

RANCO® - ICE MACHINE CONTROLS

A22/A30 ADAPTABLE REPLACEMENT CONSTANT DIFFERENTIAL CONTROLS



These compact controls are readily adaptable to nearly all commercial refrigerators and freezers. A wide section of temperature ranges, differentials, and capillary lengths are available. Break-off shafts are included with installation instructions for easy, fast installation. Controls have "Off" position except as noted.

ELECTRICAL RATING

RATING	A22			A30			
	120V	240V	277V	24V	120V	240V	277V
AC FULL LOAD AMPS	20	20	16	-	20	20	16
AC LOCKED ROTOR AMPS	80	50	60	-	80	80	60
PILOT DUTY (VAC)	500	500	500	240	240	240	240
RESISTIVE LOADS AMPS	25	25	-	-	-	-	16

A30 SERIES

PART NO	DIFFERENTIAL (°F)	SWITCH	NORMAL				CAPILLARY LENGTH (in)
			OFF (°F)	ON (°F)	WARM ON (°F)	COLD OFF (°F)	
RAN-A30-180	13	SPST	9	22	38	-4	42
RAN-A30-181	13	SPST	9	22	41	-4	84
RAN-A30-182	17	SPST	3	20	44	-6	42
RAN-A30-183	17	SPST	3	20	44	-6	84
RAN-A30-184	19	SPST	6	25	40	-7	42
RAN-A30-185	15.5	SPST	5.5	21	36	-15	42
RAN-A30-260	6	SPST	16	22	30	.5	72
RAN-A30-261	6	SPST	-	-	61	32	84
RAN-A30-262	12	SPST	20	32	43	3	84
RAN-A30-263	22.5	SPST	11	33.5	47	.5	84
RAN-A30-301	8.5	SPST	-3	5.5	20.5	-24	84
RAN-A30-304	15.5	SPST	-6	9.5	19.5	21.5	84
RAN-A30-307	23	SPST	0	23	43	-23	78
RAN-A30-308	11	SPST	-12	-1	12.5	-30.5	84
RAN-A30-310	20	SPST	-14	6	23	-24	36
RAN-A30-311	14	SPST	-14	0	23	-22	42
RAN-A30-313	8	SPST	-10	-2	21	-20	42
RAN-A30-314	8	SPST	-10	-2	23	-23	54

A22 SERIES

PART NO	DIFFERENTIAL (°F)	SWITCH	NORMAL				CAPILLARY LENGTH (in)
			OFF (°F)	ON (°F)	WARM ON (°F)	COLD OFF (°F)	
RAN-A22-391	8	SPDT	27	35	51	11	66
RAN-A22-392	23.5	SPDT	31	54.5	61.5	14	48
RAN-A22-1112	5	SPDT	34	39	44	25	72

RANCO® - ICE MACHINE CONTROLS

A30 SERIES DIRECT REPLACEMENT, CONSTANT DIFFERENTIAL AND CONSTANT CUT-IN CONTROLS



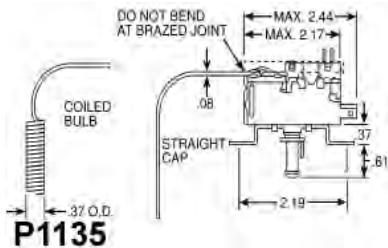
Direct replacement constant differential or constant cut-in cold controls. Used on commercial refrigerators, freezers, ice machines, vending machines, beverage coolers, and water coolers. Controls have SPST switching with "Off" position unless noted.

ELECTRICAL RATING

RATING	24V	120V	240V	277V
AC FULL LOAD AMPS	-	20	20	16
AC LOCKED ROTOR AMPS	-	80	80	60
PILOT DUTY (VA)	240	240	240	240
RESISTIVE LOADS AMPS	-	-	-	16

PART NO	TYPE OF ADJUST	WARM/COLD							CAP	BULB	OEM	OEM P/N
		DIFF	OFF	ON	-ON	-OFF						
RAN-A30-323	DIAL	10	-5	5	10.5	-11	48	--	--	--	--	
RAN-A30-542	DIAL	15	10	25	41.5	1	27	--	--	--	--	
RAN-A30-543	DIAL	12	15	27	55	7	27	--	--	--	--	
RAN-A30-544	DIAL	15	10	25	43	1	72	--	--	--	--	
RAN-A30-1769	DIAL	7	-7	0	10	-19	36	--	TRAULSEN		12769	
RAN-A30-1819	DIAL	7	18	25	37	12	24	--	MATTHIESEN		--	
RAN-A30-1977	SCREWDRIVER	10	14	24	30	5	24	--	STAR COOLER (HUSSMANN)		0308352	
RAN-A30-2209	DIAL	8	36.5	44.5	46	35	48	--	--		--	
RAN-A30-2210	DIAL	8	32	40	42	30	48	--	--		--	
RAN-A30-2211	DIAL	10	0	10	17.5	-10.5	48	--	--		--	
RAN-A30-2212	SCREWDRIVER	6	47	53	57	42.5	48	--	--		--	
RAN-A30-2282	DIAL	5	43	48	58	32	48	--	TRAULSEN		36989-00	
RAN-A30-3618	DIAL	17	23	40	45	17	30	--	BEV AIR		502-014A	
RAN-A30-3620	DIAL	24	16	40	43	12	30	--	BEV AIR		P502-48AB	
RAN-A30-3723	SCREWDRIVER	14	26	40	44	21	18	--	--		--	
RAN-A30-3725	SCREWDRIVER	19	24	43	50	16	60	3/8D	GLENCO/STAR		SP-64-35B	
RAN-A30-3734	DIAL	11	-18	-7	17	-32	72	--	HUSSMANN SELF CONTAINED		4-S-28	
RAN-A30-3737	DIAL	9	-8	1	12	-22	36	3/8D	HUSSMANN/VICTORY		50616101	
RAN-A30-3755	SCREWDRIVER	13	28	41	47	20	24	--	TAYLOR		27505	
RAN-A30-3769	SCREWDRIVER	16	32	48	55.5	22	18	--	--		--	

A12 SERIES CONSTANT CUT-IN CONTROL



The Ranco A12 Controls provide a constant Cut-In feature. The constant Cut-In design is generally used to provide an Off-Cycle defrost function. Each time the control cycles off, the control contacts will remain "open" until the evaporator is cleared of any frost that may have accumulated from the previous "On" Cycle. The A12 constant Cut-In setting will be between 35° and 41° F. (See Control Chart.)

Generally, medium refrigeration units without hot gas or electric defrost systems will use a Constant Cut-In Control (A12 Series).

Rotating the Knob/Dial changes only the Cutout setting. The Cut-In setting remains the same regardless of the Knob/Dial position.

PART NO	NORMAL OFF (°F)	WARM OFF (°F)	COLD OFF (°F)	CUT-IN CONSTANT (°F)	CAPILLARY LENGTH (in)
RAN-A12-1506	15	22	9	38	39 x 3/8 x 1-3/8
RAN-A12-700	18	26	11.5	37	84
RAN-A12-710	23	27	19	36.5	21 x 3/8 x 1-3/8
RAN-A12-701	23.5	31	15	41	84
RAN-A12-1560	24	29	19	38	72
RAN-A12-711	18.5	23	14	37	31 x 3/8 x 1-3/8
RAN-A12-712	15.5	23	8	35	79