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SUBJECT: U.L. Approval of Roberts-Gordon Products

A number of inquiries have been received regarding the above subject. There is apparently some confusion concerning "U.L." Approval of Roberts-Gordon heating equipment.

Roberts-Gordon does not use U.L. as its primary agency for equipment approval. (Historically, Roberts-Gordon has always had the products approved through the American Gas Association (A.G.A.)). Accordingly, our products are tested and certified under the ANSI Z83.6 Standard by A.G.A. Note that various agencies such as U.L., ETL, and Warnock Hersey are capable of testing our equipment System to that Standard, but we have chosen A.G.A.

The Z83.6 Standard, Section 1.20.2, requires that "Electrical equipment and line-voltage and safety-circuit wiring supplied for use with and as part of the heater shall be of approved types....". The next paragraph states "Electrical equipment and wiring listed or certified by a nationally recognized testing agency qualified to certify or list electrical equipment or wiring shall be deemed to be an approved type". U.L. has generally been the qualified agency which lists the electrical devices used in the equipment. We are required, as part of certification, to supply listing information concerning all applicable components to our testing agency. Attached is a listing of U.L. file numbers that have been submitted to A.G.A. in association with our CO-RAY-VAC B, CO-RAY-VAC E, EcoVac, and Vantage II approvals.

I hope this will answer the questions concerning U.L. Approval and its relationship to the Roberts-Gordon equipment.

Timothy P. Seel
Vice President, Engineering

U.L. LISTING COMPONENTS

CRV "B" SERIES BURNERS

<u>ITEM</u>	<u>MFG.</u>	<u>MODEL</u>	<u>UL. NO.</u>
VACUUM PUMP MOTOR OVERLOAD DEVICE	EMERSON	CA55CXEDE2654	E-10073 E-22922
TRANSFORMER	HONEYWELL	AT120B1028	E-14881
VACUUM SWITCH	TRIDELTA	FS6023-201	MH-11121
ELECTRICAL SUPPLY CORD	KALAS	SJT 16/3 105°C	E-31793
JUNCTION BOX	RACO	# 650	E-4872A
WIRE	105°C7	16AWG	E-27819

CRV "E" SERIES HEATERS

<u>ITEM</u>	<u>MFG.</u>	<u>MODEL</u>	<u>UL. NO.</u>
BLOWER MOTOR (Over Load Prot.)	EMERSON T.I.	C63CXFME-4144 CEJ67NX	E-42359 E-58977
TRANSFORMER	HONEYWELL	AT 40C1004	E-14480 VOL.1.
PRESS. SWITCH	TRIDELTA	FS 6023-201	MH-11121
JUNCTION BOX	RACO	#650	E-4872A
WIRE CORD	KALAS ELEC.	SJT 16/3 150°C	E-31793

U.L. LISTED ELECTRICAL COMPONENTS

EV SERIES

VACUUM PUMP MOTOR

	<u>CSA</u>	<u>UL</u>
EMERSON 1/3 HP C63C X FME 4144	LR2459	E22922
T.I. OVERLOAD CFJ67NX	LR11372	E10073
FRANKLIN 1/3 HP 1123220400 PRI	LR9862	E49787
T.I. OVERLOAD MEG 61 DS	LR11372	E15962
FRANKLIN 3/4 HP 123210400PRZ	LR9862	E49787
T.I. OVERLOAD CFJ63CS	LR11372	E15962
EMERSON 3/4 HP CA63CXFD	LR2459	E22922
T.I. OVERLOAD CEJ67NX	LR11372	E10073

ELECTRICAL COMPONENTS

	<u>CSA</u>	<u>UL</u>
TRANS HONEYWELL AT120B1028	LR61421-3	E14881
TRANS HONEYWELL AT4001004 (ALT)	LR61421-3	E14881
TRANS HONEYWELL AT120B1010 (ALT)	LR61421-3	E14881XOKVZ
DOOR SWITCH UNIMAX AJ104-4	LR8915	E42363
DOOR SWITCH MC GILL Z609-1010 (ALT)	LR7504	E4793
PRESSURE SWITCH TRIDELTA FS6451-734	LR45785	MH11121
PRESSURE SWITCH TRIDELTA FS6023-201 (ALT)	LR45785	MH11121
JUNCTION BOX RAYCO #650		E4872A
TERMINAL BUSH HEYCO DS-68-2-2	LR61334-1	E39810
STRAIN RELIEF HEYCO 6P3-4	LR8918	D-15331
STRAIN RELIEF HEYCO SP3-4	LR8918	D-68-2-2
WIRE STYLE TEW 105°C	LR26044	E27819

CONTROL PANEL COMPONENTS - ECONOVAC

<u>DESCRIPTION</u>	<u>MFG.</u>	<u>PART #</u>	<u>UL#</u>	<u>CSA#</u>
TRANSFORMER	SIGNAL	14A-20-12	E63829	LR-51265
RELAY	OMRON	GZR-1125-V-US-12VDC	E41643	LR-31928
RELAY	OMRON	G4B-112T1-US-12VDC	E41643	LR-31928
RELAY SOCKET	OMRON	P2R-05P	E87929	LR-31928
TERMINAL STRIP	CUSTOM CONNECTORS	GPCB-13-PC	E95586	LR-80483
(Alt.)	RDI	BC6-P104-13	E54800	LR-30811
FUSE	BUSS	AGC-1	E19180	47233 Class 1422-01
(Alt.)	LITTLE FUSE	312001	E10480	LR-29862
RING TERMINAL	AMP	36158	E13288	LR-45812-1
FASTON TERMINAL	AMP	3-520132-3	E66717	LR-42168-1
WIRE	-----UL1015 SPECIFICATION-----			

U.L. LISTED ELECTRICAL COMPONENTS

CTH-2 SERIES HEATERS

<u>ITEM</u>	<u>MODEL</u>	<u>MANUFACTURER</u>	<u>U.L. NO.</u>
BLOWER MOTOR (Over Load Prot)	8211710232 8B61E	FRANKLIN ELECTRIC G.T.E.	E-87040 E-22641
TRANSFORMER	AT120B-1028	HONEYWELL	E-14881XOKV2
PRESS. SWITCH	FS6403-599	TRIDELTA	MH-11121
DOOR SWITCH	AJ104-4	UNIMAX	E-42363
JUNCTION BOX	#650	RACO	E-4872A
TERMINAL BUSHING	DC-68-2-2	HEYCO	E-39810
STRAIN RELIEF	6P3-4	HEYCO	E-15331
WIRE	16 AW6	105°C	E-27819