

RANCO DOMESTIC THERMOSTATS REPLACEMENT CHARTS



REPLACEMENT CONTROLS FOR DOMESTIC REFRIGERATORS & FREEZERS (Continued)

REFRIGERATOR/FREEZER MODEL	ORIGINAL CONTROL		RANCO	
	MANUFACTURER'S PART NO.	SUPPLIER'S PART NO.	FUNCTIONAL REPLACEMENT CONTROL	ADAPTABLE REPLACEMENT CONTROL

METTERS

(Continued)

METTERS

1968 (Continued) MFF1267W, MFF12	01 - 001 - 047	SA 1264		VC 1
MST1468, MST12, MST140	00 - 081 - 047	A42 - 4044		VT 9
MF15	01 - 073 - 451			
MF14, MF110, MF120, MF11, MF1167F	01 - 007 - 047	SA 1266		VC 1
MD20, TFF20DE	01 - 055 - 063			
1969 MST120, MSW12, MST125, MST14, MSW140	00 - 081 - 047	A42 - 4044	A59 - 2504	VT 9
MF150W, MFR21, MF110, MF15, MRAW12, MRF11, MRK11	02 - 065 - 451	A50 - 2293		VC 1
MPN12, MRP12, MRP11	02 - 067 - 451	F56 - 103		
MD21	02 - 027 - 063A			
MR11, MRA11, MW110, MA120D, MR12, MAW120, MA110K, MAW120D, MRA12	02 - 031 - 451	KCA/E/11		
MD20D	01 - 055 - 063			
1970 MRP5				
MR11, MRA11, MRA12, M21, M21 I/M	02 - 031 - 451	KCA/E/11		
MRT12, MRT125, MRT12S	02 - 089 - 451	A42 - 4141	A59 - 2500	VT 9
M15A	01 - 023 - 451			
MST12, MST14A, MSTW144, MST140	00 - 081 - 047	A42 - 4044	A59 - 2504	VT 9
1971 MR11, MRA11, MR12, MRA12, MRAW12, MR11B, "TRIUMPH", MRA111, MRN112, MRA112	02 - 031 - 452	A50 - 2284		VC 1
MF150, MFR21, MF17, MRF12, MFR17	02 - 065 - 451	A50 - 2293		VF 3
MDF20	01 - 055 - 063			
MRP5	02 - 141 - 451			
MDT15, MDT13, MDT15K, MB12, MU17, MDT17, MDT12, MDT12K	02 - 089 - 451 02 - 157 - 451	A42 - 4141 3ART 6VG1	A59 - 2500	VT 9
MRP111, MRPN112, MG311S	02 - 067 - 451	F56 - 103		
MRAW12, MA311S, MA271S	02 - 165 - 451	A50 - 2284		
MRF111, MFR121, MF111, MF271S	02 - 065 - 451	A50 - 2293		VF 3
MF481S, MF621S, MF117	00 - 081 - 047	A42 - 4044	A59 - 2504	VT 9
MDTW15, MDTW17, MDT17K, MG15, MG17	02 - 157 - 451			
MDF15	02 - 123 - 047			
MRP55	02 - 195 - 451	F50 - 234		VF 4
MG12	02 - 031 - 451			
MCF75, MCF100, MCF130				
ME471S, ME431S	02 - 239 - 451	3ART 6VG1		VT 9
MJ471S	02 - 123 - 451	A50 - 440		VC 1
MS572S, MS571S	02 - 027 - 063			
MA271S, MA311S	02 - 165 - 451	A50 - 2284		VC 1
MA290S	757189	A50 - 5116	A50 - 5116	VC 1
MG311S	02 - 165 - 770	F56 - 103		
MF621S	00 - 081 - 047	A42 - 4044	A59 - 2504	VT 9
MF271S, MF271S-01, MF481S, MF481S-01	02 - 065 - 452	A50 - 2293		VF 3
MA290S, MA290S-01, MA290T, MA290T-01	R11 102774 R12 774369		A50 - 5116	VC 1
MG320S	759214	F56 - 5700		
ME280S, ME280T, ME280T-01	774436		A59 - 2516	VT 9
ME340S, ME340T	R21 729316 757190	A59 - 2512	A59 - 2512	VT 9
MJ360S, MJ360T	R14 737383		SAM - 1305	
ME460T	758915		A59 - 2519	VT 9

PHILIPS

PHILIPS

1977 RL305S RL306S RL285A RL286A	4202 - 500 - 0553	A50 - 5140 (Round Shaft)	A50 - 5140	VA 2
	4202 - 500 - 0702	A50 - 5144 ("D" Shaft)	A50 - 5144	

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RANCO DOMESTIC THERMOSTATS REPLACEMENT CHARTS

REPLACEMENT CONTROLS FOR DOMESTIC REFRIGERATORS & FREEZERS (Continued)

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REFRIGERATOR/FREEZER MODEL	ORIGINAL CONTROL		RANCO	
	MANUFACTURER'S PART NO.	SUPPLIER'S PART NO.	FUNCTIONAL REPLACEMENT CONTROL	ADAPTABLE REPLACEMENT CONTROL

PHILIPS

(Continued)

PHILIPS

1977 (Continued) RL325A RL326A	4202 - 500 - 0140	A50 - 5131 (Round Shaft)	A50 - 5131	VC 1
	4202 - 500 - 0776	A50 - 5143 ("D" Shaft)	A50 - 5143	
RL365C, RL366C	4202 - 500 - 0498	A59 - 8809	A59 - 8809	VT 9
RL465C, RL466C	4202 - 500 - 0915	A59 - 8810	A59 - 8810	VT 9

RANK ARENA

RANK ARENA

1977 RR150, RR250	DO 109	F50 - 5201	F50 - 5201	VP 4
RR260, RR155A, RR220	MCC108-5	A59 - 2521	A59 - 2521	VT 9
RR200	MCC114-2	A50 - 5134	A50 - 5133	VF 3
R70 Kit, R70C, R70W	MCC109-1	A50 - 52307	A50 - 52307	VC 1
RR120	MCC114-1	A50 - 5133	A50 - 5134	VF 3

RODEN/ICE COLD

RODEN/ICE COLD

1975 RKA150, RKA250, RKC150	MCC111-1	F50 - 5200	F50 - 5200	VP 4
RUA120, IUA 120	MCC114-1	A50 - 5133	A50 - 5133	VF 3
RUA200, IUA200	MCC114-2	A50 - 5134	A50 - 5134	VF 3
2.500, RKA070	MCC109-1	A50 - 52307	A50 - 52307	VC 1
1976 R150, R250	MCC111-1	F50 - 5200	F50 - 5200	VP 4
U120, U121	MCC114-1	A50 - 5133	A50 - 5133	VF 3
U200, U201	MCC114-2	A50 - 5134	A50 - 5134	VF 3
R70, K70	MCC109-1	A50 - 52307	A50 - 52307	VC 1
R220	MCC108-5	A59 - 2521	A59 - 2521	VT 9
1977 NR150	DO 129	A50 - 5147	A50 - 5147	VC 1
NU120	MCC114-1	A50 - 5133	A50 - 5133	VF 3

SIMPSON-POPE

SIMPSON-POPE

5000-13, 5000-14, 5000-30, 5000-40, 5000-72	5000 - 01 - 762	E13 - 2507	E13 - 2532	
5000-48, 5000-60, 5000-61, 5000-66, 5000-67, 5000-74, 5000-78, 5000-84, 5000-87, 5000-88, 5000-89, 5000-129, 5000-133, 5000-136, 5000-137, 5000-143, 5000-145, 5000-147, 5000-148	5000 - 48 - 051	E13 - 2520	E13 - 2532	
5000-153, 5000-154, 5000-155, 5000-170, 5000-171, 5000-172	5000 - 153 - 015	E13 - 2536	E13 - 2532	
5030-114, 5030-117, 5030-118, 5030-119, 5030-135, 5030-144, 5030-174, 5030-175, 90-205, 90-255, 92-205, 94-205, 94-255, 90-206, 90-256, 92-206 92-216, 90-266, 92-216, 94-216, 94-266, 90-207, 90-257, 92-207, 94-207, 94-257, 90-208, 90-258, 92-208, 92-258, 94-208, 94-218, 94-258, 94-268, 90-209, 90-259, 92-209, 92-259, 94-219, 94-229 94-269, 94-279	5030 - 01 - 051	E13 - 2532	E13 - 2532	
5000-02, 5000-04, 5000-15, 5000-16, 5000-20, 5000-31, 5000-35	5000 - 02 - 702	F14 - 116	F14 - 202	
5000-109, 5000-111, 5000-127, 5000-128, 5000-134, 5000-139, 5000-140, 5000-142	5000 - 86 - 702	F14 - 161	F14 - 202	
5030-125, 5030-126	5030 - 03 - 006	F14 - 202	F14 - 202	
5000-09, 5000-10, 5000-11, 5000-12, 5000-17, 5000-18, 5000-19, 5000-30, 5000-32, 5000-33, 5000-34, 5000-36, 5000-46, 5000-47, 5000-54, 5000-55, 5000-57, 5000-58	5000 - 1 - 763	SA 969	SA 1220 SA 1205	VC 1
5000-40, 5000-42, 5000-43, 5000-44 5000-45, 5000-72, 5000-73	5000 - 1 - 764	SA 501	SA 1244	VC 1
5000-48, 5000-49, 5000-50, 5000-51, 5000-61, 5000-63, 5000-67, 5000-68	5000 - 48 - 052	SA 1085	SA 1205 SA 1244	VC 1

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REPLACEMENT CONTROLS FOR DOMESTIC REFRIGERATORS & FREEZERS (Continued)

REFRIGERATOR/FREEZER MODEL	ORIGINAL CONTROL		RANCO	
	MANUFACTURER'S PART NO.	SUPPLIER'S PART NO.	FUNCTIONAL REPLACEMENT CONTROL	ADAPTABLE REPLACEMENT CONTROL

SIMPSON-POPE

(Continued)

SIMPSON-POPE

5000-60, 5000-62, 5000-66, 5000-69, 5000-70 5000-74, 5000-75, 5000-78, 5000-80, 5000-84, 5000-87, 5000-88, 5000-89, 5000-110, 5000-129, 5000-131, 5000-132, 5000-133, 5000-136, 5000-137, 5000-138, 5000-143, 5000-146, 5000-147, 5000-148, 5000-150, 5000-155(s), 5000-169(s), 5000-145	5000 - 70 - 019	SA 1205	SA 1205	VC 1
5000-77, 5000-90, 5000-91, 5000-92, 5000-93, 5000-95, 5000-109	5000 - 77 - 001	SA 1218	SA 1244	VC 1
5000-121, 5000-179, 90-857, 90-858, 90-859	5000 - 121 - 026	SA 1257	SA 1257	VF 3
5000-153, 5000-154	5000 - 157 - 002		SA 1244	VC 1
5020-02, 5020-04, 5020-06	5020 - 02 - 736	SA 975	SA 1074	VC 1
5030-114, 5030-117, 5030-118, 5030-119, 5030-135, 5030-144, 5030-155(a), 5030-169(a), 5030-170, 5030-171, 5030-172, 5030-173, 5030-174, 5030-175, 5030-178, 90-105, 90-205, 90-255, 92-265, 94-205, 94-255, 90-106, 90-206, 90-256, 92-206, 90-216, 90-266, 92-216, 94-216, 94-266, 90-107, 90-207, 90-257, 90-267, 92-207, 94-207, 94-257, 90-108, 90-208, 90-258, 92-208, 92-258, 94-208, 94-218, 94-258, 94-268, 90-109, 90-209, 90-259, 92-209, 92-259, 94-229, 94-269, 94-279	5030 - 01 - 050	SA 1244	SA 1244	VC 1
5000-152, 5000-162, 93-405, 93-455, 93-416, 93-466, 93-407, 93-457, 93-408, 93-418, 93-458, 93-468	5000 - 152 - 037	A42 - 4130	A59 - 8805 Complete With Knob	VT 9
93-409, 93-419, 93-459, 93-469	541 - 1 - 100	A42 - 4130	A59 - 8805 With Knob	VT 9
93-609, 93-659	162 - 3 - 47	B11 - 503	B11 - 503	
93-609, 93-659	628 - 1 - 16	SA 1284	SA 1284	VC 1

WESTINGHOUSE

WESTINGHOUSE

SM79, SM99	R11 102774		A50 - 5116	VC 1
SM111, PSM99, PSM12	R12 104133		A50 - 5116	VC 1
ASM139	R21 729316		A59 - 2512	VT 9
RQD99, RAD99, RGD99	R11 102774		A50 - 5116	VC 1
RAD111, RBG121	R12 104133		A50 - 5116	VC 1
RCD139	R21 729316		A59 - 2512	VT 9
RGD121, RHD111, RHD111T	R12 104133		A50 - 5116	VC 1
RED143	R21 729316		A59 - 2512	VT 9
RHD99, RHD99T, RAE99	R11 102774		A50 - 5116	VC 1
RAE99T, RGE99, RGE99T	R11 102774		A50 - 5116	VC 1
RBE111, RGE121, RGE121T	R12 104133		A50 - 5116	VC 1
RCE139, RCE139T, REE143	R21 729316		A59 - 2512	VT 9
REE143T, RHE143, RHE143T	R21 729316		A59 - 2512	VT 9
RAF99, RGF99, RAF101, RGF101	R11 102774		A50 - 5116	VC 1
RAF121, RAF121A, RAF121B, RAF121C, RGF121	R12 104133		A50 - 5116	VC 1
REF122, REF143, RHF143	R21 729316		A59 - 2512	VT 9
RAG96, RAG97, RAG98, RAG100, RAG101, RAG102, RAG103, RAG122, RGG103	R11 102774		A50 - 5116	VC 1
REG140A, REG140B, REG142, REG142A, REG143	R21 729316		A59 - 2512	VT 9
RAH97, RAH98, RAH100, RAH103, RAH100/1, RGH103, RGH103/1	R11 102774		A50 - 5116	VC 1
RAH121, RAH121/1, RGH121	R12 104133		A50 - 5116	VC 1
RNH124/1	R10 739404		A50 - 5119	VF 3
REH122, REH122 01, REH142, REH143, REH143 1, RCH139	R21 729316		A59 - 2512	VT 9
RJH154, RJH156, RJH154/1, RJH156/1, RJH133, RJH142, RJH142/1	R14 737383		SAM 1305	
RJH173	R18 742223		SAM 1307	
RTH50TT, RTH70, RTH70-A, RTH80, RTH80-A	132 - 10391 - 02		F50 - 2026	VP 4
FVH525	R19 743018		A50 - 5120	VF 3
RNJ124, RNJ124/2, RNJ124/3	R10 739404		A50 - 5119	VF 3
RAJ97, RAJ98, RAJ100, RGJ103	R11 102774		A50 - 5116	VC 1
RAJ121, RGJ121	R12 104133		A50 - 5116	VC 1

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REPLACEMENT CONTROLS FOR DOMESTIC REFRIGERATORS & FREEZERS (Continued)

REFRIGERATOR/FREEZER MODEL	ORIGINAL CONTROL		RANCO	
	MANUFACTURER'S PART NO.	SUPPLIER'S PART NO.	FUNCTIONAL REPLACEMENT CONTROL	ADAPTABLE REPLACEMENT CONTROL

WESTINGHOUSE

(Continued)

WESTINGHOUSE

RJJ142, RJJ142/1, RJJ156, RJJ156/01, RJJ153/2, RJJ153/3, RJJ153/21, RJJ153/31	R14 737383		SAM 1305	
RJJ153, RJJ153/1, RJJ153/01	R15 737759		SAM 1306	
RPJ105, REJ122, REJ122/01, REJ143, REJ143/01, REJ143/11, REJ143/2, REJ143/21	R21 729316		A59 - 2512	VT 9
RJJ173, RSJ203	R17 745196		A50 - 5123	VF 3
FVJ525	R19 743018		A50 - 5120	VF 3
FVJ315, FVJ310, FVJ310/2	R19 743018		A50 - 5120	VF 3
RAL100, RGL103	R11 102774		A50 - 5116	VC 1
RAL121	R12 104133		A50 - 5116	VC 1
RJL142, RJL156	R14 737383		SAM 1305	
RJL153	R15 737759		SAM 1306	
RSL204	R17 745196		A50 - 5123	VF 3
RJL172, RJL174	R18 742223		SAM 1307	
FVL525, FVL315, FVL310	R19 743018		A50 - 5120	VF 3
RPL105, REL122, REL133, REL143, REL154	R21 729316		A59 - 2512	VT 9
RNL124	R101 747083		A50 - 5119	VF 3
RAM100, RGM103	R11 102774		A50 - 5116	VC 1
RAM121	R12 104133		A50 - 5116	VC 1
RJM142, RJM155, RJM156	R14 737383		SAM 1305	
RJM153	R15 737759		SAM 1306	
RSM204	R17 745196		A50 - 5123	VF 3
RJM172, RJM174	R18 742223		SAM 1307	
FVM525, FVM315, FVM310	R19 743018		A50 - 5120	VF 3
REM122, REM133, REM154, RPM105	R21 729316		A59 - 2512	VT 9
RNM124	R101 747083		A50 - 5119	VF 3
RAP100, EAP090	R11 102774		A50 - 5116	VC 1
RAP131	R12 104133		A50 - 5116	VC 1
RJP142, RJP142/04, RJP156, RJP156/04	R14 737383		SAM 1305	
RSP184,	R17 745196		A50 - 5123	
RSP204	745101	B11 - 502		VF 3
RJP174, RJP174/04	R18 742223		SAM 1307	
FVP525, FVP310, FVP310/04	R19 743018		A50 - 5120	VF 3
RPP105, REP122, REP123, REP133, REP154, REP171, REP171/04, REP133/04, REP154/04, EEP130	R21 729316		A59 - 2512	VT 9
RNP134	R101 747083		A50 - 5119	VF 3
RSP184, RSP204/2	R17 745196 Plus 745101	B11 - 502	A50 - 5123	VF 3
RSP208/02	754669 + 756331			
EAP120, EGP120	759214			VP 4
EAP090/04	756193	A50 - 5116	A50 - 5116	VC 1
RA291S, RA321S	756193	A50 - 5116	A50 - 5116	VC 1
RE341S, RE351S, RE301S	755998	A59 - 2512	A59 - 2512	VT 9
RE461S	R21 756986		A59 - 2513	VT 9
RJ361S, RJ401S	R14 737383		SAM 1305	
RJ461S	R18 742223		SAM 1307	
RN311S	R10 756197	A50 - 5119	A50 - 5119	VF 3
RP261S	755998	A59 - 2512	A59 - 2512	VT 9
RS471S, RS511S, RS512S	756198	A50 - 5121	A50 - 5121	VF 3
FV251S, FV431S	756196	A50 - 5120	A50 - 5120	VF 3
COMPACT REFRIGERATOR/FREEZERS				
VF160R	769782		A50 - 2310	VF 3
VF160S	769833			VS 5
RT145S, RA195R	769541	0518 - 4163		
RT150S, RA195S	769652			
RT150S, RA195S	769609	F50 - 2169X		VP 4
RE230S, RE290S, RE325S	769673	090B - 6276		
RE200R	769748	090B - 6282		
RA291T, RA291T - 01	756193	A50 - 5116	A50 - 5116	VC 1
RE281T - 01, RE281T - 02	774436	A59 - 2516	A59 - 2516	VT 9
RE281T	774436	A59 - 2516	A59 - 2516	VT 9
RE351T, RE351T-01, RE391T-02, RE371T	755998	A59 - 2512	A59 - 2512	VT 9
RF280T	758714	A54 - P2936	A54 - P2936	VS 5
RJ461T - 01	756348	SA 1307	SAM 1307	
RN311T	756197	A50 - 5119	A50 - 5119	VF 3
RP261T	755998	A59 - 2512	A59 - 2512	VT 9

SPECIFICATION DATA ON FOLLOWING PAGES

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RANCO REFRIGERATOR/FREEZER THERMOSTATS SPECIFICATION DATA



A50 SERIES THERMOSTATS

CODE	ORIGINAL CUSTOMER	CAPILLARY LENGTH mm	TEMPERATURE SETTINGS			
			WARM IN °C	NORMAL IN °C	NORMAL OUT °C	COLD OUT °C
A50 - 5100	A.M.I.R.D.	1000	-1.0	-8.0	-18.0	-23.5
A50 - 5101	Email	600	-0.5	-7.0	-17.5	-24.0
A50 - 5102	Metters N.S.W.	400	8.0		-5.0	
A50 - 5103	Servex	400	-1.5	-7.0	-14.0	-19.0
A50 - 5104	Metric Refrig. P/L	800		-14.5	-20.5	
A50 - 5105	Servex	1000	-1.5	-6.0	-16.0	-18.5
A50 - 5106	Servex	1000	-3.5	-7.0	-17.0	-21.5
A50 - 5107	Kelvinator	1200	-0.5	-5.5	-18.5	-24.5
A50 - 5108	Kelvinator	400	-11.5	-14.5	-21.0	-24.5
A50 - 5109	Kelvinator	400	-12.8	-15.6	-22.2	-25.6
A50 - 5110	Kelvinator	1200	-0.3	-5.6	-18.3	-24.8
A50 - 5111	A.M.I.R.D.	1000	-1.0	-8.0	-18.0	-23.5
A50 - 5112	Email (N.S.W.)	600	-10.6	-13.9	-20.6	-23.9
A50 - 5113	A.M.I.R.D. New Zealand	1000	-10.5	-15.5	-23.5	-31.5
A50 - 5114	Bonair (New Zealand)	600	-13.5	-16.5	-22.0	-25.0
A50 - 5115	Servex	1000	-14.0	-16.5	-23.5	-35.0
A50 - 5116	Email Ltd.	600	-0.8	-7.2	-17.5	-25.5
A50 - 5117	G.E.K.A.	1000	-0.5	-6.5	-18.0	-27.0
A50 - 5118	G.E.Kirby	600		12.8	7.8	
A50 - 5119	Email	600	-3.9	-10.8	-22.4	-29.1
A50 - 5120	Email	600	-14.2	-17.5	-25.2	-28.5
A50 - 5121	Email Ltd.	600	-13.1	-16.4	-26.3	-29.6
A50 - 5122	G.E.Kirby	1000	-12.2	-13.9	-18.9	-21.1
A50 - 5123	Email Ltd.	600	-11.9	-15.3	-23.0	-26.3
A50 - 5124	Finch Refrigeration P/L	1800	0	-7.5	-12.0	-24.0
A50 - 5125	Fisher & Paykel	1000	-0.5	-5.5	-15.0	-23.5
A50 - 5126	Kelvinator	1000	-0.5	-5.5	-18.5	-24.5
A50 - 5127	Email Auburn N.S.W.	800		9.8	5.0	2.5
A50 - 5128	Metters	1000	-7.5	-10.0	-20.0	-22.0
A50 - 5129	General Motors N.Z.	1000	-1.1	-6.7	-19.7	-23.3
A50 - 5130	G.E.Kirby	800	3.5	-1.5	-7.5	-14.0
A50 - 5131	Phillips M.D.A.	800	-5.0	-8.0	-21.0	-25.0
A50 - 5132	New World	1600		-14.5	-20.5	
A50 - 5133	James N. Kirby	1000	-12.0	WARM OUT -21.0		-32.0
A50 - 5134	James N. Kirby	1600	-12.0	WARM OUT -21.0		-32.0
A50 - 5135	Bonair (New Zealand)	600	-13.5	-16.5	-22.0	-25.0
A50 - 5136	Kelvinator	1300	0	-5.5	-18.5	-28.0
A50 - 5137	Kelvinator	200	-13.0	-17.0	-23.0	-27.5
A50 - 5138	Kelvinator	800	-1.0	-7.0	-11.5	-17.5
A50 - 5139	Malleys	600	4.0	0.5	-5.0	-9.0
A50 - 5140	Phillips M.D.A.	800	1.3	-5.0	-17.0	-21.4
A50 - 5141	Malleys	400	-2.6	-7.3	-19.0	-27.0
A50 - 5142	Malleys	1600	-8.0	-15.0	-20.0	-29.5
A50 - 5143	Phillips M.D.A.	1000	0	-8.0	-21.0	-28.0
A50 - 5144	Phillips M.D.A.					
A50 - 5145	Simpson Pope N.Z.	1200	-12.5	-16.1	-18.0	-22.2
A50 - 5146	Email	600	14.0	11.0	7.0	3.0
A50 - 5147	Rank Nec	1000	-1.8	-7.2	-18.3	-25.0
A50 - 5148	Phillips M.D.A.	1200	-1.3	-5.0	-17.0	-21.5
A50 - 5149	Cool Air	800		-14.5	-20.5	
A50 - 5239	Frigidaire (New Zealand)	1000	-1.1	-6.7	-19.7	-23.3
A50 - 5246	Frigidaire (New Zealand)	1600	-5.8	-12.2	-18.9	-23.9
A50 - 5571	Kelvinator	800	16.0	13.5	9.0	6.0
A50 - 5572	Kelvinator	600	-8.5	-12.0	-19.0	-22.5
A50 - 52284	Metters	1000	2.0	-4.0	-12.5	-21.5
A50 - 52293	Metters	1000	-9.5	-16.5	-22.5	-32.5
A50 - 52307	Walter Barr N.S.W.	1000	-0.6	COLD IN - 10.6		-23.3

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REPLACEMENT CHARTS : Refer Tech. Pages 152-d thru 152-o and Tech. Pages 152-v thru 152-x.



RANCO REFRIGERATOR/FREEZER THERMOSTATS SPECIFICATION DATA

A59 SERIES THERMOSTATS

1

CODE	ORIGINAL CUSTOMER	REPLACES	CAPILLARY LENGTH mm	TEMPERATURE SETTINGS			
				NORMAL OUT °C	WARM OUT °C	COLD OUT °C	CONSTANT CUT-IN °C
A59 - 2500	Metters N.S.W.	A42 - 4141	1200	-17.2	-12.8 (Ref. only)	-21.7	5.0
A59 - 2501	G.M.H.	A42 - 4135	1000	-20.0	-15.6	-24.4	2.2
A59 - 2502	G.M. New Zealand Ltd.	A42 - 4139	800	-20.0	-15.6	-24.4	3.3
A59 - 2503	Kirby	A42 - 4037	1000	-23.3	-17.8	-28.9	2.8
A59 - 2504	Metters N.S.W.	A42 - 4044	1000	-21.1	-16.7	-25.6	3.3
A59 - 2505	G.M. New Zealand Ltd.	A42 - 4144	800	-22.2	-17.8	-26.7	3.3
A59 - 2506	GENERAL USE	A42 - 4133	1000	-7.0 Ref.	-4.5	-10.0	4.4
A59 - 2507	Frigidaire	A42 - 4088/ 4089	1400	-20.0	-15.6	-24.4	2.2
A59 - 2508	Kru Pty. Ltd.	A42 - 4140	1000	-7.0 Ref.	-4.5 Ref.	-10.0	4.4
A59 - 2508A	Kru Pty. Ltd.		1000	-6.5 Ref.	-3.5	-8.5 Ref.	5.4
A59 - 2509	Frigidaire G.M.H.	A42 - 4076/ 4077	1400	-20.0	-15.6	-24.4	2.8
A59 - 2510	Frigidaire	A42 - 4040/ 4043	1400	-20.0	-15.6	-24.4	2.2
A59 - 2511	A.M.I.R.D. (New Zealand)		800	-25.0	-20.0	-30.0	1.7
A59 - 2512	Email		1000	-21.0	-16.0	-26.0	3.5
A59 - 2513	Email Ltd.		1000	-20.0	-15.0	-25.0	3.5
A59 - 2514	General Motors N.Z.		1000	-20.0	-15.6	-24.4	3.3
A59 - 2515	General Motors N.Z.		1000	-22.2	-17.8	-26.7	3.3
A59 - 2516	Email Ltd. (Con. Prod. Div.)		1000	-24.0	-18.0	-30.0	3.5
A59 - 2517	Malleys		1200		-14.2	-24.5	2.8
A59 - 2518	Email (B/Town)		1200	-21.7	-17.5 Ref. only	-26.0	3.6
A59 - 2519	Email	A59 - 2512 A59 - 2513	1000	-18.3	-13.8	-23.3	3.5
A59 - 2520	Email		1400	-24.0	-18.0	-30.0	3.5
A59 - 2521	J.N. Kirby		1000	-22.5	-18.0	-28.0	5.0
A59 - 8800	Kelvinator	A42 - 4136	600	-23.9	-17.8	-28.3	2.8
A59 - 8801	Kelvinator	A42 - 4126	1200	-23.9	-17.8	-28.3	2.8
A59 - 8802	Kelvinator	A42 - 4127	1200	-22.2	-17.8	-26.7	2.8
A59 - 8803	Kelvinator	A42 - 4128	1200	-21.1	-16.7	-25.6	2.8
A59 - 8804	Kelvinator	A42 - 4129	800	-23.9	-19.4	-28.3	2.8
A59 - 8805	Simpson Pope	A42 - 4130	800	-21.7	-17.2	-26.1	2.8
A59 - 8807	Servex Elect. Vic.	A42 - 4146	1000	-17.0	-13.0	-20.0	4.4
A59 - 8808	Kelvinator		800	-23.9	-18.5	-29.0	4.0
A59 - 8809	Phillips M.D.A.		800	-17.0	-13.0	-21.0	4.5
A59 - 8810	Phillips M.D.A.		800	-24.0	-19.0	-29.0	4.5

SA SERIES THERMOSTATS

CODE	ORIGINAL CUSTOMER	CAPILLARY LENGTH mm	TEMPERATURE SETTINGS					
			NORMAL OUT °C	NORMAL IN °C	COLD OUT °C	COLD IN °C	WARM OUT °C	WARM IN °C
SA 501A	Kelvinator	400	-18.0	-7.0	-24.5			-2.0
SA 501E	Kelvinator 7931B	400	-18.3	-7.2	-24.7			-2.0
SA 523	Kelvinator 12965B	800	-14.5	-3.0	-17.0			-1.0
SA 529		800	-9.4	-2.8	-15.0			+7.8
SA 573	Pope 5000-01-764	400	-18.3	-7.2	-23.3			-1.7
SA 578	Frigidaire 7392015	1000	-16.0	-7.0	-21.0			-15.0
SA 581	Kelvinator KA 11574	200	-18.0	-7.0	-24.5			-2.0
SA 601	ACM	1000	-14.4	-7.2	-19.4			-1.1
SA 604	ACM	1200		-7.5	-25.0		-21.7	-1.0
SA 605	ACM	1800	-11.1	-3.3	-18.3			+3.3
SA 615	ACM	2200	-11.1	-3.3	-18.3			+3.3
SA 616	ACM	1000	-11.1	-3.3	-18.3			+3.3
SA 617	ACM	1000	-14.4	-6.7	-18.9			+2.8

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**RANCO REFRIGERATOR/FREEZER THERMOSTATS
SPECIFICATION DATA**



SA SERIES THERMOSTATS (Continued)

CODE	ORIGINAL CUSTOMER	CAPILLARY LENGTH mm	TEMPERATURE SETTINGS					
			NORMAL OUT °C	NORMAL IN °C	COLD OUT °C	COLD IN °C	WARM OUT °C	WARM IN °C
SA 618	ACM	800	-12.2	-6.1	-16.7			+3.3
SA 619	ACM	1800	-10.0	-2.2	-14.4			+6.7
SA 620	ACM	800	-11.1	-3.3	-15.6			+5.6
SA 621	ACM	800	-10.0	-3.9	-14.4			+5.0
SA 622	ACM	1000	-10.0	-3.9	-14.4			+5.0
SA 623	ACM	800	-17.8	-7.4	-22.8			+2.8
SA 625	ACM	1800			-25.6		-11.1	-3.3
SA 626	ACM	800			-25.6		-11.1	-3.3
SA 627	ACM	1000			-23.3		-8.9	-2.8
SA 628	ACM	800			-23.3		-8.9	-2.8
SA 629	ACM	800	-12.0	-3.5	-19.0			+4.5
SA 630	ACM	1000	-11.1	-3.3	-17.8			+4.4
SA 631	ACM	800	-10.0	-2.2	-16.1			+5.6
SA 632	ACM	800	-13.3	-5.6	-20.0			+1.1
SA 633	ACM	1200	-18.9	-8.9	-27.2			0
SA 634	ACM	1000	-18.3	-13.3	-22.2			-8.3
SA 635	ACM	1800	-27.8	-16.7	-33.3			-11.1
SA 635E	ACM	1200	-26.7	-17.8	-31.9			-10.6
SA 636	ACM	1400	-27.8	-16.7	-33.3			-11.1
SA 637	ACM	1000	-27.8	-16.7	-33.3			-11.1
SA 638	ACM	800	-16.7	-6.7	-24.4			+4.4
SA 639	Frigidaire 7392014	1400	-13.5	-4.5	-19.0			+5.0
SA 641	Frigidaire 7395074	1400	-11.0	-2.0	-18.5			+6.0
SA 642	Frigidaire 7392238	1800	-13.3	-4.4	-19.1			+5.0
SA 728	Kelvinator Refer SA 581	400	-18.3	-7.2	-24.7	-12.5	-12.2	-2.0
SA 948	Kelvinator KA 20704	1200	-18.5	-5.5	-25.0			-0.5
SA 969	Pope 5000-01-763	400	-16.7	-7.8	-21.1			-5.9
SA 972	ACM	1000	-12.2	-3.3	-18.9			+4.4
SA 973	ACM	1000	-10.0	-2.2	-16.1			+5.6
SA 974	ACM	1000	-13.3	-5.6	-20.0			+1.1
SA 975	Pope 5020-02-736	600	-17.0	-5.3	-22.2			-1.4
SA 983	ACM	1000			-23.0		-8.5	-2.5
SA 984	ACM	1000	-13.3	-4.4	-20.0			+3.9
SA 1021	ACM	1000	-18.3	-10.6	-20.8			-5.6
SA 1074E	J.N.Kirby MRT123	800	-15.0	-5.0	-24.7			+5.3
SA 1076	Kelvinator KA 12193	600	-11.0	-3.0	-14.0			+7.0
SA 1085	Pope 5000-48-052	1200	-17.0	-5.3	-22.2			-1.4
SA 1090	J.N.Kirby	1000	-15.0	-5.0	-20.6			-1.1
SA 1167	ACM	1000	-15.0	-7.8	-25.6			-1.1
SA 1168	ACM	1200	-14.5	-7.5	-25.0			-1.0
SA 1169	ACM	2200	-11.0	-3.0	-18.0			+3.5
SA 1170	ACM	1000	-11.1	-3.3	-18.3			+3.3
SA 1171	ACM	800	-12.2	-6.1	-16.7			+3.3
SA 1172	ACM	1000	-10.0	-3.9	-14.4			+5.0
SA 1173	ACM	1000	-10.5	-3.0	-17.0			+4.5
SA 1174	ACM	1200	-18.5	-8.5	-27.0			0
SA 1175	ACM	800	-16.7	-6.7	-24.4			+4.4
SA 1176	Simpson Pope	400	-16.7	-7.8	-21.1			-5.3
SA 1177	ACM	1000	-13.3	-4.4	-22.2			+5.6
SA 1178	ACM	1800	-11.1	-3.3	-20.0			+6.1
SA 1179	ACM	800	-10.0	-2.2	-15.6			+8.3
SA 1204	Servex 4085-111-08	1000	-18.3	-8.1	-20.8			-3.3
SA 1205	Pope 5000-70-019	1200	-19.0	-10.5	-23.0			-5.0
SA 1206	Colda	1000	-14.5	-5.0	-20.0			-1.0
SA 1217	Servex 4085-111-03	1000	-16.5	-6.5	-19.0			-1.5
SA 1218	Pope 5000-77-001	1200	-18.0	-7.0	-23.3			-2.5
SA 1220	Pope 5000-40-139	400	-18.3	-9.4	-22.2			-3.9
SA 1244	Pope 5030-01-050	1600	-17.5	-6.0	-23.0			-2.5
SA 1253	J.N.Kirby MRT128	1000	-16.7	-6.7	-23.3			-1.1
SA 1254	Hallstrom	1400				-10.6	-3.3	0

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RANCO REFRIGERATOR/FREEZER THERMOSTATS SPECIFICATION DATA

SA SERIES THERMOSTATS (Continued)

CODE	ORIGINAL CUSTOMER	CAPILLARY LENGTH mm	TEMPERATURE SETTINGS					
			NORMAL OUT °C	NORMAL IN °C	COLD OUT °C	COLD IN °C	WARM OUT °C	WARM IN °C
SA 1255	ACM	1600	-20.0	-14.5	-25.0			-11.5
SA 1256	Kelvinator	600	-18.3	-7.2	-24.7			-3.0
SA 1257	Pope 5000-121-026	1600			-25.6	-12.2		
SA 1258	J.N. Kirby MRT136	1000	-17.5	-5.0	-27.0			-0.5
SA 1259	Frigidaire 7393293	1000	-20.0	-6.5	-25.5			
SA 1260	Hallstrom	1000	-14.5	-4.5	-20.0			-1.5
SA 1261	Hallstrom	1000	-18.0	-5.5	-24.0			-0.5
SA 1262	Servex 4085-111-04	400	-16.0	-6.0	-18.5			-1.5
SA 1263	J.N. Kirby MCC110-1	400			-7.5	+2.5		+6.4
SA 1264	Metters	800	-18.5	-5.5	-24.5			-0.5
SA 1265	Frigidaire 7399173	1200	-23.3	-16.7	-26.1			-13.9
SA 1266	Metters 01-007-047	800	-23.9	-14.4	-31.1			
SA 1267	Frigidaire 7443900	1400	-19.0	-12.0	-23.5			-5.5
SA 1268	Kelvinator KA31872	400			-3.3	+8.9		
SA 1269	Metters 01041047E	800	-15.5	-9.5	-19.0			-7.0
SA 1270	Servex 4085-111-08	400	-14.5	-7.0	-19.5			-1.5
SA 1271	ACM	1200	-26.7	-17.8	-31.9			-10.6
SA 1272	G.E. Kirby	1000			-26.1	-21.1		
SA 1273	Servex 4085-111-09	1000	-17.0	-7.0	-21.5			-3.5
SA 1274	G.E. Kirby MRT307	1000			-19.0	-14.0		
SA 1275	Metters 01-059-047	800	-20.6	-13.6				
SA 1276	Vendo	1600			-7.0	+3.0		+6.5
SA 1277	Kelvinator KA 36673	200	-20.5	-14.0	-24.0			-11.5
SA 1278	Gen. Motors N.Z.	1000	-19.7	-6.7	-25.6			
SA 1279	Hallstrom	1600	-18.5	-5.5	-24.5			-0.5
SA 1280	Malleys	1000	-14.5	-5.0	-20.0			-1.0
SA 1281	J.N. Kirby	1000	+1.7	+5.6	+0.3			+7.5
SA 1282	Frigidaire 2827814	266	-18.9	-12.2	-23.3			-5.3
SA 1283	Kelvinator KA 41664	200	-21.1	-14.4	-24.4			-11.4
SA 1284	Pope 628-1-16	1600	-19.1	-13.6	-21.1			-7.2
SA 1285	G.E.Kirby 80-300060-601	800	+13.0	+8.0				
SA 1286	Malleys C3776-179	1000			-23.0	-13.0		+1.5
SA 1287	Pioneer	1200	-3.9	+0.8	-7.8			+4.1
SA 1288	Pioneer	2200	+0.3	+4.1	-3.6			+5.8
SA 1289	Arcus	1000	-18.5	-5.5	-28.0			+2.5
SA 1290	Arcus	1400	-17.2	-10.3	-22.0			-6.7
SA 1291	Arcus	1400	+2.5	+8.5	+0.5	+6.0		+10.0
SA 1292	Gen. Motors N.Z.3337132	1600	-14.5	-3.5	-21.0			+7.0
SA 1293	Kelvinator KA43265	200	-22.2	-15.6	-25.6			-12.8
SA 1294	Kelvinator KA41068	1400	-18.3	-5.6	-24.7			-0.3
SA 1295	J.N. Kirby	1600	-20.0	-14.5	-25.0			-11.5
SA 1296	Gen.Motors N.Z.3336720	1000	-23.3	-16.7	-26.1			
SA 1297	Hallstrom	1600	-11.0	-3.5	-18.5			+6.0
SA 1298	Sam Hort P/L	1000			+10.0	+3.5		
SA 1299	G.E. Kirby	1800	-17.0	-5.5	-27.0			-0.5
SA 1501	ACM	1200			+2.0	+6.5		+8.0
SA 1502	ACM	1200			-1.0	+3.5		+6.0
SA 1503	ACM	1200	-17.8	-12.2	-22.8			-7.8

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IF IT IS NOT LISTED IN THIS CATALOGUE – ASK US ANYWAY
WE HAVE MANY ITEMS AND ACCESSORIES TOO NUMEROUS TO LIST
WE CAN PROBABLY HELP YOU

**RANCO REFRIGERATOR/FREEZER THERMOSTATS
SPECIFICATION DATA**



SAM SERIES THERMOSTATS

CODE	ORIGINAL CUSTOMER	CAPILLARY LENGTH mm	TEMPERATURE SETTINGS				
			NORMAL OUT °C	NORMAL IN °C	COLD OUT °C	COLD IN °C	WARM IN °C
SAM 1300	G.E. Kirby Pty. Ltd.	1200			-19.0	-14.0	+1.7
SAM 1301	General Motors N.Z.	1000	-20.6	-14.7	-25.6		-11.7
SAM 1302	Servex Electrical	600	-15.0	-7.8	-25.6		0
SAM 1303	Arcus Metal Products	1400	-17.5	-12.5	-21.0		-6.5
SAM 1304	Valiant Refrigeration	1600	-22.0	-16.5	-27.0		-13.0
SAM 1305	Email Ltd.	400	-17.0	+4.0	-20.0		+6.9
SAM 1306	Email Ltd.	400	-19.0	0	-22.0		+3.5
SAM 1307	Email Ltd.	400	-17.5	-1.5	-19.5		+2.0
SAM 1308	Kelvinator Aust.	400	-21.5	-18.5	-23.5		-16.0
SAM 1309	General Motors N.Z.	1000	-19.7	-6.7	-25.6		+7.2
SAM 1310	Kelvinator Aust.	800	-24.4	-8.9			
SAM 1311	Kelvinator Aust.	400	-21.5	-18.5	-27.5		-16.0
SAM 1312	Mark IV Airconditioning	600			-3.5	+1.0	+14.5
SAM 1313	Mark IV Airconditioning	1000			-3.5	+1.0	+14.5
SAM 1314	Smiths Industries	400			-3.5	+1.5	+14.5
SAM 1315	Air International	400			-3.5	+1.5	+14.5
SAM 1316	Email Ltd.	400	+17.0	+4.0	-20.0		+6.9
SAM 1317	A.F. Gason Pty. Ltd.	600			-3.5	+1.0	+14.5
SAM 1318	A.F. Gason Pty. Ltd.	1000			-3.5	+1.0	+14.5
SAM 1319	Email Ltd.	400	-21.3	-4.6	-23.3		-1.0
SAM 1320	Mark IV Airconditioning	600			-3.5	+1.0	+14.5
SAM 1321	Smiths Industries Hi-Line Industries	600			-2.5	+2.0	+14.5
SAM 1322	Mark IV Airconditioning	1000			-3.5	+1.0	+14.5
SAM 1323	Motor Cool Pty. Ltd.	1000			-3.5	+1.0	+14.5

**GENERAL PURPOSE & REPLACEMENT
TYPE "SA" THERMOSTATS**

CODE	CAPILLARY LENGTH mm (ins)	FACTORY TEMPERATURE SETTINGS					SUGGESTED USE
		COLD		NORMAL		WARM CUT-IN °C (°F)	
		CUT-OUT °C (°F)	CUT-IN °C (°F)	CUT-OUT °C (°F)	CUT-IN °C (°F)		
SA 1168	1200 (48")	-25.0 (-13.0)		-14.5 (+6.0)	-7.5 (+18.5)	-1.0 (+30.0)	General Refrigeration or Freezer
SA 1169	2200 (84")	-18.0 (-0.4)		-11.0 (+12.2)	-3.0 (+26.6)	+3.5 (+38.3)	General Refrigeration
SA 1173	1000 (36")	-17.0 (+1.4)		-10.5 (+13.1)	-3.0 (+26.6)	+4.5 (+40.0)	General Refrigeration
SA 1174	1200 (44")	-27.0 (-16.6)		-18.5 (-1.3)	-8.5 (+16.7)	0 (+32.0)	General Refrigeration or Freezer
SA 1501	1200 (48")	+2.0 (+35.6)	+6.5 (+43.7)			+8.0 (+46.4)	Water or Beverage Cooler
SA 1502	1200 (48")	-1.0 (+30.2)	+3.5 (+38.3)			+6.0 (+42.8)	Water or Beverage Cooler

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RANCO REFRIGERATOR/FREEZER THERMOSTATS SPECIFICATION DATA

SA11 SERIES THERMOSTATS

CODE	ORIGINAL CUSTOMER	CAPILLARY LENGTH mm	TEMPERATURE SETTINGS	
			NORMAL IN °C	NORMAL OUT °C
SA11 - 410	G.H. Stuart	1200 (Flat Coil)	+6.0	+1.0
SA11 - 411	McAlpine Refrigeration N.Z.	1400	+6.0	+1.0
SA11 - 412	Pioneer Refrigeration	2200	+3.5	-7.5
SA11 - 413	F.C. Lovelock	2200	+3.5	-7.5
SA11 - 414	Email	800	-18.0	-11.0
SA11 - 415	Email (Vic.)	800	-10.5	-3.5
SA11 - 416	Phillips M.D.A.	838 (Cross Ambient Bulb)	-15.6	-20.0
SA11 - 417	G.H. Stuart	1800	+7.5	-6.5

F50 SERIES THERMOSTATS

CODE	ORIGINAL CUSTOMER	CAPILLARY LENGTH mm	TEMPERATURE SETTINGS				
			WARM IN °C	NORMAL IN °C	NORMAL OUT °C	COLD OUT °C	DEFROST TERMINATION °C
F50 - 5200	Mettters N.S.W.	1000	-1.5	-7.0	-18.0	-25.0	+6.0
F50 - 5201	Rank Nec Appliance	1000	-1.8	-7.2	-18.3	-25.0	+6.0
F50 - 5202	Malleys	400	-2.6	-7.3	-19.0	-28.0	+6.0
F50 - 5234	G.E. Kirby	1000	-1.5	-7.0	-18.0	-25.0	+7.0

F56 SERIES THERMOSTATS

CODE	ORIGINAL CUSTOMER	CAPILLARY LENGTH mm	TEMPERATURE SETTINGS				
			WARM IN °C	NORMAL IN °C	NORMAL OUT °C	COLD OUT °C	DEFROST TERMINATION °C
F56 - 5101	General Motors N.Z.	1000	-1.7	-5.6	-18.3	-24.7	+8.9
F56 - 5102	Kelvinator Aust.	1200	-0.3	-6.1	-18.0	-24.7	+5.6
F56 - 5103	Sovereign	1000	+1.5	+4.0	-13.0	-21.0	+5.5
F56 - 5104	Kelvinator Aust.	1000	-0.3	-5.6	-18.3	-24.7	+5.6
F56 - 5105	Kelvinator Aust.	1600	-0.3	-5.6	-18.0	-24.7	+5.6
F56 - 5106	Email Ltd.	600	0	-8.5	-18.5	-26.0	+5.5
F56 - 5107	G.E. Kirby	1000	+1.0	-5.0	-15.0	-25.0	+5.5
F56 - 5108	Kelvinator Aust.	1400	+1.0	-5.6	-18.3	-28.0	+5.6
F56 - 5109	Email Ltd.	600	-1.8	-7.2	-18.3	-25.0	+6.0

ORDERING : Refer Page 152. Ranco VaRifix Adaptable Controls — Refer Page 151.
REPLACEMENT CHARTS : Refer Tech. Pages 152-d thru 152-o and Tech. Pages 152-v thru 152-x.

RANCO SERVICE HINTS

CAUTION ON HANDLING CAPILLARY TUBING

Do not permit any portion of the power element capillary tube to TOUCH ANY PART OF THE EVAPORATOR which might be colder than the spot where the BULB or CAPILLARY TUBE (used as a bulb) is clamped.

Should the capillary tube be longer than required, coil up the excess tubing and tape it together to prevent rattling from vibration. Excessive vibration may cause power element failure.

Avoid making any sharp bends, kinks, strains and pinch marks on the capillary tube, and using it in the place of or as a piece of wire.

Provide a loop on the tubing to prohibit water following the capillary tube to the inside of the control and electrical switch, a condition sometimes found on window air conditioners.

CARE IN WIRING TO CONTROL TERMINALS

Check the total electrical load to be sure it is within limits of the rating stamped on the control.

It is recommended not to reform or cut-off any terminals in the Field. Quick-connect type terminals should not be drilled or tapped. Shift in temperature settings may develop.

Electrical leads should not be taut to the control terminals, and if water can follow the leads to the control, make a drip loop.

GENERAL CARE ON MOUNTING CONTROLS

A shift in control settings may occur and be caused by a bend, twist, or strain set up within the control by some adverse mounting arrangement.

A dial knob that is forced onto the replacement dial shaft may, when mounted, cause the temperature setting to shift.

Rough handling of the control, like pounding with a rubber mallet, may cause a setting shift or irreparable damage.

RANCO DOMESTIC THERMOSTATS
KELVINATOR - LEONARD - HMV



MODELS	THERMOSTAT		
	MANUF. Bin No.	MANUF. P/N	RANCO P/N
M5W, A55, ASB5, ASC5, AS6, SAS5, AS7, ASB7 Kelvinette 1200 12c.ft.20c.ft.30c.ft.	A105	KA12193	SA518, SA1076 Temp.
NHC, 245, 465, ASD7, 208, 218, 219, 209, 229, 211, 227	A83	KA7931	SA501E Temp.
225, 226, 217 (208, 218 Early Models).	A86	KA12965	SA523 Temp.
485, 447, 477, 419, 439	A112	KA11574	SA728, SA581 Temp.
449, 463, 212, 213, 214, 216, 224, 230, 250, 252, 368, 318, 539, 560, 570, MO90VA, MO90WA, M250VC, 250MV3 Now use PH458 (KA46000)	PC20	KA20704	SA948E Temp.
M250VC, 250MV3	PH458	KA46000	A50-5126 Temp.
489, 469, 482, 682, 689. Now use PC640 (SR2170)	PC544	KA26943	A26-164, A42-4129 Temp.
489, 469, 482, 682, 689	PC640	SR2170	A59-8804 Temp.
466, 476, 493, 577, 568, 578, 676, 693, 694, 518, 579, 580, C124SA, C124VA, C124WA. Now use PD841 (KA45963)	PD76	KA27080	A26-163, A42-4126 Temp.
C124SA, C124VA, C124WA	PD841	KA45963	A59-8801 Temp.
686 — Now use PD207 (KA28737)	PD695	KA33524	O51B Temp.
976, 993, 387, 388	PD207	KA28737	A26-172, A42-4127 A59-8802 Temp.
486, 496, 508, 588, 509, 519 Now use PD842 (SR2169)	PD432	KA32169	A26-181, A42-4128 Temp.
486, 496, 508, 588, 509, 519	PD842	SR2169	A59-8803 Temp.
778, 788, 770, 790	PF228	KA36673	SA1277 Temp.
888, N220FA, N220EB Now use PG506 (KA45899)	PF533	KA38625	A52-154 Temp.
888, N220FA, N220EB, N600EC, 600NE3	PG506	KA45899	A50-572 Temp.
C160GC, C160GF Now use CZ52 (203255)	CZ820	Z234099	
D600, D601, D602	CZ52	203255	A42-1006, A59-8601 Temp.
C160HG, 160CH7, C310HF, C310CH6, C310HG, 310CH7, C350HG, 350CH7, C360HE, 360CH5, C360HG, 360CH7, C370HF, 370CH6, C410HF, 410CH6, C410HG, 410CH7	CZ861	203793	A59-8609 Temp.
769, C144HA, C144NA, C144WA, C180GA, C180WA, C125WB C125RB, Now use PH300 (KA51553/KA45917)	PF777	KA40327	A42-4136 Temp.
C144SB Now use PH300 (KA51553/KA45917)	PG726	KA47569	A42-4136 Temp.
C340RC, 340CR3, C340TC, C340YC, C340ZC, C340SE, C380HC, 380CH3, C380NC, C380SC, C380SE, C380TC, C480GC, 480CG3, C480NC, C480SC, C480SE	PH300	KA51553 KA45917	A59-8800 Temp.
779, 789, N180FA, N180SA, N180SB Now use PH918 (KA57025)	PF683	KA41664	SA1283 Temp.
N180FC, 480NF3, N480TC Now use PH918 (KA57025)	PH213	KA45953	A50-5108 Temp.
N180FC, 480NF3, N480TC	PH918	KA57025	A50-5108 Temp.
N144FA, N144GA, N144WA, N144WB Now use PH917 (KA57026)	PG242	KA43265	SA1293 Temp.
N380FC, N380GC, 380NF3, N380TC, N380YC Now use PH917 (KA57026)	PH212	KA45954	A50-5109 Temp.
N380FC, N380GC, 380NF3, N380TC, N380YC	PH917	KA57026	A50-5109 Temp.
M138VA, M138WA Now use PG790 (SR1890) & 2 Clips V154	PG337	KA41068	SA1294 Temp.
M138VA	PG790	SR1890	A50-5110 Temp.
M360VC, 360MV3	PH29	KA49605	A50-5107 Temp.
C350VC Now use PK125	PK58	2171-125	A59-L0108 Temp.
C350VC	PK125		A59-2504 Temp.
450NG3, 500NG3 Now use PL71 (1228410)	PL205	1229314	
400NG3, N450GC, N500GC	PL71	1228410	9530 N449 Temp.
N400GC, N500GC, N620GC, 620NG3, Now use PH555 & PH556	PL567	1231175	GE Temp.
N510FD, 510NF4, N610EE, 610NE5	PH555	KA47397	SA1308 Temp.
C340RF, 340CR6, C340FG, 340CF7, C480HF, 480CH6, C480SF, C480FG, 480CF7	PJ61	KA56069 KA55944	A59-8808 Temp.
M360VF, 360MV6	PJ41	KA54925	A50-5136 Temp.
C380HF, 380CH6, C380SF	PJ336	KA57536	SART6AF1 Temp.
N380FF, 380NF6	PJ341	KA56517	A50-5137 Temp.
N510FF, 510NF6, N610FF, 610NF6	PJ129	KA57204	SA1311 Temp.
Lady "K" KA31M, KB31M, Now use A438 (E81966)	A345	E71570	KCA1A6/B15 Temp.
Lady "K" K31RU/4, K315/4, K33Z/4 Now use A438 (E81966)	LK54	(E73934) (E75747)	KCA/T1/S27 Temp.
Lady "K" K31RU/4, K315/4, K33Z/4, KA31M, KB31M	A438	E81966	KCA/T1/S27 Temp.
Lady "K" K31R/4	LK57	E74288	A50-125 Temp.
Lady "K" K33B/4, K33C/4, K33D/4 Now use LK208 (E81965)	LK151	(E75947) (E74611)	KCA/T2/S27 Temp.
Lady "K" K33E/4	LK208	E81965	KCA/T2/S27 Temp.
463, 560, 570	PD104	KA28974	E11-2533 Auto.Defrost.
439, 477, 485	A111	KA11573	E13-2500 Auto.Defrost.
486, 496, 676, 686, 694, 588, 508, 509, 519	PD266	KA29295	E11-2538 Auto.Defrost.
976, 993	PD208	KA28917	E11-2534 Auto.Defrost.
778, 788, 770, 790	PF227	KA36855	E11-2403 Auto.Defrost.
888 Now use PF854 (KA42756)	PF540	KA38069	DFC4H-14A Auto.Defrost.
888, N220FA, N220EB, N600EC, 600NE3	PF854	KA42756	DFC4H-14B Auto.Defrost.
779, 789, N180SA, N180SB, N480FC, 480NF3, N480TC	PF635	KA39531	DFS-55B Auto.Defrost.
N140FA, N144GA, N144WA, N144WB, N380FC, N380GC, N380YC, 380NF3, N380TC, N380FF, 380NF6, N510FD	PG234	KA43881	GF539-29 Auto.Defrost.
400NG3, 450NG3, 500NG3, N450GC, N400GC, N500GC	PL157	1228443	FP539-21 Auto.Defrost.
N620GC	PL504	1230355	GR539-21 Auto.Defrost.
N610EE, 610NE5, N610FF, 610NF6 Now use PJ514 (KA59139)	PH769	KA56413	NK539-21 Auto.Defrost.
N610EE, 610NE5, N610FF, 610NF6	PJ514	KA59139	NK539-21 Auto.Defrost.

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ORDERING : Refer Page 152. Ranco VaRifex Adaptable Controls — Refer Page 151.

ADDITIONAL REPLACEMENT CHARTS : Refer Tech. Pages 152-d thru 152-o.

SPECIFICATIONS & TECHNICAL DATA : Refer Tech. Pages 152-a thru 152-c and Tech. Pages 152-p thru 152-u.



RANCO DOMESTIC THERMOSTATS

KELVINATOR - LEONARD - HMV

MODELS	THERMOSTAT		
	MANUF. BIN No.	MANUF. P/N	RANCO P/N
221, 267, 269, 275, 429, 467, 476/56	A87	KA13154	F14-113 Push Button
P360RC, 360PR3	PH202	KA49606	F56-5102 Push Button
232, 241, 271, 272, 453, 462, 469 Now use PH56(KA46067) & 2 clips V154	PC19	KA20703	F14-119 Push Button
234, 276, 377, 378, 453, 456, 557, 558, 348, P100 Now use PH56(KA46067) & 2 clips V154	PC581	KA29549	F14-166 Push Button
P250VC, 250PV3, P250YC, P250TC	PH56	KA46067	F56-5104 Temp. & Defrost
P360RF, 360PR6	PJ42	KA54914	F56-5108 Push Button
P138NA, P138RA, Now use PG789 (SR1891) & 2 clips V154	PG325	KA41069	F14-203 Temp & Defrost
P138RA	PG789	SR1891	F56-5105 Temp. & Defrost
N144FA, N144GA, N144WA, N144WB, N380FC, N380GC, N380YC, N380TC, 380NF3	PG233	KA42962	M1Y Defrost Termination
N510FD, 510NF4, N610EE, 610NE5 Now use PJ128 (KA55041)	PH557	KA47922	20640D Y158 D'fst. Term.
N510FD, 510NF4, N510FF, 510NF6, N610EE, 610NE5, N610FF, 610NF6 Now use PJ128 (KA55041)	PJ227	KA57201	
N380FF, 380NF6	PJ128	KA55041	K7Y Defrost Termination
N620GC, 620NG3	PL620	1231478	C4V Defrost Termination
N400GC, N450GC Now use PL137 (1228589)	PL310	1227771	T3V Defrost Termination
400NG3, 450NG3, 500NG3, N500GC	PL137	1228589	L50 Defrost Termination
N620GC Now use PL620 (1231478)	PL456	1230220	L60 Defrost Termination
888, N180FA, N180SA, N180SB, N220EB, N220FA, N380FC, N380GC, N380TC, N380YC, 380NF3, N480FC, N480TC, 480NF3, N600EC, 600NE3, Now use PH903 (KA56455)	PF553	KA38627	B11-504 Baffle
N380FF, 380NF6	PH903	KA56455	B11-509 Baffle
779, 789 Now use PG548 (KA45396)	PF638	KA39138	B11-505 Baffle
N144FA, N144GA, N144WA, N144WB	PG548	KA45396	B11-505 Baffle
N510FD, 510NF4 Now use PH886 (Damper)	PH519	KA47898	B11-507 Damper
N510FD, 510NF4, N510FF, 510NF6, N610EE, 610NE5, N610FF, 610NF6	PH886	KA56464	B11-508 Damper
N620GC, 620NG3	PL361	1226883	B11-132 Damper
N450GC Can use PL57 (1228594)	PL287	1229017	Plastic Damper
400NG3, 450NG3, 500NG3 Can use PL287 (1229017)	PL57	1228594	Plastic Damper
993	PD215	KA28649	L135-3 Fan Speed
976	PF174	KA32806	L135-3 Fan Speed
N220EB, N600EC, 600NE3. Betts A120 Motor	PG602	KA44800	FS100 Fan Speed
N600EC, 600NE3 Betts A120 - 2 Motor	PH625	KA53960	C808/00 Fan Speed
FF6 Now use CZ344 (39113)	CZ503	273060	A10-1368 Temp.
FF60 Now use CZ344 (39113)	CZ666	320088	A10-1457, A10-1381 Temp.
FF60, FF220, FF60/1, FF100/1, FF160, FF160/1, FF220/1, AHF62, AHF102, AHF162, AHF224 Now use CZ344 (39113)	CZ640	321088	A10-3537 Temp.
H160GC, H200FF, H200GD, H340FF, H340GD, H430GC, H500FF, H500GD, H600GC, H700FF, H700GD With Signal Circuit	CZ344	39113	A54-8214 Temp.
H200FF, H340FF, H500FF, H700FF With Signal Circuit	CZ848	816001	A54-8232 Temp.
FF6, FF10 With Signal Circuit.	A113	KA14298	A10-3503, SA2501 A54-2910 Temp.
FF85, FF86 With Signal Circuit	A399	KA30018	A10-3545 Temp.
VF10 Now use A461 (SR1562)	A88	KA14575	SA775 Temp.
VF105 Now use A461 (SR1562)	A46	KA17726	SA2595 Temp.
VF10, VF105	A461	SR1562	A10-1201 Temp.
VF231, VF236, VF436, VF337, VF537, VF338, V538, VF434, F100LA	A343	KA25225	A10-1201x1337 SA-M1310 Temp.
F118LB, F310LC, 310FL3, F310HF, 310FH6 Now use PG801	PG463	KA45674	A55-1003 Temp.
F330LD	CF54	10-273	A50-583 Temp.
H250GD	CF19	10-404	A50-218, A50-603 Temp.
FF13, FF15, FF22 Now use CZ344 (39113)	CZ385	KA30115	A10-3537 Temp.
FF15, FF22, (Series CAV CAZ) Now use CZ344 (39113)	CZ509	ZE288028	A10-3756 Temp.
AHF162, AHF224	CZ236	337094	Fast Freeze
VF436, VF537, VF538	V382	KA30240	Stemco MP22 Sig. Light
RAC 0504, 0506 Can use RW144	RW17	742053	DR15-C294635 Temp.
RAC 0542, 0562 Can use RW17	RW144	744176	Klixon 187C 144H01 Temp.
RAC 0822, ARJ08225 Now use RD439 (KA47627)	RD202	KA45431	A55-6008 Temp.
RAC 0822, ARJ08225	RD439	KA47627	A55-6016 Temp.
RAC 625 750	A1	KA17575	SCA378 Temp.
RAC 1000, 2531	A84	KA19225	C17-140 Temp.
RAC 1032 Now use RC505 (KA38991)	RC558	KA38993	Temp.
RAC 2503, 1021, 1031, 1032, 1042, 1531, 1542, 1661, 1661/3, 1521, 1721, 1742, 1742/3, 2042, 51D2, 51E2, 51E6, 51E7, 51E8, 51E-090, 51E-190, 51E-165, AK093M, AK123M, AR173M, AK203M, AW093M, AW123M, AW173M, AW203M, ARA1042S, ARC1542S, ARE1742S, ARG2042S, MDJ115, MDJ165 Late Models Now use RC652	RC505	KA38991	C17-505 Temp.
As for RC505	RC652	SR2079	C17-506 Temp.
RAC 1005, 1008, 1508, 1758, 51C3, 51C4, 51C6, 51C7, MDJ115R, MDJ165R Early Models.	RC350	KA31504	C17-308 Temp.
RAC 1002 to Serial No. 1241	RC298	KA31872	SA1268 Temp.
RAC 1002 From Ser./No. 1242, 1500, 1502, 1750, 1752	RC68	KA23510	C17-192 Temp.

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ORDERING : Refer Page 152. Ranco VaRifix Adaptable Controls – Refer Page 151.
 ADDITIONAL REPLACEMENT CHARTS : Refer Tech. Pages 152-d thru 152-o.
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RANCO DOMESTIC THERMOSTATS
KELVINATOR - LEONARD - HMV



MODELS	THERMOSTAT		
	MANUF. BIN No.	MANUF. P/N	RANCO P/N
RAC 51D3, 51D4, 51D6, 51E4, 51E6, 51E7, 51E8, 1051, 1081, 1082, 1581, 1582, 1781, 1782, 2082, 51E-090R, 51E-190R, 51E-165R, AK126M, AW126M, AK096M, AW096M, AK176M, AW176M, AK206M, AW206M, ARB1082S, ARD1582S, ARF1782S, ARH2082S, MDJ115R, MDJ165R Late Models.	RC537	KA38992	C17-506 Temp.
RAC A23R1 Now use RD868	AD6111	219-1240	TWK-55G0002 Temp.
RAC A23R1	RD868	219-1341	T6060B1104 Temp.
RAC 51F1, 51F2, 51F4, 51F6, 51F7, 51F8, 51F1E, 51F6E, 51F7E, 51F8E, ARK, ARL, ARM, ARN, ARP, ARR, ARV, ARW, ARX, ARY, ARAA, ARAB, ARAC, ARAD, ARAE, ARAG, CN185C, CN185D, EN185C, EN185D, 185BC6, 185BE6, EN180G, CF230G, EN230G, RF230G, CT235C, CT235D, EN235C, EN235D, ER235C, ER235D, RF235C, RF235D, RF310G, CF320E, EN320C, EN320D, RF320C, RF320D, 320BC6, 320BE6, 320BR6, CN400F, EN400F, CF400G, EN400G, RF440G, CF450C, CF450D, CF450F, EL450C, EL450D, EL450F, EN450C, EN450D, EN450F, RF450C, RF450D, RF450F, 450BC6, 450BE6, 450BR6, RF500G, CF510G, EN510G, EN515D, RF515D, 515BE6, 515BR6	RD474	KA49975	CB28-3900 Temp.
RAC K3-825 Now use RE12 (G117510)	RE11	X111148	3ART 17L4 Temp.
RAC K41235, K41235A, KAC41255, KAC41255A, KAC41455, KAC41755, LAC41255, SD41255, SD41255A	RE12	G117510	3ART17L9 Temp.
RAC CE150F, 150BC6	RE298	X503715	3ART44RB1A7 Temp.
RAC 1005, 1008, 1500, 1508, 1750, 1758, 1081, 1581, 1781, 51C4, 51D4, 51C6, 51D6, 51C7, 51D7, MDJ115R, MDJ165R, 1501, 51C3, 51D3	RC124	KA24452	D62-4331 Heater
RAC H1000 less heater Now use RC124 (KA24452)	A85	KA19227	D52-503 De-Ice
RAC H1000 HA1000 less heater Now use RC124 (KA24452)	RB245	KA21928	D52-503 De-Ice
RAC 1082, 1582, 1782, 2082, 51E-090R, 51E-165R, 51E-190R, AK096M, AK126M, AK176M, AK206M, AW096M, AW126M, AW176M, AW206M, A23R1, 51E4, 51E6, 51E7, 51E8, 51F4, 51F6, 51F7, 51F8, ARL, ARN, ARR, ARX, ARAA, ARAC, ARAE, ARB1082S, ARD1582S, ARF1782S, ARH2082S, RF235C, RF235D, RF320C, RF320D, RF450C, RF450D, RF450F, RF515D, CF450D, RF310G, 320BR6, RF440G, RF450F, CF450C, CF450F, 450BC6, 450BR6, RF500G, 515BR6	RC617	KA44156	D62-4333 De Ice
RAC 1042, 1082, 1742, 1742/3, 1782, 2042, 2082, 51E090, 51E090R, 51E165, 51E165R, 51E190, 51E190R, AK093M, AK096M, AK173M, AK176M, AK203M, AK206M, A23R1 Now use RD826 (KA53718)	RD17	KA42001	20610L-Y69 Heater O/load.
RAC 51E2, 51E4, 51E6, 51E7, 51E8, 51F2, 51F4, 51F6, 51F7, 51F8, 51F1E, 51F6E, 51F7E, 51F8E, 1542, 1582, ARK, ARL, ARM, ARN, ARP, ARR, ARAD, ARAE, AW093M, AW096M, AW123M, AW126M, AW173M, AW176M, AW203M, AW206M, AK123M, AK126M, ARA1042S, ARB1082S, ARC1542S, ARD1582S, ARE1742S, ARF1782S, ARG2042S, ARH2082S, EN185C, EN235C, EN320C, EN450C, EN515D, ER235C, RF235C, RF320C, RF450C, RF515D, Now use RD826 (KA53718).	RD355	KA46866	20611L-Y122 Heater O/load.
RAC 51F2, 51F4, 51F6, 51F7, 51F1E, 51F6E, 51F7E, ARW, ARX, ARY, ARAA, ARAB, ARAC, EN180G, EN185D, 185BE6, EN230G, RF230G, EN235D, ER235D, RF235D, RF310G, EN320D, RF320D, 320BC6, 320BE6, 320BR6, EN400F, EN400G, RF440G, CF450C, CF450D, CF450F, EL450C, EL450D, EL450F, EN450D, EN450F, RF450D, RF450F, 450BC6, 450BE6, 450BR6, RF500G, EN510G, 515BE6, 515BR6	RD826	KA53718	20601L-Y171 Heater O/load.
RAC 2531	RWC98		B155F Hot Gas
RAC KC2555Q, LC2555Q, SD2555Q, KAW2575K	RE246	X501678	Thermo Disc.
Kirby Colda Rota Frig. President. Now use M855 (SA1168)	M648		SA1167 Temp.
Kirby Colda Rota Frig. President	M855		SA1168 Temp.
Servex STC Coldstream President	M653		SA1173 Temp.
Pope Now use M652 (SA1174)	M647		SA1176, SA1174 Temp.
STC Now use M652 (SA1174)	M663		SA1177, Temp.
Kirby Pope STC	M652		SA1174 Temp.
Frigidaire	M658		SA5578 Temp.
General Use Now use A105 (KA12193 with A23 (Knob) & A400 (Escutcheon)	A69		SA1076 Temp.
General Use	A103		RJS-830 Temp.
Freezers	A422		SA1168 Temp.

ORDERING : Refer Page 152. Ranco VaRifix Adaptable Controls -- Refer Page 151.
 ADDITIONAL REPLACEMENT CHARTS : Refer Tech. Pages 152-d thru 152-o.
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TELEPHONE YOUR ORDERS



**IF FIRM PRICES ARE REQUIRED, CALL US
FOR A QUOTATION.**

NOTES

1

FIGURE THE ODDS
BECAUSE WE BELIEVE OUR STOCK IS ONE OF THE LARGEST AND MOST COMPREHENSIVE IN THE ENTIRE INDUSTRY, THE MATHEMATICAL ODDS OF FINDING WHAT YOU WANT, WHEN AND WHERE YOU WANT IT, HAVE TO BE BETTER AT ACPAR THAN ANYWHERE ELSE.
IF TIME IS MONEY, WHY WASTE IT BY LOOKING ELSEWHERE.

NOTES

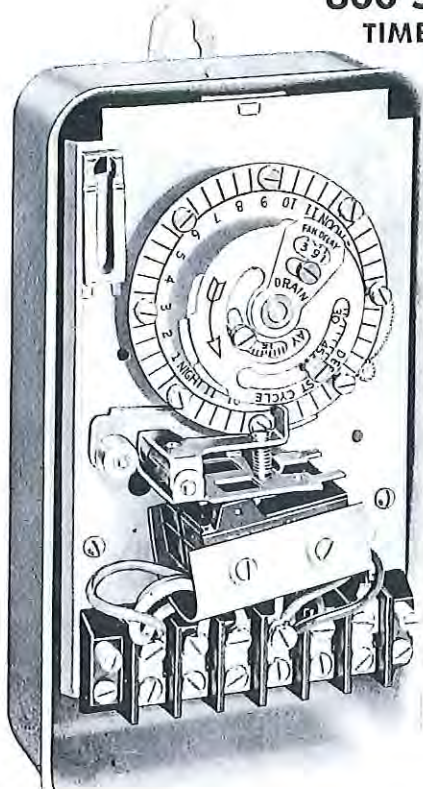
ONE STOP BUYING

NOW-A-DAYS, THE RELATIVELY HIGH PAY RATES OF MECHANICS AND SERVICEMEN MAKES IT UNECONOMIC TO RUN AROUND TO DIFFERENT SUPPLY HOUSES FOR ODD BALL ITEMS. YOU CAN FIND MOST ANYTHING FOR REPAIR OR INSTALLATION OF REFRIGERATION, AIR CONDITIONING AND HEATING AT YOUR ACPAR CENTRE.

PARAGON TIME CONTROLS

600 SERIES DEFROST CONTROLS

TIME INITIATED - TIME TERMINATED



CAT. NO.
1551

AN EXCLUSIVE DESIGN FOR REFRIGERATION DEFROST SYSTEMS WITH PUMP DOWN, DRAIN, OR FAN DELAY CYCLES

- Defrost initiation adjustable from 1 to 8 cycles per day
- Delay or pump down cycle adjustable from 0-30 minutes
- Defrost duration adjustable from 3-45 minutes
- Drain or fan delay cycle adjustable from 3-15 minutes
- Field-proven heavy-duty synchronous timing motor
- Unequaled versatility and accuracy

Four circuit sequence switching for water spray and hot gas or electric heat fan delay defrosting
SPECIFICATIONS.

Defrost Initiation:
Adjustable from 1-8 cycles per day; minimum 3 hours between successive cycles

Delay or Pump Down Cycle:
Adjustable from 0-30 minutes; 3 min. graduation; for stopping fans, reducing refrigerant pressure, or hot gas pump down cycle

Defrost Cycle:
Adjustable from 3-45 minutes; 3 min. graduation

Drain or Fan Delay Cycle:
Adjustable from 3-15 minutes; 3 min. graduation

Sequence Switching:
2NO 2NC

Switch Ratings:
10 Amps, 345 VA pilot duty 120-240 VAC. Switches 2-4 and 3-4 carry ½ HP rating

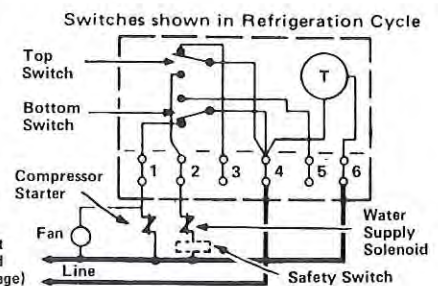
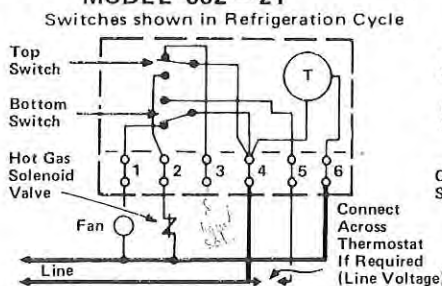
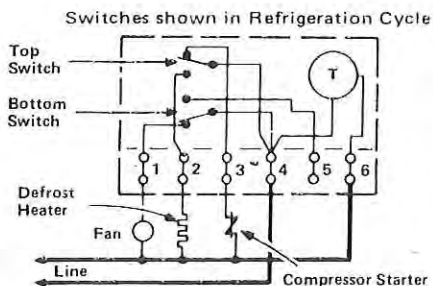
Enclosure:
Heavy steel gasketed case; grey wrinkle finish, knockouts on bottom, side, and back; hasp and staple for padlock.

Shipping Weight:
4¾ pounds. (2.2 kg)

Model Selection:
Model 632-21 (240 Volts, 50Hz) replaces 631

Dimensions: (Approx.)
9-5/8" high x 5-3/8" wide x 5-1/31" deep
(245mm) (137mm) (128mm)

SUGGESTED WIRING DIAGRAMS (Switches shown in refrigeration cycle) MODEL 632 - 21



Wiring Diagram for Elec. Heat Defrosting with Fan Delay.

Wiring Diagram for Hot Gas Defrosting with Fan Delay.

Wiring Diagram for Water Spray Defrosting.

These are only suggested methods of wiring the defrosting time control. External wiring should be connected in accordance with local electrical codes. All auxiliary switches are to be supplied by others.

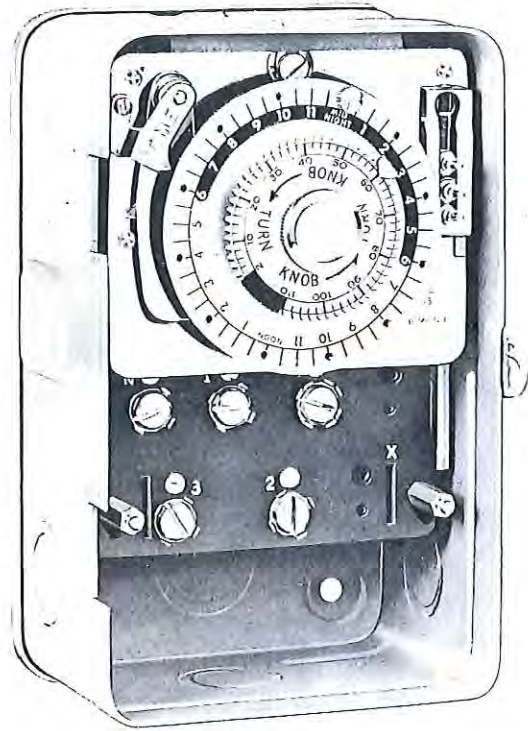
PARAGON TIME CONTROLS

8040 SERIES DEFROST CONTROLS

CAT. NO.
15517

FOR BASIC DEFROST SYSTEMS USING TIME INITIATION AND TIME TERMINATION

- Positive slider bar switch action
- EXCLUSIVE 40 Amp, 2HP contacts
- Choice of four contact arrangements for electric heat, hot gas, or compressor shutdown defrost
- EXCLUSIVE heavy duty synchronous timing motor
- Simplified setting of both defrost initiation and duration
- King size terminal screws accommodate up to No. 8 wire



SPECIFICATIONS.

Frequency of Defrost Initiation:
Adjustable from 1 to 6 cycles per day; minimum of 4 hours between successive operations

Duration of Defrost Cycle:
Adjustable from 4 to 110 minutes in 2 minute increments.

Accuracy of Defrost Duration:
+ or - 2 minutes

Switch Rating:
40 Amps, 2 HP per pole; 690 VA pilot duty
120-240 Volts, AC

Operating Voltage:
240 Volts. 50Hz.

Case:
Heavy steel enclosure. Grey wrinkle finish. Knockouts on bottom, back and sides. Hasp and staple for padlock. Available on bracket for sub-panel mounting.

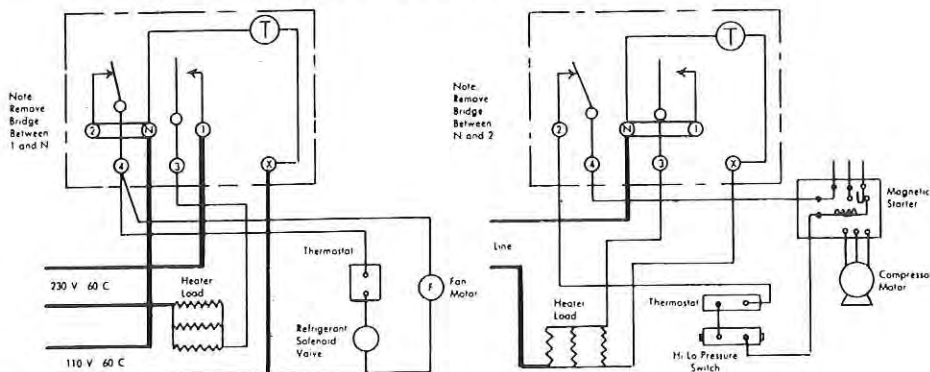
Motor:
Heavy duty synchronous industrial type

Shipping Weight:
3½ pounds. (1.6 kg)

Dimensions: (Approx.)
7-3/8" high x 4-11/16" wide x 4" deep
(188mm) (119mm) (102mm)

Model	Replaces Model No.	Volts 50 Hz	Description	Switch Arrangement Contacts			Adj.Length Of Defrost
				2-4	1-3	3-N	
8045-21	8015	240	For Electric Heat, Hot Gas, or Compressor Shutdown Defrosting	Closed	Open	None	4-110 Min.

WIRING DIAGRAMS FOR ELECTRIC HEAT DEFROSTING



PARAGON TIME CONTROLS

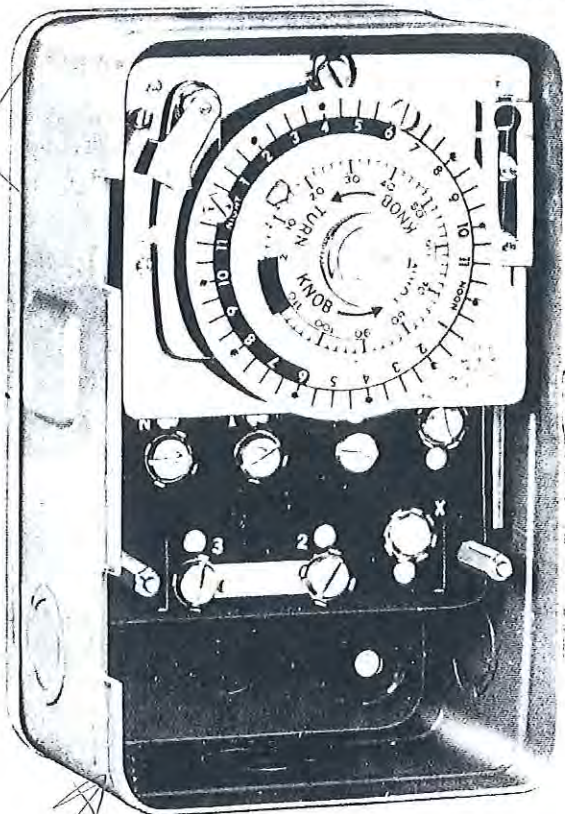
8140 SERIES DEFROST CONTROLS

TIME INITIATED, REMOTE TEMPERATURE OR PRESSURE TERMINATED

1

DEFROST CYCLE IS CONTROLLED BY LOAD CONDITIONS FOR MAXIMUM ECONOMY

- Works with an external temperature or pressure sensor
- Back-up Mechanical Defrost Termination protects against sensor malfunction
- Choice of three contact arrangements for electric heat, compressor shutdown, or hot gas defrost
- EXCLUSIVE 40 Amp, 2HP contacts
- Positive slider bar switch action



MODEL 8143-21	MODEL 8145-21
CAT. NO. 15516	CAT. NO. 15515

SPECIFICATIONS.

Frequency of Defrost:
1 to 6 cycles per day. A minimum of 4 hours between successive defrost cycles.

Adjustable Back-up Defrost Termination:
Adjustable from 4-110 mins. in 2 min. increments.

Switch Ratings Per Pole:
40 Amp, 2HP, 690 VA Pilot Duty, 120-240 Volts AC.

Operating Voltage:
240 Volt, 50Hz.

Motor:
Heavy duty, synchronous industrial type.

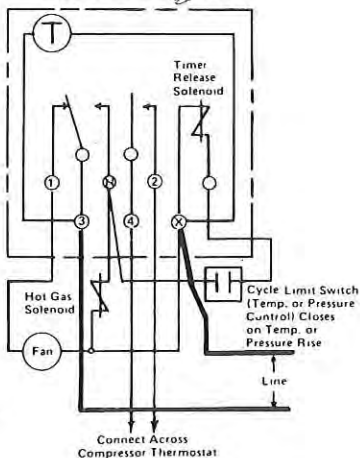
Case:
Heavy steel enclosure. Grey wrinkle finish. Knockouts at bottom, back and sides. Hasp and staple for padlock.

Shipping Weight:
3 3/4 lbs. (1.7 kg).

Dimensions: (Approx.)
7-3/8" high x 4-11/16" wide x 4" deep.
(188mm) (119mm) (102mm)

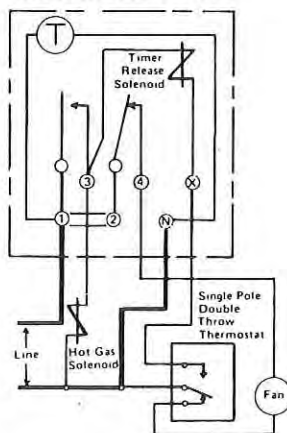
MODEL	REPLACES	VOLTS 50 Hz	NORMAL POSITION OF CONTACTS DURING REFRIGERATION CYCLE		
			CONTACT N-3	CONTACT 1-3	CONTACT 2-4
8143-21	8104	208/240	Open	Closed	Open
8145-21	8106	208/240	None	Open	Closed

HOT GAS DEFROSTING MODEL 8143 - 21



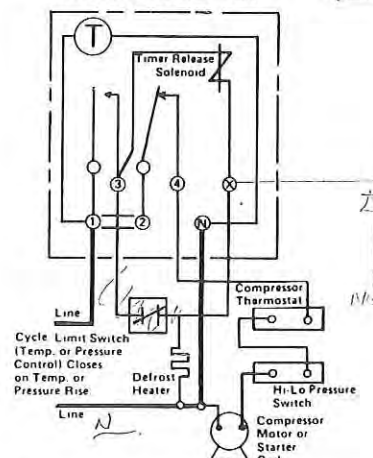
Wiring using 120V or 240V single phase line with compressor thermostat shorted out during defrost.

HOT GAS DEFROSTING MODEL 8145 - 21



Wiring using the differential of a SPDT thermostat to delay the fan after defrost.

HOT GAS DEFROSTING MODEL 8145 - 21



Normally closed thermostat used with defrost heater. Wiring using 120V or 240V single phase line compressor voltage common to timer.

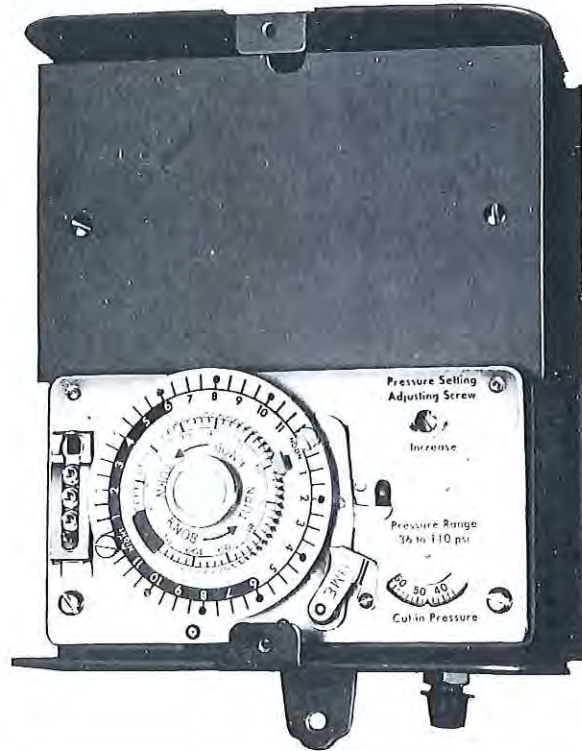
These are only suggested methods of wiring the defrosting time control. External wiring should be connected in accordance with local electrical codes. All auxillary switches are to be supplied by others. Switches are shown in refrigeration cycle.

PARAGON TIME CONTROLS

8240 SERIES DEFROST CONTROLS

DEFROST IS TERMINATED BY AN INTEGRAL PRESSURE BELLOWS FOR MAXIMUM EFFICIENCY AND ECONOMY

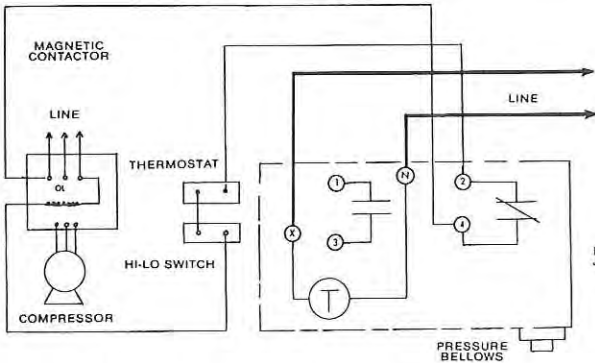
- EXCLUSIVE direct read out dial for cut-in pressure
- Wide range of cut-in pressure adjustability
- Back-up Mechanical Defrost Termination protects against sensor failure
- EXCLUSIVE modular pressure bellows
- Positive slider bar switch action
- Three contact arrangements for hot gas, electric heat, or compressor shutdown defrost
- EXCLUSIVE 40 Amp, 2 HP contacts
- Field-proven heavy-duty timing motor



MODEL	REPLACES	VOLTS 50 Hz	NORMAL POSITION OF CONTACTS DURING REFRIGERATION CYCLE		
			CONTACT 2-4	CONTACT 1-3	CONTACT N-3
8245-21	8206 - 8226	208-240	CLOSED	OPEN	NONE

CAT. NO.	15514
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Wiring Diagrams for Compressor Shut-Down Defrosting
MODEL 8245 - 21



SPECIFICATIONS

Frequency of Defrost :
1 to 6 cycles per day. A minimum of 4 hours between successive defrost cycles.

Back-up Defrost Termination :
Adjustable from 4 - 110 minutes in 2 minute increments.

Switch Ratings Per Pole :
40 amp, 2 HP, 690 VA Pilot Duty, 120 - 240 Volts AC.

Pressure Settings :
All models have adjustable cut-in pressure setting dial calibrated from 36 - 110 pounds (248 - 758 kPa) for R12, R22, R502.

Case :
Heavy steel enclosure. Grey wrinkle finish. Knockouts on top.

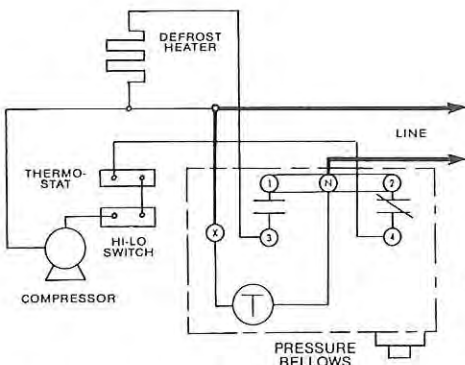
Operating Voltage :
240 Volt, 50 Hz, AC.

Motor :
Heavy duty, synchronous industrial type.

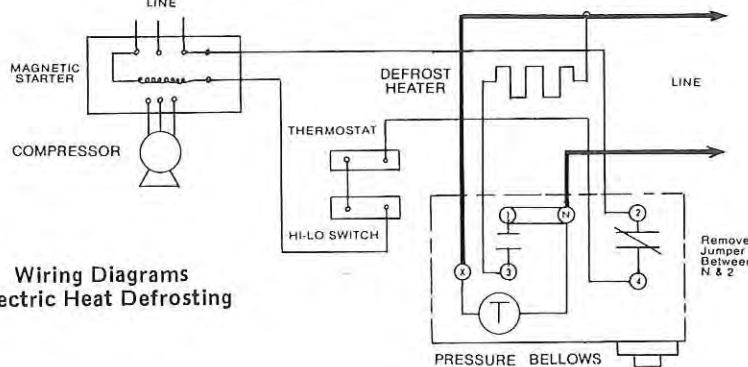
Shipping Weight :
6-1/2 lbs. (3 kg)

Dimensions :
8-3/4" high x 7" wide x 4-1/8" deep.
(222mm) (178mm) (105mm)

Wiring for Compressor Motor with Magnetic Starter.
Clock Motor Independent of Load Circuit.



Wiring Diagrams
for Electric Heat Defrosting

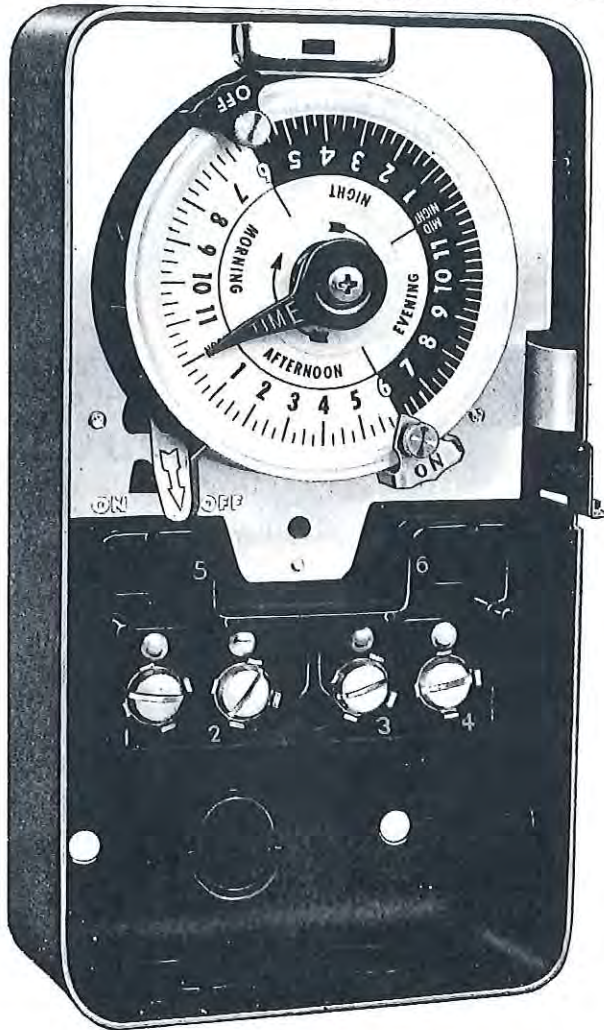


Wiring Using Single Phase Line for Electric Heat System. Without Magnetic Starter.

Wiring for Compressor Motor with Magnetic Starter and Heater Load. Clock Motor Common to Heater Circuit with Independent Compressor Motor Circuit.

These are only suggested methods of wiring the defrosting time control. External wiring should be connected in accordance with local electrical codes. All auxiliary switches are to be supplied by others.

PARAGON TIME CONTROLS



ADVANTAGES

Eliminates Pitted or Sticking Contacts —

Each movable spring brass blade is independently channeled; each cadmium alloy contact and brass blade is free floating.

All stationary contact areas are eliminated.

Exclusive slider bar assures positive switching; each contact "makes" on a spring platform.

Complete Operational Check —

You don't have to depend on just the standard manual trip lever to check for circuit operation. The dial has a spring clutch which allows you to freely rotate the control through its complete cycle to check operation of all trippers and circuits.

Skip-a-Day Dial

The Skip-a-Day option will omit the regular ON-OFF program on any day or days of the week you choose. A typical application is business lighting where a store is only open six days per week; the daily schedule would be omitted on Sunday by merely inserting a pin in the Skip-a-Day wheel, while the regular schedule would occur on all other days.

4000 SERIES 24 HOUR TIME CONTROL

VERSATILE 24-HOUR TIME CONTROLS FOR LIGHTING, PUMPS, BLOWERS, MOTORS, AND MANY OTHER APPLICATIONS

- 40 Amp. Tungsten Rating; 4800 Watts
- Free-floating Contacts; Positive Switching
- Powerful Lubricated-for-Life Motor
- Tough, Moulded Phenolic Terminal Block
- Dial Clutch for Positive Cycle Check
- King-size Terminal Screws
- Skip-a-Day

CAT. NO.	1566
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SPECIFICATIONS

Model:
4004 - 21S

Switch Rating:
40 Amps. Tungsten per pole, 208-240 Volts, 1HP at 208-240 Volts, 690 V.A. pilot duty.

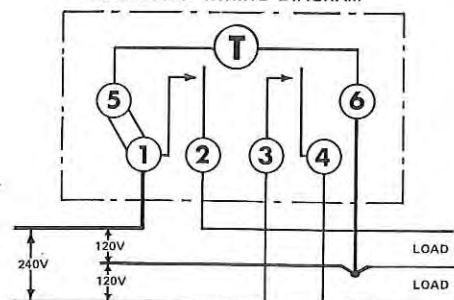
Motor:
208-240 Volts, 50 Hz

Operation:
Up to 14 (7 ON, 7 OFF) operations possible per day. 90 minutes minimum between operations. Two trippers furnished as standard.

Dimensions: (Approx.)
9-5/8" high x 5-3/8" wide x 5-1/32" deep
(245 mm) (137 mm) (128 mm)

Shipping Weight:
4 1/4 lbs. (2.2 kg)

SUGGESTED WIRING DIAGRAM



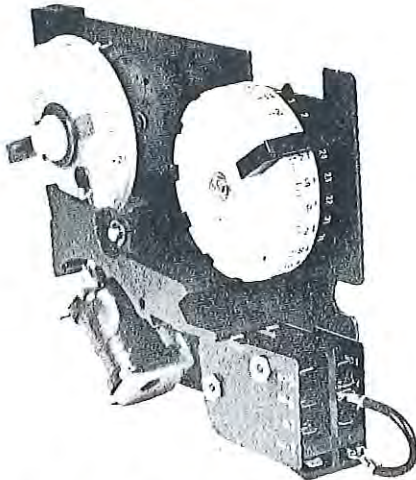
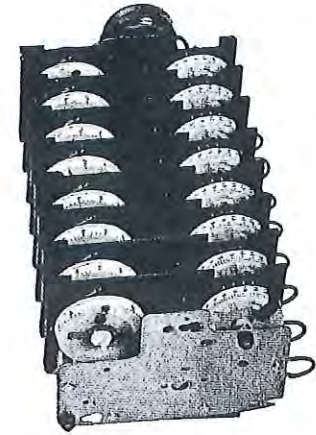
Model 4004 - 21S D.P.S.T. - 120/60

PARAGON RM SERIES

MODULAR MULTIPLE CIRCUIT DEFROST CONTROLS

EXCLUSIVE SOLENOID TERMINATION **EXCLUSIVE TIME INITIATION OFFSET**
4 TO 24 CIRCUITS **6 - 106 MINUTE DEFROST PERIODS**
TWO SPDT SNAP SWITCHES PER MODULE

The modular Paragon RM Series has every feature required for store-wide defrost systems. Program modules, with or without solenoids, are fully adjustable and all have two 10A SPDT switches. Two frame sizes accept 4 and 8 Program Modules, respectively, and any frame can be coupled to another to form a master-slave system. Up to 24 circuits can be driven from one reliable Paragon hysteresis motor. Service, if it becomes necessary, is simple and fast, thanks to complete modularity. Program Modules can be changed in moments, without tools.



SIMPLIFIED PROGRAMMING

Each Program Module has a 24 - hour dial with time of day indication for initiation programming, and a 2 - hour dial for defrost duration control.

EXCLUSIVE TIME INITIATION OFFSET

RM Series Program Modules provide complete capability for defrost load distribution with exclusive Time Initiation Offset. Deep tripper slots are located at 2 hour intervals around each 24 - hour dial. Each slot represents a possible defrost period. RM Series Program Modules are furnished in four distinct series of program times: Even hours (2.00, 4.00, etc.), Odd hours (1.00, 3.00, etc.), Even half-hours (2.30, 4.30, etc.), and Odd half-hours (1.30, 3.30, etc.). Defrost cycles can be automatically offset by at least one half-hour between adjacent units. Field personnel cannot inadvertently set all equipment to defrost simultaneously.

EXCLUSIVE INTEGRAL SOLENOID TERMINATION

Paragon RM Series Program Modules may be ordered with integral solenoid termination. This feature permits termination of defrost upon closure of an external pilot device such as a thermostat or pressure switch. No additional relays for interlocking or holding circuits are required.

Solenoid terminated modules are mechanically interchangeable with time terminated modules, and can be mixed as required in any frame assembly. On solenoid terminated modules the 106 minute dial serves as a mechanical back-up system, limiting the defrost period to a preset duration if the external pilot device fails to operate for any reason. These modules will also terminate defrost immediately if the pilot device is closed at the initiation of the defrost cycle.

Solenoids are intermittent duty and must be wired in series with one of the normally-open switch contacts. This wiring is preassembled on each module.

CAT. NO.	TIMER DRIVE MODULE
15626	P/N A 878 - 21

CAT. NO.	FRAME MODULE
15627	4 FRAME P/N A 879 - 99
15628	8 FRAME P/N A 880 - 99

PROGRAM MODULES

TIME	WITHOUT SOLENOID TERMINATION		WITH SOLENOID TERMINATION	
	CAT. NO.	PART NO.	CAT. NO.	PART NO.
EVEN HOURS (2.00, 4.00 etc.)	15629	A 876 - 99	15633	A 877 - 21
EVEN ½ HOURS (2.30, 4.30 etc.)	15630	B 876 - 99	15634	B 877 - 21
ODD HOURS (1.00, 3.00 etc.)	15631	D 876 - 99	15635	D 877 - 21
ODD ½ HOURS (1.30, 3.30 etc.)	15632	E 876 - 99	15636	E 877 - 21

TECHNICAL DATA - Next Page

WE BELIEVE IN CONTINUALLY STUDYING THE LOCAL AND INTERNATIONAL MARKETS TO MAKE AVAILABLE THE MOST MODERN TYPE OF EQUIPMENT

PARAGON RM SERIES

MODULAR MULTIPLE CIRCUIT DEFROST CONTROLS - TECH. DATA

SPECIFICATION DATA

FRAME MODULES

Capacity: 4 or 8 circuit available.
 Mounting: Two snap-in base brackets per frame section; 7/32" diameter mounting holes for No. 12 screws.

MOTOR MODULES

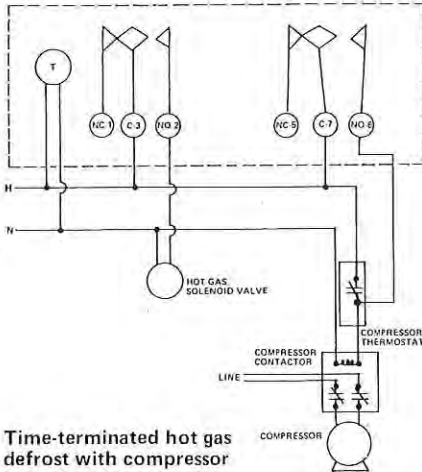
Motor: Heavy-duty synchronous industrial type with permanently lubricated gear train.
 Torque: Up to 24 Program Modules can be driven with one motor.
 Input Voltage: 240 Volts, 50 Hz. AC.
 Terminals: Two 1/4" male push on terminals.

PROGRAM MODULES

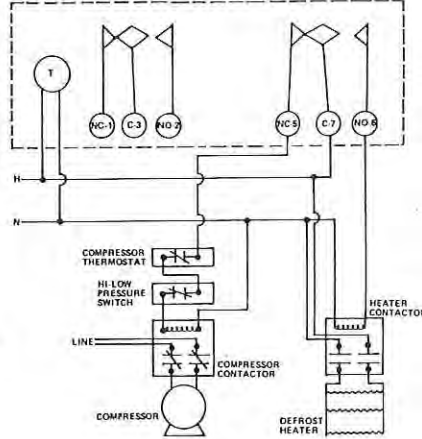
Defrost Initiation: Adjustable from 1 - 12 defrost operations per circuit, per day; minimum 2 hours required between successive operations.
 Mechanical Defrost Termination: Adjustable from 6 - 106 minutes in one minute increments.
 Solenoid Termination: Optional; instantaneous transfer if solenoid is energized at time of defrost initiation.
 Switches: Two SPDT snap switches per Module.
 Switch Rating: 10 Amps, 1/3 HP, 120-240 VAC; 345VA Pilot Duty
 Switch Terminals: 3/16" male push on terminals; a factory-installed bridge is standard on Modules equipped with integral solenoids to complete the interlocking connection.



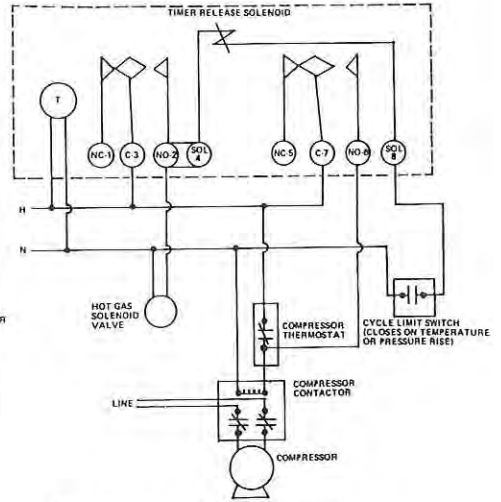
SUGGESTED WIRING DIAGRAMS



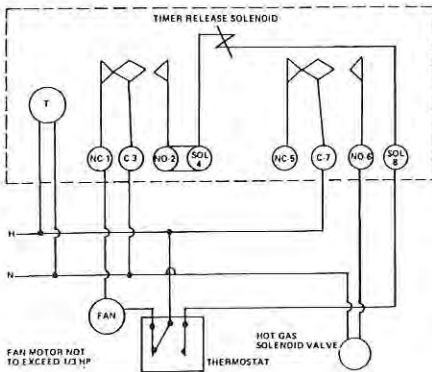
Time-terminated hot gas defrost with compressor thermostat by-passed during defrost cycle.



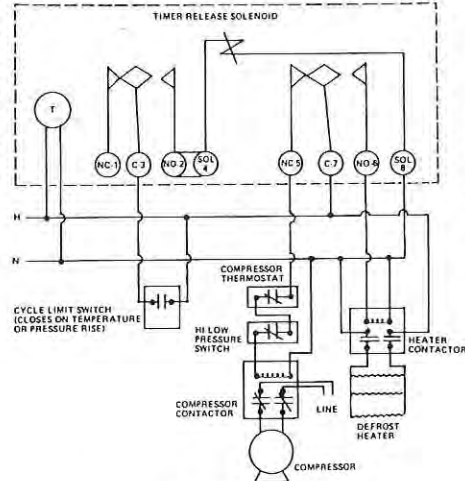
Time-terminated electric heat defrost.



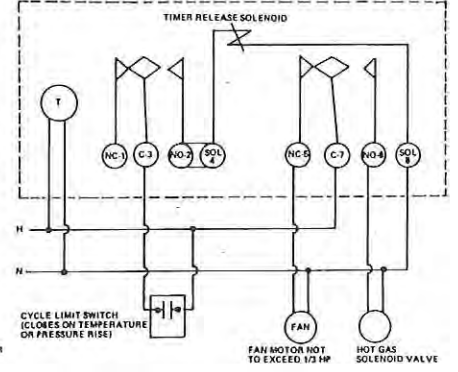
Remote temperature or pressure terminated hot gas defrost with compressor thermostat by-passed during defrost cycle.



Remote temperature or pressure terminated hot gas defrost using differential of SPDT thermostat to delay fan after defrost termination.



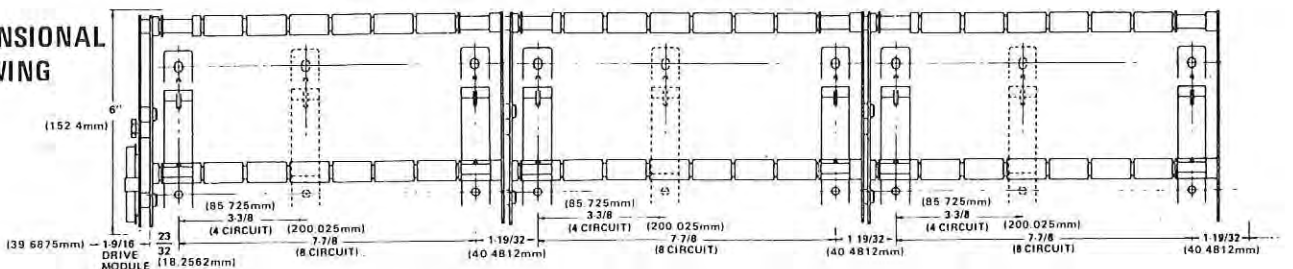
Remote temperature or pressure terminated electric heat defrost.



Remote temperature or pressure terminated hot gas defrost with auxiliary fan circuit.

These are only suggested methods of wiring the defrosting time control. External wiring should be connected in accordance with local electrical codes. All auxiliary switches are to be supplied by others.

DIMENSIONAL DRAWING



REFER PREVIOUS PAGE FOR ADDITIONAL DETAILS AND ORDERING CAT. NO'S.

New AMF Paragon EC 100 Series Anti-condensate Heater Controller

FOR CONTROL OF REFRIGERATED DISPLAY CASES
HELPING YOU MANAGE ENERGY - EFFICIENTLY

Long a leader in commercial refrigeration-freezer controls, AMF Paragon presents a new, unique method of conserving energy - and power costs - with the EC100 Anti-condensate Heater Controller. Depending upon geographical location, the EC100 system can pay for itself in months. And, your customers will be able to identify foods clearly through the doors at a fraction of the normal cost to you.

AMF Paragon Anti-condensate Heater Controllers can readily be installed on new equipment or retrofitted on most existing equipment. Ideal for medium (refrigerator) to low (freezer temperature) cases. With the exception of the humidity sensor, all components are located in the back room, and display cases need not be disturbed during installation.

The secret is in the pulse.



Instead of providing a constant flow of power to your Anti-condensate Heaters, the new Paragon system goes on for a second—just enough to keep the heaters warm—then off for 1 to 3 seconds, as required.

You save one-sixth to one-half the cost of operating Anti-condensate Heaters. And, the more energy costs go up, the more you save!

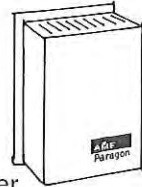
Just enough heat to eliminate condensation.

Because the pulse is regulated by in-store humidity conditions, you never build up excess heat—or allow the display case surface area to cool sufficiently to permit condensation. You're always assured of "sweat-free" surfaces. An added benefit exists: by reducing the heat to the case, the cost of cooling is also lowered.



Precision control. Accurate...reliable.

The entire Paragon EC100 system consists of a sensitive humidity sensor, a solid state control module and reliable solid state switching devices. You get years of trouble-free service—and energy savings, too!



The RH Sensor.

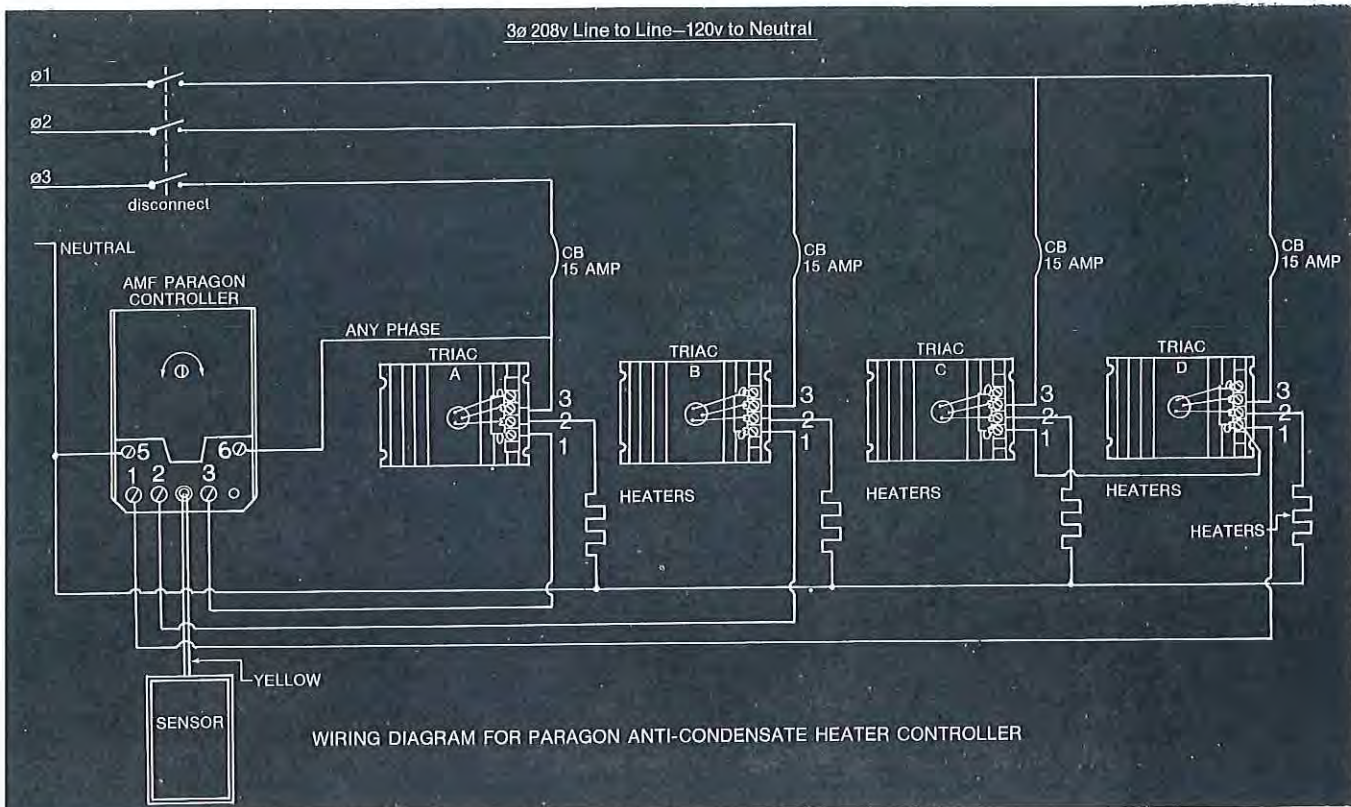
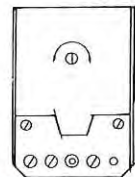
An exceptionally sensitive styrene copolymer relative humidity sensor, strategically located within the store, monitors store humidity conditions and provides a continuous signal to the heater control module.

Solid state heater control module.

Monitors the relative humidity sensor input and regulates the on-time of the heaters to optimize power consumption.

Solid state switches.

Rapid on-off devices that last for years. Rapid switching is required to prevent thermal cycling of the heaters. Up to 24 can be used in one system along with a control module and humidity sensor.



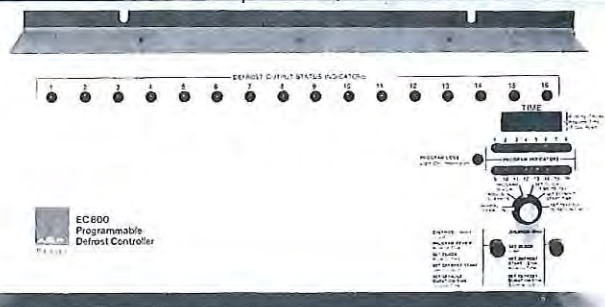
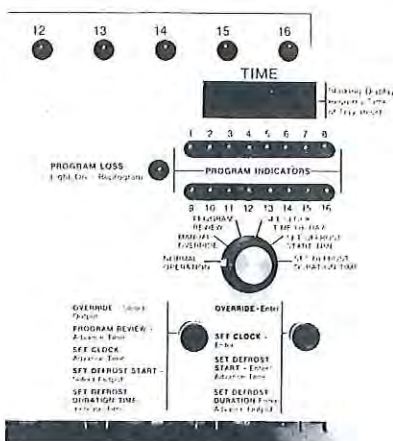
AMF Paragon

EC 800 Electronic Defrost Control

1

Superior performance through solid state electronic design

The EC800 Programmable defrost controller combines the operating simplicity of electromechanical RM's with the reliability, accuracy and flexibility made possible only by electronic design.



Designed specifically for commercial refrigeration

Each quarter hour defrost scheduling capability (96 per day), automatic staggering of defrost starts, defrost durations 5 to 180 minutes, simple program override or modification. The EC800 is easily and quickly programmed by refrigeration service and authorised supermarket personnel.

Solid State Reliability

Electronic programming assures greater reliability of operation, and a longer performance life by eliminating mechanical wear on gears and trippers.

Accurate Programming to the Minute

Defrost initiates and durations can be programmed quickly and accurately, reducing the possibility of damage to foods and increasing potential energy savings.

Visual Indicators at a Glance

Test programs immediately, before they run. Just press the appropriate button and review an entire day's program. Check initiate and terminate status quickly.

Easy Installation

The EC800 is voltage rating field selectable, making it easy to install in new equipment or retrofit in existing units. DPDT output relays on all circuits and 1/4 inch quick connect terminals for application flexibility.

External Terminate Provided

Each output circuit has provisions for defrost termination by closure of a remote thermostat or pressure switch. The external terminate shortens defrost durations, eliminates the need for mechanical solenoids (present in electromechanical RM's).

24 Hour Battery Carryover

This security device maintains the EC800 program for a minimum of 24 hours following a power loss.

Program Loss Alarm Circuit

An emergency alarm signals to indicate loss of program memory due to a manual clearing of the program or a power loss extending beyond the battery carryover period. The alarm may be connected to a visual or audible alert.

Proportional Defrost Provision

The EC800 provides maximum application flexibility with the "proportional defrost" provision which senses store humidity (dewpoint) and varies intervals between defrosts accordingly. Proportional defrost assures minimum chance of food shock, maintains staggering, increases energy savings, makes possible optimum use of reclaim heat available from refrigeration system. More reclaim heat is available for store heating during cold winter months when humidity is usually low. Optional proportional defrost module can be installed or easily added later without disturbing display cases.

SPECIFICATIONS

Programming Capabilities

Program Base — 24 hour reference repeat program.

Defrost Start Times — available every 15 minutes on quarter hour, 96 per day, only one output per start time.

Defrost Durations — independent for each output, 5-180 minute range.

Number of Circuits — three models available, 8, 12 or 16 outputs.

Output — DPDT relay, 1 amp resistive, 240 VAC each circuit. .250" quick connect terminals.

Input — Can be wired for either 100, 120, 200, 208 or 240 volt AC, 50-60 Hz. Field selectable.

Terminals — #4-40 slotted screw which will accommodate #20-#14 AWG wire.

External Termination of Defrost — .250" quick connect terminals each circuit.

The terminate requires an isolated external N.O. contact that closes when termination of an output load is desired.

Power Outage Carryover — A minimum of 24 hours memory carryover is provided by means of a Ni-Cad rechargeable battery.

The memory back-up will maintain the control program and time of day at power loss. During the power outage the LED displays will not be lit.

Program Loss Alarm — A DPDT alarm relay will energise in the event of a loss of the program memory. The program loss indicating light will also be lit. Terminals and output of this relay are the same

as the other relays. The relays will de-energise and the program loss light will go off when an updated clock time is entered into the controller.

Accuracy — Time of day is accurate as line frequency with power applied. Programming resolution is to the minute.

Environmental — Temperature — Ambient operating temperature range is 0 - 60°C.

Humidity — 10 - 90% relative humidity (noncondensing).

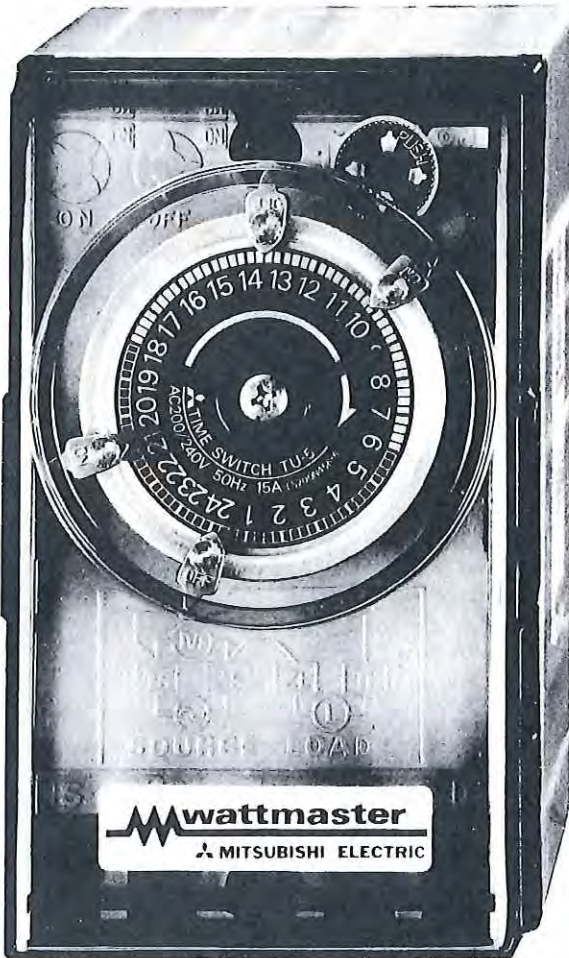
Access — Unit has a two position key lock to secure all programming modes from unauthorised personnel. One position is "normal" operation mode and in this position the key can be removed. When locked in the "normal" operation position, movement of the selector knob will have no effect on the operation of the EC800. Placing the key lock in the 2nd. position will allow access to modes such as manual override, program review, set clock time of day, set defrost start time and set defrost duration time.

Memory Erase — Memory erase button is concealed behind a small access hole in the front panel which can be actuated by the insertion of a small screwdriver blade. It carries no identification on the front panel, but its function is described in the operating and installation instructions.

CAT. NO.	MODEL	No. CIRCUITS/OUTPUTS
	EC800	8
	EC800	12
	EC800	16

wattmaster TU-5

The compact, budget priced time switch with override.



This surface mounted, synchronous 24 - hour time switch is precision manufactured by Mitsubishi for Wattmaster Sales Pty. Ltd.

It has a number of features, including an override switch, not generally found in timers in the lower priced bracket.

The TU-5 is a general purpose time switch, providing one-day cycle time control for applications such as air conditioning and refrigeration equipment, lighting, electric furnaces, water sprinkling, irrigation, display windows, stirring machines, artificial day-light cultivation, automatic vending machines etc.

You simply set the manual screw-type trips to the desired time. By increasing the number of ON and OFF trips to 26 pieces, it is possible to make 13 ON and 13 OFF operations.

The TU-5 is a front mounting time switch, simple and easy to install.

FEATURES AND SPECIFICATIONS

CAT. NO.	Size	67 mm x 110 mm	Induction Motor Load	2 HP
15530	Ambient Temperature	-10°C to +50°C	Power Consumption	4VA
	Minimum Time Period	53 minutes	Override Switch	Yes
	Voltage	240V	Max. Switching Periods	13
	Frequency	50/60 Hz.	Voltage Tolerance	-15% to +10%
	Resistive Load	15A	Switching Indicator	Yes

THE BITTERNESS OF POOR QUALITY REMAINS LONG AFTER THE SWEETNESS OF LOW PRICE IS FORGOTTEN

NOTES

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WE ARE ORGANIZED TO MAKE PROMPT DELIVERY FROM OUR VAST STOCKS. WHETHER YOUR ORDER IS SMALL OR LARGE WE WILL EXERCISE GREAT CARE IN SELECTING AND PACKING YOUR ORDER. MORE THAN 90% OF ALL ORDERS RECEIVED ARE DESPATCHED THE SAME DAY. WE AIM TO KEEP YOU AND YOUR JOB MOVING SATISFACTORILY.