Thermal Test Fire Report - LMV51 Gas

Fulton

National Board # 8177 **Date** 2013-06-11 **Tested By** Kyle Beckwith **Drawing No.** T53-0019 **Model** FT-0120-C **Order #** 474533
Customer Repco Inc.

Fuel Type	Gas	**On/Off**	No	**Mod Outlet**	Yes	**Mod Inlet**	No	**UL Pilot**	Yes
Dual Fuel Pilot	No	**Temp Control**	LMV51	**Unit Rerated**	No	**Max Output**	1.2 M	**Burner Size**	FT-160-C
Electrode Used	ul	**Orifice Spacers Used**	2-20-177	**Orifice Size/# Used**	0.0520/3	**Flame Detection**	IR	**Spark Pickup**	0%
Blower Size	8 3/8 X 2 1/2 X 1 1/8"			**Air Pickup Used**	0"	**Flame Safeguard**	LMV51	**Lonox**	No
Main Flame Signal	98.%	**Main Regulator**	RV81	**Main Reg Color**	Green	**Main Depth**	5/8"		
Pilot Signal	97.6%	**Pilot Regulator**	RV48	**Pilot Reg Color**	Blue	**Pilot Depth**	.6"		
Pilot Gas Pressure	7.5"wc	**Gas Train Leak Test**	Yes	**Incoming Gas Pressure**	14.0inches				

Pilot Air Required	100% Open	**Main Gas Butterfly Opens**	0.0 to 90.0 Open (degrees)	**Oil Nozzle Size & Angle**		**Mod Oil Valve**
Main Air Adjustment	100% Open	**Mod Air Damper Opens**	0.0 to 60.0 Open (degrees)	**Oil Pump Model**		
Secondary Air Adjustment	0% Open	**Mod Oil Valve Setting**	0.0 to 0.0 Open	**Water Outlet Temp**	219	

	Purge	Low Fire	High Fire
Fuel Pressure at Burner	XXXXXX	1.4 "	4.1 "
Over Burner Pressure	3.5 "	1.3 "	3.5 "
Under Burner Pressure	0.3 "	0.3 "	1.1 "
Fuel Input Measured	XXXXXX	12.5 CFM	24.9 CFM
Oil Pump Pressure	0.0 PSI	0.0 PSI	0.0 PSI
Mod Oil Valve Pressure	XXXXXX	0.0 PSI	0.0 PSI

Blower Motor Amp Draw	**A** 2.0 amps	**B** 2.0 amps	**C** 2.0 amps	**Hp/Volt**	3 HP/460Volts	**Blower Motor Overload** Yes
Fuel Oil Motor Amp Draw	**A** 0.0 amps	**B** 0.0 amps	**C** 0.0 amps	**Hp/Volt**	HP/0Volts	**Fuel Oil Motor Overload**

Stack Limit Tested	NA	**Flow Circuit Tested**	Yes	**Air Switch Tested**	Yes	**Air Filter Switch Tested**	Yes
High Gas Press Switch Set	6 "	**Low Gas Press Switch Set**	2 "	**High Gas Press Switch Test**	Yes	**Low Gas Press Switch Tested**	Yes
Auxilary Motor Starter Tested	Yes	**Lop Switch Tested**	NA	**Temp Limit Tested**	Yes	**Test Jumper Removed**	Yes

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Gas

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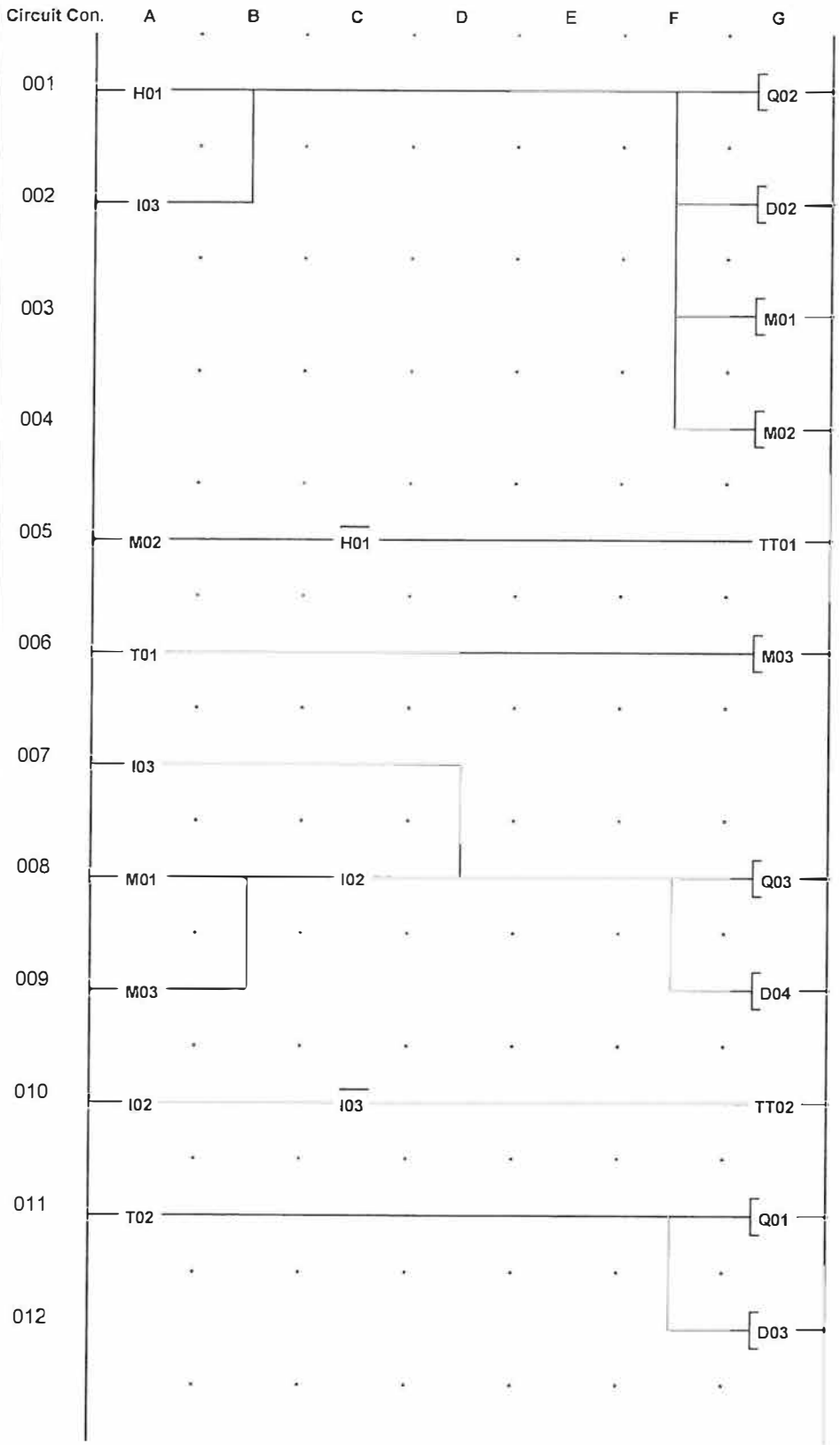
GAS VALUES	Load %	Gas Servo	Air Servo	O2	CO2	CO	UB	OB	LE	CFH
	%	degrees	degrees	%	%	ppm	inches WC	inches WC	inches WC	cfh
Close		5.0	5.0							
Purge		5.0	55.0							
Ignition		24.5	4.5							
Point 1	0	24.5	6.0	7.1%	7.7%	2.0 ppm	0.30"	1.30"	1.40"	750.0cfh
Point 2	10	25.8	7.5	6.8%	6.8%	2.0 ppm	0.50"	1.50"	1.60"	825.0cfh
Point 3	20	27.0	8.5	6.8%	7.9%	0.0 ppm	0.60"	1.60"	1.80"	900.0cfh
Point 4	30	28.5	11.2	6.7%	8.0%	0.0 ppm	0.70"	1.90"	2.10"	975.0cfh
Point 5	40	30.5	13.5	6.5%	8.1%	0.0 ppm	0.80"	2.20"	2.30"	1050.0cfh
Point 6	50	32.6	17.0	6.1%	8.3%	0.0 ppm	0.80"	2.50"	2.60"	1125.0cfh
Point 7	60	34.5	20.5	6.0%	8.4%	0.0 ppm	0.90"	2.70"	2.90"	1200.0cfh
Point 8	70	37.0	28.0	5.8%	8.5%	1.0 ppm	1.00"	2.90"	3.20"	1275.0cfh
Point 9	80	40.0	34.0	5.5%	8.6%	1.0 ppm	1.00"	3.10"	3.50"	1350.0cfh
Point 10	90	44.5	47.5	5.3%	8.7%	3.0 ppm	1.10"	3.30"	3.80"	1425.0cfh
Point 11	100	51.0	55.0	5.0%	9.0%	5.0 ppm	1.10"	3.50"	4.10"	1498.0cfh

Comments

Documentation created with:	EZ-Soft 6.11 Basic, Build 2500
Device Type:	EZ 512-AC-RC
Device version:	01- xxxxxxxxxxxx
Program Name:	»«
I Debounce:	off
P Buttons:	off
Card Mode:	off
Retention:	M9 - M12: off N9 - N16: off C8: off D1 - D8: off T8: off M13 - M16: off C5 - C7: off C13 - C16: off T7: off T13 - T16: off
Daylight Saving Time:	off
Password:	off
Cycle time:	0 ms



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D 2:
RUN
ENABLE
-.-
-.-

H 1:
Channel A: Parameter display = On
Monday - Friday 07:00 - 16:00
Channel B: Parameter display = On
- - - --:-- - --:--
Channel C: Parameter display = On
- - - --:-- - --:--
Channel D: Parameter display = On
- - - --:-- - --:--

D 3:
MOMENTARY
PUMP
START

T 1 (Off-delayed)
Parameter display = On
I1: 20 min : 00 s

D 4:
PUMP
ENABLE
-.-
-.-

T 2 (Single pulse)
Parameter display = On
I1: 15 s . 000 ms

Operand	Comment	Circuit Con.
I2		8C, 10A
I3		2A, 7A, 10C
Q1		11G
Q2		1G
Q3		8G
M1		3G, 8A
M2		4G, 5A
M3		6G, 9A
H1		1A, 5C
T1		5G, 6A
D2		2G
T2		10G, 11A
D3		12G
D4		9G

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