



Dual Pressure Controls

Realcold Stock No.	Model	Description				Price \$ Excl. GST
		Reset	Hp/Lp	Range kPa	Differential kPa	
Ranco Dual Pressure Controls						
G0048	017-8711*	Auto Auto	LP HP	-30 to 700 700 to 3000	62 to 393 350 bar fixed	
G0056	017-8701	Auto Auto	LP HP	-30 to 700 700 to 3000	62 to 393 345 bar fixed	
G0055	017-8705	Auto Manual	LP HP	-30 to 700 700 to 3000	62 to 393 345 bar fixed	
G0203	Dual Pressure Switch Replacement Cover					
G0204	Single Pressure Switch Replacement Cover					

* These Ranco controls are complete with copper capillaries fitted.

Saginomiya Dual Pressure Controls						
G1010	DNS-D306XM	Auto Manual	LP HP	-60 to 600 800 to 3000	60 to 400 Manual reset	
G1015	DNS-D306X	Auto Auto	LP HP	-60 to 600 800 to 3000	60 to 400 400 bar fixed	
G1016	DNS-D606X*	Auto Auto	LP HP	-60 to 600 800 to 3000	60 to 400 400 bar fixed	
G1017	DNS-D606XM*	Auto Manual	LP HP	-60 to 600 800 to 3000	60 to 400 Manual reset	

* 606 series have independent contacts for high and low side.





Low Pressure Controls

Realcold Stock No.	Model	Description			Price \$ Excl. GST
		Reset	LP Range	Differential	
			kPa	kPa	
Ranco Low Pressure Controls					
G0044	016-8713*	Auto	-30 to 700	62 to 393	
G0050	016-8706	Auto	-30 to 700	62 to 393	

* These Ranco controls are complete with copper capillaries fitted.

Saginomiya Low Pressure Controls					
G1000	SNS-C106X	Auto	-60 to 600	60 to 400	
G1002	SNS-C102X	Auto	-20 to 200	25 to 150	
G1006	SNS-C110X	Auto	100 to 1000	100 to 300	



High Pressure Controls

Realcold Stock No.	Model	Reset	Range (kPa)	Differential (kPa)	Price \$ Excl. GST
Ranco High Pressure					
G0053	016-8750	Auto	690 to 3000	250 to 800	
G0054	016-8751	Manual	690 to 3000	320 fixed	



High Pressure Controls

Realcold Stock No.	Model	Reset	Range (kPa)	Differential (kPa)	Price \$ Excl. GST
Saginomiya High Pressure					
G1005	HNS-C130X	Auto	800 to 3000	Fixed 400	
G1008	SNS-C130X	Auto	500 to 3000	300 to 1000	

Differential Pressure Controls

Realcold Stock No.	Model	Reset	Range (kPa)	Differential (kPa)	Price \$ Excl. GST
Saginomiya					
G1019	WNS-C106X	Auto	50 to 350	50 to 250	





Oil Protection Controls - Differential Pressure Controls (oil failure)

Realcold Stock No.	Model	Description			Reset	Price \$ Excl. GST
		Time Delay	COPD (bar)	CIPD (bar)		
G0096	Ranco P30-3601*	60 second	0.3 to 4	0.7 to 4.8	Manual	
G0097	Ranco P30-3701*	90 second	0.3 to 4	0.7 to 4.8	Manual	
G0099	Ranco P30-3801*	120 second	0.3 to 4	0.7 to 4.8	Manual	



* These Ranco controls are complete with copper capillaries fitted.
Please refer to Frascold Accessories page for Sealed/Electronic Oil Protection Systems.

Saginomiya Flow Switches

Realcold Stock No.	Model	Description	Price \$ Excl. GST
G1090	FQS-U30G	Suitable for pipes: 1" to 6" Connection: 1" NPT	

Pressure Control Accessories

Realcold Stock No.	Description	Price \$ Excl. GST
G0057	Ranco Angle Bracket to suit pressure controls	
G0058	Shineyear Coupler (capillary and nuts) to suit pressure controls	
G0060	Flica 600 mm Capillary Couplers c/w Nuts	
G0062	Flica 1000 mm Capillary Couplers	



Pressure Control Hoses

Realcold Stock No.	Description	Price \$ Excl. GST
G0070M	12" Hose 1/4" FF x 1/4" FF 90°	
G0071M	18" Hose 1/4" FF x 1/4" FF 90°	
G0072M	24" Hose 1/4" FF x 1/4" FF 90°	
G0074M	36" Hose 1/4" FF x 1/4" FF 90°	
G0075M	48" Hose 1/4" FF x 1/4" FF 90°	
G0076M	60" Hose 1/4" FF x 1/4" FF 90°	



- These hoses are designed for permanent installation and have a 1/4" FF metal to metal seat. Copper gaskets recommended. Suitable for capillary lines, etc.
- The minimum operating temperatures these hoses can be safely used at is -30°C, and the maximum is 122°C. Maximum pressure rating is 4000 kPa.

Pressure Controls - CB Series

- Pressure Control CB series are small disc type pressure controls featuring compact structure and proven reliability
- They are designed to suit modern designed applications with various types of connection style, applications include air conditioning, auto industries and others.
- Type ACB - High & Medium pressure range
- Type LCB - Low pressure range



Small Pressure Controls - Type ACB, LCB

Conversion Factor: 1 Bar = 14.5 PSI

Realcold Stock No.	Model	OFF (PSI)	ON (PSI)	Colour	Life Cycle (Times)	Price \$ Excl. GST
G1160	LCB-PA48	6±5	21±7	Blue	10,000	
G1162	LCB-PA95	10±5	25±5	Blue	10,000	
G1164	LCB-PA96	35±7	60±7	Blue	10,000	
G1168	ACB-PA53	170±14	250±14	Red	100,000	
G1170	ACB-PA55	200±20	259±10	Red	100,000	
G1172	ACB-PB51	410±14	335±14	Black	100,000	
G1174	ACB-PB52	385±14	310±14	Red	100,000	
G1176	ACB-PB111	400±14	300±21	Red	100,000	
G1178	ACB-PB112M	400±28	<300 Manual	Red	10,000	
G1180	ACB-PB113	350±10	250±20	Red	100,000	

Controls

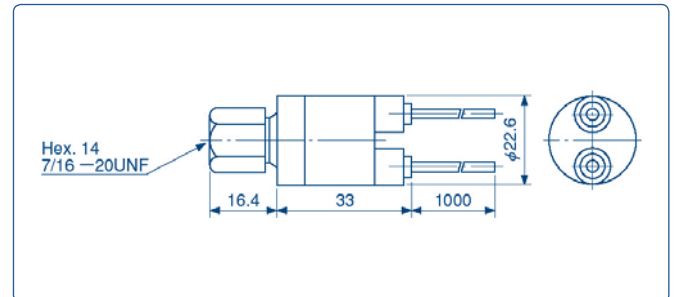
Specifications

- Lead wire end: Free
- Contact action: SPST
- Ambient Temperature: -30°C to +100°C
- Fluid Temperature: -54°C to +135°C

Should mark pressure ON/OFF setting on the body

- Pressure Connection: 1/4" Female
- Construction: Waterproof

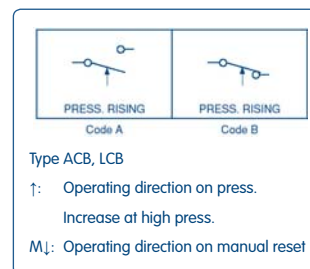
Dimensions



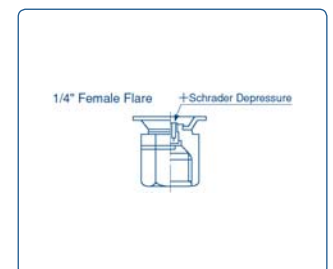
Electrical Ratings

Type ACB, LCB Category Of Ratings		M Rating		
Rated Voltage (V) Rated Amps. (A)	Power Factor (COSφ)	125V AC	250V AC	12V DC
Non-Inductive Current	1	1 to 6	1 to 4	1 to 4
Inductive Current	Full Load Locked Rotor 0.75 0.45	1 to 24	1 to 16	—

Contact Style



Connections



Domestic - Ranco

Realcold Stock No.	Type	Application	Normal °C		Cold °C		Warm °C	Price \$ Excl. GST
			Cut In	Cut Out	Cut Out	Cut In	Cut In	
G0104	K50-P1125-001	Single Temp. Cabinet	-9.5	—	-18	—	+8.5	
G0110	K50-P1126-001	Freezer Cabinet	-12	-18	-24	—	-9.5	
G0118	K50-P1127-001	Bottle Cabinet	+5	—	+1.5	—	+12.5	
G0109	VCI (K50-P1110)	Single Temp. Cabinet	-5	-14	-24	—	+2	
G0108	VF3 (K50-P1117)	Freezer	-18	-24	-32	—	-12	
G0114	VB7 (K50-P1118)	Bottle Cabinet	—	—	-3	+2	+12	
G0119	VT9 (K59-L1102)	Dual Temperature	—	—	-26	+3.5	—	

Commercial - Ranco

Realcold Stock No.	Type	Range °C	Differential	Sensor	Price \$ Excl. GST
G0125	016-6950	-35 to -7	1.7 to 12°C	Coiled Capillary	
G0130	016-6951	-18 to +13	1.7 to 12°C	Coiled Capillary	
G0135	016-6954	-5 to +25	1.7 to 12°C	Coiled Capillary	
G0136	016-6924	-5 to +25	1.7 to 12°C	Straight Capillary Tube	
G0140	016-6980	-18 to +13	1.7 to 12°C	Cross Ambient Bulb	
G0145	016-6981	-5 to +25	1.7 to 12°C	Cross Ambient Bulb	
G0148	016-6983	+10 to +40	1.7 to 12°C	Cross Ambient Bulb	
G0178	018-1100	0° Fixed	1/8" Ice	Capillary With Bulb	
G0146	Flat Mounting Bracket to suit Ranco Thermostats				

- Straight and coiled capillary thermostats are used on applications where it can be guaranteed that the sensing element is always cooler than the control head. Where local sensing is required, the coiled version is used, whereas the straight version is used to sense over a longer distance eg across an evaporator coil.
- Cross Ambient Thermostats have a capillary and remote bulb. Unlike the straight or coiled capillary models, these controls sense only at the bulb. They should be used on all applications where it is possible that the control head or capillary can be at a lower temperature than the sensing bulb.



Capillary - Saginomiya

Realcold Stock No.	Type	Range °C	Differential	Sensor	Price \$ Excl. GST
G1052	XWS-C1030AGL2 Switches: 8 amps	-35 to +30°C	2 to 7°C	2 M Capillary	
G1053	XWS-C1060AGL2 Switches: 8 amps	-5 to + 60°C	2 to 7°C	2 M Capillary	
G1054	CNS-C114XM2	-15° to 15°C	Capillary Safety Thermostat with 1m capillary. Manual Reset Fixed Differential.		
G1061	DTB-X178 Bottle cabinet thermostat (Skope)	Adjustable setting OFF -10°C, ON +5°C			

Saginomiya Air Conditioning Thermostats

Realcold Stock No.	Type	Range °C	Differential	Sensor	Price \$ Excl. GST
G0150	VRS-C234 Q147	10 to 35°C	1.5°C fixed	Room	
	Two stage, auto changeover, knob adjustment		2°C fixed between stages		
G0151	VRS-C234Q149	10 to 35°C	1.5°C fixed	Room	
	Two stage, auto changeover, screw driver adjustment		2°C fixed between stages		
G0153	VRS-C234 Q172	10 to 35°C	1.5°C fixed	Room	
	Two stage with auto changeover ON/OFF Switch		2°C fixed between stages		
G0155	ARS-630	10 to 30°C	1.5°C fixed	Room	
	Two stage with auto changeover and upper/lower range limiters		2°C fixed between stages		

Thermostat Guards

Realcold Stock No.	Model	Height	Width	Depth	Price \$ Excl. GST
G0161	BTG-RK	162 mm	89 mm	76 mm	
	With Ring Base for easy installation on new or existing thermostats				

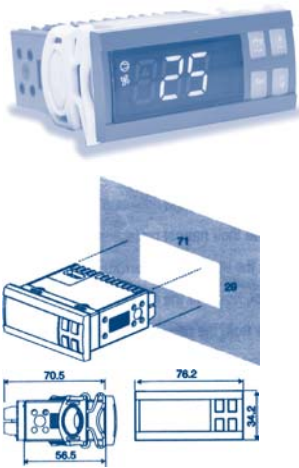
Note: Please refer to page 192 for Defrost Controls and to page 190 for Electronic Controls

All Thermostat Guards are stylish, unbreakable, and tamper-proof.

A single key is provided for convenience. Each guard comes with the guard, key, wall bracket, and four mounting screws and anchors. Install frame on wall, hook the guard onto the frame by means of the two hooks on top, and lock.



Carel Electronic Controls ir33 - New Generation



Following ir32, one of CAREL's most famous and best selling controllers, the ir33 range represents the maximum technology that CAREL offers in the field of refrigeration applications.

The top-of-the-range model characterising the new series arouses special interest as it can be fitted with all the options available: infrared remote control, programming key, repeater display, high efficiency LED display, HACCP function, real time clock, RS485 serial port, second evaporator defrost management, without sacrificing the 4 control relays and the 115 to 230 Vac switching power supply.

All obviously in the same dimensions as the current ir32 case!

Another unique feature concerning this new series of controllers is the possibility to manage smart defrosts, optimising the management of this function, with consequent energy savings.

Finally, one very important aspect involves the IP65 index of protection; the modern technology implemented by CAREL for the moulding of the plastic parts has allowed the protection gasket to be integrated directly into the front panel, without the need to add accessory components to the product that may create an unpleasant aesthetic and visual impact.

Refrigeration Controls

All models are fitted with a buzzer and can be connected to the Carel Supervisory system (Plant Visor) via the RS485 interface. Please note that Temperature Sensors are not included; please choose the probe that you require from the options below.

Realcold Stock No.	Model	Compressor	Defrost	Fan	Aux	Infrared	Real Time Clock	Price \$ Excl. GST
12/24V AC/DC Version								
G4501	IR33SOLR00	16A	—	—	—	YES	—	
G4503	IR33COLR00	16A	8A	8A	8A	YES	—	

230V AC Version								
G4505	IR33SOER00	8A	—	—	—	YES	—	
G4507	IR33FOER00	8A	8A	5A	—	YES	—	

115/230V AC Version								
G4509	IR33COHR00	16A	8A	8A	8A	YES	—	
G4511	IR33COHB00	16A	8A	8A	8A	YES	YES	

230V AC Din Rail Version

Realcold Stock No.	Model	Description	Price \$ Excl. GST
G4512	DN33SOEN00	Carel 230V DIN Rail 1 stage Tstat with static defrost and 16 A relay	
G4513	DN33FOEN00	Carel 230V DIN Rail low temp controller with 3 relays	
G4536	IRDRDOXIP66	Carel DIN Rail Enclosure	

Temperature Sensors

Realcold Stock No.	Model	Description	Price \$ Excl. GST
G4550	NTC015WP00	IP68 Immersion sensor 1.5m cable. Temp. range -50 - +100°C	
G4552	NTC060WP00	IP67 Immersion sensor 6.0m cable. Max Temp = +100°C	

Accessories

Realcold Stock No.	Model	Description	Price \$ Excl. GST
G4302	ABS100/75LG	Standard Enclosure W/Cut-out	
G4306	87-84315/ RE H95AG	Enclosure for All Panel Mount Controllers. Suitable for all standard 70 mm x 28 mm panel mount controllers.	

Electronic Controllers - Fan Speed Controller - Pressure Actuated

Realcold Stock No.	Model	Description	Price \$ Excl. GST
Single Phase Controller			
G1121	Saginomiya RGE-Z1N4-5	Pressure Actuated Fan speed controller Factory set for R22, R404A, R407C and adjustable for use with R134a. For approved motors rated from 0.2 - 4 Amps. Single phase. Capillary pressure sensor Range 8 - 28 Bar adjustable 4 Bar fixed proportional band	
G1123	Saginomiya RGE-Z1N6-5	Pressure Actuated Fan speed controller Factory set for R410A Refrigerant. Single Phase, 4 Amps, IP54.	
G1124	Saginomiya RGE-Z1Q4-5	Pressure Actuated Fan speed controller Factory set for R22, R404A, R407C. Refrigerants adjustable for use with R134a. Single Phase, 8 Amps, IP54.	





Defrost Controls

Realcold Stock No.	Model	Description	Price \$ Excl. GST
G0090	PARAGON 8145-21 (Replaces Precision 6145-21)	<ul style="list-style-type: none"> • Time initiated. • Externally temperature or pressure terminated. • 1 - 6 defrosts per 24 hours. • Minimum of 4 hours between defrost. • Length of defrost 4 to 110 minutes in 2 minute increments. • Has relay contact facility. • Suitable for 208 - 240 V 50 Hz. • Maximum contact rating is 25 Amps. 	
G0091	PARAGON 632-21*	<ul style="list-style-type: none"> • Time initiated, time terminated with fan delay. • 1 - 8 defrost per 24 hours. • Minimum of 3 hours between defrosts. • Pre-defrost delay 0 to 30 minutes in 3 minute increments. • Defrost period 3 to 45 minutes in 3 minute increments. • Post defrost delay 3 to 15 minutes in 3 minute increments. • Suitable for 208 - 240 V 50 Hz. • Maximum contact rating is 10 Amps. 	
G0092	PARAGON 8045-21 (Replaces Precision 6045-21)	<ul style="list-style-type: none"> • Time initiated, time terminated. • 1 - 6 defrosts per 24 hours. • Minimum of 4 hours between defrosts. • Length of defrost 4 - 110 minutes in 2 minute increments. • For basic defrost systems. • Suitable for 220 - 240 V 50 Hz. • Maximum contact rating is 25 Amps. 	
G0093	PARAGON 8245-21 (Replaces Precision 6245-21)	<ul style="list-style-type: none"> • Time initiated, pressure terminated. • 1 - 6 defrosts per 24 hours. • Minimum of 4 hours between defrosts. • Length of defrost 4 to 110 minutes in 2 minute increments. • Adjustable cut-in setting dial calibrated from 36-110 psi • (248 - 758 kPa) for R12, R22, R502. • Suitable for 208 - 240 V 50 Hz. • Maximum contact rating is 40 Amps. 	
G0084	FRIGO FLASH 16022*	<ul style="list-style-type: none"> • Compact Series 72 mm x 72 mm • 24 hour clock • Supply voltage 220 / 240 V +10% - 15% 50 / 60 Hz • Operating Temperature: -10°C/ +50°C • 10 minute programming segments • 72 switchings per day • Minimum interval between 2 switchings: 20 minutes • Contact ratings: 16 Amp resistive, 3 Amp inductive 	



Controls

* NB: External relay may be required in some applications.

Defrost Safety Thermostats

Realcold Stock No.	Model	Description	Price \$ Excl. GST
G0014	ML55	Thermostat 10 Amps Open +13°C Close +2°C	
G0016	ML70	Thermostat 10 Amps Open +21°C Close +10°C	
G0020	GL243	Surface Mount Clip (3 per Pack)	
G0022	GL249	Tube Mount Clip 3/8 - 1/2 - 5/8 (2 per Pack)	



Defrost Heat Tape

Realcold Stock No.	Model	Description	Price \$ Excl. GST
N0626	FST25	Jimi Heat Self Regulating Tape 26W/M at 10°C - 240 VAC Minimum installation temperature -40°C	
N0635		Seal Kit FCT BTV-2	

N0626 can be used in evaporator drains, provided correct termination kits are fitted.



Condensate Pans

The MA-Line condensate evaporator pan eliminates floor drains. The unit is made of die-cast aluminium and the resulting hard, bright surface give the pan unequalled efficiency and trouble free operation. The pan is self standing. All terminal connections are covered with moisture proof rubber. Evaporation rate is 250ml per hour at 22.2°C room temperature. The unit's heating element is sealed in 1/4" Bundy weld tubing.

Realcold Stock No.	Description	Voltage	Watts	Dimensions (mm)			Price \$ Excl. GST
				L	W	H	
C4080	MA-Line Condensate Pan - Small	240V	160	260	103	60	
C4082	MA-Line Condensate Pan - Large	240V	160	260	121	75	

