



Ranco® Refrigeration Cross-Reference

Temperature Controls (Part 1 of 2)

Product #	Range	Differential	Switch	Capillary	Bulb	Cover	Notes
Ranco PENN	ETC111000-000 A419ABC-1C	-30/220F -30/212F	1/30F ADJ 1/30F ADJ	SPDT SPDT	96" Lead 78" Lead	0.5x2 0.5X2	NEMA 1 NEMA 1 (14)
Ranco PENN	3130-101 A11B-1C	35/45F 35/45F	12F FXD 12F FXD	Open LO Open LO	None 48"	240" 240"	NEMA 1 NEMA 1
Ranco PENN	3130-201 A11A-1C	35/45F 35/45F	Manual Manual	Open LO Open LO	None 48"	240" 240"	NEMA 1 NEMA 1
Ranco PENN	3311-651 A70BA-17C	37F FXD 35/80F ADJ	Manual Manual	Open LO Open LO	180" 72"	0.5x4.25 3/8x3	NEMA 1 NEMA 1
Ranco PENN	3311-701 A70AA-15C	30F FXD -10/65F ADJ	15F FXD 4/40F ADJ	Open LO Open LO	120" 72"	3/8x6.5 3/8x3	NEMA 1 NEMA 1
Ranco PENN	A22-2237 A11E-6C	41F FXD 35/45F	6F FXD 12F FXD	Open HI SPDT	None 48"	48" 240"	NEMA 1 NEMA 1
Ranco PENN	O10-1010 A11B-1C	0/55F 35/45F	7/55F ADJ 12F FXD	Open LO Open LO	None 48"	48" 240"	NEMA 1 NEMA 1
Ranco PENN	O10-1409 A19ABA-1C	0/55F -30/50F	3/20F ADJ 5/20F ADJ	Open LO Open LO	72" 72"	Yes 3/8x4	NEMA 1 NEMA 1 (1)
Ranco PENN	O10-1410 A19ABA-4C	25/75F 20/80F	3/20F ADJ 3.5/14F ADJ	Open LO Open LO	72" 72"	Yes 3/8x5	NEMA 1 NEMA 1 (1)
Ranco PENN	O10-1416 A11B-1C	0/55F 35/45F	3/20F ADJ 12F FXD	Open LO Open LO	None 48"	72" 240"	NEMA 1 NEMA 1
Ranco PENN	O10-1418 A19BBA-1C	0/55F -30/50F	3/20F ADJ 5/20F ADJ	Open LO Open LO	None None	Coiled Coiled	NEMA 1 NEMA 1 (1)
Ranco PENN	O10-1473 A19ABA-1C	0/55F -30/50F	7/55F ADJ 5/20F ADJ	Open LO Open LO	72" 72"	Yes 3/8x4	NEMA 1 NEMA 1 (1)
Ranco PENN	O10-1490 A19ABA-1C	0/55F -30/50F	2F FXD 5/20F ADJ	Open LO Open LO	72" 72"	Yes 3/8x4	NEMA 1 NEMA 1 (1)
Ranco PENN	O10-1491 A19ABA-4C	25/75F 20/80F	2F FXD 3.5/14F ADJ	Open LO Open LO	72" 72"	Yes 3/8x5	NEMA 1 NEMA 1 (1)
Ranco PENN	O10-1802 A19BAC-1C	25/75F 30/110F	3/20F ADJ 3.5F FXD	Open LO SPDT	None None	Coiled Coiled	NEMA 1 NEMA 1 (1)
Ranco PENN	O10-301 A19BAA-5C	30/95F 30/110F	2F FXD 3.5F FXD	Open LO Open LO	None None	Coiled Coiled	NEMA 1 NEMA 1 (1)
Ranco PENN	O16-104 A19ABC-24C	0/55F -30/100F	3/20F ADJ 3/12F ADJ	SPDT SPDT	72" 96"	Yes 3/8x4	NEMA 1 NEMA 1 (1)
Ranco PENN	O16-111 A11E-6C	0/55F 35/45F	3/20F ADJ 12F FXD	SPDT SPDT	None 48"	72" 240"	NEMA 1 NEMA 1
Ranco PENN	O16-165 A19BAC-1C	30/90F 30/110F	2.5F FXD 3.5F FXD	SPDT SPDT	None None	Coiled Coiled	NEMA 1 NEMA 1 (1)
Ranco PENN PENN	O16-263 A19ACC-6C A70BA-17C	0/55F -30/100F 35/80F	Manual Manual Manual	SPDT SPDT Open LO	72" 72" 72"	Yes 3/8x4 3/8x3	NEMA 1 NEMA 1 NEMA 1 (12)
Ranco PENN PENN	O16-264 A11D-1C A70BA-18C	0/55F 35/45F 15/55F	Manual Manual Manual	SPDT SPDT Open LO	None 48" None	96" 240" 240"	NEMA 1 NEMA 1 NEMA 1 (12)
Ranco PENN PENN	O16-588 A11E-6C A70AA-16C	-15/40F 35/45F 15/55F	1.5F FXD 12F FXD 5F FXD	SPDT SPDT Open LO	None 48" None	72" 240" 240"	NEMA 1 NEMA 1 NEMA 1 (1)
Ranco PENN	O16-594 A19BBC-2C	0/55F -30/100F	2F FXD 3/12F ADJ	SPDT SPDT	None None	Coiled Coiled	NEMA 1 NEMA 1 (1)
Ranco PENN	O16-595 A19ABC-4C	50/100F 50/130F	3/20F ADJ 3.5/14F ADJ	SPDT SPDT	96" 96"	3/8x6 3/8x5	NEMA 1 NEMA 1 (1)
Ranco PENN PENN	O16-601 A19ABC-2C A70AA-15C	22.5/47.5F 20/80F -10/65F ADJ	2.5F FXD 3.5/14F ADJ 10F FXD	SPDT SPDT Open LO	36" 72" 72"	3/8x6 3/8x5 3/8x3	NEMA 1 NEMA 1 NEMA 1 (1) (12)
Ranco PENN PENN	O20-7041 A72AA-3C A72AA-2C	0/100F 50/90F 15/55F	6/20F ADJ ADJ ADJ	DPST Open LO DPST Open LO DPST Open LO	96" 72" 72"	3/8x6 11/16x6 3/4 3/8x3	NEMA 1 NEMA 1 NEMA 1

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Ranco® Refrigeration Cross-Reference (Continued)

Temperature Controls (Part 2 of 2)

Product #	Range	Differential	Switch	Capillary	Bulb	Cover	Notes
Ranco PENN O52-6910 A19PRC-1C	30/95F 30/110F	2F FXD 3/12F ADJ	SPDT SPDT	None None	Coiled Coiled	NEMA 4X NEMA 4X	
Ranco PENN O60-100 A19ABC-24C	-35/95F -30/100F	4/50F ADJ 3/12F ADJ	SPDT SPDT	96" 96"	3/8x6 3/8x4	NEMA 1 NEMA 1	(1)
Ranco PENN O60-101 A19BBC-2C	-35/95F -30/100F	4/50F ADJ 3/12F ADJ	SPDT SPDT	None None	Coiled Coiled	NEMA 1 NEMA 1	(1)
Ranco PENN O60-1072 A19BBA-1C	-15/40F -30/50F	3/20F ADJ 5/20F ADJ	Open LO Open LO	None None	Coiled Coiled	NEMA 1 NEMA 1	(1)
Ranco PENN O60-120 A19ABC-36C	-35/95F -30/100F	4/50F ADJ 3/12F ADJ	SPDT SPDT	240" 240"	3/8x6 3/8x4	NEMA 1 NEMA 1	(1)
Ranco PENN O60-1408 A19ABA-1C	-15/40F -30/50F	3/20F ADJ 5/20F ADJ	Open LO Open LO	72" 72"	Yes 3/8x4	NEMA 1 NEMA 1	(1)
Ranco PENN O60-200 A19ABC-12C	95/240F 100/240F	6/50F ADJ 6/24F ADJ	SPDT SPDT	96" 96"	3/8x6 .29x2.5	NEMA 1 NEMA 1	(1)

Defrost/Fan Delay Temperature Controls

Product #	Range	Differential	Switch	Capillary	Bulb	Cover	Notes
Ranco PENN F25-107 A19ZBC-2C	40/75F 45/85	20F FXD 25F ADJ	SPDT SPDT	60" 72"	3/8x4 0.3x3.125	Open NEMA 1	(10)
Ranco PENN F25-114 A19ZBC-2C	43/73F 45/85	24F FXD 25F ADJ	SPDT SPDT	60" 72"	3/8x4 0.3x3.125	Open NEMA 1	(10)

Pressure Controls (Ranco Series 3126-3161, G20-G23, and O10-O20) (Part 1 of 3)

Product #	Range	Differential	Switch	Capillary	Connection	Cover	Notes
Ranco PENN 3126-116 P20EB-1C	7/125 7/150	25 FXD 29/32 FXD	SPDT SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN 3126-117 P70AB-2C	7/27 20"/100	12 FXD 7/50 ADJ	SPDT Open LO	60" 36"	Sweat w/ Flare	Open NEMA 1	(5)(4)
Ranco PENN 3126-216 P70BA-1C	7/125 20"/100	Manual Manual	Open LO Open LO	60" 36"	Sweat w/ Flare	Open NEMA 1	(5)(4)
Ranco PENN 3126-412 P20EB-1C	7/77 7/150	23/70 29/32 FXD	SPDT SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN 3127-140 P20EB-2C	125/450 100/425	70 FXD 60/77 FXD	Open HI SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN 3127-220 P70DA-1C	125/450 50/450	Manual Manual	SPDT Open HI	60" 36"	Sweat w/ Flare	Open NEMA 1	(5)(4)
Ranco PENN 3127-414 P20EB-2C	150/450 100/425	70/125 60/77 FXD	SPDT SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN 3160-012 P20EB-1C	5/110 7/150	25 FXD 29/32 FXD	SPDT SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN 3160-014 P20EB-1C	5/125 7/150	25 FXD 29/32 FXD	Open LO SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN 3160-212 P70BA-1C	5/110 20"/100	Manual Manual	Open LO Open LO	60" 36"	Sweat w/ Flare	Open NEMA 1	(5)(4)
Ranco PENN 3160-406 P20EB-1C	5/125 7/150	12/50 29/32 FXD	SPDT SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN 3161-002 P20EB-2C	200/475 100/425	75 FXD 60/77 FXD	Open HI SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN 3161-003 P20EB-2C	200/475 100/425	110 FXD 60/77 FXD	Open HI SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN 3161-004 P20EB-2C	200/475 100/425	50 FXD 60/77 FXD	Open HI SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN 3161-009 P20EB-2C	125/285 100/425	50 FXD 60/77 FXD	SPDT SPDT	60" 36"	Sweat Sweat	Open Open	(6)



Ranco® Refrigeration Cross-Reference (Continued)

Pressure Controls (Ranco Series 3126-3161, G20-G23, and O10-O20) (Part 2 of 3)

Product #	Range	Differential	Switch	Capillary	Connection	Cover	Notes
Ranco PENN 3161-201 P70DA-1C	200/475 50/450	Manual Manual	SPDT Open HI	60" 36"	Sweat w/ Flare	Open NEMA 1	(5)(4)
Ranco PENN 3161-205 P70DA-1C	125/285 50/450	Manual Manual	Open HI Open HI	60" 36"	w/ Flare w/ Flare	NEMA 1	Open (5)
Ranco PENN 3161-403 P20EB-2C	200/475 100/425	50/150 60/77 FXD	SPDT SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN G20-4050 P70AB-2C	7/27 20"/100	12 FXD 7/50 ADJ	Open LO Open LO	60" 36"	Sweat w/ Flare	Open NEMA 1	(5)(4)
Ranco PENN G20-4051 P20EB-1C	7/77 7/150	19/70 29/32 FXD	Open LO SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN G20-4412 P70BA-1C	7/70 20"/100	Manual Manual	Open LO Open LO	60" 36"	Sweat w/ Flare	Open NEMA 1	(5)(4)
Ranco PENN G23-5052 P20EB-2C	150/450 100/425	50/125 60/77 FXD	Open HI SPDT	60" 36"	Sweat Sweat	Open Open	(6)
Ranco PENN G23-5253 P70DA-1C	50/450 50/450	Manual Manual	Open HI Open HI	60" 36"	Sweat w/ Flare	Open NEMA 1	(5)(4)
Ranco PENN O10-1093 P70AB-2C	10"/100 20"/100	10/40 7/50	Open LO Open LO	48" 36"	w/ Flare w/ Flare	NEMA 1	NEMA 1
Ranco PENN O10-1401 P170AB-12C	12"/50 12"/80	5/35 5/35	Open LO Open LO	None None	External Flare External Flare	NEMA 1	NEMA 1
Ranco PENN O10-1402 P70AB-12C	12"/50 12"/80	535 5/35	Open LO Open LO	36" 36"	w/ Flare w/ Flare	NEMA 1	NEMA 1
Ranco PENN O10-1483 P70AB-2C	10"/100 20"/100	10/40 7/50	Open LO Open LO	36" 36"	w/ Flare w/ Flare	NEMA 1	NEMA 1
Ranco PENN O10-1807 P70AA-151C	100/250 50/300	20/100 20/120	Open LO Open LO	None None	External Flare External Flare	NEMA 1	NEMA 1
Ranco PENN O10-1831 P70AB-12C	10"/100 12"/80	10/40 5/35	Open LO Open LO	None 36"	External Flare w/ Flare	NEMA 1 NEMA 1	
Ranco PENN O10-1842 P70AB-12C	12"/50 12"/80	5/35 5/35	Open LO Open LO	48" 36"	w/ Flare w/ Flare	NEMA 1 NEMA 1	
Ranco PENN O10-2000 P70AA-3C	100/250 100/300	20/100 25/75	Open LO Open LO	48" 36"	w/ Flare w/ Flare	NEMA 1 NEMA 1	
Ranco PENN O10-2054 P70AA-118C	100/400 100/400	40/150 35/200	Open LO Open LO	36" 36"	w/ Flare w/ Flare	NEMA 1 NEMA 1	
Ranco PENN O11-1711 P70CA-3C	150/450 50/450	40/150 60/150	Open HI Open HI	36" 36"	w/ Flare w/ Flare	NEMA 1 NEMA 1	
Ranco PENN O11-1713 P70CA-2C	150/450 50/450	40/150 60/150	Open HI Open HI	None None	External Flare External Flare	NEMA 1 NEMA 1	
Ranco PENN O11-1799 P170CA-1C	10"/100 20"/100	10/40 6/70	Open HI Open HI	None None	External Flare External Flare	NEMA 1 NEMA 1	
Ranco PENN O11-3099 P70CA-1C	10"/100 20"/100	10/40 6/70	Open HI Open HI	36" 36"	w/ Flare w/ Flare	NEMA 1 NEMA 1	
Ranco PENN O16-107 P70EA-10C	10"/100 20"/100	10/40 ADJ 5 FXD	SPDT SPDT	None None	External Flare External Flare	NEMA 1 NEMA 1	
Ranco PENN O16-120 P70EA-10C	12"/50 20"/100	5/35 ADJ 5 FXD	SPDT SPDT	None None	External Flare External Flare	NEMA 1 NEMA 1	
Ranco PENN O16-142 P70EA-6C	100/400 100/300	17 FXD 14 FXD	SPDT SPDT	36" 36"	w/ Flare Sweat	NEMA 1 NEMA 1	(4)
Ranco PENN O16-166 P70GA-2C	50/150 20"/100	10/40 7/50	SPDT NO/NC	36" 36"	w/ Flare w/ Flare	NEMA 1 NEMA 1	(12)
Ranco PENN O16-200 P70KA-1C	150/450 50/450	Manual Manual	SPDT NO/NC	48" 36"	w/ Flare w/ Flare	NEMA 1 NEMA 1	(12)
Ranco PENN O16-209 P170KA-1C	150/450 50/450	Manual Manual	SPDT NO/NC	None None	External Flare External Flare	NEMA 1 NEMA 1	(12)
Ranco PENN O16-261 P70HA-2C	10"/100 20"/100	Manual Manual	SPDT NO/NC	48" 36"	w/ Flare w/ Flare	NEMA 1 NEMA 1	(12)
Ranco PENN O16-503 P70JA-18C	150/450 50/450	40/150 60/150	SPDT NO/NC	None None	External Flare External Flare	NEMA 1 NEMA 1	(12)

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Ranco® Refrigeration Cross-Reference (Continued)

Pressure Controls (Ranco Series 3126-3161, G20-G23, and O10-O20) (Part 3 of 3)

Product #	Range	Differential	Switch	Capillary	Connection	Cover	Notes
Ranco PENN O16-527 P70EA-10C	10"/100 20"/100	10/40 ADJ 5 FXD	SPDT SPDT	36" None	w/ Flare External Flare	NEMA 1 NEMA 1	(3)
Ranco PENN O16-557 P70EA-10C	12"/50 20"/100	5/35 ADJ 5 FXD	SPDT SPDT	36" None	w/ Flare External Flare	NEMA 1 NEMA 1	(3)
Ranco PENN O16-585 P70HA-3C	10"/100 20"/100	Manual Manual	SPDT NO/NC	None None	External Flare Internal NPT	NEMA 1 NEMA 1	(4)(12)
Ranco PENN O20-1894 P170AA-118C	100/400 100/400	40/150 35/200	Open LO Open LO	None None	External Flare External Flare	NEMA 1 NEMA 1	
Ranco PENN O20-7002 P72AA-1C	12"/50 20"/100	5/35 7/50	DPST-LO DPST-LO	36" 36"	w/ Flare w/ Flare	NEMA 1 NEMA 1	
Ranco PENN O20-7006 P72AA-27C	100/400 100/400	40/150 35/200	DPST-LO DPST-LO	36" 36"	w/ Flare w/ Flare	NEMA 1 NEMA 1	

Pressure Controls (Ranco Series 3100, MPF, MPH, and MPL) (Part 1 of 3)

Product #	Cut-Out	Cut-In	Range	Switch	Electrical	Pressure	Notes
Ranco PENN 3100-001 P100AA-1C	15 10	40 40	None None	SPST SPST	30" Leads 48" Leads	1/4" Sweat 1/4" Internal Flare	
Ranco PENN 3100-002 P20EB-1C	5 ADJ.	30 N/A	None 7/150	SPST SPDT	72" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)(8)
Ranco PENN 3100-003 P20EB-1C	20 ADJ.	45 N/A	None 7/150	SPST SPDT	72" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)(8)
Ranco PENN 3100-004 P100AA-2C	35 35	60 60	None None	SPST SPST	QC 48" Leads	1/4" Internal Flare 1/4" Internal Flare	(8)
Ranco PENN 3100-005 P70AB-1C	15" VAC ADJ.	17.5 N/A	None 20"/100	SPDT SPST	QC Screw Terms.	1/4" Internal Flare 1/4" External Flare	(4)(5)(7)(8)
Ranco PENN 3100-006 P20EB-1C	48 ADJ.	80 N/A	None 7/150	SPDT SPDT	36" Leads Arkles	1/4" Sweat 36" Cap, Sweat	(4)(5)(6)(7)(8)
Ranco PENN 3100-007 P100AA-1C	15 10	40 40	None None	SPST SPST	30" Leads 48" Leads	1/4" Internal Flare 1/4" Internal Flare	
Ranco PENN 3100-009 P70AB-1C	0 ADJ.	20 N/A	None 20"/100	SPST SPST	QC Screw Terms.	1/4" Internal Flare 1/4" External Flare	(4)(5)(7)(8)
Ranco PENN 3100-010 P20EB-1C	45 ADJ.	70 N/A	None 7/150	SPDT SPDT	QC Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)
Ranco PENN 3100-050 P100AA-1C	10 10	30 40	None None	SPST SPST	18" Leads 48" Leads	1/4" Internal Flare 1/4" Internal Flare	
Ranco PENN 3100-051 P20EB-1C	25 ADJ.	80 N/A	None 7/150	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)(8)
Ranco PENN 3100-052 P100AA-2C	40 35	80 60	None None	SPST SPST	18" Leads 48" Leads	1/4" Internal Flare 1/4" Internal Flare	
Ranco PENN 3100-075 P70AA-119C	85 ADJ.	135 N/A	None 50/300	SPDT SPST	QC Screw Terms.	1/4" Internal Flare 1/4" Internal Flare	(5)(7)(8)(12)
Ranco PENN 3100-076 P20EB-1C	108 ADJ.	135 N/A	None 7/150	SPST SPDT	QC Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)(12)
Ranco PENN 3100-077 P170AA-118C	115 ADJ.	165 N/A	None 100/400	SPST SPST	QC Screw Terms.	1/4" Internal Flare 1/4" External Flare	(4)(5)(7)(8)
Ranco PENN 3100-078 P170AA-118C	135 ADJ.	185 N/A	None 100/400	SPDT SPST	QC Screw Terms.	1/4" Internal Flare 1/4" External Flare	(4)(5)(7)(8)(12)
Ranco PENN 3100-079 P100AA-4C	165 170	215 250	None None	SPST SPST	QC 48" Leads	1/4" Internal Flare 1/4" Internal Flare	(8)
Ranco PENN 3100-080 P170AA-118C	200 ADJ.	240 N/A	None 100/400	SPDT SPST	QC Screw Terms.	1/4" Internal Flare 1/4" External Flare	(4)(5)(7)(8)(12)
Ranco PENN 3100-081 P170AA-118C	250 ADJ.	300 N/A	None 100/400	SPDT SPST	QC Screw Terms.	1/4" Internal Flare 1/4" External Flare	(4)(5)(7)(8)(12)
Ranco PENN 3100-100 P100CA-2C	425 425	325 325	None None	SPST SPST	72" Leads 48" Leads	1/4" Internal Flare 1/4" Internal Flare	
Ranco PENN 3100-101 P100CA-1C	400 400	300 300	None None	SPST SPST	18" Leads 48" Leads	1/4" Internal Flare 1/4" Internal Flare	

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Ranco® Refrigeration Cross-Reference (Continued)

Pressure Controls (Ranco Series 3100, MPF, MPH, and MPL) (Part 2 of 3)

Product #	Cut-Out	Cut-In	Range	Switch	Electrical	Pressure	Notes
Ranco PENN 3100-102 P100CA-2C	220 425	170 325	None None	SPST SPST	QC 48" Leads	1/4" Internal Flare 1/4" Internal Flare	(8)
Ranco PENN 3100-103 P100DA-1C	410 410	Manual Manual	None None	SPST SPST	42" Leads 48" Leads	1/4" Internal Flare 1/4" Internal Flare	
Ranco PENN 3100-104 P70DA-1C	420 ADJ.	Manual Manual	None 50/450	SPST SPST	48" Leads Screw Terms.	1/4" Internal Flare 36" Cap, Flare	(4)(5)(7)(8)
Ranco PENN 3100-105 P70DA-1C	440 ADJ.	Manual Manual	None 50/450	SPST SPST	36" Leads Screw Terms.	.093 Cap. Tube 36" Cap, Flare	(4)(5)(7)(8)
Ranco PENN 3100-106 P100DA-2C	475 475	Manual Manual	None None	SPST SPST	42" Leads 48" Leads	1/4" Sweat w/ Cap. 1/4" Internal Flare	(4)
Ranco PENN 3100-107 P70DA-1C	232 ADJ.	Manual Manual	None 50/450	SPST SPST	84" Leads Screw Terms.	1/4" Internal Flare 36" Cap, Flare	(4)(5)(7)(8)
Ranco PENN 3100-108 P20EB-2C	280 ADJ.	Manual N/A	None 100/425	SPST SPDT	12" Leads Arkles	1/4" NPTF 36" Cap, Sweat	(4)(5)(6)(7)(8)
Ranco PENN 3100-110 P20EB-2C	375 ADJ.	275 N/A	None 100/425	SPDT SPDT	QC Arkles	1/4" Sweat 36" Cap, Sweat	(4)(5)(6)(7)
Ranco PENN 3100-111 P20EB-2C	375 ADJ.	275 N/A	None 100/425	SPST SPDT	QC Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)
Ranco PENN 3100-112 P20EB-2C	275 ADJ.	175 N/A	None 100/425	SPST SPDT	24" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)(8)
Ranco PENN 3100-113 P20EB-2C	395 ADJ.	295 N/A	None 100/425	SPST SPDT	QC Arkles	1/4" Sweat 36" Cap, Sweat	(4)(5)(6)(7)
Ranco PENN 3100-115 P20EB-2C	350 ADJ.	250 N/A	None 100/425	SPDT SPDT	36" Leads Arkles	1/4" Sweat 36" Cap, Sweat	(4)(5)(6)(7)(8)
Ranco PENN 3100-116 P20EB-2C	213 ADJ.	113 N/A	None 100/425	SPST SPDT	QC Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)
Ranco PENN 3100-117 P20EB-2C	140 ADJ.	190 N/A	None 100/425	SPST SPDT	12" Leads Arkles	.093 Cap. Tube 36" Cap, Sweat	(4)(5)(6)(7)(8)
Ranco PENN 3100-118 P20EB-2C	295 ADJ.	395 N/A	None 100/425	SPST SPDT	QC Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)
Ranco PENN 3100-120 P20EB-2C	420 ADJ.	320 N/A	None 100/425	SPST SPDT	QC Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)
Ranco PENN 3100-121 P20EB-2C	426 ADJ.	272 N/A	None 100/425	SPST SPDT	QC Arkles	1/4" Sweat 36" Cap, Sweat	(4)(5)(6)(7)
Ranco PENN 3100-150 P20EB-2C	350 ADJ.	250 N/A	None 100/425	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)(8)
Ranco PENN 3100-151 P100CA-1C	400 400	300 300	None None	SPST SPST	18" Leads 48" Leads	1/4" Internal Flare 1/4" Internal Flare	
Ranco PENN 3100-152 P100CA-1C	400 400	200 300	None None	SPST SPST	18" Leads 48" Leads	1/4" Internal Flare 1/4" Internal Flare	
Ranco PENN 3100-153 P20EB-2C	450 ADJ.	250 N/A	None 100/425	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(4)(5)(6)(7)(8)
Ranco PENN 3100-154 P70LB-1C	500 ADJ.	400 N/A	None 100/500	SPST SPST	18" Leads Screw Terms.	1/4" Internal Flare 36" Cap, Flare	(4)(5)(7)(8)(9)
Ranco PENN 3100-155 P70LB-1C	500 ADJ.	300 N/A	None 100/500	SPST SPST	18" Leads Screw Terms.	1/4" Internal Flare 36" Cap, Flare	(4)(5)(7)(8)(9)
Ranco PENN MPF-7006 P20EB-1C	75 ADJ.	120 N/A	None 7/150	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPF-7007 P20EB-1C	110 ADJ.	170 N/A	None 7/150	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPF-7008 P100AA-3C	150 150	225 225	None None	SPST SPST	18" Leads 48" Leads	1/4" Internal Flare 1/4" External Flare	
Ranco PENN MPF-7009 P20EB-2C	190 ADJ.	275 N/A	None 100/425	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPF-7010 P20EB-2C	300 ADJ.	400 N/A	None 100/425	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPH-7101 P20EB-2C	250 ADJ.	180 N/A	None 100/425	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)

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Ranco® Refrigeration Cross-Reference (Continued)

Pressure Controls (Ranco Series 3100, MPF, MPH, and MPL) (Part 3 of 3)

Product #	Cut-Out	Cut-In	Range	Switch	Electrical	Pressure	Notes
Ranco PENN MPH-7102 P20EB-2C	270 ADJ.	200 N/A	None 100/425	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPH-7103 P20EB-2C	300 ADJ.	200 N/A	None 100/425	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPH-7104 P20EB-2C	325 ADJ.	225 N/A	None 100/425	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPH-7105 P20EB-2C	350 ADJ.	250 N/A	None 100/425	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPH-7106 P20EB-2C	375 ADJ.	275 N/A	None 100/425	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPH-7107 P100CA-1C	400 400	300 300	None None	SPST SPST	18" Leads 48" Leads	1/4" Internal Flare 1/4" External Flare	
Ranco PENN MPH-7108 P100CA-2C	425 425	325 325	None None	SPST SPST	18" Leads 48" Leads	1/4" Internal Flare 1/4" External Flare	
Ranco PENN MPL-7001 P100AC-1C	5 5	20 20	None None	SPST SPST	18" Leads 48" Leads	1/4" Internal Flare 1/4" External Flare	
Ranco PENN MPL-7002 P100AA-1C	15 10	35 40	None None	SPST SPST	18" Leads 48" Leads	1/4" Internal Flare 1/4" External Flare	
Ranco PENN MPL-7003 P20EB-1C	25 ADJ.	80 N/A	None 7/150	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPL-7004 P100AA-2C	35 35	60 60	None None	SPST SPST	18" Leads 48" Leads	1/4" Internal Flare 1/4" External Flare	
Ranco PENN MPL-7005 P20EB-1C	45 ADJ.	60 N/A	None 7/150	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPL-7011 P20EB-1C	10 ADJ.	25 N/A	None 7/150	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPL-7012 P20EB-1C	20 ADJ.	45 N/A	None 7/150	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)
Ranco PENN MPL-7014 P20EB-1C	40 ADJ.	80 N/A	None 7/150	SPST SPDT	18" Leads Arkles	1/4" Internal Flare 36" Cap, Sweat	(6)(7)(8)

Dual Pressure Controls (Part 1 of 2)

Product #	LO Side	Differential	HI Side	Differential	Capillary	Connection	Notes
Ranco PENN O12-1502 P70LB-6C	12"/50 12"/80	5/35 5/35	150/450 100/500	70 FXD 60 FXD	36" 36"	W/ Flare W/ Flare	
Ranco PENN O12-1505 P170LB-6C	12"/50 12"/80	5/35 5/35	100/250 100/500	50 FXD 60 FXD	None None	External Flare External Flare	
Ranco PENN O12-1506 P70LB-6C	12"/50 12"/80	5/35 5/35	100/250 100/500	50 FXD 60 FXD	36" 36"	W/ Flare W/ Flare	
Ranco PENN O12-1549 P70LB-1C	10"/100 20"/100	10/40 7/50	150/450 100/500	70 FXD 60 FXD	36" 36"	W/ Flare W/ Flare	
Ranco PENN O12-1550 P170LB-1C	10"/100 20"/100	10/40 7/50	150/450 100/500	70 FXD 60 FXD	None None	External Flare External Flare	
Ranco PENN O12-1554 P70LB-6C	12"/50 12"/80	5/35 5/35	100/250 100/500	50 FXD 60 FXD	48" 36"	W/ Flare W/ Flare	
Ranco PENN O12-1594 P70NA-1C	10"/100 20"/100	Manual Manual	150/450 100/500	Manual Manual	36" 36"	W/ Flare W/ Flare	
Ranco PENN O12-4139 P170LB-6C	12"/50 12"/80	5/35 5/35	150/450 100/500	70 FXD 60 FXD	None None	External Flare External Flare	
Ranco PENN O12-4833 P70SA-1C	12"/50 12"/80	5/35 5/35	150/450 100/500	70 FXD/Man 60 FXD	48" 36"	W/ Flare W/ Flare	
Ranco PENN O12-4834 P70SA-1C	10"/100 12"/80	10/40 5/35	150/450 100/500	70 FXD/Man 60 FXD	48" 36"	W/ Flare W/ Flare	
Ranco PENN O12-4842 P170SA-1C	12"/50 12"/80	5/35 5/35	150/450 100/500	70 FXD/Man 60 FXD	None None	External Flare External Flare	
Ranco PENN O12-4846 P170SA-1C	10"/100 12"/80	10/40 5/35	150/450 100/500	70 FXD/Man 60 FXD	None None	External Flare External Flare	
Ranco PENN O22-7702 P72LB-1C	12"/50 20"/100	5/35 7/50	100/250 100/500	50 FXD/Man 60 FXD	36" 36"	W/ Flare W/ Flare	(2)

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Ranco® Refrigeration Cross-Reference (Continued)

Dual Pressure Controls (Part 2 of 2)

Product #	LO Side	Differential	HI Side	Differential	Capillary	Connection	Notes
Ranco PENN	O22-7706 P72LB-1C	10"/100 20"/100	10/40 7/50	150/450 100/500	70 FXD 60 FXD	36" 36"	W/ Flare W/ Flare (2)

Low Pressure Cutout with Time Delay

Product #	Range	Differential	Time Delay	Capillary	Connection	Cover	Notes
Ranco PENN	3341-161 P29NC-38C	0/100 20"/100	5 FXD 2.2 FXD	120 Secs. 120 Secs.	36" 36"	W/ Flare W/ Flare	NEMA 1 NEMA 1

Lube Oil Pressure Controls

Product #	Range	Reset	Delay	Capillary	Connection	Cover	Notes
Ranco PENN	3321-001 P128AA-**C	9 FXD 8/70 ADJ	Manual Manual	45,60,90,120 Note (11)	None None	External Flare External Flare	NEMA 1 NEMA 1 (11)
Ranco PENN	3321-009 P28AA-**C	5 FXD 8/70 ADJ	Manual Manual	45,60,90,120 Note (11)	36" 36"	W/ Flare W/ Flare	NEMA 1 NEMA 1 (11)
Ranco PENN	3321-010 P28AA-**C	9 FXD 8/70 ADJ	Manual Manual	45,60,90,120 Note (11)	36" 36"	W/ Flare W/ Flare	NEMA 1 NEMA 1 (11)
Ranco PENN	3321-014 P28AA-**C	15 FXD 8/70 ADJ	Manual Manual	45,60,90,120 Note (11)	36" 36"	W/ Flare W/ Flare	NEMA 1 NEMA 1 (11)
Ranco PENN	3321-015 P28AA-**C	30 FXD 8/70 ADJ	Manual Manual	45,60,90,120 Note (11)	36" 36"	W/ Flare W/ Flare	NEMA 1 NEMA 1 (11)
Ranco PENN	P30-3601 P28AA-2C	8/60 ADJ 8/70 ADJ	Manual Manual	60 60	36" 36"	W/ Flare W/ Flare	NEMA 1 NEMA 1
Ranco PENN	P30-3701 P28AA-1C	8/60 ADJ 8/70 ADJ	Manual Manual	90 90	36" 36"	W/ Flare W/ Flare	NEMA 1 NEMA 1
Ranco PENN	P30-3801 P28AA-17C	8/60 ADJ 8/70 ADJ	Manual Manual	120 120	36" 36"	W/ Flare W/ Flare	NEMA 1 NEMA 1
Ranco PENN	P30-5826 P45NCA-12C	9 FXD 9 FXD	Manual Manual	120 120	36" 36"	W/ Flare W/ Flare	NEMA 1 NEMA 1
Ranco PENN	P30-5827 P145NCA-12C	9 FXD 9 FXD	Manual Manual	120 120	None None	External Flare External Flare	NEMA 1 NEMA 1

Lube Oil Pressure Controls without Time Delay

Product #	Range	Differential	Cut-In	Switch	Capillary	Connection	Notes
Ranco PENN	3311-101 P74AA-1C	14 FXD 8/70 ADJ	5 FXD 8/30 ADJ	9 FXD ADJ	SPDT Open Hi	36" 36"	1/4" Internal Flares 1/4" Internal Flares (12)
Ranco PENN	3311-103 P74EA-8C	4/6 ADJ 2/26 ADJ	5/6 3.5 FXD	9/12 N/A	SPDT SPDT	24" 36"	W/1/4" Sweats 1/4" Internal Flares (4)
Ranco PENN	3311-111 P74EA-8C	4/6 FXD 2/26 ADJ	5/6 3.5 FXD	9/12 N/A	SPDT SPDT	84" 36"	1/4" Internal Flares 1/4" Internal Flares
Ranco PENN	3311-115 P74BA-1C	6 FXD 8/70 ADJ	5 FXD 7/30 ADJ	11 FXD ADJ	Open LO Open LO	24" 36"	1/4" Internal Flares 1/4" Internal Flares
Ranco PENN	3311-118 P74BA-1C	40 FXD 8/70 ADJ	5 FXD 7/30 ADJ	45 FXD ADJ	Open LO Open LO	25" & 24" 36"	W/1/4" Sweats 1/4" Internal Flares (4)
Ranco PENN	3311-201 P74AB-1C	7 FXD 8/70 ADJ	Manual Manual	Manual Manual	SPDT Open Hi	49" & 72" None	W/1/4" Sweats 1/4" Internal NPT (4)(12)
Ranco PENN	3315-101 P74AA-1C	14 FXD 8/70 ADJ	5 FXD 8/30 ADJ	9 FXD ADJ	SPDT Open Hi	36" 36"	1/4" Internal Flares 1/4" Internal Flares (12)
Ranco PENN	3315-801 P74BA-1C	11/14 ADJ 8/70 ADJ	5 FXD 7/30 ADJ	16/19 ADJ	SPDT Open LO	None 36"	External Flares 1/4" Internal Flares (4)(12)



Ranco® Refrigeration Cross-Reference (Continued)

Transformers

Product #	VA	Prim. Volt.	Prim. Lead	Sec. Volt.	Sec. Lead	Mounting	Notes
Ranco 620-205 PENN Y65A13-0	20 40	120 120	8" Leads 8" Leads	24 24	8" Leads 30" Leads	Foot Foot w/ Hubs	
Ranco 620-206 PENN Y65T31-0	20 40	208/240 120/208/240	8" Leads 8" Leads	24 24	8" Leads 3 Terminals	Foot Universal	(8)
Ranco 620-403 PENN Y65T31-0	40 40	120 120/208/240	8" Leads 8" Leads	24 24	8" Leads 3 Terminals	Universal Universal	(8)
Ranco 620-404 PENN Y65T31-0	40 40	208/240 120/208/240	8" Leads 8" Leads	24 24	8" Leads 3 Terminals	Universal Universal	(8)
Ranco 620-405 PENN Y65A13-0	40 40	120 120	8" Leads 8" Leads	24 24	8" Leads 30" Leads	Foot Foot w/ Hubs	
Ranco 620-406 PENN Y65T31-0	40 40	208/240 120/208/240	8" Leads 8" Leads	24 24	8" Leads 3 Terminals	Foot Universal	(8)
Ranco 620-482 PENN Y65A13-0 PENN Y65T31-0	40 40 40	120/208/240 120 120/208/240	8" Leads 8" Leads 8" Leads	24 24 24	8" Leads 30" Leads 3 Terminals	Foot Foot w/ Hubs Universal	(13)
Ranco 620-502 PENN Y63T22-0	50 50	120/208/240 120/208/240	8" Leads 8" Leads	24 24	8" Leads 8" Leads	Universal Universal	(13)
Ranco 620-752 PENN Y66T12-0	75 75	120/208/240 120/208/240	8" Leads 8" Leads	24 24	8" Leads 8" Leads	Foot Foot	(13)
Ranco 620-758 PENN Y66F12-0	75 75	480 277/480	8" Leads 8" Leads	24 24	8" Leads 8" Leads	Foot Foot	

Notes:

- (1) Can use A419ABC-1, -30/212F range, 1/30F differential, SPDT, 78" lead, 0.25 x 2 PTC sensor, NEMA 1.
- (2) Convertible
- (3) Add Ecosafe hose.
- (4) Different pressure element.
- (5) Not as compact.
- (6) Differential depends on setting.
- (7) Not an encapsulated switch as Ranco's is.
- (8) Different electrical connection.
- (9) Dual control, ignore lo side.
- (10) Range is Defrost Termination for both.
- (11) Choose correct one below based on timing required and pressure connection:

P28AA-1	8/70	90 Secs.	36"	W/ Flare
P28AA-2	8/70	60 Secs.	36"	W/ Flare
P28AA-17	8/70	120 Secs.	36"	W/ Flare
P28AA-18	8/70	45 Secs.	36"	W/ Flare
P128AA-1	8/70	90 Secs.	None	External Flare
P128AA-2	8/70	60 Secs.	None	External Flare
P128AA-17	8/70	120 Secs.	None	External Flare
- (12) Different switch.
- (13) Choose which transformer based on primary voltage desired.
- (14) May be extended up to 800 feet.