i>	<i>5Y</i>	
		(4)	<i>4-Way Valves</i>	<i>MW</i>	<i>3M</i>	
		2.03	<i>Mechanical Inspection</i>	<i>MW</i>	<i>12M</i>	
		2.05	<i>Change Air Filters</i>			
			<i>Carbon Filter</i>	<i>MW</i>	<i>24M#</i>	
			<i>Filter Down</i>	<i>MW</i>	<i>6M#</i>	
			<i>#Shorter Change Interval May Be Required Where Air Pollution is Heavy</i>			
		2.06	<i>Replace Timer</i>	<i>MW</i>	<i>5Y</i>	
		2.07	<i>Replace Sensing Element</i>	<i>MW</i>	<i>12M</i>	
		2.08	<i>Replace Blower Motor</i>	<i>MW</i>	<i>4Y</i>	
161-371-701	2		DELAY LENS ANTENNA WAVEGUIDES			
		2.02	<i>Check Waveguide Pressure</i>	<i>MW</i>	<i>3M</i>	
		2.03	<i>Check Pressure Alarm Switch</i>	<i>MW</i>	<i>3M</i>	
161-372-301	3		KS-16153 DEHYDRATOR AND ASSOCIATED WAVEGUIDE			
		4.03	<i>Pressure Switch</i>	<i>MW</i>	<i>3M</i>	
		4.04	<i>Humistat and Sensing Element</i>	<i>MW</i>	<i>3M</i>	
		4.05	<i>Tower Heater Circuit</i>	<i>MW</i>	<i>6M</i>	
		4.06	<i>Waveguide and Antenna Alarm Pressure Switch</i>	<i>MW</i>	<i>3M</i>	
161-372-701	2		KS-16153 DEHYDRATOR AND ASSOCIATED WAVEGUIDE			
		2.01	<i>Lubrication</i>			
		(1)	<i>Blower Motor Bearings</i>	<i>MW</i>	<i>12M</i>	
		(2a)	<i>Valve Drive Motor</i>	<i>MW</i>	<i>12M</i>	
		(2b)	<i>Valve Drive Motor Gear Box-Check Oil Level</i>	<i>MW</i>	<i>6M</i>	
			<i>Replace Lubricant</i>	<i>MW</i>	<i>5Y</i>	

