

Constructional Data Form for Electrical Products



(For TUV Rheinland of N.A., Inc. use only)

Certificate # S72122478 / CU72122479

File # 02072255.014/015

License Holder: SRI Instruments, Inc.
Type of Product: Gas Chromatography Systems
Model Number: 110, 310, 410, 8610C, 8610D, 8610V

List of Critical Components:

Object/part no.	Manufacturer/ Trademark	Type/Model	Technical Data	Standard	Mark(s) of Conformity
Enclosure	Various	Various	Stamped Sheet Metal 1mm thick,	EN61010-1, UL61010-1	[evaluated in the appliance]
Power Cord (US/CAN)	Various	Various	SJT, 125V, 15A, 60°C	UL 62	UL, CSA
Power Cord (EU)	Various	Various	H05VV-F, 300V, 70°C, 10amp	IEC/EN 60227	HAR
Strain Relief Bushing – US/CAN	Heyco (Heyco, Inc.)	SR 6P3-7 (1605)	SJT, V-2	UL 635 UL 94	UL, CSA
Strain Relief Bushing – US/CAN & EU	Hummel (Sealcon)	HSK-K (CF11AA-BK)	V-0, 5-10mm cable range	UL 514B UL 94 IEC/EN 50262	UL, CSA, VDE
Line Filter US/CAN 115VAC	Corcom	10EB1/10EB3	250V, 50/60Hz, 15A	UL 1283 EN 60939	UL, CSA, VDE
Line Filter EU 230VAC	Yunpen	YE10T1L2	250VAC 50Hz 10A	UL 1283 CSA C22,2 VDE SECC 32 400,32 401	UL, ENEC
Power Switch	Marquardt GMBH	1552-3102	115/230VAC, 16/10A 94V-2	UL/EN 61058-1	UL, CSA, ENEC
Circuit Breaker US/CAN	Tyco	W28-XQ1A-2	250V, 50/60Hz, 2A Tran Prim	UL 1077 EN 60730-1	UL, CSA, VDE
Circuit Breaker EU	Tyco	W28-XQ1A-1	250V, 50/60Hz, 1A Trans Prim	UL 1077 EN 60730-1	UL, CSA, VDE
Circuit Breaker US/CAN	Tyco	W28-XQ1A-15	250V, 50/60Hz, 15A ?	UL 1077 EN 60730-1	UL, CSA, VDE
Circuit Breaker EU	Tyco	W28-XQ1A-8	250V, 50/60Hz, 8amp	UL 1077 EN 60730-1	UL, CSA, VDE
Relay	Potter & Brumfield (Tyco)	T92S7A22-240	30A, 240Vac	UL/EN 60947-1	UL, CSA, VDE
Terminal Block	Wago	264 Series	600V, 2.5mm ²	UL 1059 EN 60947-1	UL, CSA, VDE
Optocoupler	Fairchild Semiconductor	MOC3040 / MOC3041	Isolation Voltage: 3500Vrms / 4950Vpk	UL 1577 IEC 60747-5-5	UL, SEMKO

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Motor (US/CAN, 120V configuration)	Jakel Motors	J238-100-10080	115V, 60Hz, 0.37A	UL 1004	UL, CSA <i>[evaluated in the appliance]</i>
Motor (EU, 230V configuration)	Jakel Motors	J238-10088	230V, 50/60Hz, 0.19A	EN 61010-1	<i>[evaluated in the appliance]</i>
Fan (US/CAN, 120V configuration)	Sunon	SF11580AT	115V, 50/60Hz, 120/100mA, 17CFM min.	UL 507	UL
Alt Fan (US/CAN, 120V configuration)	Sunon	MA1082-HVL.GN	115V, 50/60Hz, 120/210 mA, 41CFM	UL 507	UL
Alt Fan (US/CAN, 120V configuration)	Various	Various	115-120 V, 50/60Hz, 120/100mA, 17CFM min.	UL 507	UL
Fan (EU, 230V configuration)	Sunon	SF23080AT	220-240V, 50/60Hz, 70mA, 17CFM min.	UL 507 EN 60335-2-80	UL, TUV
Alt Fan (EU, 230V configuration)	Sunon	MA2082-HVL.GN	240V, 50/60Hz, 70mA, 17CFM min.	UL 507 EN 60335-2-80	UL, TUV
Alt Fan (EU, 230V configuration)	Various	Various	220-240V, 50/60Hz, 70mA, 17CFM min.	UL 507 EN 60335-2-80	UL, TUV
Fan	Sunon	KDE2408PTV1 (Replacement model 2011) ME80252V1- 000U-A99	24Vdc, 70mA, 36cfm	UL 507 EN 60950-1	UL, TUV
Fan (2 ea)	Sunon	KD1206PHB2	12Vdc, 1.1W	UL 507 EN 60950-1	UL, TUV
PTC Thermistors (F1, F2)	Tyco/Raychem	RXEF075	72V, 40A, 0.75A trip current	UL 1434 IEC 60730-1	UL, CSA, TUV
PTC Thermistor (F3)	Tyco/Raychem	RXEF025	72V, 40A, 0.25A trip current	UL 1434 IEC 60730-1	UL, CSA, TUV
PTC Thermistors (F4, F5)	Tyco/Raychem	RXEF160	72V, 40A, 1.6A trip current	UL 1434 IEC 60730-1	UL, CSA, TUV
PTC Thermistor (10V Secondary winding)	Tyco/Raychem	RGEF700	16V, 100A, 7A trip current	UL 1434 IEC 60730-1	UL, CSA, TUV

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Transformer	MCI	4-47-0609	In: 115/230V, 50/60Hz, 1.52/0.76A; Out: 10V, 5A; 10V, 5A; 24V, 0.15A; 28Vct, 1A; 28Vct, 0.5A; 18V, 0.5A; 175VA max. Insulation Class F	UL 1446	<i>[evaluated in appliance]</i> UL (insulation system)
AC-outlet (C13, optional)	Various	Various	AC250V, 15A, AC250V, 10A	IEC/EN 60320- 1	UL N, VDE
Fuse holder (for AC-outlet)	Shin Chin or equivalent	R3-32 or equivalent	AC 250V, 20A	UL 4248-	UL <i>[evaluated in appliance]</i>
Fuse (for AC-outlet)	various	various	F1AL / 250V	IEC 60127-1	VDE, UL
AC Distribution PCB	SRI	ACdist	Minimum flammability rated 94-V	UL796	UL
Heater PCB	SRI	Heat-G	Minimum flammability rated 94-V	UL796	UL
Control PCB	SRI	333 or 302	Minimum flammability rated 94-V +12VDC	UL796	UL
Compressor	Medo	AC0105	115 or 230VAC	EN1012-1	UL <i>[evaluated in appliance]</i>

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Routine Safety Testing:

Required:

Not Required:

Reason:

Class III product:

Other:

Test Details:

Dielectric Strength:

Ground Continuity:

Insulation Resistance:

Leakage Current:

Other:

Test Points:

BI: L/N – Chassis

AC Inlet – Chassis

AC pin of cord – AC-outlet

Test Values

1690Vac/2390Vdc, $1s \leq t \leq 60s$

25A, $1s < t < 60s$, $<100m\Omega$

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