



CERTIFIED TEMPERATURE CALIBRATION, INC.

12637 Hoover Street Garden Grove, California 92841

(562) 989-2366 Fax (562) 989-2368 www.ctcservice.net

KEITH COMPANY, INC.

8323 LOCH LOMOND DRIVE

PICO RIVERA

CA 90660

562-948-3636

PO NO. N/A

JOB NO. 78624

DATE: 12/17/2020

PERFORM MONTHLY INSTRUMENT CALIBRATION AND TEMPERATURE UNIFORMITY SURVEY ON THE FOLLOWING

NEW DROP BOTTOM FURNACE

TUS @ 500 F, 800 F & 1100 F +/- 10 F
OPERATING RANGE: 500 F - 1100 F +/- 10 F
WORK ZONE SIZE: 48" W X 48" H X 60" D

PASS

NOTES:

- SURVEY CHARTS ON FILE WITH CUSTOMER. PHOTO INCLUDED FOR REFERENCE.

DELIVERED BY: RO ANY ITEMS OUT OF TOLERANCE NONE

CTC OFFICE USE ONLY		REC INSPEC: _____	DUE DATE: _____
TECHNICIAN: <u>RO</u>	CTC REVIEW: <u>CG12-18-20</u>	SCANNED: <u>NA</u>	EMAILED: <u>NA</u> MAILED: <u>12-18-20</u>

JOB TICKET REV. 07
EFFECTIVE DATE AUG/19

REC'D BY DATE 12/17/2020

THE ITEMS AND CERTIFICATIONS PROVIDED REMAIN THE PROPERTY OF CTC, INC. UNTIL THE INVOICE IS PAID IN FULL.

Date	Time	Ch.	CH001	CH002	CH003	CH004	CH005	CH006	CH007	CH008	CH009	SAT	CTRL
2020/12/17	08:22:00		213.5	201.5	208.3	211.6	199.7	216.5	211.9	200.3	219.0	190.3	188.2 TEMP TURNED UP
2020/12/17	08:24:00		253.9	243.1	251.3	255.0	240.4	257.6	254.7	242.5	260.8	234.8	232.7
2020/12/17	08:26:00		292.9	281.8	291.7	294.5	278.9	296.5	294.5	283.3	300.7	275.7	274.0
2020/12/17	08:28:00		328.6	318.5	329.3	331.9	315.7	333.1	332.4	320.5	337.2	314.6	312.9
2020/12/17	08:30:00		364.1	353.8	366.2	367.9	353.1	367.7	368.8	357.9	372.8	351.3	349.7
2020/12/17	08:32:00		397.0	388.8	400.7	403.3	383.6	402.5	403.8	392.0	406.9	387.0	385.1
2020/12/17	08:34:00		429.9	422.5	435.5	438.0	420.7	435.5	437.5	427.2	440.8	421.1	418.7
2020/12/17	08:36:00		462.5	454.5	468.4	470.5	451.3	466.8	470.8	460.3	473.0	454.4	451.9
2020/12/17	08:38:00		471.7	467.4	479.3	480.8	463.2	474.9	481.3	474.4	479.4	477.9	475.3
2020/12/17	08:40:00		460.8	460.3	469.1	469.9	458.5	463.8	470.1	467.1	466.6	472.9	470.5
2020/12/17	08:42:00		464.2	463.5	470.4	471.5	461.1	466.8	471.5	468.6	470.0	469.3	467.1
2020/12/17	08:44:00		466.3	465.6	471.0	472.3	463.7	468.4	472.1	469.4	471.5	469.3	466.9
2020/12/17	08:46:00		472.0	470.9	476.4	476.9	470.4	474.3	477.3	474.5	476.1	476.9	474.5
2020/12/17	08:48:00		481.4	480.2	485.1	485.8	479.4	483.8	486.3	483.0	486.6	482.1	479.6
2020/12/17	08:50:00		483.0	482.1	486.0	486.9	481.6	484.7	487.2	484.5	486.8	485.3	482.9
2020/12/17	08:52:00		488.7	487.4	491.5	492.1	486.8	490.7	492.5	490.2	492.1	491.6	488.9
2020/12/17	08:54:00		495.4	494.1	498.1	499.0	494.0	497.6	499.2	496.3	499.4	496.0	493.6
2020/12/17	08:56:00		497.6	496.9	500.3	501.0	496.3	499.4	501.3	499.1	501.1	499.6	497.1
2020/12/17	08:58:00		501.1	500.8	503.7	504.1	500.0	502.9	504.5	502.7	503.9	504.3	501.6 CONTROL RECOVERY
2020/12/17	09:00:00		498.1	498.9	500.7	501.2	497.9	499.7	501.5	500.2	500.5	501.7	499.2
2020/12/17	09:02:00		500.2	500.5	502.4	502.7	500.0	501.6	503.1	501.6	502.3	502.9	500.5
2020/12/17	09:04:00		499.9	500.5	502.1	502.4	500.5	501.5	502.7	501.6	502.0	500.6	499.8
2020/12/17	09:06:00		500.5	501.1	502.3	502.6	500.5	501.9	502.8	501.8	502.0	500.9	500.2
2020/12/17	09:08:00		500.7	501.5	502.3	502.6	501.0	502.0	502.8	501.9	502.1	500.9	500.0
2020/12/17	09:10:00		500.8 LL	501.3	502.3	502.6	501.2	502.1	502.8	502.0	502.1	500.9	500.2 0 MINS START TUS
2020/12/17	09:12:00		500.8	501.6	502.1	502.4	501.1	502.0	502.7	501.9	502.0	500.7	499.9
2020/12/17	09:14:00		501.1	501.9	502.3	502.6	501.6	502.3	502.8	502.0	502.1	500.7	500.0
2020/12/17	09:16:00		501.1	501.8	502.3	502.4	501.6	502.3	502.7	502.0	502.1	500.7	500.0
2020/12/17	09:18:00		501.3	502.0	502.6	502.7 HH	502.0	502.6	502.9	502.3	502.4	500.9	500.2
2020/12/17	09:20:00		501.2	502.0	502.3	502.4	501.8	502.3	502.7	502.0	502.0	500.7	500.0 10 MINS
2020/12/17	09:22:00		501.5	502.3	502.6	502.6	502.0	502.6	502.9	502.1	502.4	500.7	500.0
2020/12/17	09:24:00		501.2	502.0	502.3	502.4	502.0	502.4	502.7	502.1	502.1	500.7	500.0
2020/12/17	09:26:00		501.3	502.1	502.3	502.3	502.0	502.4	502.6	502.0	502.1	500.6	499.9
2020/12/17	09:28:00		501.3	502.1	502.3	502.3	502.0	502.4	502.6	502.0	502.1	500.6	499.9
2020/12/17	09:30:00		501.5	502.1	502.3	502.4	502.1	502.6	502.7	502.1	502.3	500.6	499.9 20 MINS
2020/12/17	09:32:00		501.5	502.1	502.1	502.3	502.0	502.4	502.6	502.0	502.1	500.6	499.9
2020/12/17	09:34:00		501.5	502.3	502.3	502.3 LH	502.1	502.4	502.6	502.0	502.1	500.4	499.8
2020/12/17	09:36:00		501.6	502.3	502.4	502.6	502.1	502.6	502.7	502.1	502.3	500.6	499.9
2020/12/17	09:38:00		501.6	502.4	502.4	502.6	502.3	502.7	502.8	502.3	502.4	500.4	500.0
2020/12/17	09:40:00		501.8 HL	502.4	502.4	502.6	502.3	502.6	502.7	502.1	502.3	500.6	499.9 30 MINS

	Ch.	CH001	CH002	CH003	CH004	CH005	CH006	CH007	CH008	CH009	SAT	CTRL	
Date	Time												
2020/12/17	09:54:00	673.1	670.4	680.5	681.4	666.5	676.7	682.9	675.5	683.6	667.8	665.5	TEMP TURNED UP
2020/12/17	09:56:00	702.4	698.9	709.9	711.8	696.6	704.9	712.6	706.1	713.0	697.9	695.7	
2020/12/17	09:58:00	731.0	727.5	739.2	740.7	726.4	733.8	741.8	735.0	741.5	727.1	725.3	
2020/12/17	10:00:00	758.4	756.4	767.3	768.8	754.6	761.8	770.4	763.7	769.9	755.4	753.8	
2020/12/17	10:02:00	785.7	784.2	795.3	796.9	784.2	789.1	798.4	791.4	797.0	783.2	781.7	
2020/12/17	10:04:00	801.2	802.0	807.3	808.3	800.5	804.8	806.9	808.3	806.5	805.5	804.3	CONTROL RECOVERY
2020/12/17	10:06:00	795.5	797.6	802.7	803.6	796.5	798.1	804.5	802.1	800.2	803.2	802.0	
2020/12/17	10:08:00	794.5	795.9	799.4	800.7	795.0	796.1	801.2	799.2	798.7	798.0	796.7	
2020/12/17	10:10:00	798.5	799.6	802.9	803.5	799.2	800.4	804.1	802.1	801.9	801.8	800.6	
2020/12/17	10:12:00	799.4	800.1	802.7	803.5	799.3	800.7	804.0	801.8	802.6	800.1	799.3	
2020/12/17	10:14:00	800.1	801.0	802.7	803.2	800.8	801.3	803.8	802.2	802.1	801.5	800.7	
2020/12/17	10:16:00	801.0	801.8	803.2	803.6	801.7	802.2	804.1	802.6	803.2	801.1	800.1	
2020/12/17	10:18:00	800.8	801.8	802.7	803.2	801.5	801.9	803.5	802.4	802.5	801.4	800.6	
2020/12/17	10:20:00	801.8	802.5	803.2	803.6	802.5	802.6	803.9	802.7	803.2	801.4	800.4	
2020/12/17	10:22:00	801.6	802.5	802.7	803.2	802.4	802.5	803.5	802.4	802.7	801.5	800.4	
2020/12/17	10:24:00	801.8	802.7	803.0	803.2	802.7	802.9	803.6	802.5	803.0	801.5	800.6	
2020/12/17	10:26:00	801.8	802.6	802.6	802.9	802.5	802.7	803.2	802.2	802.5	801.3	800.4	
2020/12/17	10:28:00	802.1	803.0	802.9	803.2	802.9	802.9	803.3	802.4	802.7	801.3	800.4	
2020/12/17	10:30:00	802.2	803.0	802.9	803.2	803.2	803.2	803.5 HH	802.5	803.0	801.3	800.6	0 MINS START TUS
2020/12/17	10:32:00	802.5	803.2	802.9	803.2	803.2	803.2	803.3	802.5	802.9	801.5	800.6	
2020/12/17	10:34:00	802.5	803.2	802.9	803.2	803.2	803.2	803.3	802.5	802.9	801.4	800.6	
2020/12/17	10:36:00	802.2	803.2	802.6	802.9	803.0	802.9	803.2	802.4	802.6	801.3	800.4	
2020/12/17	10:38:00	802.5	803.2	802.7	803.0	803.2	803.2	803.2	802.4	802.9	801.1	800.4	
2020/12/17	10:40:00	802.1 LL	802.9	802.5	802.6	803.0	803.0	802.9 LH	802.2	802.4	801.1	800.3	10 MINS
2020/12/17	10:42:00	802.5	803.2	802.7	803.0	803.2	803.2	803.2	802.4	802.9	801.1	800.3	
2020/12/17	10:44:00	802.5	803.2	802.7	802.9	803.2	803.2	803.2	802.4	802.7	801.3	800.4	
2020/12/17	10:46:00	802.5	803.2	802.7	802.9	803.2	803.2	803.2	802.4	802.7	801.1	800.4	
2020/12/17	10:48:00	802.5	803.2	802.6	802.7	803.2	803.0	803.0	802.2	802.6	801.3	800.4	
2020/12/17	10:50:00	802.5	803.2	802.7	802.9	803.2	803.2	803.2	802.4	802.7	801.3	800.4	20 MINS
2020/12/17	10:52:00	802.5	803.2	802.7	803.0	803.2	803.2	803.2	802.4	802.9	801.3	800.6	
2020/12/17	10:54:00	802.7	803.2	802.9	803.0	803.3	803.3	803.2	802.5	802.9	801.3	800.6	
2020/12/17	10:56:00	802.5	803.2	802.7	802.7	803.2	803.2	803.0	802.2	802.6	801.1	800.6	
2020/12/17	10:58:00	802.9 HL	803.5	803.0	803.2	803.3	803.3	803.3	802.6	803.0	801.1	800.6	
2020/12/17	11:00:00	802.6	803.2	802.7	802.9	803.2	803.2	803.2	802.4	802.7	801.3	800.6	30 MINS

END SURVEY DROP BOTTOM @ 800 F +/- 10 F 12/17/20 R. OLSON CTC, INC. T/C CORRECTION = -1.4

Date	Time	Ch.	CH001	CH002	CH003	CH004	CH005	CH006	CH007	CH008	CH009	SAT	CTRL	
2020/12/17	11:12:00		943.9	943.6	950.5	952.5	943.3	944.7	952.8	947.9	952.3	938.2	937.8	TEMP TURNED UP
2020/12/17	11:14:00		969.2	969.5	975.7	978.1	968.8	970.6	978.0	973.7	977.7	964.6	964.0	
2020/12/17	11:16:00		993.5	993.9	994.9	998.1	992.7	994.7	997.8	993.4	996.9	989.4	988.7	
2020/12/17	11:18:00		1016.8	1018.0	1019.2	1021.9	1016.5	1017.9	1021.7	1017.5	1020.5	1013.6	1013.1	
2020/12/17	11:20:00		1040.6	1041.6	1042.5	1045.0	1039.6	1042.1	1044.8	1040.8	1043.5	1036.8	1036.0	
2020/12/17	11:22:00		1063.3	1064.5	1064.9	1068.1	1063.1	1064.5	1067.2	1063.5	1066.0	1059.3	1058.4	
2020/12/17	11:24:00		1085.4	1086.5	1087.2	1090.0	1085.5	1086.6	1089.3	1085.9	1088.1	1081.6	1081.0	
2020/12/17	11:26:00		1102.3	1104.3	1101.7	1103.9	1103.1	1103.4	1103.2	1100.7	1101.0	1102.4	1101.7	CONTROL RECOVERY
2020/12/17	11:28:00		1095.7	1098.3	1099.7	1100.7	1097.5	1096.8	1100.4	1099.7	1097.8	1101.9	1101.4	
2020/12/17	11:30:00		1096.6	1098.0	1098.9	1100.7	1097.5	1096.9	1100.0	1098.6	1099.2	1097.2	1096.3	
2020/12/17	11:32:00		1099.5	1101.1	1101.5	1102.5	1100.7	1100.3	1102.2	1101.4	1100.8	1101.8	1101.2	
2020/12/17	11:34:00		1098.4	1099.5	1099.5	1100.6	1099.4	1098.9	1100.2	1099.2	1099.5	1098.8	1098.5	
2020/12/17	11:36:00		1100.7	1101.8	1101.5	1102.2	1101.7	1101.1	1102.1	1101.2	1101.4	1101.3	1100.8	
2020/12/17	11:38:00		1100.2	1101.4	1100.7	1101.4	1100.9	1100.6	1101.1	1100.2	1100.6	1100.2	1099.8	
2020/12/17	11:40:00		1101.2	1102.2	1101.5	1102.1	1102.0	1101.5	1101.8	1101.1	1101.5	1101.0	1100.7	
2020/12/17	11:42:00		1100.9	1102.0	1101.1	1101.5	1101.7	1101.4	1101.4	1100.7	1101.1	1100.6	1100.3	
2020/12/17	11:44:00		1101.5	1102.3	1101.7	1102.1	1102.3	1102.0	1102.0	1101.2	1101.5	1101.3	1100.8	
2020/12/17	11:46:00		1101.2	1102.1	1101.2	1101.7	1102.1	1101.7	1101.5	1100.8	1101.2	1100.8	1100.5	
2020/12/17	11:48:00		1101.5	1102.3	1101.5	1102.0	1102.3	1102.0	1101.7	1101.1	1101.5	1101.0	1100.8	
2020/12/17	11:50:00		1101.5	1102.2	1101.2	1101.5	1102.1	1101.8	1101.5	1100.8	1101.4	1100.8	1100.5	
2020/12/17	11:52:00		1101.5	1102.3	1101.2	1101.7	1102.2	1102.0	1101.5	1100.9	1101.5	1100.9	1100.5	
2020/12/17	11:54:00		1101.4	1102.1	1101.1	1101.5	1102.0	1101.7	1101.4	1100.7	1101.2	1100.6	1100.5	
2020/12/17	11:56:00		1101.4	1102.1	1101.1	1101.5	1102.0	1101.5	1101.4	1100.7	1101.2	1100.6	1100.5	
2020/12/17	11:58:00		1101.5	1102.1	1101.2	1101.5	1102.0	1101.8	1101.5	1100.7	1101.4	1100.4	1100.5	
2020/12/17	12:00:00		1101.5	1102.2	1101.2	1101.5	1102.1	1101.8	1101.5	1100.8	1101.4	1100.8	1100.5	
2020/12/17	12:02:00		1101.5	1102.2	1101.2	1101.5	1102.1	1101.8	1101.5	1100.8	1101.4	1100.6	1100.5	0 MINS START TUS
2020/12/17	12:04:00		1101.4	1102.0	1101.1	1101.4	1102.0	1101.5	1101.2	1100.6 LL	1101.1	1100.5	1100.3	
2020/12/17	12:06:00		1101.5	1102.2	1101.2	1101.5	1102.1	1101.8	1101.5	1100.8	1101.2	1100.5	1100.5	
2020/12/17	12:08:00		1101.5	1102.1	1101.2	1101.5	1102.1	1101.8	1101.5	1100.8	1101.4	1100.5	1100.5	
2020/12/17	12:10:00		1101.2	1102.0	1101.1	1101.4	1102.0	1101.7	1101.2	1100.7	1101.1	1100.4	1100.3	
2020/12/17	12:12:00		1101.4	1102.1	1101.1	1101.4	1101.8 LH	1101.5	1101.2	1100.7	1101.1	1100.4	1100.3	10 MINS
2020/12/17	12:14:00		1101.5	1102.2	1101.2	1101.5	1102.1	1101.8	1101.5	1100.8	1101.4	1100.5	1100.5	
2020/12/17	12:16:00		1101.5	1102.2	1101.2	1101.5	1102.1	1101.8	1101.5	1100.8	1101.4	1100.5	1100.5	
2020/12/17	12:18:00		1101.5	1102.0	1101.1	1101.4	1102.0	1101.7	1101.4	1100.7	1101.2	1100.4	1100.5	
2020/12/17	12:20:00		1101.4	1102.1	1101.1	1101.4	1102.0	1101.5	1101.2	1100.7	1101.1	1100.4	1100.3	
2020/12/17	12:22:00		1101.5	1102.1	1101.1	1101.4	1102.0	1101.7	1101.4	1100.7	1101.2	1100.2	1100.3	20 MINS
2020/12/17	12:24:00		1101.5	1102.2	1101.2	1101.5	1102.1	1101.8	1101.4	1100.8	1101.4	1100.5	1100.5	
2020/12/17	12:26:00		1101.4	1102.0	1101.1	1101.5	1102.0	1101.7	1101.4	1100.7	1101.2	1100.2	1100.5	
2020/12/17	12:28:00		1101.5	1102.2	1101.2	1101.5	1102.1	1101.8	1101.4	1100.8	1101.4	1100.5	1100.5	
2020/12/17	12:30:00		1101.4	1102.0	1101.1	1101.4	1101.8	1101.7	1101.2	1100.6	1101.1	1100.2	1100.3	
2020/12/17	12:32:00		1101.5	1102.1	1101.4	1101.5	1102.1 HH	1102.0	1101.5	1100.9 HL	1101.5	1100.5	1100.5	30 MINS