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Thermostatic Expansion Valves

Alco

TI Series with Interchangeable Orifice Assembly

TI Series Valves with interchangeable orifices provide the capability of changing capacity with only the change of an orifice.

Features

- Stainless steel metering pin in orifice
- External superheat adjustment
- Refrigerants: R22, R134a, R404A, R507
- Stainless steel power element
- Safe Working Pressure: 3100 kPa
- Replaceable inlet strainer assembly

Valve Body (Less Orifice)

Flare Inlet and Outlet



Cat. No.	Model No.	Part No.	Refrigerant	Evaporating Temperature Range °C	MOP (valve closed)	Connections			Capillary Length mm	List Price \$ Exc. GST	
						Inlet	Outlet	Equaliser			
106003	TI-HW	802420	R22	-45 to +20	N/A	3/8" MF	1/2" MF	Internal	1500	\$149.90	
106023	TI-MW	802445	R134a							\$149.88	
106025	TI-SW	802459	R404A	-45 to -3	0°C					External 1/4" MF	\$149.90
106029	TI-SW75	802469	R507								\$149.92
106004	TIE-HW	802421	R22	-45 to +20	N/A			\$178.08			
106024	TIE-MW	802446	R134a					\$178.08			
106026	TIE-SW	802460	R404A	-45 to -3	0°C			\$178.08			
106030	TIE-SW75	802470	R507					\$178.06			

Flare Inlet and Solder Outlet

Cat. No.	Model No.	Part No.	Refrigerant	Evaporating Temperature Range °C	MOP (Valve closed)	Connections			Capillary Length mm	List Price \$ Exc. GST			
						Inlet	Outlet	Equaliser					
106017	TIS-HW	802424	R22	-45 to +20	N/A	3/8" MF	1/2" OD	Internal	1500	\$149.88			
106021	TIS-MW	802449	R134a							\$149.88			
106027	TIS-SW	802463	R404A R507							\$149.88			
106018	TISE-HW	802425	R22	-45 to +20	N/A			3/8" MF		1/2" OD	External 1/4" MF	1500	\$178.06
106022	TISE-MW	802450	R134a										\$178.06
106028	TISE-SW	802464	R404A R507										\$178.08
106032	TISE-SW75	802472	R404A R507	-45 to -3	0°C						3/8" MF		1/2" OD

Connection Adaptor

Cat. No.	Model No.	Part No.	Description	List Price \$ Exc. GST
106035	TIA-038	802503	3/8 FF to 3/8 ODF Adaptor	\$46.86

Orifice Assembly (including Strainer)

Cat. No.	Model No.	Part No.	Nominal Capacity: kW*						List Price \$ Exc. GST
			R22		R134a		R404A/R507		
			M/T	L/T	M/T	L/T	M/T	L/T	
106014	0X	800532	0.5	0.3	0.3	0.2	0.4	0.3	\$40.45
106007	0	800533	1.3	0.9	0.8	0.5	0.9	0.6	\$40.45
106008	1	800534	3.3	2.2	1.8	1.2	2.2	1.5	\$40.45
106009	2	800535	5.4	3.7	2.9	1.9	3.7	2.5	\$40.45
106010	3	800536	8.7	5.9	4.7	3.1	5.8	4.0	\$40.45
106011	4	800537	14.3	9.7	7.9	5.2	9.5	6.5	\$40.45
106012	5	800538	17.4	11.8	9.6	6.3	11.6	8.0	\$40.45
106013	6	800539	20.0	13.6	11.1	7.3	13.4	9.2	\$40.45

Nominal Capacities based on:

MT: -4°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.

LT: -23.3°C evaporating temperature, 42°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.



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Thermostatic Expansion Valves

Alco BA Series

BA Series Thermostatic Expansion Valves feature a balanced port construction which provides stable and accurate superheat control over a wide range of operating conditions. Compared to conventional T.X. valves, under varying system conditions with wide pressure drops, the balanced port BA valve improves superheat control, system operation and valve stability.

Features

- Balanced port design improving operating and stability under low load conditions
- BAES have a removable strainer that can be cleaned without removing the valve from the line
- Bi-Flow capability
- BAE have straight through connection
- Maximum working pressure 3100 kPa
- Hermetic leak free construction
- External superheat adjustment
- BAES have angle connection
- Stainless steel power assembly
- Interchangeable with conventional T.X. valves

R22 Balanced Port TX Valve

Cat. No.	Model No.	Part No.	Refrigerant	BiFlow	Connections			Capillary Length mm	List Price \$ Exc. GST
					Inlet	Outlet	Equaliser		
106059	BAE 1 HCA	063200	R22	Y	3/8" ODF	1/2" ODF	External 1/4" ODF	760	\$213.12
106060	BAE 1 1/2 HCA	061954							\$213.12
106062	BAE 2 HCA	061955							\$217.37
106061	BAE 2 1/2 HCA	061956							\$217.35
106063	BAE 3 HCA	065892			1/2" ODF	5/8" ODF	External 1/4" ODF	1500	\$217.37
106064	BAE 4 HCA	061957							\$217.37
106065	BAE 5 HCA	061964							\$217.37
106066	BAE 6 HCA	062736							\$217.38

Model No.	Nominal Capacity: kW		
	AC	MT	LT
BAE 1 HCA	4.4	4.3	3.4
BAE 1 1/2 HCA	6.8	6.7	5.1
BAE 2 HCA	9.1	8.9	7.1
BAE 2 1/2 HCA	11.5	11.3	8.7
BAE 3 HCA	13.9	13.6	10.5
BAE 4 HCA	18.0	17.7	13.6
BAE 5 HCA	22.8	22.4	17.2
BAE 6 HCA	28.3	27.8	21.4

Nominal Capacities based on:

AC: 7°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.

MT: -4°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.

LT: -23.3°C evaporating temperature, 42°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.

Alco C Series

The C Series is a balanced ported valve designed for high efficiency R410A Air Conditioning and heat pump applications. C valves operate over widely varying operating conditions.

Features

- Balanced port design improving operating and stability under low load conditions
- External superheat adjustment
- Screens on ODF inlet connections
- Maximum working pressure 4826 kPa

Cat. No.	Model No.	Part No.	Refrigerant	BiFlow	Nominal Capacity: kW	Connections			Capillary Length: mm	List Price \$
					AC	Inlet	Outlet	Equaliser		Exc. GST
106221	CB18CE	093021	R410A	Y	6.3	3 8" ODF	1 2" ODF	External 1 4" ODF	1500	\$356.64
106222	CB24CE	093022			8.4					\$356.64
106223	CB36CE	093023			12.6					\$358.78
106224	CB48CE	093024			16.8	1 2" ODF	5 8" ODF			\$349.69
106225	CB60CE	093025			21.0					\$352.92
106226	CB72CE	093026			25.2					\$354.02
106227	CB84CE	093027			29.4	5 8" ODF	7 8" ODF			\$360.99

Nominal Capacities based on:

AC: 7°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.

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Thermostatic Expansion Valves



Alco

R134a Balanced Port TX Valve



Cat. No.	Model No.	Part No.	Refrigerant	Connections			Capillary Length: mm	List Price \$ Exc. GST
				Inlet	Outlet	Equaliser		
106212	BAES 1/2 MC	064244	R134a	3/8" ODF	1/2" ODF	External 1/4" ODF	760	\$224.68
106213	BAES 3/4 MC	064245						\$220.23
106214	BAES 1 MC	064246						\$220.23
106215	BAES 1 1/2 MC	064247						\$220.23
106216	BAES 2 MC	064248						\$220.23
106217	BAES 3 MC	064250						\$220.23

R404A Balanced Port TX Valve

Cat. No.	Model No.	Part No.	Refrigerant	Connections			Capillary Length mm	List Price \$ Exc. GST
				Inlet	Outlet	Equaliser		
106190	BAES 1/4 SC	064137	R404A R507	3/8" ODF	1/2" ODF	External 1/4" MF	760	\$220.23
106191	BAES 1/2 SC	064138						\$224.62
106192	BAES 1 SC	064139						\$220.23
106193	BAES 1 1/4 SC	064140						\$220.23
106194	BAES 1 1/2 SC	064141						\$224.66
106195	BAES 2 SC	064142						\$224.62
106196	BAES 2 1/2 SC	064280						\$220.23
106197	BAES 3 SC	064281						\$224.64
106198	BAES 4 SC	064460						\$224.68

R404A Balanced Port TX Valve

Cat. No.	Model No.	Part No.	Refrigerant	Connections			Capillary Length mm	List Price \$ Exc. GST
				Inlet	Outlet	Equaliser		
106200	BAES 1/4 SZ	064295	R404A R507	3/8" ODF	1/2" ODF	External 1/4" MF	760	\$220.23
106201	BAES 1/2 SZ	064144						\$220.23
106202	BAES 1 SZ	064145						\$220.23
106203	BAES 1 1/4 SZ	064146						\$220.23
106204	BAES 1 1/2 SZ	064273						\$224.64
106205	BAES 2 SZ	064537						\$224.64
106206	BAES 2 1/2 SZ	064434						\$220.23
106207	BAES 3 SZ	064538						\$224.64
106208	BAES 4 SZ	064780						\$224.65

Model No.	Nominal Capacity: R404A kW
	MT
BAES 1/4 SC	1.65
BAES 1/2 SC	3.15
BAES 1 SC	4.90
BAES 1 1/4 SC	6.55
BAES 1 1/2 SC	8.20
BAES 2 SC	10.0
BAES 2 1/2 SC	12.9
BAES 3 SC	16.3
BAES 4 SC	20.3

Model No.	Nominal Capacity: R404A kW
	LT
BAES 1/4 SZ	1.18
BAES 1/2 SZ	2.26
BAES 1 SZ	3.52
BAES 1 1/4 SZ	4.72
BAES 1 1/2 SZ	5.94
BAES 2 SZ	7.18
BAES 2 1/2 SZ	9.26
BAES 3 SZ	11.76
BAES 4 SZ	14.66

Model No.	Nominal Capacity: R134a kW
	MT
BAES 1/2 MC	1.55
BAES 3/4 MC	4.3
BAES 1 MC	4.6
BAES 1 1/2 MC	5.27
BAES 2 MC	7.77
BAES 3 MC	6.99

Nominal Capacities based on:

MT: -4°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.

LT: -23.3°C evaporating temperature, 42°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.



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Section 1

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Thermostatic Expansion Valves

Alco HF Series

HF Series Thermostatic Expansion Valves feature a balanced port construction which provides stable and accurate superheat control over a wide range of operating conditions. Compared to conventional T.X. valves, under varying system conditions with wide pressure drops, the balanced port HF valve improves superheat control, system operation and valve stability.

Features

- Balanced port design improving operating and stability under low load conditions
- External superheat adjustment
- The HFESC series has a removable 100 mesh strainer that can be cleaned and/or replaced without removing the valve from the line
- Interchangeable with conventional T.X. valves
- Maximum working pressure 3100kPa

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Cat. No.	Model No.	Part No.	Refrigerant	BiFlow	Connections			Capillary Length mm	List Price \$ Exc. GST		
					Inlet	Outlet	Equaliser				
106040	HFES 8 HCA	056819	R22	Y	5/8"	7/8"	External 1/4" ODF	1500	\$373.90		
106041	HFES 10 HCA	056820							\$373.90		
106042	HFES 12 HCA	065762			7/8"	1 1/8"			\$373.93		
106043	HFES 15 HCA	056825							\$373.90		
106044	HFES 20 HCA	058490							\$373.90		
106046	HFES 4 MC	057897	R134a	N	3/8"	1/2"			\$366.56		
106047	HFES 6 MC	057903			5/8"	7/8"			\$373.90		
106048	HFES 11 MC	058681			7/8"	1 1/8"			\$373.90		
106049	HFES 14 MC	064000				1 3/8"			\$366.56		
106087	HFESC 5 SC	058220	R404A R507		3/8"	1/2"			\$397.42		
106089	HFESC 10 SC	064219			5/8"	7/8"			\$389.65		
106090	HFESC 13 SC	065356			7/8"	1 1/8"			\$366.56		

Model No.	Nominal Capacity: R22 kW	
	AC	MT
HFES 8 HCA	33.4	34.7
HFES 10 HCA	41.9	44.0
HFES 12 HCA	48.6	51.3
HFES 15 HCA	62.0	65.2
HFES 20 HCA	81.7	85.9

Model No.	Nominal Capacity: R134a kW
	MT
HFES 4 MC	18.7
HFES 6 MC	26.1
HFES 11 MC	49.0
HFES 14 MC	64.5

Model No.	Nominal Capacity: R404A kW	
	AC	MT
HFESC 5 SC	27.4	24.8
HFESC 10 SC	51.5	46.6
HFESC 13 SC	67.8	61.4

Nominal Capacities based on:

AC: 7°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.

MT: -4°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.



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Section 1

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Thermostatic Expansion Valves

Alco TRAE Series

TRAE+ Series Thermostatic Expansion Valves are designed for large capacity refrigeration, air conditioning applications.

Features

- Solid copper solder straight through connections
- External superheat adjustment
- Stainless steel Power element
- Maximum working pressure 3100kPa
- Balanced port design improving operating and stability under low load conditions



Cat. No.	Model No.	Part No.	Refrigerant	BiFlow	Connections			Capillary Length mm	List Price \$ Exc. GST				
					Inlet: ODF	Outlet: ODF	Equaliser						
105014	TRAE+ 10 HC	062718	R22	N	5/8"	7/8"	External 1/4" MF	1500	\$699.63				
105015	TRAE+ 15 HC	062721			7/8"	1 1/8"		3000	\$699.63				
105016	TRAE+ 20 HC	062724							\$699.63				
105017	TRAE+ 30 HC	062727			1 1/8"	1 3/8"			\$699.63				
105018	TRAE+ 40 HC	062733							\$699.63				
105022	TRAE+ 13 MC	063549	R134a		5/8"	7/8"	External 1/4" ODF		\$699.63				
105023	TRAE+ 12 SC	064196	R404A R507		7/8"	1 1/8"			\$699.63				
105024	TRAE+ 14 SC	064407			1 1/8"				\$699.63				
105025	TRAE+ 20 SC	063927			1 3/8"				\$699.63				
105026	TRAE+ 30 SC	064435							\$699.63				
105027	TRAE 35 SC	064217							\$666.30				

Model No.	Nominal Capacity: R22 kW	
	AC	MT
TRAE+ 10 HC	52.7	56.8
TRAE+ 15 HC	76.6	82.7
TRAE+ 20 HC	85.5	92.3
TRAE+ 30 HC	129.6	139.9
TRAE+ 40 HC	178.2	192.4

Model No.	Nominal Capacity: R134A kW
	MT
TRAE+ 13 MC	60.69

Model No.	Nominal Capacity: R404A kW	
	AC	MT
TRAE+ 12 SC	57.8	46.6
TRAE+ 14 SC	64.4	50.8
TRAE+ 20 SC	97.8	79
TRAE+ 30 SC	134.4	110
TRAE 35 SC	181.5	150

Nominal Capacities based on:

AC: 7°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.

MT: -4°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.



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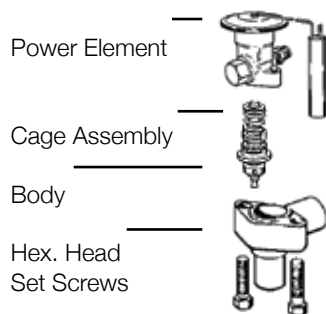
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Thermostatic Expansion Valves

Alco

T Series – Component Schedule - Model TCLE and TJLE



Features

- Angle Type
- Externally Equalised
- Single Ported for Normal Load Conditions
- Solder Connections

Refrig.	Valve Series	Power Element			Cage Assembly			Body - Angle Type			Set Screws (2)			
		Cat. No.	Model No.	List Price \$ Exc. GST	Cat. No.	Model No.	List Price \$ Exc. GST	Cat. No.	Model No.	List Price \$ Exc. GST	Cat. No.	Model No.	List Price \$ Exc. GST	
R134a	TCLE1/4MC	102179	XB1019-MW1B	\$269.79	102117	X22440-B1B	\$121.22	102201	C501-5 3/8" x 5/8" ODF	\$97.03	102222	PS286-5	\$14.03	
	TCLE3/4MC				102118	X22440-B2B	\$121.22							
	TCLE11/2MC				102119	X22440-B3B	\$121.22							
	TCLE21/2MC				102120	X22440-B4B	\$121.22							
	TCLE31/2MC				102122	X22440-B5B	\$128.86	102202	C501-7 1/2" x 5/8" ODF	\$97.03				
	TCLE51/2MC				102123	X22440-B6B	\$128.86							
	TCLE71/2MC				102125	X22440-B7B	\$128.86	102203	A576 5/8" x 7/8" ODF (7/8" x 1 1/8" ODM)	\$94.63	102221	PS168-5	\$14.03	
	TCLE9MC				102126	X22440-B8B	\$128.85							
R22	TCLE1/2HC	102149	XB1019-HC1B	\$279.36	102117	X22440-B1B	\$121.22	102201	C501-5 3/8"x 5/8" ODF	\$97.03	102222	PS286-5	\$14.03	
	TCLE1HC				102118	X22440-B2B	\$121.22							
	TCLE2HC				102119	X22440-B3B	\$121.22							
	TCLE3HC				102120	X22440-B4B	\$121.22							
	TCLE5HC				102122	X22440-B5B	\$128.86	102202	C501-7 1/2" x 5/8" ODF	\$97.03				
	TCLE71/2HC				102123	X22440-B6B	\$128.86							
	TCLE10HC				102125	X22440-B7B	\$128.86	102203	A576 5/8" x 7/8" ODF (7/8" x 1 1/8" ODM)	\$94.63	102221	PS168-5	\$14.03	
	TCLE12HC				102126	X22440-B8B	\$128.85							
R404A R507	TCLE1/4SC	102189	XB1019-SC1B	\$279.36	102117	X22440-B1B	\$121.22	102201	C501-5 3/8" x 5/8" ODF	\$97.03	102222	PS286-5	\$14.03	
	TCLE1/2SC				102118	X22440-B2B	\$121.22							
	TCLE1SC				102119	X22440-B3B	\$121.22							
	TCLE2SC				102120	X22440-B4B	\$121.22							
	TCLE3SC				102122	X22440-B5B	\$128.86	102202	C501-7 1/2" x 5/8" ODF	\$97.03				
	TCLE5SC				102123	X22440-B6B	\$128.86							
	TCLE61/2SC				102125	X22440-B7B	\$128.86	102203	A576 5/8" x 7/8" ODF (7/8" x 1 1/8" ODM)	\$94.63	102221	PS168-5	\$14.03	
	TCLE8SC				102126	X22440-B8B	\$128.85							
R134a	TJLE9MC	102179	XB1019-MC1B	\$269.79	102127	XC724-B4B	\$318.31	102210	B504 5/8" x 7/8" ODF (7/8" x 1 1/8" ODM)	\$193.66	102223	PS514-5	\$15.22	
	TJLE11MC				102128	XC724-B5B	\$318.31							
R22	TJLE11HC	102149	XB1019-HC1B	\$279.36	102127	XC724-B4B	\$318.31							
	TJLE14HC				102128	XC724-B5B	\$318.31							
R404A R507	TJLE7SC	102189	XB1019-SC1B	\$279.36	102127	XC724-B4B	\$318.31							
	TJLE9SC				102128	XC724-B5B	\$318.31							

Power elements listed are 'C' charge: Range -30 to 10°C, with 1.5m long capillary. Power elements with 'Z' charge: Range -45 to -10°C and 'W' charge: MOP are also available.



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Thermostatic Expansion Valves

Alco

T Series - Component Schedule - Model TJRE, TER, TIR, THR

Power Element ———

Cage Assembly ———

Body ———

Allen Key ———
Cap Screws ———



Features

- Angle Type
- Externally Equalised
- Balanced Double Port for Low Load conditions if needed
- Solder Connections

Refrig.	Valve Series	Power Element			Cage Assembly			Body - Angle Type			Cap Screws (2)		
		Cat. No.	Model No.	List Price \$ Exc. GST	Cat. No.	Model No.	List Price \$ Exc. GST	Cat. No.	Model No.	List Price \$ Exc. GST	Cat. No.	Model No.	List Price \$ Exc. GST
R134a	TJRE 11MC	102179	XB1019-MW1B	\$269.79	102114	X11873-B4B	\$318.31	102199	10331 7/8" x 7/8" ODF (1 1/8" x 1 1/8" ODM)	\$148.55	102224	PS259	\$18.65
	TJRE 13MC				102115	X11873-B5B	\$318.31						
R22	TJRE 14HC	102149	XB1019-HC1B	\$279.36	102114	X11873-B4B	\$318.31						
	TJRE 18HC				102115	X11873-B5B	\$318.31						
R404A R507	TJRE 9SC	102189	XB1019-SC1B	\$279.36	102114	X11873-B4B	\$318.31						
	TJRE 11SC				102115	X11873-B5B	\$318.31						

R134a	TER 16MC	102184	XC726-MC2B	\$329.58	102129	X9117-B6B	\$318.24	102212	9153 7/8" x 7/8" ODF (1 1/8" x 1 1/8" ODM)	\$141.69	102224	PS259	\$18.65
	TER 19MC				102116	X9117-B7B	\$318.24						
	TER 25MC				102130	X9117-B8B	\$318.24						
	TER 31MC				102131	X9117-B9B	\$318.24						
R22	TER 22HC	102185	XC726-HC2B	\$329.58	102129	X9117-B6B	\$318.24						
	TER 26HC				102116	X9117-B7B	\$318.24						
	TER 35HC				102130	X9117-B8B	\$318.24						
	TER 45HC				102131	X9117-B9B	\$318.24						
R404A R507	TER 14SC	102161	XC726-SC2B	\$329.58	102129	X9117-B6B	\$318.24						
	TER 16SC				102116	X9117-B7B	\$318.24						
	TER 22SC				102130	X9117-B8B	\$318.24						
	TER 28SC				102131	X9117-B9B	\$318.24						

R134a	TIR 45MC	102184	XC726-MC2B	\$329.58	102132	X9166-B10B	\$391.92	102214	9151 7/8" x 7/8" ODF (1 1/8" x 1 1/8" ODM)	\$257.84	102225	PS370	\$26.01
R22	TIR 55HC	102185	XC726-HC2B	\$329.58									
R404A R507	TIR 39SC	102161	XC726-SC2B	\$329.58									

R134a	THR 55MC	102184	XC726-MC2B	\$329.58	102133	X9144-B11B	\$452.38	102216	9149 1 1/8" x 1 1/8" ODM	\$180.24	102225	PS370	\$26.01
	THR 68MC				102134	X9144-B13B	\$452.38						
R22	THR 75HC	102185	XC726-HC2B	\$329.58	102133	X9144-B11B	\$452.38						
	THR 100HC				102134	X9144-B13B	\$452.38						
R404A R507	THR 50SC	102161	XC726-SC2B	\$329.58	102133	X9144-B11B	\$452.38						
	THR 60SC				102134	X9144-B13B	\$452.38						

Power elements listed are 'C' charge: Range -30 to 10°C with 1.5m capillary for TJRE and 3m capillary for TER, TIR, THR.

Power elements with 'Z' charge: Range -45 to -10°C and 'W' charge: MOP. are also available.



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Thermostatic Expansion Valves

Alco

Power Elements

Power Elements include gaskets and bulb clamps

TCLE, TJLE, TJRE Series



Cat. No.	Model No.	Part No.	Refrigerant	Equalizer Type	Capillary Length: m	Temp Range: °C	MOP: psi	List Price \$ Exc. GST	
102149	XB1019HC1B	053416	R22	1/4" MF	1.5	-30 to +10	None	\$279.36	
102158	XB1019HCA1B*	056039				-30 to +10		\$527.90	
102181	XB1019HW651B	089445				-45 to -1	65	\$289.86	
102147	XB1019HC2B	054390	R124		3	-30 to +10	None	\$329.18	
102138	XB1019QL1B	058120						\$558.91	
102179	XB1019MW1B	057878	R134a		1.5	-30 to +20		\$269.79	
102186	XB1019MZ1B	061946				-45 to -12		\$558.91	
102165	XB1019MC2B	059548			3	-30 to +10		\$351.72	
102166	XB1019NW1002B	803483	-45 to + 14			\$272.02			
102189	XB1019SC1B	059189	R404A R507		1.5	-30 to +10			\$279.36
102192	XB1019SZ1B	062140				-45 to -12			\$633.99
102168	XB1019SW401B	059130				-45 to -18		40	\$289.86
102191	XB1019SC2B	059547			3	-30 to +10	None	\$284.91	

*Suitable for heat pump and air conditioning applications

TER, TIR, THR Series

Cat. No.	Model No.	Part No.	Refrigerant	Equalizer Type	Capillary Length: m	Temp Range: °C	MOP: psi	List Price \$ Exc. GST
102185	XC726HC2B	802933	R22	1/4" MF	3	-30 to +10	None	\$329.58
102184	XC726MC2B	803384	R134a			-45 to + 14		\$329.58
102182	XC726NW1002B	803485	R407C/R22			-30 to +10		\$558.91
102161	XC726SC2B	803451	R404A R507			-45 to -12		\$329.58
102140	XC726SZ2B	063974				\$1,142.48		

TLE Series

Cat. No.	Model No.	Part No.	Refrigerant	Equalizer Type	Capillary Length: m	Temp Range: °C	MOP: psi	List Price \$ Exc. GST
102172	XB1033HCA-1B	049760	R22	Internal	1.5	-30 to +10	None	\$528.28

Rapid Response

Cat. No.	Model No.	Part No.	Refrigerant	Equalizer Type	Capillary Length: m	Temp Range: °C	MOP: psi	List Price \$ Exc. GST
102157	X8019FWS1B	031654	R134a	1/4" MF	1.5	-23 to +10	None	\$663.37

Accessories

Cat. No.	Model No.	Part No.	Description	List Price \$ Exc. GST
102220	X13455/1	027579	Gasket Kit	\$18.32
102243	XA-1728-4	020955	Bulb Strap Kit	\$29.45

Notes:

R-12 and R-134a are interchangeable refrigerant charges.

R-507, R-502 and R-404A are interchangeable refrigerant charges.

R-22 and R-407C are interchangeable refrigerant charges.



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Thermostatic Expansion Valves



Alco

T Series - Bodies and Screws

1



Valve Style	Body						Screws: 2 required			
	Cat. No.	Model No.	Part No.	Connections		List Price \$ Exc. GST	Cat. No.	Model No.	Part No.	List Price \$ Exc. GST
				Inlet	Outlet					
TCLE	102201	C501-5	803232	3⁄8" ODF	5⁄8" ODF	\$97.03	102222	PS286-5	021057	\$14.03
	102202	C501-7	803234	1⁄2" ODF		\$97.03				
	102203	A576	027764	5⁄8" ODF Or 7⁄8" ODM	7⁄8" ODF Or 1 1⁄8" ODM	\$94.63	102221	PS168-5	026629	\$14.03
	102207	9761-4	803350	1⁄2" ODF	5⁄8" ODF	\$148.93	102222	PS286-5	021057	\$14.03
	102208	X6346-17	803330	5⁄8" ODF	7⁄8" ODF	\$125.51				
TJLE	102210	B504	044984	5⁄8" ODF Or 7⁄8" ODM	7⁄8" ODF Or 1 1⁄8" ODM	\$193.66	102223	PS514-5	026639	\$15.22
TJRE	102199	10331	803338	5⁄8" ODF Or 1 1⁄8" ODM		\$148.55	102224	PS259	020829	\$18.65
	102198	10332	803324	7⁄8" ODF Or 1 1⁄8" ODM		\$160.92				
TER	102212	9153	803244			\$141.69				
	102213	9152	803244			\$198.72				
TIR	102214	9151	803286	1 1⁄8" ODM	1 1⁄8" ODM	\$257.84	102225	PS370	021064	\$26.01
THR	102216	9149	803284			1 1⁄8" ODM				

Nominal Capacities

Valve Style	Cat. No.	Model No.	Part No.	Nominal Capacity: kW								List Price \$ Exc. GST
				R22			R134a			R404A/R507		
				A/C	M/T	L/T	A/C	M/T	L/T	M/T	L/T	
TCLE	102117	X22440-B1B	037035	1.8	2.0	1.3	1.4	1.4	1.0	1.2	0.9	\$121.22
	102118	X22440-B2B	037037	3.6	3.8	2.6	2.6	2.8	1.9	2.4	1.7	\$121.22
	102119	X22440-B3B	037039	7.6	8.1	5.5	5.5	5.8	3.9	5.3	3.7	\$121.22
	102120	X22440-B4B	037041	16.7	17.8	12.1	12.3	12.8	8.7	11.5	8.1	\$121.22
	102122	X22440 B5B	037043	21.5	22.8	15.5	15.7	16.4	11.1	14.8	10.5	\$128.86
	102123	X22440 B6B	037045	29.4	31.2	21.2	21.4	22.4	15.2	20.2	14.3	\$128.86
	102125	X22440-B7B	037047	39.7	42.2	28.7	29.1	30.4	20.6	27.3	19.3	\$128.86
	102126	X22440-B8B	037049	46.2	49.1	33.3	33.8	35.3	24.0	31.8	22.5	\$128.85
TJLE	102127	XC724-B4B	093343	38.6	41.7	33.8	27.7	29.1	20.9	26.9	21.7	\$318.31
	102128	XC724-B5B	038699	49.2	53.2	43.1	36.7	38.1	26.6	34.3	27.7	\$318.31
TJRE	102114	X11873-B4B	088837	56.0	59.6	40.5	40.9	42.7	29.0	37.6	26.7	\$318.31
	102115	X11873-B5B	089058	71.5	76.0	51.6	51.8	54.1	36.7	48.0	34.0	\$318.31
TER	102129	X9117-B6B	077896	87.9	93.5	63.5	64.5	67.4	45.7	59.2	42.0	\$318.24
	102116	X9117-B7B	078117	100.5	106.9	72.5	73.6	76.9	52.2	67.7	48.0	\$318.24
	102130	X9117-B8B	071155	138.2	146.9	99.8	101.7	106.3	72.2	93.1	66.0	\$318.24
	102131	X9117-B9B	029429	168.1	178.8	121.4	122.6	128.1	87.0	112.8	80.0	\$318.24
TIR	102132	X9166-B10B	070738	215.5	229.1	155.6	158.0	165.2	112.1	144.8	102.6	\$391.92
THR	102133	X9144-B11B	020846	244.5	260.0	176.5	179.0	187.0	126.9	163.6	113.9	\$452.38
	102134	X9144-B13B	021067	291.8	310.3	210.7	214.4	224.0	152.0	196.5	139.3	\$452.38

Nominal Capacities based on:

AC: 7°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.

MT: -4°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.

LT: -23.3°C evaporating temperature, 42°C condensing temperature, 1K liquid sub-cooling, 200kPa pressure drop across distributor and line components.



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Section 1

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Thermostatic Expansion Valves



Danfoss

Type T2, TE2- Valve Body (Less Orifice)

Flare Inlet and Outlet



Cat. No.	Model No.	Part No.	Refrig.	Evap. Temp. Range °C	Range Code	MOP	Connections			Capillary Length mm	List Price \$ Exc. GST
							Inlet	Outlet	Equaliser		
108050	TX2	068Z3206	R22	-40 to +10	N	N	3/8" MF	1/2" MF	Internal	1500	\$166.08
108046	TN2	068Z3346	R134a								\$166.08
108054	TS2	068Z3400	R404A R507								\$166.08
108051	TEX2	068Z3209	R22						External 1/4"		\$207.57
108047	TEN2	068Z3348	R134a								\$207.57
108055	TES2	068Z3403	R404A R507	-60 to -25	B	Y	3/8" MF	1/2" MF	External 1/4"		\$207.57
108059		068Z3404									\$228.39
108085	TS2	068Z3408	R404A R507	-40 to -15	NL	Y	3/8" MF	1/2" MF	Internal		\$166.08
108086	TES2	068Z3409		-40 to -15	NL				External 1/4"		\$228.39

Flare Inlet and Solder Outlet

Cat. No.	Model No.	Part No.	Refrig.	Evap. Temp. Range °C	Range Code	MOP	Connections			Capillary Length mm	List Price \$ Exc. GST
							Inlet	Outlet	Equaliser		
108043	TX2	068Z3281	R22	-40 to +10	N	N	3/8" MF	1/2" OD	Internal	1500	\$166.08
108044	TN2	068Z3383	R134a								\$166.08
108058	TS2	068Z3414	R404A R507								\$166.08
108057	TEX2	068Z3284	R22						External 1/4"		\$207.57
108045	TEN2	068Z3385	R134a								\$207.57
108056	TES2	068Z3415	R404A R507	-60 to -25	B	Y	3/8" MF	1/2" OD	Internal		\$207.57
108061	TS2	068Z3420							\$166.08		
108087	TES2	068Z3430		-40 to -15	NL				External 1/4"		\$228.39

Orifice Assembly (Including Strainer)

Cat. No.	Orifice No.	Danfoss TX Valve Nominal Capacities*						List Price \$ Exc. GST
		R22		R134a		R404A		
		M/T	L/T	M/T	L/T	M/T	L/T	
108020	0X	0.62	0.56	0.44	0.38	0.39	0.35	\$51.64
108027	00	1.29	1.13	0.81	0.66	0.83	0.70	\$51.64
108021	01	2.90	2.09	1.57	1.03	1.88	1.30	\$51.64
108022	02	4.31	2.94	2.23	1.43	2.80	1.85	\$51.64
108023	03	7.67	5.27	3.99	2.55	4.90	3.30	\$51.64
108024	04	11.40	7.76	5.87	3.73	7.30	4.90	\$51.64
108025	05	14.50	9.84	7.45	4.75	9.30	6.20	\$51.64
108026	06	17.60	11.96	9.09	5.80	11.30	7.60	\$51.64

Nominal Capacities based on:

MT: -4°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling.

LT: -23.3°C evaporating temperature, 42°C condensing temperature, 1K liquid sub-cooling.



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Section 1

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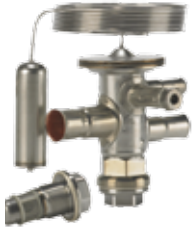
Thermostatic Expansion Valves



Danfoss

Type TUA, TUAE - Valve Body Solder Inlet and Outlet

1



Cat. No.	Model No.	Part No.	Refrig.	Evap. Temp. Range °C	Range Code	MOP	Connections			Capillary Length mm	List Price \$ Exc. GST
							Inlet	Outlet	Equaliser		
108112	TUA	068U2235	R22	-40 to +10	N	N	3/8" OD	1/2" OD	Internal	1500	\$166.08
108120		068U2205	R134a								\$166.08
108128		068U2285	R404A R507								\$166.08
108116	TUAE	068U2237	R22	-40 to -5	NM	Y	3/8" OD	1/2" OD	External 1/4"	1500	\$207.57
108124		068U2207	R134a								\$207.57
108132		068U2287	R404A R507								\$207.57
108133		068U2303	R404A R507								\$207.57

Orifice Assembly (Including Strainer)

Cat. No.	Orifice No.	Part No.	Danfoss TX Valve Nominal Capacities*						List Price \$ Exc. GST
			R22		R134a		R404A		
			M/T	L/T	M/T	L/T	M/T	L/T	
108150	0	068U1030	0.58	0.37	0.37	0.17	0.40	0.25	\$51.64
108151	1	068U1031	0.85	0.54	0.54	0.21	0.6	0.37	\$51.64
108152	2	068U1032	1.0	0.61	0.61	0.32	0.7	0.41	\$51.64
108153	3	068U1033	1.3	0.82	0.82	0.48	0.93	0.56	\$51.64
108154	4	068U1034	2.2	1.3	1.4	0.77	1.6	0.9	\$51.64
108155	5	068U1035	3.0	1.8	1.8	1.0	2.1	1.2	\$51.64
108156	6	068U1036	4.6	2.8	2.8	1.6	3.3	1.9	\$51.64
108157	7	068U1037	6.1	3.7	3.7	2.1	4.4	2.5	\$51.64
108158	8	068U1038	8.9	5.4	5.5	3.1	6.4	3.7	\$51.64
108159	9	068U1039	12.1	7.3	7.5	4.4	8.7	4.9	\$51.64

Nominal Capacities based on:

MT: -4°C evaporating temperature, 46°C condensing temperature, 1K liquid sub-cooling.

LT: -23.3°C evaporating temperature, 42°C condensing temperature, 1K liquid sub-cooling.



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Thermostatic Expansion Valves

Danfoss

Type TGE - Fixed Orifice TX Valve

R22



Cat. No.	Model No.	Part No.	Refrig.	Evap. Temp. Range °C	Nominal Capacity kW at 4.4°C	MOP	Connections: ODF			Capillary Length mm	List Price \$ Exc. GST		
							Inlet	Outlet	Equaliser				
	TGEX3	067N2150	R22	-40 to +10	10	N	3/8"	5/8"	External 1/4"	1500	P.O.A		
	TGEX3	067N2151			10		1/2"	5/8"			P.O.A		
108172	TGEX4	067N2152			14			7/8"			\$356.52		
108173	TGEX6	067N2153			20			5/8"			\$418.95		
108174	TGEX6	067N2154			20		5/8"	7/8"			\$418.95		
108175	TGEX6	067N2155			20						\$418.95		
108176	TGEX7.5	067N2156			27						\$418.95		
108177	TGEX11	067N2157			38						\$418.95		
	TGEX11	067N2158			38		5/8"	1 1/8"			P.O.A		
108179	TGEX12	067N2159			43			7/8"			\$570.47		

Nominal Capacities based on:

4.4°C evaporating temperature, 37°C liquid entering temperature, 38°C condensing temperature and 4K opening superheat

R407C

Cat. No.	Model No.	Part No.	Refrig.	Evap. Temp. Range °C	Nominal Capacity kW at 4.4°C	MOP	Connections: ODF			Capillary Length mm	List Price \$ Exc. GST
							Inlet	Outlet	Equaliser		
108196	TGEZ7	067N4156	R407C	-40 to +10	25	N	5/8"	7/8"	External 1/4"	1500	\$418.95
108197	TGEZ10	067N4157			36						\$418.95
108199	TGEZ12	067N4159			42						\$570.47

Nominal Capacities based on:

4.4°C evaporating temperature, 37°C liquid entering temperature, 38°C condensing temperature and 4K opening superheat



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Thermostatic Expansion Valves



Danfoss

Type TE5 - TE55 With Interchangeable Orifice Assembly



Cat. No.	Model No.	Part No.	Refrigerant	Evaporating Temp. Range °C	Range Code	MOP	Equaliser	Cap. Length	List Price \$ Exc. GST
109024	TEX5	067B3250	R22	-40 to +10	N	N	External 1/4"	3m	\$454.90
109028	TEN5	067B3297	R134a						\$454.90
109027	TES5	067B3342	R404A R507						\$454.90
110017	TEX12	067B3210	R22						\$629.91
109029	TEN12	067B3232	R134a						\$629.91
109030	TES12	067B3347	R404A R507						\$629.91
109031	TEX20	067B3274	R22						\$1,682.43
109032	TEN20	067B3292	R134a						\$1,682.43
109033	TES20	067B3352	R404A R507						\$1,682.43
109034	TEX55	067G3205	R22						\$1,878.96
	TEN55	067G3222	R134a						P.O.A
	TES55	067G3302	R404A R507						P.O.A

Orifice Assembly

Cat. No.	Model No.	Part No.	Valve Type	List Price \$ Exc. GST
	0.5	067B2788	TE5	P.O.A
109016	1	067B2789		\$175.20
109017	2	067B2790		\$175.20
109018	3	067B2791		\$175.20
109019	4	067B2792		\$175.20
109090	5	067B2708	TE12	\$299.02
109091	6	067B2709		\$317.88
109092	7	067B2710	TE20	\$333.06
109093	8	067B2771		\$509.04
109094	9	067B2773	TE55	\$509.04
109095	10	067G2701		\$523.70
109096	11	067G2704		\$523.70
109097	12	067G2707		\$523.70
109098	13	067G2710		\$523.70

Model No.	R22		R134a		R404A	
	M/T	L/T	M/T	L/T	M/T	L/T
0.5	9.7	6.7	6	3.9	7	4.8
1	17.9	12.4	11	7.1	12.9	8.8
2	25	17.4	15.4	10	17.9	12.3
3	31.5	21.8	19.5	12.7	22.6	15.4
4	43.1	29.4	26.5	17.1	30.9	20.8
5	50.3	34.5	32.6	21.5	40.3	26.2
6	66.5	44.5	42.8	27.8	50.5	31.9
7	81.5	55.5	54.6	36.2	60.1	38.2
8	115	78.1	67.3	43.6	70.9	46.1
9	128	84	76.8	49.0	78.6	49.6
10	145	92.9	91.6	56.5	98.2	60.3
11	157	101	100	62.2	106	65.3
12	170	108	109	67.1	114	69.6
13	204	130	133	82.0	136	82.6

Valve Body

Flare Angleway		List Price \$	Solder Angle		List Price \$	Solder Straight		List Price	Solder Flanges		List Price \$	Connections		Valve
Cat. No.	Part No.	Exc. GST	Cat. No.	Part No.	Exc. GST	Cat. No.	Part No.	\$ Exc. GST	Cat. No.	Part No.	Exc. GST	Inlet	Outlet	Type
109075	067B4013	\$178.77	109078	067B4009	\$178.77	109076	067B4007	\$178.77				1/2"	5/8"	TE5
			109079	067B4010	\$178.77	109077	067B4008	\$178.77				1/2"	7/8"	
			109080	067B4011	\$178.77		067B4032	P.O.A				5/8"	7/8"	
				067B4034	P.O.A		067B4033	P.O.A				7/8"	1 1/8"	
										067B4025	P.O.A	5/8"	7/8"	TE12
										067B4026	P.O.A	7/8"	1"	
			110053	067B4023	\$249.94	109081	067B4021	\$249.94				7/8"	1 1/8"	TE20
			109082	067G4004	\$357.46		067G4003	P.O.A				1 1/8"	1 3/8"	TE55



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Section 1

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Electronic Expansion Valves

Alco Ex Series

The E.X. range of electronic control valves from Emerson are optimised for control of liquid or gaseous mass flow in refrigeration systems. The stepper motor drive, which produces exact valve opening, is energised directly from the electrical power and therefore operates independent from differential pressure.

Application

The E.X. Series valves can be used in different control tasks, expansion valve for superheat control, suction pressure control for capacity control, liquid injection for desuperheating of compressor, condensing pressure control and hot gas bypass control to compensate excess compressor capacity and to ensure evaporating pressure does not go below a setpoint. The valve must be installed with the motor downward.

Features

- Fully hermetic design
- High linear flow capacity
- Positive shut-off function to eliminate use of additional solenoid valve
- Ceramic slide and port for highly accurate flow and minimal wear
- Compatible with all CFC's, HCFCs, HFCs, mineral and POE lubricants
- Stepper motor driven
- Wide capacity range
- Extremely wide controlling range of 10 to 100%
- Maximum working pressure 3500kPa

Valves



Cat. No.	Model No.	Part No.	Inlet Connection	Outlet Connection	Maximum Nominal Capacity: kW							List Price \$ Exc. GST
					R134a	R22		R404A		R410A		
					M/T	A/C	M/T	M/T	L/T	A/C	M/T	
107007	EX4-U31*	800617	5/8" ODF	5/8" ODF	12	16	17	11	11	18	20	\$858.37
107009	EX5-U31*	800619	5/8" ODF	7/8" ODF	37	48	51	33	33	56	59	\$907.65
107011	EX6-I31*	800622	7/8" ODF	1 1/8" ODF	89	115	122	80	80	134	143	\$925.61
107013	EX7-U31*	800626	1 3/8" ODF	1 3/8" ODF	243	316	336	219	220	369	395	\$1,025.79
107003	EX8-U21	800630	1 3/8" ODF	1 3/8" ODF	649	842	897	585	585	985	1053	\$1,606.43

* Suitable for Bi-flow applications

Superheat Controller kits



Cat. No.	Model No.	Part No.	Description	Suits	Kit Contents	List Price \$ Exc. GST
107014	EC3-X33-KIT	808036	Superheat Controller Kit	EX4 to EX8 Valves	EX3-X33 Controller K03-X33 Terminal Kit ECN-N60 Temperature Sensor PT4-07M Pressure Transducer PT4-M60 Transducer Cable ECT-623 Transformer	\$1,282.79

Accessories



Cat. No.	Model No.	Part No.	Description	List Price \$ Exc. GST
107005	EXV-M15	804663	Valve Lead 1.5 Metre	\$28.49
107018	ECD-002	807657	LED Display Unit	\$380.69
107030	ECC-N10	807860	RJ45 Connection Cable	\$11.36

Nominal Capacities based on:

M/T: 46°C condensing temperature, -4°C evaporating temperature and 1 K liquid subcooling at the inlet of the expansion valve.

L/T: 42°C condensing temperature, -23.3°C evaporating temperature and 1K liquid subcooling at the inlet of the expansion valve.

A/C: 46°C condensing temperature, 7°C evaporating temperature and 1K liquid subcooling at the inlet of the expansion valve.

Typical ordering package for expansion valve application (1 of each):

- Electronic Valve
- Valve Lead
- Superheat Controller Kit

Accessories (required for setting at start-up only):

- LED Display Unit
- RJ45 Connection Cable

As the EX Series of valves have stainless steel connections, Emerson require the use of 45% silver solder and flux during soldering and the valve must be "wet ragged".



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Electronic Expansion Valves stand out for their ability to provide accurate control and for their capacity to quickly reach and maintain the operating stability of refrigeration & air conditioning systems.

Features

- External driver motor
- Laser welded construction
- Positive valve shut-off
- Bi-directional flow (for reverse-cycle applications)
- Precision flow control (lowers energy costs)



Cat. No.	Part No.	Connection Size	Connection Size	Maximum Nominal Capacity: kW							List Price \$ Exc. GST
				R134a	R22		R404A		R410A		
				M/T	A/C	M/T	M/T	L/T	A/C	M/T	
107099	E2V05BSF00	1/2"	1/2"	1.2	1.3	1.4	0.9	1	1.5	1.7	\$455.58
107100	E2V09BSF00			2	1.9	2.4	1.5	1.7	2.6	2.9	\$455.58
107122	E2V11BSF00			3.5	3.7	4.2	2.7	3	4.6	5.2	\$455.58
107102	E2V14BSF00			5	6	6.5	4.3	4.7	7.3	8.2	\$455.58
107126	E2V18BSF00			7	8	9	6	6.4	10	11	\$455.58
107104	E2V24BSF00			14	16	18	12	12.8	19.6	22	\$455.58
107105	E2V30BSM00	5/8"	5/8"	20	24	27	18	18.9	29.5	33	\$455.58
107106	E2V35BSM00			28	35	37	23	26	40	45	\$455.58
107132	E3V45ASR00	3/4"	7/8"	47	60	65	42	45.5	71	80	\$1,095.96
107134	E3V55ASR00			70	80	95	62	67	105	117	\$1,095.96
107136	E3V65ASS00	7/8"	1 1/8"	95	115	130	85	90	140	157	\$1,195.67
107142	E4V85AST00	1 1/8"	1 3/8"	135	165	180	120	125	200	225	\$1,634.07
107144	E4V95AST00			180	230	250	165	170	270	300	\$1,808.42
107145	E5VA5AST00	1 3/8"		450	545	600	400	410	655	740	\$2,324.68
107146	E6VB2ASV00	1 5/8"	1 5/8"	900	1080	1200	750	800	1300	1450	\$2,846.52
	E7VC1ASZ00	2 1/8"	2 1/8"	1400	1730	2000	1250	1300	2080	2350	P.O.A

Nominal Capacities based on:

M/T: 46°C condensing temperature, -4°C evaporating temperature and 5k subcooling at the inlet of the expansion valve. 70% nominal capacity.

L/T: 42°C condensing temperature, -23.3°C evaporating temperature and 5k subcooling at the inlet of the expansion valve. 70% nominal capacity.

A/C: 46°C condensing temperature, 7°C evaporating temperature and 1k subcooling at the inlet of the expansion valve. 70% nominal capacity.



Electronic Expansion Valves

Carel

The EVD Evolution Series of controllers for electronic valves is the latest step in the development of the famous Carel drivers for superheat control. This instrument adds advanced functions and a new user interface that makes it even easier to use and configure. The new TWIN version can independently control two electronic expansion valves, and represents the ideal solution for two circuit units or different control functions (i.e. superheat and hot gas bypass).

The powersolution panels are prewired for a plug and play and fast installation in the field.

1

Powersolution Panels



Cat. No.	Part No.	Description	List Price \$ Exc. GST
107174	EDVPN01007	EEV Driver Panel Kit Without Ultracap (Kit contains all sensors and cables as well)	\$1,768.68
107176	EDVPN01008	EEV Driver Panel Kit With Ultracap (Kit contains all sensors and cables as well)	\$2,363.93
107177	EDVPN02008	EEV Twin Driver Panel Kit With Ultracap (Kit contains all sensors and cables as well)	\$3,133.10

Driver Kits

Cat. No.	Part No.	Description	Kit Contents	List Price \$ Exc. GST
107170	EVD00N3E5K	Driver Kit Carel Valve	E2VCABS600 EVD0000E50 SPKT0013R0 SPKC005310 NTC060HF01	\$933.46
107172	EVD00N3E2K	Driver Kit Universal Valve	E2VCABS60 EVD0000E20 SPKT0013R0 SPKC005310 NTC060HF01	\$1,265.87

Note:

The 0-5Vdc ratio-metric pressure transmitter included in the kit can be extended to a maximum distance of 10 meters. For distances up to 30 meters, a 4-20mA transmitter should be used instead.



Drivers

Cat. No.	Part No.	Description	List Price \$ Exc. GST
107164	EVD0000E50	Expansion Valve Driver EVO	Carel Valves
107166	EVD0000E20		Universal Valve Types
107165	EVD0000T50	Twin Expansion Valve Driver EVO	Carel Valves
107168	EVDIS00EN0	Removable Plug In Display for EVO	

Accessories



Cat. No.	Part No.	Description	List Price \$ Exc. GST
107112	E2VCABS600	Connector Cable 6m Shielded	\$97.22
107113	EEVMAG000	EEV Manual Driving Tool Set of 3	\$112.58
146382	NTC030HF03	Temperature Sensor - Clamp On	\$43.98
146326	SPKT0013R3	Pressure Transmitter - 100kPa to 930kPa	\$212.78
146147	SPKC002313	Pressure Transmitter Cable IP65	\$34.53
146116	TX60	Transformer 240V - 24V AC 60VA	\$247.81
107169	EVD0000UC0	Ultracap module: power fail backup device for EVD Evolution	\$549.48

Typical ordering package for expansion valve operation (1 of each):

- Electronic Valve
 - Valve Driver
 - Transformer
 - Connector Cable
 - Pressure Transmitter
 - Transmitter Cable
 - Temperature Sensor
- EVDISS00EN0 removable display is used for commissioning & programming.



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UltraCella platform

The innovative solution for your cold rooms

UltraCella is the result of analysis, experience and understanding of current and future market requirements. It is a new generation of controllers based on the latest CAREL technology: this powerful platform can connect more probes and loads than other standard solutions, managing these with optimised and advanced control algorithms, for total cold room control.

With **UltraCella**, special care has been focused on usability in three different stage: installation, configuration and everyday operation. Users and customers with different levels of knowledge can use the unit easily according to their needs. With UltraCella, the user experience is highly satisfying for everyone, thanks to functions that are unique in the segment of cold room controllers.

ADRICA PAC

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carel.com



Head Pressure Control Valves

Alco HP Series

Cat. No.	Model No.	Part No.	Connection: ODF	Nominal Capacity: kW (Min Capacity: kW)				List Price \$ Exc. GST
				R134a	R22	R404A R507	R407C	
117074	HP8T5-165	803512	5/8"	43.9 (8.8)	47.5 (9.5)	30.6 (6.1)	45.6 (9.1)	\$784.99

Nominal Capacities based on: 4°C evaporating temperature, 38°C condensing temperature, 1K liquid sub-cooling.

Head Pressure Control Valves

Alco CPHE Series

All CPHE hot gas bypass regulators are modular in design for easy installation and service and CPHE-3 to CPHE-6 valves provide superior partial load performance due to their double seat orifice design. All valves have external equalization.

Component Schedule

Valve Style	Power Assembly				Cage Assembly				Body					
	Cat. No.	Model No.	Part No.	List Price \$ Exc. GST	Cat. No.	Model No.	Part No.	List Price \$ Exc. GST	Cat. No.	Model No.	Part No.	Connections		List Price \$ Exc. GST
												Inlet	Outlet	
CPHE-1	117062	X7118-4	803202	\$735.21	102122	X22440 B5B	037043	\$128.86	102202	C501-7	065861	1/2" ODF	5/8" ODF	\$97.03
CPHE-2					102126	X22440-B8B	037049	\$128.85	102203	A576	027764	5/8" ODF or 7/8" ODM	7/8" ODF or 1 1/8" ODM	\$94.63
CPHE-3					102115	X11873-B5B	089058	\$318.31	102199	10331	029411	5/8" ODF or 1 1/8" ODM		\$148.55
CPHE-3.5	117064	X7428-2	803203	\$581.83	102116	X9117-B7B	078117	\$318.24	102212	9153	027919	7/8" ODF or 1 1/8" ODM		1 1/8" ODM
CPHE-4					102131	X9117-B9B	029429	\$318.24						
CPHE-5					102132	X9166-B10B	070738	\$391.92						
CPHE-6					102134	X9144-B13B	021067	\$452.38				102216	9149	028030



Danfoss KVC Hot Gas Bypass Capacity Regulators



Cat. No.	Model No.	Part No.	Connection: ODF	Nominal Capacity: kW				List Price \$ Exc. GST
				R22	R134a	R404A R507	R407C	
117126	KVC12	034L0143	1/2"	7.6	4.8	6.9	8.4	\$512.88
117127	KVC15	034L0147	5/8"	14.9	9.4	13.6	16.4	\$512.88
117128	KVC22	034L0144	7/8"	19.1	12.0	17.4	21.0	\$769.57

Nominal Capacities based on: -10°C evaporating temperature, 25°C condensing temperature, Offset 70kPa

CPCE Capacity Regulators



Cat. No.	Model No.	Part No.	Connection: ODF	Nominal Capacity: kW				List Price \$ Exc. GST
				R22	R134a	R404A R507	R407C	
117134	CPCE12	034N0082	1/2"	17.4	7.9	16.4	19.0	\$1,072.88

Nominal Capacities based on: -10°C evaporating temperature, 30°C condensing temperature, 4K reduction of suction temperature / suction pressure



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Crankcase Pressure Regulators



Alco

PRC Series

PRC Crankcase Pressure Regulators accurately maintain a predetermined maximum outlet pressure.

Cat. No.	Model No.	Part No.	Connection: ODF	Press. Range: kPa	Factory Setting: kPa	Press. Change Per Turn: kPa	Nominal Capacity: kW				List Price \$ Exc. GST
							R134a	R22	R404A R507	R407C	
118080	PRC-11A	SRJY5QALG1	5/8"	50 to 690	200	60	3.0	4.8	4.5	4.5	\$323.81
118081	PRC-11B	SRJY7QALG1	7/8"								\$323.81
118082	PRC-21D	SRJY9QALG1	1 1/8"			40	7.4	11.9	11.1	11.1	\$481.31
118083	PRC-21E	SRJY11QALG1	1 3/8"								\$481.31



Danfoss

KVL Series

Specifications

- Refrigerants CFC, HCFC, HFC
- Regulating range 20 to 600 kPa
- Factory setting 200 kPa
- Maximum working pressure 1800 kPa
- Temperature of medium -60°C to 130°C



Cat. No.	Model No.	Part No.	Connection: ODF	Nominal Capacity: kW				List Price \$ Exc. GST
				R22	R134a	R404A R507	R407C	
118030	KVL12	034L0043	1/2"	7.1	5.3	6.3	6.4	\$441.69
118032	KVL15	034L0049	5/8"				6.5	\$441.69
118035	KVL22	034L0045	7/8"					\$525.25
118037	KVL28	034L0046	1 1/8"	17.8	13.2	15.9	16.4	\$665.32
118039	KVL35	034L0052	1 3/8"					\$721.74

Nominal Capacities based on: -10°C suction temperature, 25°C condensing temperature, 20kPa Pressure drop in regulator



Throw away that old wet rag - here's your new space-age WetRag

Viper WETRAG® is a reusable putty made from the same materials found in the heat shield of the space shuttle.



- Reusable like a wet rag
- Protects surfaces, valves and other sensitive parts from heat damage
- Blocks direct and conductive heat transfer
- Use with MAP/Pro, Oxy/Acetylene, Mig, Tig, Arc and Propane torches
- Non toxic – no mess formula

Simply
apply, remove
and reuse!

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SuperCool Asia Pacific - Phone: 1800 628 133
or visit www.supercool.com.au





Evaporator Pressure Regulators

Alco PRE Series

Cat. No.	Model No.	Part No.	Connection: ODF	Press. Range: kPa	Factory Setting: kPa	Press. Change Per Turn: kPa	Nominal Capacity: kW				List Price \$ Exc. GST
							R134a	R22	R404A R507	R407C	
119003	PRE-11A	ERJY5QALG1	5/8"	50 to 690	200	60	3.0	4.8	4.5	4.5	\$404.88
119004	PRE-11B	ERJY7QALG1	7/8"								\$404.88
119005	PRE-21D	ERJY9QALG1	1 1/8"			40	7.4	11.9	11.1	11.1	\$586.47

Nominal Capacities based on:

4°C evaporating temperature, 38°C condensing temperature & 14kPa pressure drop across valve.

EPRB Series



Cat. No.	Model No.	Part No.	Connection: ODF	Nominal Capacity: kW				List Price \$ Exc. GST
				R134a	R22	R404A/ R507	R407C	
119252	EPRB12T9	057242	1 1/8"	11.99	15.72	13.26	17.94	\$1,299.08
119254	EPRB16T11	057248	1 3/8"	21.10	27.71	23.35	29.19	\$1,792.69
119256	EPRB20T13	057251	1 5/8"	39.36	51.70	43.58	54.51	\$2,244.78

EPRBS Series

Cat. No.	Model No.	Part No.	Connection: ODF	Nominal Capacity: kW				List Price \$ Exc. GST
				R134a	R22	R404A /R507	R407C	
119262	EPRBS12T9	057245	1 1/8"	11.99	15.72	13.26	17.94	\$1,587.16
119264	EPRBS16T11	057250	1 3/8"	21.10	27.71	23.35	29.19	\$2,081.73
119266	EPRBS20T13	057253	1 5/8"	39.36	51.70	43.58	54.51	\$2,532.16

Note: Valves are supplied less coil (240V coil to suit: Cat. No. 123285 & J/Box Cat. No. 123050)



Danfoss KVP Series

Cat. No.	Model No.	Part No.	Connection: ODF	Nominal Capacity: kW				List Price \$ Exc. GST
				R22	R134a	R404A/ R507	R407C	
119207	KVP12	034L0023	1/2"	4.0	2.8	3.6	3.7	\$509.78
119206	KVP15	034L0029	5/8"					\$509.78
119203	KVP22	034L0025	7/8"					\$538.23
119204	KVP28	034L0026	1 1/8"	8.6	6.1	7.7	7.9	\$831.10
119205	KVP35	034L0032	1 3/8"					\$856.51

Nominal Capacities based on:

-10°C evaporating temperature, 25°C condensing temperature, 20kPa Pressure drop in regulator, 60 kPa offset



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Solenoid Valves

Alco

M36 Series

The M36 Series are 3 way solenoid valves, typically used for heat reclaim applications.

Features

- Compact size
- Maximum working pressure 3500kPa
- Pilot connection to suction line required, no minimum pressure drop
- No disassembly necessary for brazing
- Uses standard ASC solenoid coils



Cat. No.	Model No.	Part No.	Connection: ODF	Nominal Capacity: kW			List Price \$ Exc. GST
				R134a	R22	R404A R507	
123212	M36-118	801421	1 1/8"	28.9	35.1	31.3	\$635.56

Note: Valves are supplied less coil (240V coil to suit: Cat. No. 123285 & J/Box Cat. No. 123050)

Nominal Capacities based on: 4°C evaporating temperature, 38°C condensing temperature, 15kPa pressure drop between valve inlet & outlet.

200RB Series (Less Coil)

Normally Closed Pilot-Operated – For Liquid and Discharge or Suction Gas Service

Features

- Extended Copper Tails for easy installation
- One coil fits all valve sizes
- Maximum working pressure 3450 kPa
- Low pressure differential required for full opening
- Maximum fluid temperature 121°C



Cat. No.	Part No.	Connection: ODF	Port Size mm	Nominal Liquid Capacity: kW						Opening Diff. Pressure kPa Min.	List Price \$ Exc. GST
				R134a		R22		R404A R507			
				Pressure Drop Across Valve: kPa							
				136	272	136	272	136	272		
123321	200RB4T3T	3/8"	6	15.2	21.5	16.2	22.9	10.7	15.1	Min 14 Max. 2070	\$154.84
123322	200RB4T4T	1/2"	6	15.2	21.5	16.2	22.9	10.7	15.1		\$154.23
123324	200RB7T5T	5/8"	11	42.8	60.6	45.1	63.8	29.8	42.1		\$257.00

240RA Series (Less Coil and Manual Stem)

Normally Closed Diaphragm Type – For Liquid and Discharge or Suction Gas Service

Features

- Extended Copper Tails for easy installation
- Stainless enclosing tube
- Maximum fluid temperature 121°C
- Reinforced teflon diaphragm with woven fiberglass
- Low pressure differential required for full opening
- Maximum working pressure 3450 kPa



Cat. No.	Part No.	Connection: ODF	Port Size mm	Nominal Liquid Capacity: kW			List Price \$ Exc. GST
				R22	R134a	R404A R507	
123109	240RA-9T7-T	7/8"	15	90	85	59.4	\$390.92
123113	240RA-16T9-T	1 1/8"	25	172	162.7	113.2	\$643.71
123114	240RA-16T11-T	1 3/8"					\$846.30
123116	240RA-20T13-T	1 5/8"	32	285.6	255.6	188	\$1,080.49

Solenoid Coils

For 200RB, 240RA, 702RA Valves

Cat. No.	Type	Voltage & Frequency	List Price \$ Exc. GST
123286	ASC2	24VAC 50/60Hz	\$105.13
123285		240VAC 50/60Hz	\$105.13
123287		120VAC 50/60Hz	\$132.06
123283	DS2- N15*	Cable Assy 1.5mt with 24VDC Chopper Plug	\$110.10

Type ASC2 have PG9 plug-in junction box

* Converts 123286 24VAC Coil to 24VDC applications



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Solenoid Valves

Castel

102, 103, 104, 105, 107 and 109 Series

For Fluorinated Refrigerants

1



Cat. No.	Part No.	Connection	240V Coil Included	Port Diam. mm	Opening Differential Pressure kPa		Fluid Temp. °C	Max Work Press. kPa	Kv** Factor m³/hr	List Price \$ Exc. GST
					Min.	Max. (MOPD)				

Normally Closed – Direct Operated – for Liquid and Hot Gas

123032	1020/2A7	1/4" Flare	Y	2.5	0	2100	-35 to 110	4500	0.175	\$103.71
123034	1028/2A7	1/4" ODS		2.2					0.15	\$114.06

Normally Closed – Servo Operated – for Liquid, Suction and Hot Gas

Normally closed - Valve Operated - For Liquid, Gaseous and Hot Gas															
123036	1064/3A7	3/8" Flare	Y	7	5	2100	-35 to 110	4500	0.8	\$149.07					
123040	1068/3A7	3/8" ODS		16.5						2.2	\$160.56				
123037	1070/4A7	1/2" Flare									2.61	\$194.90			
123041	1078/4A7	1/2" ODS								\$212.72					
123038	1070/5A7	5/8" Flare								5.7	\$213.17				
123042	1078/5A7	5/8" ODS									\$256.05				
123043	1090/6A7	3/4" Flare		27	7						\$330.40				
123045	1098/6A7	3/4" ODS									\$363.89				
123044	1098/7A7	7/8" ODS									\$376.37				
123052	1099/9A7	1 1/8" ODS									\$464.90				
123054	1078/11A7	1 3/8" ODS		25						16	\$1,200.93				
123056	1079/13A7	1 5/8" ODS									\$1,247.57				
123057	1079/17A7	2 1/8" ODS									\$1,935.21				

A coil junction box is required- Cat. No. 123050 All Castel solenoid valves are supplied with a mounting bracket

1133 Series

For Water, Air, Light Oils and Brine (glycol-water solution)



Cat. No.	Part No.	Connection: FPT	240V Coil Included	Port Diam. mm	Opening Differential Pressure kPa		Fluid Temp. °C	Max. Work Press. kPa	Kv** Factor m³/hr	List Price \$ Exc. GST
					Min.	Max. (MOPD)				

Normally Closed – Servo Operated

123022	1133/3A7	3/8"	Y	12.5	10	1700 (247)	-15 to 110	3000	2.1	\$192.47
123023	1133/4A7	1/2"							2.2	\$192.47
123024	1133/6A7	3/4"		20	15	1200 (174)		1500	5.5	\$316.88
123025	1133/8A7	1"							6	\$325.42

A coil junction box is required- Cat. No. 123050. All Castel solenoid valves are supplied with a mounting bracket. When the valve is used with oils, the viscosity of the oil must be checked to ensure that the valve will 'Open'. **Kv Factor: Capacity of valve in m³/hr of water at 100 kPa pressure drop across valve.

Solenoid Coils



Cat. No.	Part No.	Power Supply	Suits Model	List Price \$ Exc. GST
123072	SM2/9200/RA7	240V, 50/60HZ	1133	\$44.26
123073	9149/R01	Junction Box		\$6.31
123046	HM2/9100/RA7	240V, 50/60 HZ	1020, 1028, 1034, 1038, 1048, 1050, 1058, 1064, 1068, 1070, 1078, 1079, 1090, 1098, 1099, 1132	\$36.68
123048	HM2/9100/RA2	24V, 50/60 HZ		\$36.68
123047	HM3/9120/RD1	12VDC		\$84.64
123049	HM3/9120/R22	24VDC		\$84.64
123050	9150/R02	Junction Box		\$6.78



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Solenoid Valves

Danfoss EVR Series

EVR is a direct or servo operated solenoid valve for liquid, suction, and hot gas lines with fluorinated refrigerants. Valves are supplied less coil, which must be ordered separately.

Features

- Wide choice of coils for a.c and d.c
- Designed for media temperatures up to 105°C
- Suitable for all fluorinated refrigerants
- Extended ends for soldering make installation easy



Cat. No.	Model No.	Part No.	Connections		Coil Type	Manual Op.	Opening Differential Pressure With Standard Coil: kPa				Fluid Temp. °C	Max Work. Press. kPa	kv Value: m³/hr	List Price \$ Exc. GST
			Size	Type			Min.	Max. (= MOPD) liquid						
								10W a.c.	12W a.c.	20W d.c.				
	EVR2	032F8056	1¼"	MF	a.c.	0.0	25		18	-40 to 105	4520	0.16	P.O.A	
		032F1201		ODF				P.O.A						
122151	EVR3	032F8107		MF	a.c./d.c.			N					0.05	21
122152		032F1206	ODF			\$113.86								
		032F8116	MF			P.O.A								
122150		032F1204	3⅝"	ODF									\$113.86	
122153	EVR6	032F8072		MF								\$154.63		
122154		032F1212		ODF								\$154.63		
		032F8079	MF								P.O.A			
122186		032F1209	1½"	ODF									\$154.63	
122155	EVR10	032F8095		MF								\$265.63		
122156		032F1217		ODF								\$265.63		
		032F8098	MF									P.O.A		
122188		032F1214	5⅝"	ODF									\$265.63	
122157	EVR15	032F8101		MF									\$322.63	
122158		032F1228		ODF									\$322.63	
		032F8100	MF		Y								P.O.A	
		032F1227											P.O.A	
122191	EVR20	032F1225				N								122191
122159		032F1240			a.c.	Y								P.O.A
		032F1254	d.c.	N									P.O.A	
		032F1264	7⅝"										P.O.A	
	EVR22	032F1274				Y								P.O.A
		032F1244			a.c.	N								P.O.A
		032F3267	1 ⅜"										P.O.A	
122160	EVR25	032F2201	1 ⅞"	ODF										\$1,470.59
		032F2200			N									P.O.A
		032F2208			Y									P.O.A
		032F2207	1 ⅜"											P.O.A
	EVR32	042H1106			N									P.O.A
		042H1105			Y									P.O.A
		042H1104	N									P.O.A		
		042H1103	1 ⅝"											P.O.A
	EVR40	042H1110			N									P.O.A
		042H1109			Y									P.O.A
		042H1112	N									P.O.A		
		042H1111	2 ⅞"											P.O.A

1) The kv is the waterflow in m³/h at a pressure drop across valve of 100kPa

2) MOPD for media in gas form is approx. 100kPa greater

3) Min. diff. pressure 7kPa is needed to stay open



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Solenoid Valves



Danfoss Solenoid Coils Alternating Current - AC



Cat. No.	Part No.	Voltage: v	Frequency: Hz	Watts	Connection	Applications	List Price \$ Exc. GST
122065	018F6707	24	50	10	Terminal Box IP67	EVR2 to 40 (NC) EVR6 to 22 (NO) EVRH4 to 40	\$132.82
122066	018F6711	115				EVRC	\$132.82
122067	018F6702	240				EVRA EVRAT	\$116.97
122068	018F6704	420				EVRS / EVRST PKVD	\$213.45
122071	018F6730	110	50/60			EVM (NC)	\$132.82

Direct Current - DC

Cat. No.	Part No.	Voltage: v	Watts	Connection	Applications	List Price \$ Exc. GST
122069	018F6856	12	20	Terminal Box IP67	EVR 2 to 15 (NC) EVR25 to 40 (NC/NO) EVR6 to 15 (NO) EVRC10 to 15 EVRA3 to 15 (NC) EVRA25 to 40 (NC) EVRAT10 to 15 (NC) EVRS / EVRST3 to 15 PKVD	\$116.97
122073	018F6857	24			EVM (NO/NC)	\$128.94
122074	018F6959	72	28		Compressor Unloading	\$143.36



Refco Solenoid Valve Operating Magnet

A solenoid valve operating magnet is a must for every tool kit. They are the quickest and easiest way to operate solenoid valves manually. Fits most solenoid valve stems.

Cat. No.	Model No.	Part No.	List Price \$ Exc. GST
123299	SVOM-18	4660507	\$113.64



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Water Regulating Valves

Penn

Pressure Actuated Water Regulating Valves



Cat. No.	Part No.	Connection Ins.	Refrig.	Max. Refrig. Pressure	Refrig.Press. Range: kPa	Pressure Element Conn.	List Price \$ Exc. GST
124030	V46AA-9600	3/8" BSP	R12, R134a R22, R502 R404A, R507	2200kPa	480 to 1170	760 mm Length with 1/4" Flare Nut	\$439.77
124031	V46AB-9600	1/2" BSP					\$475.25
124032	V46AC-9600	3/4" BSP					\$582.06
124033	V46AD-9600	1" BSP					\$1,278.94
124034	V46AE-9600	1 1/4" BSP					\$1,459.36

Cat. No.	Part No.	Connection Ins.	Refrig.	Max. Refrig. Pressure	Refrig.Press. Range: kPa	Pressure Element Conn.	List Price \$ Exc. GST
124020	V246GD1B001C	1" BSP Screw	R410A	4340kPa	1380 to 2760	1/4" MF	\$1,783.38
124022	V246GE1B001C	1 1/4" BSP Screw					\$2,043.15
124024	V246GR1B001C	1 1/2" Flange					\$2,395.32

Zone Water Valves

SIEMENS

Siemens

MVI Series

MVI is a complete valve and actuator assembly ideal for air handling unit applications. Flow of chilled/heating water is controlled by a simple on/off motion.



Cat. No.	Model No.	Description	Connection	Voltage	List Price \$ Exc. GST
124120	MVI 421.15	On/Off control valve with return spring	1/2"	230 VAC	\$272.42
124121	MVI 421.20		3/4"		\$546.59

SGS65 Series Actuator

SGS65 Actuator fits a range of Siemens Valves for modulating the flow of chilled/heating water and is ideal for air handling units. Can also be used in place of SSB61 & SSC61 actuators.



Cat. No.	Model No.	Voltage	Signal Voltage	Stroke	List Price \$ Exc. GST
124130	SQS65	24VAC	0-10V	5.5mm	\$758.99



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Reversing Valves



Ranco

Reversing Valves - 4 Way

Ranco Reversing Valves are slide-type 4-way valves which operate under full pressure of a Heat Pump system. They are hermetically constructed and operation is controlled by a Solenoid Coil on a single Pilot Valve, which is an integral part of the main valve.



Cat. No.	Part No.	Connections: ODS		R22 Capacity kW		R410A Capacity kW		M.O.P.D. kPa	Min. Operating Pressure kPa	Max Operating Pressure kPa	List Price \$ Exc. GST
		Disch.	Suct. & Coils	Min	Max	Min	Max				
126020	V2-408064-2IL	3/8"	1/2"	2.64	7.03	3.17	7.74	3030	100	4690	\$122.50
126019	V3-410084-7IL	1/2"	5/8"	3.52	9.85	4.22	10.9				\$151.11
126022	V6-412084-1IL		3/4"	3.52	19.34	4.22	23.56				\$261.37
126023	V6-414084-1IL		7/8"								15.83
126024	V10-414084-2IL			\$336.90							
126025	V10-414124-2IL	3/4"		\$336.90							
126026	V10-418144-2IL	7/8"	1 1/8"	15.83	39.39	19.7	47.48				\$336.90
126021	V12-4220T4-2IL	1 1/8"	1 3/8"	21.1	49.24	26.38	59.09				\$653.40

Capacity Valves are based on 7.2 °C evaporating, 5.6 KTD Superheat, 54.4 °C condensing, 5.6K subcooling.
Maximum capacity at 14kPa pressure drop.

Reversing Valve Solenoid Coils

Cat. No.	Part No.	Voltage	Description	List Price \$ Exc. GST
126033	LDK-41	240V 50Hz	Suits New Series 4 V2, V3, V6, V10 and V12 Valves	\$57.66
126034	LDK-11	24V 50Hz		\$57.66

Reversing Valve Coils are designed to operate valves at 10% over and 15% under the rated coil voltage at a 27°C ambient temperature, with 0.15 m/s air movement over them.



Emerson

Solenoid Coils



Cat. No.	Type	Voltage & Frequency		Description	List Price \$ Exc. GST
123286	ASC2	24VAC	50/60Hz	Suit old style reversing valves with coil retaining clip	123286
123285		240VAC			123285
123287		120VAC			123287
123288	RMF	240VAC	50/60Hz	Suit new style reversing valves with coil retaining screw	123288
123289		24VAC			123289



Sump Pump Switches

Penn

F59 Series – Weight Operated

Switch to start electric motor on liquid level rise, stop motor on liquid level drop. Cuts in when upper weight is submerged approximately halfway. Cuts out when lower weight is approximately half-exposed. Each switch includes 1m polyethylene cable and two weights.

Electrical Ratings: 1HP at 120/240 VAC, 1/4 HP at 32 VDC.



Cat. No.	Part No.	Contact Action	Mounting	Wiring	List Price \$ Exc. GST
143310	F59A-1	DPST Close on Rise (Reversible)	Fixed Mounting Bracket	Two holes with grommets in case for Drop Cord Wiring	\$615.14
143311	F59A-2		Universal Mounting Bracket and 600mm strap for mounting on the motor, on the pedestal or on the discharge pipe		\$471.78
143312	F59H-1		Fixed Mounting Bracket	Conduit Wiring, 22mm Conduit openings in case	\$416.36
143313	WGT11A-601R		Replacement Weight Kit		\$114.41



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Liquid Flow Switches

Penn

F61 Series – Low Flow Rate

For use on liquid lines using water, ethylene glycol solutions or other liquids not injurious to the brass and phosphor bronze parts. SPDT contact switch is activated by a low flow rate; however, it has a large flow capacity with minimum pressure drop.

Ambient Temperature: 0°C to 82°C.



Cat. No.	Part No.	Connection	Enclosure	Adjustment Range l/s		Liquid Temp. Range °C	Max. Liquid Press. kPa (psig)	Electrical Rating	List Price \$ Exc. GST
				R to Y Closes Flow Increase	R to Y Opens Flow Decrease				
143291	F61KD-3	1/2" FNPT	General Purpose	Min. 0.038	Min. 0.019	0 to 120	1030 (150)	8 amp 240V AC	\$442.18
143292	F61KD-4	3/4" FNPT		Max. 0.069	Max. 0.057				\$546.50

F61 Series – Standard Flow Rate

This flow switch may be used in liquid flow lines carrying water, ethylene glycol or any liquid not harmful to brass or phosphor bronze and not classified as a hazardous fluid. Switch contacts are SPDT.

Note: The control is designed for interlock purposes or 'no flow' protection. Where critical or high value products are to be protected, a separate back-up control should be used. Adjustment Control is factory set at approx. minimum flow rate, field adjustable by means of range screw under cover.



Cat. No.	Part No.	Connection	Enclosure	Max. Liquid Press. kPa (psig)	Max. Liquid Temp. °C	Min. Liquid Temp. °C	Min. Ambient Temp. °C	Electrical Rating	List Price \$ Exc. GST
143290	F61SB-9100	1" MBSP	IP43 Splash Proof	1034 (150)	120	4	-40	8 Amp 240V AC	\$489.28
143289	F61KB-11	1" MNPT	IP30 General Purpose			-29	-34		\$228.82
143297	F61MB-1		IP66 Raintight						
143298	KIT21A602	3 Piece Set Replacement Stainless Steel Paddle and 6" Paddle							\$68.82

alre

ALRE

Liquid Flow Switch



Cat. No.	Model No.	Connection	Enclosure	Max Liquid Temp °C	Min Liquid Temp °C	FLA 240VAC	List Price \$ Exc. GST
143285	JSF-IE	1" BSP	IP65	120	-50	8	\$524.82

SIEMENS

Siemens

Liquid Flow Switch



Cat. No.	Model No.	Connection	Enclosure	Max Liquid Temp °C	Min Liquid Temp °C	FLA 240VAC	List Price \$ Exc. GST
143300	QVE1901	1/2" BSP	IP65	110	-20	8	\$518.85



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Air Flow Controls

Penn

P32 Series Air Differential Pressure Switch



Cat. No.	Part No.	Switch Action	Range Pa	Sensitivity at Min. Set Point Pa	Set Point	Scale Plate	Bracket Type	List Price \$ Exc. GST
143075	P32AC-2*	SPDT	12 to 1240	10	Adjust.	Yes	U	\$118.20
143077	P32AF-2*		12 to 1240	6			U	\$163.80

*Supplied with 1/4" compression fitting, 100mm extension tube, 2 mounting screws, 'O' gasket, angle barb fitting installed.

F62 Series Air Flow Switch



Cat. No.	Part No.	Paddle Size mm	Max. Ambient Temp. °C	Max. Air Velocity m/s	Dimensions mm (Including Paddle)	List Price \$ Exc. GST
143295	F62AA-8	54 x 175	40	10	265 High x 100 Wide x 70 Deep	\$597.57
143296	F62AA-9	79 x 175				\$624.05



Carel

Differential Pressure Switch Kit



Cat. No.	Part No.	Switch Action	Range Pa	FLA 240VAC	Differential ΔP	Pressure Connection	List Price \$ Exc. GST
143078	DCPD011100*	SPST	20-200	1	Adjustable	1/8" Nipple	\$74.82

*Complete with installation hoses, terminals and nipples



Siemens

Differential Pressure Switch



Cat. No.	Part No.	Switch Action	Range Pa	FLA 240VAC	Differential ΔP	Pressure Connection: mm	List Price \$ Exc. GST
143054	930.8022252	SPST	20-200	1	Adjustable	6	\$105.73



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Anti Sweat Controls

Emerson



Features

- Works standalone and can be networked with Emerson E2
- 1 x ACC can control up to 10amps
- Fits in mullion or electrical raceway
- Zero crossing switching - Minimises electrical noise and ensures long life of triac

ACC Series - Kits

Cat. No.	Part No.	Description	List Price \$ Exc. GST
149082	815-6102	ACC Anti-condensate Control Kit	\$645.67



ACC Series - Components

Cat. No.	Part No.	Description	List Price \$ Exc. GST
149080	815-6101	ACC Anti-condensate Control with Temperature Sensor	\$429.83
149081	814-6115	ACC Anti-condensate Dew Point Sensor	\$273.82



Carel

ACC Anti Sweat Heater Controller

The Carel ACC is an innovative anti-sweat controller designed to control the anti-sweat heaters that prevent the formation of condensation on cold surfaces, such as the glass doors of vertical refrigerated display cabinets.



ACC Series - Din Rail Mount

Cat. No.	Part No.	Description	List Price \$ Exc. GST
146370	ACC0082100	Anti-sweat control 230V 8A	\$521.52

ACC Series - Accessories

Cat. No.	Part No.	Description	List Price \$ Exc. GST
146380	DPWC115000	Wall mount temperature and humidity probe	\$392.41
146381	NTC060WG00	Glass temperature probe, 6m	\$89.89

Typical Ordering Package

- Anti-sweat control
- Glass temperature probe
- Wall mount temperature and humidity probe



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Fan Speed Controls

Emerson

FSM Series - Electronic Fan Speed Control



Cat. No.	Part No.	Pressure Range kPa	Modulating Band kPa	Factory Setting @ Max. Speed kPa	Max. Proof Test kPa	Max. Cont. Current Amps	Supply Voltage	List Price \$ Exc. GST
143060	FSM-42S	1310 to 2480	379	1620	3585	3	230 Vac.	\$401.20

CAREL



Carel

Single Phase Fan Speed Control

Cat. No.	Part No.	Description	List Price \$ Exc. GST
143065	FCPM00A01K	Fan Speed Control Kit 1 PH 8 AMP	\$791.32

Kit includes (1 of each):

- FCP Control
- Pressure Sensor 0 - 3400kpa
- Connector Cable

Three Phase Fan Speed Board



Cat. No.	Part No.	Description	List Price \$ Exc. GST
143067	FCS3204000	Fan Speed Board 20Amp	\$2,913.31
143069	FCS3404010	Fan Speed Board 40Amp	\$3,840.36

Accessories



Cat. No.	Part No.	Description	List Price \$ Exc. GST
146329	TRADR4W024	Transformer Din rail 240V - 24VAC 4VA	\$84.97
146137	SPKT0031C3	Pressure Transmitter 0-3000 kPa	\$286.27
146147	SPKC002313	Pressure Transmitter Cable IP65	\$34.53

Typical ordering package for three phase fan speed control (1 of each):

- IR33E9 controller
- Fan Speed Board
- Transformer
- Pressure Transmitter
- Transmitter Cable



Penn

P215PR Series

The P215PR series are direct mount featuring easy setpoint adjustment using the top screw.

Cat. No.	Model No.	Range kPa	Proportional Band kPa	Max. Overrun Press. kPa	Electrical Rating	Pressure Connection	Operating Ambient Temp. °C	List Price \$ Exc. GST
143070	P215PR-9200	1000 to 2500	450	4000	3A	1/4" FF	-20 to 55	\$326.63



Features

- Ease of wiring and adjustment
- S.P.D.T. contacts standard on all P77 pressure controls
- Stable switching points
- All Model have IP-54 enclosure Case and Cover: Aluminium diecast
- Leakproof bellows
- Ambient Temperature Limits: -50°C to 55°C (70°C Max. 2 hours)
- All dual pressure controls have two alarm circuits for separate low pressure and high pressure cut-out indication (except P78ALA-9351)

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P77 Series Single Pressure



Cat. No.	Part No.	Range kPa	Differential kPa	Press. Conn.	Max. Bellows Press.	List Price \$ Exc. GST
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Low Pressure Controls for Non-Corrosive Refrigerants

143081	P77AAA-9300	-50 to 700	50 to 300	1/4" M. Flare	2200 kPa	\$139.76
143082	P77BCA-9300		Manual Reset			\$147.19

Low Pressure Controls for Ammonia and Non-Corrosive Refrigerants

143083	P77AAA-9700	-50 to 700	50 to 300	1/4" FNPT	1400 kPa	\$531.61
143084	P77BCA-9700		Manual Reset			\$465.07

High Pressure Controls for Non-Corrosive Refrigerants

143087	P77AAA-9350	300 to 3000	300 to 1200	1/4" M. Flare	3300 kPa	\$122.03
143088	P77BEA-9350		Manual Reset			\$143.40

Fan Cycling Control for Air Cooled Condensers for Non-Corrosive Refrigerants

143086	P77AAA-9351	350 to 2100	210 to 550	1/4" M. Flare	3000 kPa	\$147.02
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High Pressure Controls for Ammonia and Non-Corrosive Refrigerants

143089	P77AAA-9750	300 to 3000	300 to 1200	1/4" FNPT	3300 kPa	\$433.99
143090	P77BEA-9750		Manual Reset			\$437.98

P78 Series Dual Pressure



Cat. No.	Part No.	Low Pressure		High Pressure		Press. Conn.	Max. Bellows Press. kPa	List Price \$ Exc. GST
		Range kPa	Differential kPa	Range kPa	Differential kPa			

Dual Pressure Controls for Non-Corrosive Refrigerants

Dual Pressure Controls for Non-Compressive Flange Joints									
143095	P78LCA-9300	-50 to 700	50 to 300	300 to 3000	300 fixed	1/4" M. Flare	2200 L 3300 H	\$217.18	
143097	P78MCA-9300		Manual Reset		Manual Reset			\$223.86	
143099	P78PGA-9300							\$222.72	

Dual Pressure Controls for Ammonia and Non-Corrosive Refrigerants

143096	P78LCA-9700	-50 to 700	50 to 300	300 to 3000	300 fixed	1/4" FNPT	1400 L 3300 H	\$786.92
143098	P78MCA-9700				Manual Reset			\$950.72

Dual Fan Cycling Control for Air Cooled Condensers for Non-Corrosive Refrigerants

143100	P78ALA-9351	350 to 2100	180 fixed	350 to 2100	180 fixed	1/4" M. Flare	3000 L 3000 H	\$227.30
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Accessories



Cat. No.	Part No.	Description	List Price \$ Exc. GST
147050	290-0404	Capillary Adaptor	\$31.94
147049	290-0404D	Capillary Adaptor with Depressor	\$35.34
147051	31696-1	Mounting Bracket	\$12.29



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Pressure Controls

RANCO

Ranco

016 & 017 Series

Ranco 'O' Series commercial refrigeration and air conditioning controls are available for low pressure, high pressure and dual pressure applications. All controls have SPDT electrical contacts.

Variations include fixed and adjustable differential, operation on rise and fall of pressure, automatic cycling or manual reset. Accessories include mounting brackets and capillary adaptors.



Cat.No.	Part No.	Description	Adjust. Range kPa	Differential kPa	Pressure Connection	List Price \$ Exc. GST
147001	016-8706	Low Pressure Control	-30 to 700	60 to 400	1/4" Male Flare	\$126.76
147002	016-8713	Low Pressure Control			910mm Cap. 1/4" Fl. Nut	\$156.05
147003	016-8705	Low Pressure Control with Manual Reset		60 Fixed	1/4" Male Flare	\$139.45
147004	016-8750	High Pressure Control	700 to 3000	250 to 800	1/4" Male Flare	\$135.46
147005	016-8751	High Pressure Control with Manual Reset		320 Fixed	1/4" Male Flare	\$150.83



Cat. No.	Part No.	Description	Low Pressure		High Pressure		Pressure Connection	List Price \$ Exc. GST
			Adj. Range kPa	Adj. Diff. kPa	Adj. Range kPa	Fixed Diff. kPa		
147027	017-8711	Dual Pressure Control	-30 to 700	60 to 400	700 to 3000	345	910mm Cap. Fl. Nut 1/4"	\$256.08
147028	017-8701	Dual Pressure Control					1/4" Male Flare	\$198.99
147030	017-8705	Dual Pressure Control with Manual Reset on High Pressure Side		1/4" Male Flare			\$227.16	
147032	017-8703	Dual Pressure Control with Manual Reset on High and Low Pressure Sides		1/4" Male Flare			\$225.99	

Accessories

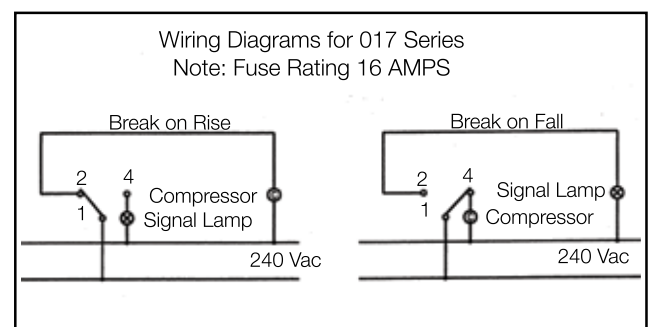
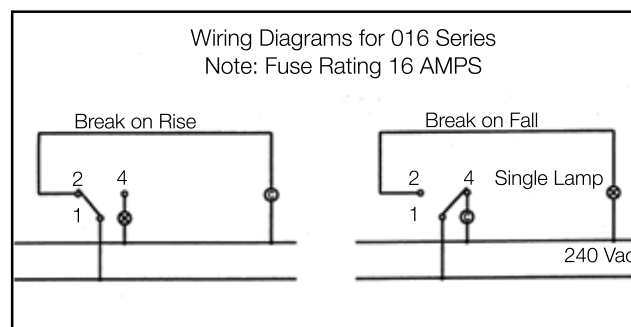


Cat. No.	Part No.	Description	List Price \$ Exc. GST
147050	290-0404	Capillary Adaptor	\$31.94
147049	290-0404D	Capillary Adaptor with Depressor	\$35.34
147051	31696-1	Pressure Control Mounting Bracket	\$12.29
147038	3600253006	Replacement Cover	016 Series Control \$9.69
147039	3600254004		017 Series Control \$9.69

Electrical Ratings:

Types: 016 – 240 Vac, 12A FLA, 72A LRA, with SPDT contacts

Types: 017 – 240 Vac, 12A FLA, 72A LRA, with SPDT contacts



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Section 1

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Pressure Controls

Emerson

PS1/PS2/PS3 Series

1

PS1 Series Single Pressure

Cat. No.	Model No.	Part No.	Description	Adjustment Range: kPa	Differential: kPa	Connection	List Price \$ Exc. GST
147060	PS1-A3A	4370700	Low Pressure Control	-50 to 700	-50 to 500	1/4" MF	\$149.23
147064	PS1-A5A	4350500	High Pressure Control	600 to 3100	200 to 1500		\$154.56
147065	PS1-R5A	4350700	High Pressure Control with Manual Reset		Fixed approx 300 under setpoint		\$154.45

PS2 Series Dual Pressure



Cat. No.	Model No.	Part No.	Description	Low Pressure		High Pressure		Connection	List Price \$ Exc. GST
				Adj. Range: kPa	Diff.: kPa	Adj. Range: kPa	Diff.: kPa		
147070	PS2-M7A	4361300	Dual Pressure Control with Convertible Auto or Manual Reset on High Pressure Side	-5 to 700	-50 to 500	600 to 3100	Convertible adjustable or fixed	1/4" MF	\$286.86
147068	PS2-B7A	4360200	Dual Pressure Control with Manual Reset on High & Low Pressure Sides		Fixed approx 100 above setpoint		Fixed approx 400 under setpoint		\$294.88

PS3 Series

The PS3 series is a pressure switch with fixed switch point settings.

The direct compressor mounting Model No. with high pressure bellows and snubber reduces the number of joints.



Cat. No.	Model No.	Part No.	Description	Fixed Setting: kPa		Reset	Connection	List Price \$ Exc. GST
				Cut Out	Cut In			
147080	PS3-W6S	0715831	High Pressure Control	1400	1000	Auto	7/16" 20UNF Female with Schrader	\$162.74



Penn

P100 Series Encapsulated Pressure Switches



Cat. No.	Part No.	Switch Action	Application	Pressure Settings: kPa		List Price \$ Exc. GST
				Opens	Closes	
143101	P100LP-3560-L	Open on Fall	Low Cutout	241	414	\$110.77
143102	P100HP-4232-S	Open on Rise	High Cutout	2854	2240	\$110.77
143103	P100AP-201D	Open on Fall	Low Cutout	(69)	220	\$110.77
143104	P100AA-3D			1034	1551	\$110.77
143106	P100CP-1D	Open on Rise	High Cutout	2758	2068	\$121.67
143107	P100HP-4100-L			2827	Manual Reset	\$186.30



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Pressure Controls

Danfoss

KP Series Pressure Controls

Single Pressure



Cat.No.	Part No.	Model No.	Description	Reset	Connection	List Price \$ Exc. GST
139001	060-110191	KP1	Low Pressure Control	Auto	1/4"	\$140.64
139002	060-110566	KP1	Low Pressure Control	Auto	1/4" Capillary	\$164.08
139003	060-110366	KP1	Low Pressure Control	Manual	1/4"	\$136.74
139005	060-117191	KP5	High Pressure Control	Auto	1/4"	\$148.47
139007	060-117391	KP5	High Pressure Control	Manual	1/4"	\$132.83
139008	060-117466	KPR5	Fan Cycling High Pressure Control	Auto	1/4"	\$187.50

Dual Pressure



Cat.No.	Part No.	Model No.	Description	Reset		Connection	List Price \$ Exc. GST
				LP	HP		
139009	060-124166	KP15	Dual Pressure Control	Auto	Auto	1/4"	\$210.97
139011	060-124366	KP15	Dual Pressure Control	Auto	Manual	1/4"	\$234.40
139012	060-119966	KP15	Dual Pressure Control	Auto	Auto	1/4" Capillary	\$265.67
139013	060-124566	KP15	Dual Pressure Control	Manual	Manual	1/4"	\$253.93
139014	060-115466	KP15	Dual Pressure Control	Convertible	Convertible	1/4"	\$253.93

Single Pressure-Ammonia

Cat.No.	Part No.	Model No.	Description	Reset	Connection	List Price \$ Exc. GST
139015	060-116066	KP1A	Low Pressure Control	Auto	M10 x 0.75 Capillary	\$626.63
139016	060-116166	KP1A	Low Pressure Control	Manual	M10 x 0.75 Capillary	\$662.26
139017	060-123066	KP5A	High Pressure Control	Auto	M10 x 0.75 Capillary	\$626.63

Accessories

Cat. No.	Part No.	Description	List Price \$ Exc. GST
139019	060-105566	Wall bracket for KP series controls	\$11.25
139020	060-105666	Angle bracket for KP series controls	\$11.25
147050	290-0404	Capillary Adaptor	\$31.94
147049	290-0404D	Capillary Adaptor with Depressor	\$35.34

Replacement Covers

Cat. No.	Part No.	Description	List Price \$ Exc. GST
139021	060-008666	Front Cover for KP Single Pressure Controls	\$23.48
139022	060-011366	Front Cover for KP Dual Pressure Controls	\$43.83
139023	060-109766	Top Cover for KP Single Pressure Controls	\$13.73
139024	060-109866	Top Cover for KP Dual Pressure Controls	\$13.98

KPS Series Pressure Controls



Cat. No.	Model No.	Part No.	Range: kPa	Differential: kPa	Connection	List Price \$ Exc. GST
	KPS31	060-311066	0 - 250	10	G 1/4"	P.O.A
	KPS31	060-310966	0 - 250	10	G 3/8" A	P.O.A
	KPS33	060-310466	0 - 350	20	G 1/4"	P.O.A
139033	KPS33	060-310366	0 - 350	20	G 3/8" A	\$752.59
139034	KPS35	060-310566	0 - 800	40 - 150	G 1/4"	\$752.59
139035	KPS35	060-310066	0 - 800	40 - 150	G 3/8" A	\$752.59
	KPS35	060-310866	0 - 800	40	G 1/4"	P.O.A
139037	KPS37	060-310666	600 - 1800	85 - 250	G 1/4"	\$752.59
139038	KPS37	060-310166	600 - 1800	85 - 250	G 3/8" A	\$752.59
139039	KPS39	060-310766	1000 - 3500	200 - 600	G 1/4"	\$752.59
	KPS39	060-310266	1000 - 3500	200 - 600	G 3/8" A	P.O.A
139041	KPS43	060-312066	100 - 1000	70 - 280	G 1/4"	\$987.49
139042	KPS45	060-312166	400 - 4000	220 - 1100	G 1/4"	\$987.49
139043	KPS47	060-312266	600 - 6000	350 - 1700	G 1/4"	\$987.49



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Temperature Controls

Refco

Wide Range Thermostat

Ideal for coolroom installations and other varied controls applications.

Cat. No.	Model No.	Range °C	FLA 240VAC	Bulb and Capacity	List Price \$ Exc. GST
144195	TSC-093	-30 to 30	15	1.5 Metres	\$89.76



Penn

Series A19

Cat. No.	Part No.	Switch Action	Range °C	Differential K	Bulb and Capillary	Range Adjuster	Max. Bulb Temp. °C	List Price \$ Exc. GST
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Adjustable Differential

144070	A19ABC-66	SPDT	0 to 43	2 to 8	9.5mm x 127mm 1.8m Cap.	Knob	60	\$460.68
144064	A19ABB-7	SPST Open High	10 to 94	3 to 13	7.5mm x 64mm 3m Cap.		116	\$509.31
144004	A19ABC-5	SPDT	10 to 55	2 to 8	9.5mm x 127mm 2.4m Cap.		77	\$463.53
144094	A19ABC-41		-35 to 40	1.7 to 6.7	9.5mm x 102mm 2.4m Cap.	Convertible	60	\$137.87
144057	A19ABC-67				9.5mm x 102mm 6m Cap.			\$567.62
144093	A19ABC-26	Open High & Low (Operating and Circulator) SPDT	38 to 121	3 to 13	Well Conn. 1/2" NPT	Convertible	143	\$427.51
144092	A19ABC-27	Remote Mtd. (Operating and Circulator) SPDT			1/2" NPT 2.4m Cap.			\$482.44



Fixed Differential

144063	A19AAF-49	SPDT	-4 to 107	1.9	9.5mm x 76mm 3m Cap.	Screwdriver Slot	135	\$549.34
144041	A19AAC-13	SPDT	40 to 120	3	9.5mm x 102mm 1.8m Cap.		143	\$459.74

Manual Reset

144059	A19ACA-28	SPST Open Low	-35 to 40	Manual Reset	9.5mm x 102mm 1.8m Cap.	Screwdriver Slot	60	\$281.24
144026	A19ACA-31				9.5mm x 102mm 3m Cap.			\$410.32
144071	A19ADB-26	SPST Open High	40 to 120	Manual Reset (Locks out High)	9.5mm x 89mm 1.8m Cap.	Knob	143	\$418.35
144089	A19ADB-27	SPST Open High			1/2" NPT			\$403.31
144065	A19ADB-11	SPST Open High	100 to 290	Manual Reset	7.5mm x 38mm 1.8m Cap.		327	\$725.35



For Cooling Towers

144037	A19ARC-9105	SPDT	5 to 50	2.5 to 11	10.5mm x 110mm 2m Cap. Neoprene Coated	Concealed	100	\$762.88
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Coiled Bulb

144054	A19BAC-3	SPDT	0 to 43	1.9 Fixed	35mm x 57mm Coiled	Convertible	60	\$315.19
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Hot Water – Strap On

144072	A19DAC-9	SPDT	40 to 120	6	Clamp on Strap supplied		143	\$320.34
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Temperature Controls

Penn

A25 Series – Manual Reset Limit Control

Cat. No.	Part No.	Switch Action	Range °C	Range Adj.	Dial Stop °C	Max. Element Temp. °C	List Price \$ Exc. GST
144049	A25CN-4	SPDT	-4 to 101	Knob	Set at 52	150	\$283.91

A28 Series – 2 Stage

Cat. No.	Part No.	Switch Action	Range °C	Differential K	Bulb and Capillary	Range Adjuster	Max. Bulb Temp. °C	List Price \$ Exc. GST
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Coiled Bulb – Fixed Differential

144040	A28AA-74	2 x SPDT	0 to 43	1.9 Ea. Stage 1.7 Fixed Int. Stage	35mm x 57mm Coiled	Convertible	60	\$692.18
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Adjustable Interstage Differential

144066	A28AA-28	2 x SPDT	0 to 43	1.9 Ea. Stage 1 to 4 Int. Stage	3.6 Averg. Bulb 1.8m Cap.	Screwdriver Slot	60	\$903.99
144031	A28AA-65		-35 to 40	2.8 Ea. Stage 1 to 4 Int. Stage	9.5mm x 102mm 2.4m Cap.*	Convertible		\$605.40
144067	A28AA-70		5 to 32	1.7 Ea. Stage 1 to 4 Int. Stage	9.5mm x 152mm 1.8m Cap.*	Knob	110	\$679.39
144068	A28AA-71		15 to 60	2.8 Ea. Stage 1 to 4 Int. Stage	9.5mm x 102mm 1.8m Cap.			\$723.42

*Packing nut assembly available for direct immersion applications (P/N FTG13A-60 OR)

For Cooling Towers – Rainproof

144047	A28MA-4	2 x SPDT	5 to 50	Factory Set 2.8 Ea. Stage 4.4 Int. Stage	9.5mm x 102mm Neoprene Coated 1.8 Cap.	Screwdriver Slot	99	\$1,041.85
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Ranco

Type 016 and 018

Cat. No.	Part No.	Adjust. Range °C	Diff. (High & Low Scale Limits Adj. or Fixed) K	Capillary and Bulb	List Price \$ Exc. GST
148001	016-6950	-35 to -7	1.7 to 12	2m with 9.5mm dia. Coiled Bulb	\$156.29
148002	016-6951	-18 to 13			\$158.26
148003	016-6954	-5 to 25			\$160.65
148005	016-6980	-18 to 13		2m with 14.5mm dia. Cross Ambient Bulb	\$176.39
148006	016-6981	-5 to 25			\$163.60
148008	016-6983	10 to 40			\$167.67
148016	016-8900	-18 to 13	4 to 31	2m with 4.5mm dia. Bulb	\$138.88
148020	016-6930	-34 to 32	4 to 25	1.52m with 9.5mm Cross Amb. Bulb	\$212.80
148011	018-100-080	No Adjustment	Phase Change at 0°C	1.83m with Special Bulb	\$240.79

Accessories

Cat. No.	Part No.	Description	List Price \$ Exc. GST
148071	48129-1	Temperature Control Mounting Bracket	\$12.29
147038	360025300	Replacement cover to suit 016 series control	\$9.69



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Temperature Controls

RANCO

Ranco

Service Thermostats



Cat. No.	Part No.	Application	Cold Out °C	Cold In °C	Warm Out °C	Warm In °C	Defrost Term. °C	Signal Op. °C	Cap. Length mm	List Price \$ Exc. GST
151051	VC 1	Compressor Refrig.	-23	-14.5	-	2	-	-	1200	\$35.74
151052	VA 2	Electric Absorption Refrigerator	-18	-14.5	-	3.5	-	-	2000	\$65.24
151053	VF 3	Freezer and Ice Cream Cabinet	-34	-	-16.5	-12	-	-	2000	\$65.24
151054	VP 4	Push Button Compressor Refrig.	-25	-	-10.4	-4	5.5	-	1200	\$116.19
151055	VS 5	Freezer with Standard Signal	-34	-	-16.5	-12	-	Cut-In 5 Above Cut-In	2000	\$65.24
151056	VR 6	Freezer with Reverse Signal	-34	-	-16.5	-12	-	Cut-Out 5 Above Cut-In	2000	\$116.19
151057	VB 7	Bottle or Beverage Cooler	-3	2	-	12.5	-	-	1200	\$65.24
151058	4000-08	Window Air Conditioner	15	18	-	34	-	-	1200	\$103.72
151059	VT 9	Two Temperature Refrigerator	-26	-	-11	-	3.5 Con. Cut-In	-	1200	\$42.90
151061	VX 0	Refrigerator Forced Draft Coil	-15	-	-5	-		-	1500	\$42.90

Danfoss

Danfoss

Service Thermostats



Cat. No.	Part No.	Kit No.	Application	Cold		Warm		Defrost Term. °C	Signal Pos. Warm °C	Cap. Length mm	List Price \$ Exc. GST
				Cut-Out °C	Cut-In °C	Cut-Out °C	Cut-In °C				
151002	77B7001	1	Refrigerators	-25	-13.5	-5.5	2	-	-	1300	
151003	77B7002	2	Refrigerators Push Button Defrost	-21	-11	-7.5	0	6	-	1300	
151004	77B7003	3	Refrigerators Automatic Defrost	-27.5	3.5	-11	3.5	-	-	1600	
151005	77B7004	4	Absorption Refrig.	-11	-5	-1	3.5	-	-	1500	
151006	77B7005	5	Ice Cream Cabinets & Freezers without Signal	-32.5	-21	-15	-7.5	-	-	2300	
151007	77B7006	6	Freezers with Active Sig.	-34.5	-24	-17	-10	-	-6	2300	
151008	77B7007	7	Freezers with Passive Sig.	-34.5	-24	-17	-10	-	-6	2300	
151009	77B7008	8	Bottle and Liquid Coolers	-8.5	-1	6	11.5	-	-	2000	



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Section 1

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Temperature Controls

RANCO



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Type K59 Thermostat

Constant cut-in control with variable cut-out. Main switch (SPST) closes on rise of temperature.

Cat. No.	Part No.	Email Part No.	Cut-out °C			Constant Cut-in °C	Cap. Length mm	List Price \$ Exc. GST
			Cold	Normal	Warm			
151080	K59-P4914	1409448	-30	-23	-16	3.4	1100	\$34.63

Danfoss



Danfoss

Type 77B Thermostats

These thermostats have a constant cut-in temperature for automatic defrost with an SPST switch closing on rising temperature.

Cat. No.	Part No.	Email Part No.	Kelv. Part No.	Cut-out: °C		Constant Cut-in °C	List Price \$ Exc. GST
				Cold	Warm		
151011	77B6138	-	-	-12	-5.2	5	\$83.77
151012	77B6043	5371269	-	-29.7	-16.4	3.5	\$58.92
151013	77B6075	PJ1042	KA59882	-28.5	-19	4	\$58.92

RANCO



Ranco

Type A22 Thermostats (A22 – 2217)

Applications

- Harvest control for ice-making machines
- Cycling control for Heat Pumps with manual selection of heating and cooling

Cat. No.	Part No.	Coldest Permissible Cut-out °C	Warmest Permissible Cut-in °C	Range °C	Diff. K	Electrical Rating 240 VAC	Length mm	List Price \$ Exc. GST
152149	A22-2217	15.6	33.3	11.1	2.2	One Side FLA 20, LRA 80 Opp. Side FLA 10, LRA 40	760	\$115.30

A22 - 1129

Ice bin level control on ice-making machines

Cat. No.	Part No.	Range: °C	Differential: K	Capillary Length mm	List Price \$ Exc. GST
152151	A22-1129	1.6 to 10.5	3.4	1200	\$85.35

Type RCR De- Ice Control

Cat. No.	Part No.	Temperature °C		Contacts	Elect. Rating 240 VAC	Capillary Length mm	List Price \$ Exc. GST
		Cut-in	Cut-out				
152080	RCR-4852-2	3.9	-6.1	2-3 Close on Temp. Rise 2-1 Close on Temp. Fall	FLA 20 LRA 80	1220	\$113.67

* Replaces Ranco Model No. K22-L5006



Stokes

Type C28 Thermostat

Cat. No.	Part No.	Switch Action	Bulb Size mm	Capillary Length mm	List Price \$ Exc. GST
152084	C28-P1316	SPDT	9.5 dia. x 135 long	508	\$72.88

Stokes

DR152 Thermostat

Cat. No.	Part No.	Kelvinator Part No.	Temperature Range °C		List Price \$ Exc. GST
			Open	Close	
152001	DR152	KA55041	10	-4	\$56.40



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Carel

ir33+ Refrigeration Controllers

The ir33+ controllers are now replacing the IR33 controllers.

ir33+ Series – Panel Mount

Cat. No.	Part No.	Type	Temp. Range °C	Power Supply	Relay				RTC HACCP*	List Price \$ Exc. GST
					Amps: Res (Ind)					
					Comp.	Fan	Defrost	Aux.		
332018	IREVM0LN0U	Thermometer	-50 to +90 (standard NTC probe) or 0 to +150 (high range NTC probe)	12 Vac/dc						\$187.55
332019	IREVM0EN0U			240 Vac						\$210.87
146581	IREVS0LN0U	Thermostat Med Temp		12 - 24 Vac/dc	12 (2)					\$203.12
146582	IREVS0EA0U			240 Vac	8 (4)			8 (4)		\$203.12
146583	IREVC0LN0U	Thermostat Low Temp		12 - 24 Vac/dc	12 (2)	8 (4)	8 (4)	8 (4)		\$304.35
146584	IREVC0LC0U			12 - 24 Vac/dc	12 (2)	8 (4)	8 (4)	8 (4)	Y	\$339.53
146585	IREVC0HN0U			240 Vac	12 (2)	8 (4)	8 (4)	8 (4)		\$377.77
146586	IR33COHB00			240 Vac	12 (2)	8 (4)	8 (4)	8 (4)	Y	\$410.37

* RTC = Real Time Clock HACCP = Hazard Analysis and Critical Control Point

IR33 Platform Refrigeration Controllers

The IR33 Platform for refrigeration is a complete range of products designed especially for the control of stand-alone refrigeration units.

IR33 Series – Panel Mount



Cat. No.	Part No.	Type	Temp. Range °C	Power Supply	Relay				RTC HACCP*	List Price \$ Exc. GST
					Amps: Res (Ind)					
					Comp.	Fan	Defrost	Aux.		
332025	IR33M00N00	Thermometer	-50 to +90 (standard NTC probe) or 0 to +150 (high range NTC probe)	12 Vac/dc						\$157.05
332026	IR33M0ER00			240 Vac						\$210.87
146300	IR33SOLR00	Thermostat Med Temp		12 - 24 Vac/dc	12 (2)					\$203.12
146301	IR33SOER00			240 Vac	8 (4)					\$188.60
146310	IR33COLR00	Thermostat Low Temp		12 - 24 Vac/dc	12 (2)	8 (4)	8 (4)	8 (4)		\$282.60
146311	IR33COLB00			12 - 24 Vac/dc	12 (2)	8 (4)	8 (4)	8 (4)	Y	\$315.28
146312	IR33COHR00			240 Vac	12 (2)	8 (4)	8 (4)	8 (4)		\$350.78
146314	IR33COHB00			240 Vac	12 (2)	8 (4)	8 (4)	8 (4)	Y	\$381.06

* RTC = Real Time Clock HACCP = Hazard Analysis and Critical Control Point



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DN33 Series – Din Rail Mount



Cat. No.	Part No.	Type	Temp. Range °C	Power Supply	Relay				RTC HACCP*	List Price \$ Exc. GST
					Amps: Res (Ind)					
					Comp.	Fan	Defrost	Aux.		
146304	DN33S0EN00	Thermostat Med Temp	-50 to +90 (standard NTC probe) or 0 to +150 (high range NTC probe)	240 Vac	10 (4)					\$288.85
146305	DN33S0HA00			240 Vac	10 (4)			8 (4)		\$373.24
146306	DN33C0LR00	Thermostat Low Temp		12 - 24 Vac/dc	10 (4)	10 (4)	8 (4)	8 (4)		\$354.41
146307	DN33C0HR00			240 Vac	10 (4)	10 (4)	8 (4)	8 (4)		\$450.12
	DN33C0HB00			240 Vac	10 (4)	10 (4)	8 (4)	8 (4)	Y	P.O.A
146308	DN33H0HB00			240Vac	10 (4)	10 (4)	8 (4)	4 (2 x 8)	Y	\$532.85

* RTC = Real Time Clock HACCP = Hazard Analysis and Critical Control Point

MasterCella2 Series – Wall Mount



Cat. No.	Part No.	Type	Temp. Range °C	Power Supply	Relay				RTC HACCP*	List Price \$ Exc. GST
					Amps: Res (Ind)					
					Comp.	Fan	Defrost	Aux.		
146334	MD33A5ER00	Thermostat Med Temp	-50 to +90 (standard NTC probe) or 0 to +150 (high range NTC probe)	240 Vac	12 (10)			8 (4) 10 (10)		\$482.27
146336	MD33D5EB00	Thermostat Low Temp		240 Vac	12 (10)	8 (4)	10 (4)	8 (4) 10 (10)	Y	\$577.62
146337	MD33D5FB00			240 Vac	12 (10)	8 (4)	10 (4)	8 (4) 10 (10)	Y	\$678.18

* RTC = Real Time Clock HACCP = Hazard Analysis and Critical Control Point

MD33D5FB00 includes isolator switch

smartCella Refrigeration Controllers

smartCella is the new CAREL compact refrigeration controller for use in small cool room applications.

smartCella Series – Wall Mount

Cat. No.	Part No.	Type	Temp. Range °C	Power Supply	Relay				RTC HACCP*	List Price \$ Exc. GST
					Amps: Res (Ind)					
					Comp.	Fan	Defrost	Aux.		
146620	WE00S1EN00	Thermostat Medium Temp	-50 to +90 (standard probe) or 0 to +150 (high range NTC probe)	230Vac	10 (4)					\$395.18
146621	WE00C2HN00	Thermostat Low Temp			10 (10)	8 (4)	10 (4)	8 (4)		\$492.18



Carel

UltraCella Refrigeration Controllers

UltraCella is the new CAREL refrigeration controller for use in medium to large cool room applications. It's modular concept allows UltraCella to be easily upgraded for extra functions when required such as EEV. It features 6 relays and a 0-10V output, it can control temperature and humidity and display 2 main variables on the front screen. The USB port provided allows you to copy the controller's configuration and to download the temperature logs from the room (log 1 temperature every 5 minutes for 4 years). A commissioning tool can also be used for quick and easy configuration of the controller. It uses standard NTC (-50 to +90°C), high temp NTC (0 to +150°C) and Pt1000 (-50 to +90°C) for temperature control management.

The EEV module kits contain the box with EEV all prewired, and all sensors and cables required for the superheat control of the circuit.

UltraCella Series – Wall Mount



Cat. No.	Part No.	Description	Power Supply	Relay						RTC HACCP*	List Price \$ Exc. GST
				Amps: Res (Ind)							
				Comp.	Fan	Defrost	Light	Aux1	Aux2		
146610	WB000DG0F0	Double display controller	240Vac	30 (12)	16 (10)	30 (12)	16 (10)	8 (8)	8 (8)		\$881.40

* RTC = Real Time Clock HACCP = Hazard Analysis and Critical Control Point

Accessories - UltraCella

Cat. No.	Part No.	Description	List Price \$ Exc. GST
146611	WM00ENNIOK	EEV module without ultracap	\$975.48
146612	WM00EUN00K	EEV module with ultracap	\$1,529.23
146613	PGDEWB0FZK	UltraCella service pGD with 3m cable S90CONN001	\$356.64

Accessories - IR33 Platform Refrigeration Controllers

NTC Sensors – Temperature



Cat. No.	Part No.	Type	Temp. Range °C	Specifications	Length: m	Pkt Qty.	List Price \$ Exc. GST
146270	NTC015HP03	Plastic Probe IP67	-50 to +50	10 kΩ @ 25 °C	1.5	1	\$25.62
146271	NTC015HPAP					10	\$213.39
146272	NTC030HP03				3	1	\$34.05
146273	NTC030HPAP					10	\$297.97
146274	NTC060HP03				6	1	\$61.02
146275	NTC060HPAP					10	\$552.38
146111	NTC015WH03	Stainless Steel Probe IP68	-50 to +90		1.5	1	\$40.58
146094	NTC030WH03				3		\$54.08
146095	NTC060WH03				6		\$68.28
146325	NTC015HT00	High Temp Plastic Probe IP55	0 to +150	50 kΩ @ 25 °C	1.5		\$41.69
146280	NTC030HT00				3		\$48.53
	NTC060HT00				6		P.O.A
146281	NTC060PS00	Product Simulation Probe	-50 to +105	10 kΩ @ 25 °C	6		\$166.31



Sensor Pockets

Cat. No.	Part No.	Type	Size	Thread	List Price \$ Exc. GST
	NTCSOBS003	Brass	8 x 60 mm	1/4" BSP	P.O.A
146269	NTCSOSS003	Stainless Steel			\$77.11

Serial Cards

The RS485 serial option is used to connect CAREL compatible controllers to a supervisory system such as PlantWatchPRO and PlantVisorPRO via a standard RS485 serial line.



Cat. No.	Part No.	Description	Suits	List Price \$ Exc. GST
146330	IROPZ48500	RS485 Serial Card	IR33	\$143.22
146322	IROPZSER30		DN33	\$87.20
146338	IROPZSEM30		MD33	\$89.22

Remote Display and Interfaces

Cat. No.	Part No.	Description	Suits	List Price \$ Exc. GST
146323	IR00XGD000	Remote display	IR33, DN33, MD33	\$115.36
	IROPZDSP00	Remote display interface	IR33	P.O.A
146322	IROPZSER30		DN33	\$87.20
146338	IROPZSEM30		MD33	\$89.22
	PSTCON01B0	Connector for remote display	IR33, DN33, MD33	P.O.A
	PSTCON05B0			P.O.A
146166	PSTCON0300	Connector for remote display	MD33	\$21.16
	PSTCON1000			P.O.A

Other Accessories

Cat. No.	Part No.	Description	Suits	List Price \$ Exc. GST
146317	IROPZKEY00	Programming key	IR33, DN33, MD33	\$229.57
146704	IROPZKEYA0	240V Programming key		\$229.57
146320	IRTRRES000	IR Remote control		\$52.29
146079	RLY2402HP	Relay 240V coil 2HP 240V switching		\$50.69
146100	TRA12VDE00	Transformer 240-12V AC 3VA		\$30.96
146350	STRSIR0012	Strobe siren 12 Vac 100Db		\$119.63
146072	IRBOX200000	Large mounting box (with precut hole)	IR33	\$46.92

"Easy" Series Refrigeration Controllers



Cat. No.	Part No.	Type	Temp. Range °C	Power Supply	Relay				Digital Inputs*	RTC HACCP*	List Price \$ Exc. GST
					Amps: Res (Ind)						
					Comp.	Fan	Defrost	Aux.			
332028	PJEZMNN0E0	Thermometer	-50° to +90	240 Vac							\$160.79
146470	PJEZS0H000	Thermostat Med Temp			10 (10)				1		\$170.81
146472	PJEZSOG000							8 (4)	1		\$224.54
	PJEZS002E0			12 - 24 Vac/dc	8 (4)					P.O.A	
146473	PJS1YOV000	Thermostat Milk Vat		240 Vac	16 (8)	8 (4)*		8 (4)			\$339.83
146480	PJEZSNH0E0	Thermostat Med Temp Compact			10 (10)						\$164.55
146474	PJEZC00000	Thermostat Low Temp			8 (4)	8 (4)	8 (4)		1		\$213.14

* Stirrer Relay



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Cat. No.	Part No.	Type	Control Model No.	Sensor Model No.	List Price \$ Exc. GST
146420	PJEZS0H0AP	Thermostat Med Temp	10 x PJEZS0H000	10 x NTC015HP00	P.O.A
146421	PJEZ0IB045		10 x PJS2XOH000		P.O.A
146426	PJEZS002E0AP		10 x PJEZS002E00		P.O.A
146424	PJEZSNH0E0AP	Thermostat Med Temp Compact	10 x PJEZSNH0E0		P.O.A
146422	PJEZC000AP	Thermostat Low Temp	10 x PJEZC00000	20 x NTC015HP00	P.O.A

Accessories – Easy series



NTC Sensors – Temperature

Cat. No.	Part No.	Type	Temp. Range °C	Specifications	Length: m	Pkt Qty.	List Price \$ Exc. GST
146270	NTC015HP03	Plastic Probe IP67	-50 to +50	10 kΩ @ 25 °C	1.5	1	\$25.62
146271	NTC015HPAP					10	\$213.39
146272	NTC030HP03				3	1	\$34.05
146273	NTC030HPAP					10	\$297.97
146274	NTC060HP03				6	1	\$61.02
146275	NTC060HPAP					10	\$552.38
146111	NTC015WH03	Stainless Steel Probe IP68	-50 to +90	10 kΩ @ 25 °C	1.5	1	\$40.58
146094	NTC030WH03				3		\$54.08
146095	NTC060WH03				6		\$68.28

Other Accessories

Cat. No.	Part No.	Description	List Price \$ Exc. GST
146317	IROPZKEY00	Programming key (batteries)	\$229.57
146704	IROPZKEYA0	Programming key (240V)	\$229.57
146330	IROPZ48500	RS485 serial card	\$143.22



MPXPRO Modular Supermarket Case Controllers

Cat. No.	Part No.	Description	List Price \$ Exc. GST
146408	MX30M25H00	Master Control (EEV)	\$876.48
146409	MX30M21H00	Master Control 5 Relays (No EEV)	\$450.34

Accessories- MPXPRO Series

NTC Sensors - Temperature



Cat. No.	Part No.	Type	Temp. Range °C	Specifications	Length: m	Pkt Qty.	List Price \$ Exc. GST
146270	NTC015HP03	Plastic Probe IP67	-50 to +50	10 kΩ @ 25 °C	1.5	1	\$25.62
146271	NTC015HPAP					10	\$213.39
146272	NTC030HP03				3	1	\$34.05
146273	NTC030HPAP					10	\$297.97
146274	NTC060HP03				6	1	\$61.02
146275	NTC060HPAP					10	\$552.38
146111	NTC015WH03	Stainless Steel Probe IP68	-50 to +90	10 kΩ @ 25 °C	1.5	1	\$40.58
146094	NTC030WH03				3		\$54.08
146095	NTC060WH03				6		\$68.28
146281	NTC060PS00	Product Simulation Probe	-50 to +105	10 kΩ @ 25 °C	6		\$166.31



PTC Sensors - Temperature

Cat. No.	Part No.	Type	Temp. Range °C	Specifications	Length: m	List Price \$ Exc. GST
146193	PTC0150000	Bulb sensor IP65	0 to +150	1kΩ @ 25°C	1.5	\$40.86

Sensors - Pressure Transmitters



Cat. No.	Part No.	Type	Pressure Range	List Price \$ Exc. GST
146342	SPKT0011C3	4-20 mA pressure transmitter	0 to 10 bar	\$286.27
146138	SPKT0021C3		-0.5 to 7 bar	\$286.27
146137	SPKT0031C3		0 to 30 bar	\$286.27
146344	SPKT00B1C3		0 to 45 bar	\$337.88
146326	SPKT0013R3	0-5V ratiometric pressure transmitter	-1 to 9.3 bar	\$212.78
146327	SPKT0033R3		0 to 34.5 bar	\$212.78
	SPKT0053R0		-1 to 4.2 bar	P.O.A
146345	SPKT00B6R0		0 to 45 bar	\$212.78

Connection Cables



Cat. No.	Part No.	Description	Length: M	List Price \$ Exc. GST
146147	SPKC002313	Connector for SPKT transmitter, IP65	2	\$34.53
146148	SPKC005310		5	\$51.98

Other Accessories

Cat. No.	Part No.	Description	List Price \$ Exc. GST
	MXOPZKEYA0	Programming key for MPXPRO (240V)	P.O.A
	IRTRMPX000	Remote control for MPXPRO	P.O.A
146414	IR00UGC300	Remote terminal (green LED, keypad, buzzer, IR)	\$113.60
	IR00XGC300	Display terminal (green LED, buzzer, IR)	P.O.A
	TRADRBE240	Transformer 240/24Vac 20VA Din rail mount with fuse holder	P.O.A
146390	TRA00BE240	Transformer 240/24Vac 20VA Panel mount with fuse holder	\$133.96

IR33*7 Universal Series – Panel Mount

The IR33 Universal Series of controllers is very flexible and can be used in many applications. The controller is selected depending on the number and type of outputs required. 9 preconfigured modes are available to select from or the user can completely reconfigure the use of the outputs. The IR33*7 series is for temperature applications. It is possible to connect NTC, NTC high temp, PTC and Pt1000 sensors to its inputs. The IR33*9 is for any application and can accept any inputs from the following list: NTC, NTC high temp, PTC, Pt1000, Pt100, J/K thermocouple, 0-1V, -0.5-1.3V, 0-10V, 0-5V ratiometric, 0-20mA and 4-20mA.



Cat. No.	Part No.	Power supply	Outputs type	List Price \$ Exc. GST
146502	IR33V7HR20	230 Vac	1 x SPDT Relay	\$335.90
146506	IR33V7LR20	12-24 Vac / 12-30 Vdc	1 x SPDT Relay	\$297.30
146508	IR33W7HR20	230 Vac	2 x SPDT Relays	\$394.60
146512	IR33W7LR20	12-24 Vac / 12-30 Vdc	2 x SPDT Relays	\$345.98
146514	IR33Z7HR20	230 Vac	3 x SPDT + 1 x SPST Relays	\$453.94
146516	IR33Z7HB20*	230 Vac	3 x SPDT + 1 x SPST Relays	\$518.86
146518	IR33Z7LR20	12-24 Vac / 12-30 Vdc	3 x SPDT + 1 x SPST Relays	\$405.29
146520	IR33D7LR20	12-24 Vac / 12-30 Vdc	1 x 10Vdc SSR Output	\$322.13
146522	IR33A7LR20	12-24 Vac / 12-30 Vdc	4 x 10Vdc SSR Outputs	\$439.18
146524	IR33E7HB20*	230 Vac	1 x SPDT + 1 x SPST Relays + 2 x 10Vdc Outputs	\$524.53
146526	IR33E7LR20	12-24 Vac / 12-30 Vdc	1 x SPDT + 1 x SPST Relays + 2 x 10Vdc Outputs	\$418.57

* Controller has a built-in Real Time Clock



DN33*7 Universal Series – Din Rail Mount



Cat. No.	Part No.	Power supply	Outputs type	List Price \$ Exc. GST
146532	DN33V7HR20	230 Vac	1 x SPDT Relay	\$439.18
146534	DN33V7LR20	12-24 Vac / 12-30 Vdc	1 x SPDT Relay	\$388.45
146536	DN33W7HR20	230 Vac	2 x SPDT Relays	\$470.24
146538	DN33W7LR20	12-24 Vac / 12-30 Vdc	2 x SPDT Relays	\$421.60
146540	DN33Z7HR20	230 Vac	4 x SPDT Relays	\$507.60
146542	DN33Z7HB20*	230 Vac	4 x SPDT Relays	\$569.70
146544	DN33Z7LR20	12-24 Vac / 12-30 Vdc	4 x SPDT Relays	\$460.99
146546	DN33A7LR20	12-24 Vac / 12-30 Vdc	4 x 10Vdc SSR Outputs	\$521.09
146548	DN33E7HR20	230 Vac	2 x SPDT Relays + 2 x 10Vdc Outputs	\$534.71
146550	DN33E7HB20*	230 Vac	2 x SPDT Relays + 2 x 10Vdc Outputs	\$595.15
146552	DN33E7LR20	12-24 Vac / 12-30 Vdc	2 x SPDT Relays + 2 x 10Vdc Outputs	\$489.20

* Controller has a built-in Real Time Clock

IR33*9 Universal Series – Panel Mount

Cat. No.	Part No.	Power supply	Outputs type	List Price \$ Exc. GST
146553	IR33V9HR20	230 Vac	1 x SPDT Relay	\$453.91
146554	IR33V9MR20	24 Vac/dc	1 x SPDT Relay	\$405.26
146555	IR33W9HR20	230 Vac	2 x SPDT Relays	\$502.51
146556	IR33W9MR20	24 Vac/dc	2 x SPDT Relays	\$453.91
146557	IR33Z9HR20	230 Vac	3 x SPDT + 1 x SPST Relays	\$562.02
	IR33Z9HB20*	230 Vac	3 x SPDT + 1 x SPST Relays	P.O.A
146559	IR33Z9MR20	24 Vac/dc	3 x SPDT + 1 x SPST Relays	\$513.39
	IR33A9MR20	24 Vac/dc	4 x 10Vdc SSR Outputs	P.O.A
146560	IR33E9HR20	230 Vac	1 x SPDT + 1 x SPST Relays + 2 x 10Vdc Outputs	\$565.01
146561	IR33E9MR20	24 Vac/dc	1 x SPDT + 1 x SPST Relays + 2 x 10Vdc Outputs	\$519.51

* Controller has a built-in Real Time Clock

DN33*9 Universal Series – Din Rail Mount

Cat. No.	Part No.	Power supply	Outputs type	List Price \$ Exc. GST
146563	DN33V9HR20	230 Vac	1 x SPDT Relay	\$551.67
146564	DN33V9MR20	24 Vac/dc	1 x SPDT Relay	\$500.97
146565	DN33W9HR20	230 Vac	2 x SPDT Relays	\$578.32
146566	DN33W9MR20	24 Vac/dc	2 x SPDT Relays	\$551.67
146567	DN33Z9HR20	230 Vac	4 x SPDT Relays	\$611.14
	DN33Z9HB20*	230 Vac	4 x SPDT Relays	P.O.A
146569	DN33Z9MR20	24 Vac/dc	4 x SPDT Relays	\$564.51
	DN33A9MR20	24 Vac/dc	4 x 10Vdc SSR Outputs	P.O.A
146571	DN33E9HR20	230 Vac	2 x SPDT Relays + 2 x 10Vdc Outputs	\$635.60
	DN33E9HB20*	230 Vac	2 x SPDT Relays + 2 x 10Vdc Outputs	P.O.A
146573	DN33E9MR20	24 Vac/dc	2 x SPDT Relays + 2 x 10Vdc Outputs	\$590.09

* Controller has a built-in Real Time Clock



CM Retrofit Control Kit

Cat. No.	Part No.	Power supply	Outputs type	List Price \$ Exc. GST
146600	CM00000398	240V	Retrofit Kit	\$542.67





Cat. No.	Part No.	Type	Temp. Range °C	Specifications	Length: m	Pkt Qty.	List Price \$ Exc. GST
146270	NTC015HP03	Plastic Probe IP67	-50 to +50	10 kΩ @ 25 °C	1.5	1	\$25.62
146271	NTC015HPAP					10	\$213.39
146272	NTC030HP03				3	1	\$34.05
146273	NTC030HPAP					10	\$297.97
146274	NTC060HP03				6	1	\$61.02
146275	NTC060HPAP					10	\$552.38
146111	NTC015WH03	Stainless Steel Probe IP68	-50 to +90		1.5	1	\$40.58
146094	NTC030WH03				3		\$54.08
146095	NTC060WH03				6		\$68.28
146325	NTC015HT00	High Temp Plastic Probe IP55	0 to +150	50 kΩ @ 25 °C	1.5		\$41.69
146280	NTC030HT00				3		\$48.53
	NTC060HT00				6		P.O.A
146281	NTC060PS00	Product Simulation Probe	-50 to +105	10 kΩ @ 25 °C	6		\$166.31

PTC Sensors - Temperature

Cat. No.	Part No.	Type	Temp. Range °C	Specifications	Length: m	List Price \$ Exc. GST
146131	PTC0150000	Bulb sensor IP65	0 to +150	1kΩ @ 25°C	1.5	\$142.21

Active DP Sensors – Temperature and humidity



Cat. No.	Part No.	Type	Temp. Range °C	Humidity range %RH	Output type	List Price \$ Exc. GST
146104	DPWC111000	Wall mount humidity and temperature sensor	-10 to +60	10 to 90	4 - 20mA + NTC	\$382.70
146380	DPWC115000				0-10V + NTC	\$392.41
146114	DPPC110000	Industrial wall mount humidity/temperature sensor	-20 to +70	10 to 90	2 x 4-20mA	\$821.91
146119	DPPC210000			0 to 100		\$1,283.18
	DPDC110000	Duct mount humidity and temperature sensor		10 to 90		P.O.A
	DPDC210000			0 to 100		P.O.A

Sensors- Pressure



Cat. No.	Part No.	Type	Pressure Range	List Price \$ Exc. GST
146342	SPKT0011C3	4-20 mA pressure transmitter	0 to 10 bar	\$286.27
146138	SPKT0021C3		-0.5 to 7 bar	\$286.27
146137	SPKT0031C3		0 to 30 bar	\$286.27
146344	SPKT00B1C0		0 to 45 bar	\$337.88

Connection Cables



Cat. No.	Part No.	Description	Length: M	List Price \$ Exc. GST
146147	SPKC002313	Connector for SPKT transmitter, IP65	2	\$34.53
146148	SPKC005310		5	\$51.98

Serial Cards

The RS485 serial option is used to connect CAREL compatible controllers to a supervisory network via a standard RS485 serial line. The serial cards are used to connect these controllers to a PlantWatchPRO or a PlantVisorPRO.



Cat. No.	Part No.	Description	Suits	List Price \$ Exc. GST
146330	IROPZ48500	RS485 Serial Card	IR33 Universal	\$143.22
146322	IROPZSER30		DN33 Universal	\$87.20

Converters for PWM controllers

Cat. No.	Part No.	Description	List Price \$ Exc. GST
	CONVO/10A0	PWM to 0-10 V or 4-20 mA output converter	P.O.A
	CONVONOFF0	10 Vdc to ON / OFF relay converter	P.O.A

Other Accessories

Cat. No.	Part No.	Description	Suits	List Price \$ Exc. GST
146702	IRTRUES000	IR Remote control	IR33 / DN33 Universal	\$75.18
146317	IROPZKEY00	Programming key (batteries)	IR33 Platform	\$229.57
146704	IROPZKEYA0	Programming key (240V)	IR33 Platform	\$229.57
146072	IRBOX20000	Large mounting box	IR33 with precut hole	\$46.92
146079	RLY2402HP	Relay 240V coil 2HP 240V switching		\$50.69



Carel

pRack Advanced Solution for Compressor Racks

The Carel pRack Controller is a family of controllers designed for the more complex and advanced systems.

pRack Controller Series – Controller kits



Cat. No.	Part No.	Size	Display	Dig. Output	An. Output	Dig. Input	An. Input	List Price \$ Exc. GST
146431	PRK100X3D0	XXS	Internal	7	2		2 + 6*	\$1,464.32
146432	PRK100X3DK	XXS	Remote	7	2		2 + 6*	\$1,952.40
146433	PRK100S3D0	Small	Internal	8	8		3 + 2*	\$2,221.06
146434	PRK100S3DK	Small	Remote	8	8		3 + 2*	\$2,582.68
146435	PRK100M3D0	Medium	Internal	13	4	12 + 2 (230V)	6 + 2*	\$2,928.63
146436	PRK100M3DK	Medium	Remote	13	4	12 + 2 (230V)	6 + 2*	\$3,308.39
146437	PRK100L3B0	Large	Internal	18	6	14 + 4 (230V)	6 + 4*	\$3,202.44
146438	PRK100L3DK	Large	Remote	18	6	14 + 4 (230V)	6 + 4*	\$3,564.11

* Can also be used as digital input

Kit includes 1 x controller with rack software, 1 x connector kit and 1 x pGD1 display (if not built-in display).

Accessories - pRack Controller Series

NTC Sensors – Temperature



Cat. No.	Part No.	Type	Temp. Range °C	Specifications	Length: m	Pkt. Qty.	List Price \$ Exc. GST
146270	NTC015HP03	Plastic Probe IP67	-50 to +50	10 kΩ @ 25 °C	1.5	1	\$25.62
146271	NTC015HPAP					10	\$213.39
146272	NTC030HP03				3	1	\$34.05
146273	NTC030HPAP					10	\$297.97
146274	NTC060HP03				6	1	\$61.02
146275	NTC060HPAP					10	\$552.38
146111	NTC015WH03	Stainless Steel Probe IP68	-50 to +90		1.5	1	\$40.58
146094	NTC030WH03				3		\$54.08
146095	NTC060WH03				6		\$68.28

Sensors - Pressure Transmitters



Cat. No.	Part No.	Type	Pressure Range	List Price \$ Exc. GST
146342	SPKT0011C3	4-20 mA pressure transmitter	0 to 10 bar	\$286.27
146138	SPKT0021C3		-0.5 to 7 bar	\$286.27
146137	SPKT0031C3		0 to 30 bar	\$286.27
146344	SPKT00B1C3		0 to 45 bar	\$337.88
146326	SPKT0013R3	0-5V ratiometric pressure transmitter	-1 to 9.3 bar	\$212.78
146327	SPKT0033R3		0 to 34.5 bar	\$212.78
	SPKT0053R0		-1 to 4.2 bar	P.O.A
146345	SPKT00B6R0		0 to 45 bar	\$212.78

Connection Cables



Cat. No.	Part No.	Description	Length: M	List Price \$ Exc. GST
146147	SPKC002313	Connector for SPKT transmitter, IP65	2	\$34.53
146148	SPKC005310		5	\$51.98

Control Pre-configuration

This service is offered by Carel to make rack controllers even easier to install. Complete a simple form and Carel will pre-configure your controller as required. Moreover site specific wiring diagrams are also provided, thus eliminating errors, confusion and frustrations. Set point and alarm values are still set by the installer.

Cat. No.	Part No.	Description	List Price \$ Exc. GST
146156	PRECONFGRACK	Pre-configuration of rack controller	\$222.79



Cold Watch Person Trapped Alarm

The trapped personnel alarm kit is a safety system for cool rooms & freezer rooms. It allows personnel trapped inside the cold room to call for help by pressing an emergency button and thus activating the audible signal-warning light on the control panel outside.

The system consists of:

Control unit: to be installed outside of the cold room; fitted with an audible siren and flashing light to signal alarms.

Backup battery: housed inside the control unit, provides power in the event of blackouts.

Emergency button: to be installed inside the cold room, made up of a mushroom-head pushbutton with light. The LED on the mushroom-head pushbutton is on at all times, so the button can be identified even in the dark.



Cat. No.	Part No.	Description	List Price \$ Exc. GST
146355	CM00006236	Cold Watch Person Trapped Alarm	\$984.26
146356	KTCWPSENGL	Replacement Push Button Kit	\$165.41

PlantWatchPRO3 remote management system

PlantWatchPRO is a monitoring and alarms management solution for small to medium sized installations. It features a colour touch screen, can manage controllers connected to the serial line and will record variables such as temperature, pressure and status. Alarms sent to the PlantWatchPRO from the individual controllers can be managed according to the needs of the user by sending SMS (with optional GSM modem) or emails and activating relays. Information can be extracted directly from the USB ports or remotely on a computer network or even over the internet. It features as well a report function, a scheduling function (for defrosts, lights and automatic reports), the possibility to display graphs and to configure different levels of users.

Cat. No.	Part No.	Description	List Price \$ Exc. GST
146211	PW3P000TP000	PlantWatchPRO Panel Mount for 15 devices max	\$3,685.93
146212	PW3W000TSI00	PlantWatchPRO Wall Mount for 30 devices max	\$5,792.11

Accessories -PlantWatchPRO3



Cat. No.	Part No.	Description	List Price \$ Exc. GST
146214	PW3AGSM000	GSM modem for PlantWatchPRO (to enable SMS function)	\$1,341.49
146213	PW3AREL000	I/O board with 2 relays for PWPRO3 panel mount	\$203.40
146190	8760-1000	Belden 8760, 1 pair, 18 AWG screened cable with drain wire	\$4.48
146182	IOM0023000	I/O module for RS485 line (does not require a serial card) 230V	\$515.10
	IOM0002400	I/O module for RS485 line (does not require a serial card) 24V	P.O.A

Pre-configuration This service is offered by Carel to make PlantWatchPRO even easier to install. Complete a simple form and Carel will pre-configure your PlantWatchPRO as required.

Cat. No.	Part No.	Description	List Price \$ Exc. GST
146204	-RTPCNFPWP	Pre-configuration of PlantWatchPRO	P.O.A

PlantVisorPRO2

PlantVisorPRO2 is the new generation of monitoring and alarms management supervisory system designed for both small and large installations to manage all the field devices connected to the serial line. It features an intuitive, effective and pleasant navigation interface with advanced characteristics and is available as a complete all in one touch screen solution or as a box that can be connected to a monitor, a mouse and a keyboard. Monitoring and energy savings management functions, HACCP reports and graphs, alarms management by scheduling the actions to be performed in case of an alarm or event, local and remote connectivity, performance indicator of your installation, activity scheduling and controls for instruments or groups of instruments define and complete the features of PlantVisorPRO. It also integrates the Layout Editor function for the creation of customized floorplans of the installation directly on the supervisory system.

Cat. No.	Part No.	Description	List Price \$ Exc. GST
146206	PP2STGSXE0	PlantVisorPRO2 Embedded Box version with internal modem	\$11,144.15
146209	PP2STGSTEO	PlantVisorPRO2 Embedded Touch version with internal modem	\$14,486.93

Accessories -PlantVisorPRO

Cat. No.	Part No.	Description	List Price \$ Exc. GST
146207	PCACCESSPK	Mouse, keyboard and 17" LCD monitor for PVPRO Embedded	\$1,427.76
146190	8760-1000	Belden 8760, 1 pair, 18 AWG screened cable with drain wire	\$4.48
146182	IOM0023000	I/O module for RS485 line (does not require a serial card) 230V	\$515.10
	IOM0002400	I/O module for RS485 line (does not require a serial card) 24V	P.O.A
	PVUPS00000	Uninterruptible power supply with surge and battery backup protection	P.O.A



CAREL

Electronic Controls

Carel

Pre-configuration and Floorplan

This service is offered by Carel to make PlantVisorPRO even easier to install. Complete a simple form and Carel will pre-configure your PlantVisorPRO as required and do your floorplan for an easier navigation of the system and management of the devices. Commissioning is also available at additional cost.

Cat. No.	Part No.	Description	List Price \$ Exc. GST
146208	-RTPCNFPP2	Pre-configuration of PlantVisorPRO	P.O.A
	FLOORPLAN	Floorplan for PlantVisorPRO	P.O.A

Cable specifications

For the connection of the RS485 network, Carel recommends the use of the Belden 8760 cable (1 twisted pair, 18 AWG screened cable with drain wire).



Emerson

EC2 Series - Case Controllers



Cat. No.	Model No.	Part No.	Input	List Price \$ Exc. GST
147120	EC2-371	807689	Pressure	\$803.04
			Temperature	
147124	EC2-391	807691	Temperature	\$765.10
			Temperature	



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Electronic Controls

CPC

CPC by Emerson is a comprehensive control system, commonly used in supermarkets.

Controls



Cat. No.	Part No.	Description	List Price \$ Exc. GST
149020	834-0410	Control	RX400 \$8,686.72
149021	834-0310		RX300 \$7,698.07
149022	834-0100		RX100 \$4,458.94

Control Accessories

Cat. No.	Part No.	Description	List Price \$ Exc. GST
149028	637-4871	E2 Modem	\$1,274.79
149030	832-4830	Repeater	\$1,008.07
149032	637-4890	E2 RS 485 Card	\$385.80
149034	637-4880	E2 Digital I/O Card	\$389.52

Cards



Cat. No.	Part No.	Description	List Price \$ Exc. GST
149040	810-3064	Multiflex 88 Card	\$1,410.78
149041	810-3063	Multiflex 88 AO Card	\$1,521.25
149042	810-3066	Multiflex 168 Card	\$2,246.44
149043	810-3065	Multiflex 168 AO Card	\$3,322.37
149044	810-3067	Multiflex 168 DO Card	\$3,056.66

Cat. No.	Part No.	Description	List Price \$ Exc. GST
149045	810-3013	Multiflex 16 Card	\$1,113.32
149046	810-3199	Multiflex ESR-8 Card	\$2,178.46
149047	810-3006	8RO Card	\$1,133.12
149048	810-3030	4AO Card	\$1,130.29

Sensors / Probes

Cat. No.	Part No.	Description	List Price \$ Exc. GST
149001	804283	Green 20ft Sensor	\$97.28
149002	501-1125	Pipe Sensor	Blue \$93.48
149003	501-1126		Red \$93.48
149004	501-1129		Green \$93.48
149005	501-1127		Orange \$93.48
149006	201-5000	High Temp. Sensor	RMCC \$141.64
149007	201-1191		E2 \$133.90
149010	203-5751	RH Sensor	Wall \$849.89
149011	203-5754		Outside \$669.30
149012	508-9101	Product Simulator	Black \$192.86

Transformers

Cat. No.	Part No.	Description	List Price \$ Exc. GST
149054	640-0080	Transformer	ESR 8 \$141.64
107034	804421		E2 \$88.94
149056	640-0048		10 Board \$320.94

Transducers

Cat. No.	Part No.	Description	List Price \$ Exc. GST
149074	800-2200	Transducer	Suction \$335.11
149075	800-2500		Discharge \$335.11
149076	800-2650		CO ² \$521.14

Case Controllers

Cat. No.	Part No.	Description	List Price \$ Exc. GST
149060	810-3161	Case Controller with Probes	CC-100 \$1,475.93
149062	335-3258	Power Lead	
149063	335-3263	Valve Lead	
149064	510-3131	2nd Valve Kit	
149065	814-3110	Hand Held Terminal	

Leak Detection

Cat. No.	Part No.	Description	List Price \$ Exc. GST
149100	809-1000	MRLDS Sensor	\$3,077.33
149103	809-1550	Leak Transducer Housing	\$561.49
149105	209-0832	HFC Element	\$106.60
149106	209-0830	HCFC Element	\$106.60



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Electronic Controls



Danfoss Controls

Danfoss supply a wide range of products for electronic control of refrigeration applications.

1

Case Controllers



Cat. No.	Part No.	Model No.	Description	List Price \$ Exc. GST
141010	084B8500	EKC 102A	Temperature Controller	\$222.88
141012	084B8501	EKC 102B	Temperature Controller	\$242.28
141013	084B8502	EKC 102C	Temperature Controller	\$261.64
141018	084B8523	EKC 202C	Refrigeration Controller	\$348.87
141019	084B8543	EKC 202C-MS	Refrigeration Controller	\$348.87
141020	084B4162	EKC 302A	Refrigeration Controller	\$426.39
141024	084B8528	AK-CC 250A	Refrigeration Controller	\$407.00
141025	084B8529	AK-CC 250B	Refrigeration Controller	\$407.00
141026	084B4165	AK-CC 350	Refrigeration Controller	\$484.53
141028	084B8030	AK-CC 550A	Refrigeration Controller	\$1,744.33
141029	080Z0121	AK-CC 750	Evaporator Controller	\$2,645.54

Superheat Controllers

Cat. No.	Part No.	Model No.	Description	List Price \$ Exc. GST
141035	084B7086	EKC 315A	Superheat Controller	\$2,035.02
141037	084B7088	EKC 316A	Superheat Controller	\$2,035.02

Liquid Level Controllers

Cat. No.	Part No.	Model No.	Description	List Price \$ Exc. GST
141042	084B7067	EKC 347	Liquid Level Controller	\$3,868.78

Capacity Controllers

Cat. No.	Part No.	Model No.	Description	List Price \$ Exc. GST
141044	084B7105	EKC 331T	Capacity Controller	\$2,035.02
141045	084B8007	AK-PC 530	Capacity Controller	\$2,965.33



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Electronic Controls

Danfoss

Danfoss

Temperature Sensors



Cat. No.	Part No.	Model No.	Description	Signal	Temperature Range °C	List Price \$ Exc. GST
141100	084N1007	AK-HS 1000	Product Temperature Sensor	PT1000	-30 to 50	\$555.70
141101	084N1178	EKS 111	Temperature Sensor	PT1000	-55 to 100	\$42.64
141104	084B4404	EKS 211	Temperature Sensor	PT5000	-40 to 80	\$125.01
141106	084N0036	AKS 12	Temperature Sensor	PT1000	-40 to 80	\$67.83
141108	084N0003	AKS 11	Temperature Sensor	PT1000	-50 to 100	\$213.20
141109	084N0005	AKS 11	Temperature Sensor	PT1000	-50 to 100	\$230.92
141110	084N0008	AKS 11	Temperature Sensor	PT1000	-50 to 100	\$290.72
141111	084N2007	AKS 21 M	Temperature Sensor	PT1000	-70 to 180	\$285.04
141112	084N2017	AKS 21 W	Temperature Sensor	PT1000	-70 to 180	\$697.73
141113	084N2035	AKS 21 D	Temperature Sensor	PT1000	-40 to 80	\$1,228.44

Pressure Sensors

AKS pressure transmitters are designed for precise and energy optimized control. The robust design makes AKS suitable for a wide range of applications, such as:

- Air conditioning systems and refrigeration plants
- Process control applications
- Laboratory applications



Cat. No.	Part No.	Model No.	Description	Signal	Pressure Range: kPa	Maximum Working Pressure: kPa	Connection	List Price \$ Exc. GST
141115	060G0090	AKS 32R	Pressure Transmitter	10 to 90% Supply Voltage	-100 to 3400	5500	1/4" Flare	\$872.15
141116	060G1036	AKS 32R	Pressure Transmitter	10 to 90% Supply Voltage	-100 to 1200	3300		\$872.15
141120	060G1034		5M Cable With Plug For AKS32R					\$157.23
141122	060G2069	AKS 32	Pressure Transmitter	1 to 5 volts	-100 to 1200	3300		\$1,162.87
141123	060G2071	AKS 32	Pressure Transmitter	1 to 5 volts	-100 to 3400	5500		\$1,162.87
141126	060G2049	AKS 33	Pressure Transmitter	4 to 20 mA	-100 to 1200	3300		\$1,589.24
141127	060G2045	AKS 33	Pressure Transmitter	4 to 20 mA	0 to 2500	3300		\$1,036.40
141128	060G2051	AKS 33	Pressure Transmitter	4 to 20 mA	-100 to 3400	5500	3/8" BSP	\$1,589.24
141129	060G2104	AKS 33	Pressure Transmitter	4 to 20 mA	-100 to 600	3300		\$1,589.24
141130	060G2105	AKS 33	Pressure Transmitter	4 to 20 mA	-100 to 1200	3300		\$1,589.24
141131	060G2107	AKS 33	Pressure Transmitter	4 to 20 mA	-100 to 3400	5500	1/4" Flare	\$1,027.21
141133	060G1323	AKS 3000	Pressure Transmitter	4 to 20 mA	-100 to 1200	3300		\$1,027.21
141134	060G1327	AKS 3000	Pressure Transmitter	4 to 20 mA	0 to 3000	5500	3/8" BSP	\$1,027.21
141136	060G1041	AKS 3000	Pressure Transmitter	4 to 20 mA	0 to 2500	4000		\$1,027.21
141137	060G1066	AKS 3000	Pressure Transmitter	4 to 20 mA	0 to 4000	10000		\$1,027.21



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PHASEFALE

Phasefale

TACm Room Controller

Cat. No.	Model No.	Description	List Price \$ Exc. GST
144211	TACMV2	Room Controller with 6m sensor	\$757.44

Joule Temperature Room Controller

Cat. No.	Model No.	Description	List Price \$ Exc. GST
144212	JOULET	Room Controller with 6m Sensor and Ethernet	\$2,314.23

VatPac Milk Vat Controller

Cat. No.	Model No.	Description	List Price \$ Exc. GST
144203	VATPAC	Milk Vat Controller with 6m Sensor	\$1,380.10

TA-1 Alarm Thermostat

Cat. No.	Model No.	Description	List Price \$ Exc. GST
144205	TA-1	Alarm Thermostat less Sensor	\$302.93

Control Accessories

Cat. No.	Model No.	Description	List Price \$ Exc. GST
144201	MProbe/6	6m Temperature Sensor	\$122.01
144202	TACM/PCB	Defrost Option Kit	\$182.61
144207	TACm - L240V	Warning Light 240Vac	\$84.17
144208	TACm - B12V	Warning Buzzer 12Vdc	\$92.57



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ACTROL

Humidistats

Penn

W42 Humidistat

The W42AA humidistat controls humidifying or dehumidifying equipment or both. The humidistat is a 3-wire device with single-pole, double-throw, snap-acting contacts. The W42 features a human hair sensing element and has a concealed dial lock screw.

Cat. No.	Part No.	Switch Action	Range % RH	Diff. % RH	Voltage	List Price \$ Exc. GST
145140	W42AA-1	SPDT	10 to 90	4	Line or Low	\$483.37

Electrical Rating: Pilot Duty only - 125 VA at 120/240 V.A.C

Maximum Operating Ambient: 38°C

HVAC Controls

Ranco

Cat. No.	Part No.	Range °C	Diff. K	Cap. Length mm	Shaft Length mm	Switching Sequence						List Price \$ Exc. GST
						Switch 'A'			Switch 'B'			
						Terms	Cut-in °C	Cut-out °C	Terms	Cut-in °C	Cut-out °C	
152085	C17-334	9.4	3.6	915	Varifix	2 & 1	18.3	20.3	4 & 5	17.5	21.1	\$361.60
152177	C17-177	16.7	2	660	16	2 & 3	19.7	17.8	4 & 5	19.7	21.7	\$274.11

Replacements: C17-334 replaces C17-308, 316, 503, 506. C17-177 replaces C17-140

Type A22 Adaptable RAC Thermostat

Cat. No.	Part No.	Switch Action	Temperature °C			Diff. K	Bulb & Capillary	Application	List Price \$ Exc. GST
			Cold Out	Cold In	Warm In				
152150	A22-2453	SPDT	15	17.8	33.3	2.2 Fixed	9.5mm x 100mm 990mm Cap. Cross Ambient	Air Conditioner	\$207.53

Type C12 Thermostat



Cat. No.	Part No.	Range °C	Diff. K	Contacts	Bulb and Capillary	Electrical Rating 240 VAC	List Price \$ Exc. GST
152081	C12-5010	15.6 to 36.7	1.7 Fixed	Close on Temp .Rise	9.5mm x 230mm 660mm Cap. Liquid Filled	FLA 20 LRA 78	\$219.10

Penn

T26 Series Thermostats

T26 Series with thermometer are universal Model for heating, cooling or heating and cooling and include horizontal mounting faceplate kit. Converts to key adjustment by removing and retaining knob for the key.



Cat. No.	Part No.	Type of Adjustment	Application	Range °C	Differential Approx. K		List Price \$ Exc. GST
					Heating	Cooling	

Heating and Cooling – Line or Low Voltage

145130	T26S-22	Knob	SPDT	5 to 30	1	1.3	\$253.40
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T25 Series



Cat. No.	Part No.	Type of Adjustment	Application	Range °C	Differential Approx. K		List Price \$ Exc. GST
					Heating	Cooling	

Two Stage – Line or Low Voltage

145125	T25B-9101	Knob	2 x SPDT 2 Stage Heat/Cool, Heat/Cool with dead band and auto changeover	5 to 32	1 per Stage 1 to 3 adjust between stages		\$674.80
145126	T25B-9102	Concealed					\$674.80



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HVAC Controls

Honeywell

Honeywell

Non Programmable Thermostats

Xe60 Series Line Voltage Thermostat



Cat. No.	Part No.	Application	Stages	Range °C	Amps		Switches	List Price \$ Exc. GST
					Res.	Ind.		
145220	T4360G1006	Heat (or Cool)	1H	10 - 30	16		On-Off	\$151.64
145222	T6360D1008	Cool (or Heat)	1C		10	3		\$162.41
145224	T6360E1005	Heat Pump	1H/1C		10	3	Heat-Off-Cool	\$181.82

Xe70 Series Line Voltage Fan Coil Thermostat



Cat. No.	Part No.	Application	Stages	Range °C	Amps		Switches	List Price \$ Exc. GST
					Res.	Ind.		
145226	T6375C1003	4 Pipe Fan Coil	1H/1C 2H or 2C	10 - 30	6	4	On-Off Fan: 1-2-3	\$380.19
145228	T6376B1004	Heat Pump Systems	1H/1C	10 - 30	6	4	Heat-Off-Cool Fan: Auto-Cont	\$362.18

DT90 Series Digital Dual Voltage Thermostat



Cat. No.	Part No.	Application	Stages	Range °C	Amps		Switches	List Price \$ Exc. GST
					Res.	Ind.		
145230	DT90A1008	Heat (or Cool)	1H	5 - 35	8	3	On-Off	\$199.16
145231	DT90E1012						On-Off Eco	\$215.42

TH5000 FocusPRO™ Series Low Voltage Thermostat



Cat. No.	Part No.	Application	Stages	Range °C	List Price \$ Exc. GST
145232	TH5110D1022/U	Conventional or Heat Pump	1H/1C	Heat: 4.5 - 32 Cool: 10 - 37	\$268.48
145234	TH5220D1029/U		2H/2C 2H/1C		\$376.72

Programmable Thermostats

TH6000 FocusPRO™ Series Thermostat



Cat. No.	Part No.	Application	Stages	Range °C	List Price \$ Exc. GST
145240	TH6110D1021/U	Conventional or Heat Pump	1H/1C	Heat: 4.5 - 32 Cool: 10 - 37	\$370.98
145242	TH6220D1028/U		2H/2C 2H/1C		\$561.08

TH8000 VisionPRO™ Series Touch-Screen Thermostat



Cat. No.	Part No.	Application	Stages	Range °C	List Price \$ Exc. GST
145244	TH8110U1003/U	Conventional or Heat Pump	1H/1C	Heat: 4.5 - 32 Cool: 10 - 37	\$702.47
145246	TH8320U1008/U		3H/2C 2H/2C		\$804.38

TB8000 Commercial VisionPRO™ Series Thermostat



Cat. No.	Part No.	Application	Stages	Range °C	List Price \$ Exc. GST
145248	TB8220U1003/U	Conventional or Heat Pump	3H/2C 2H/2C	Heat: 4.5 - 32 Cool: 10 - 37	\$940.07

Low Voltage to Line Voltage Interface



Cat. No.	Part No.	Description	List Price \$ Exc. GST
145218	R4611G2010	Interface Module	\$450.32

TG Series Lockable Thermostat Guards



Cat. No.	Part No.	Dimensions mm		List Price \$ Exc. GST
		Internal	External	
145091	TG511A1000	130 H x 154 W	165 H x 191 W x 75 D	\$187.01
145092	TG512A1009	149 H x 213 W	184 H x 284 W x 86 D	\$189.38
145093	191990A	Replacement Key		\$21.12



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HVAC Controls

Honeywell

Honeywell Domestic Damper Actuators

Honeywell's range of domestic damper motors is designed to suit most domestic applications for zoned control of heating, air conditioning or ventilation systems.



Cat. No.	Part No.	Voltage Nom. Power	Control	Torque: Nm	Timing: s	Mounting	Features	List Price \$ Exc. GST
153440	M447B1005	240Vac 9.2VA	Drive Open Spring Return	0.34	27 drive / 25 return	Female 8mm shaft	-	\$249.87
153441	M447C1004			0.50	38 drive / 25 return		Gold colour casing	\$305.64
153442	M847B1014	24Vac 6VA		0.34	27 drive / 25 return		Silver colour casing	\$257.89
153443	DM2000F1024	24Vac 5VA	Drive Open Drive Closed	2	24	Male 6x6mm Shaft	RJ12 connection	\$179.50
153444	DM2000F1240	240Vac 5VA					Flying lead	\$183.94
153445	DM3000M1024	24Vac 5VA					RJ12 connection	\$190.10
153446	DM3000M1240	240Vac 5VA					Flying lead	\$190.10

Commercial Damper Actuators

Honeywell's range of commercial Direct Coupled Actuators (DCAs) are manufactured for on/off, floating or modulating control of air dampers, ventilation flaps, louvers, VAV units and mounting to ball valves.

Non Spring Return



Cat. No.	Part No.	Voltage Nom. Power	Control	Torque: Nm	Timing / Features	Damper Area	Suit Shaft Dimensions:	List Price \$ Exc. GST	
153450	CN7505A2001	24Vac 6VA	Modulating 0½ - 10Vdc Floating 2 Position	5	Runtime 90- 110s 0-10Vdc Feedback Signal	<0.75m2	Round: 8-16mm Square: 6-13mm	\$640.36	
153451	CN7510A2001			10		< 1.5m2		\$714.13	
153452	CN7220A2007			20		<4m2		\$993.72	
153453	CN6120A1002	230Vac 6VA	Floating	20	Runtime 110s	< 3m2	Round: 10- 27mm Square: 10- 18mm	\$879.89	
153454	CN4620A1001			20				\$967.13	
153455	CN4634A1001			230Vac 7VA	34	Runtime 110s		< 6m2	\$1,108.22
153456	CN7234A2008			24Vac 8VA	Modulating 0½ - 10Vdc Floating 2 Position	34			Runtime 95s 0-10Vdc Feedback Signal

Spring Return



Cat. No.	Part No.	Voltage Nom. Power	Control	Torque: Nm	Timing	Damper Area	Features	List Price \$ Exc. GST
153460	CS8110A1206	24Vac 30VA-Run 8VA-Hold	2 position	10	Drive Open 45s Spring Close 20s	< 1.5m2	2 Aux. Switches	\$1,106.03
153461	CS4110A1002	230Vac 45VA-Run 13VA- Hold			-		\$1,106.03	
153462	CS7510A2206	24Vac 14VA-Run 5VA-Hold	Modulating ½ - 10Vdc & Floating	20	Drive Open 90s Spring Close 20s	<3m2	2 Aux. Switches	\$1,261.55
153463	CS8120A1205	24Vac 40VA-Run 8VA-Hold	2 position		Drive Open 45s Spring Close 20s		2 Aux. Switches	\$1,081.37
153464	CS4120A1001	230Vac 60VA-Run 13VA- Hold			-		\$1,081.37	
153465	CS7520A2205	24Vac 16VA-Run	Modulating ½ - 10Vdc & Floating		Drive Open 90s Spring Close 20s		2 Aux. Switches Position feedback signal	\$1,293.01



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HVAC Controls

SIEMENS

Siemens

RAA Series Mechanical Room Thermostat



Cat. No.	Model No.	Description	Voltage	Contacts Amps	Switches	Setpoint Range °C	Diff. K	Applications	List Price \$ Exc. GST
145196	RAA11	Heat or Cool Only	24V or 240V	2A SPDT	Tamperproof	8 to 30	1	Heating or Cooling	\$83.06
145197	RAA22				Adj. Setpoint				\$86.49
145198	RAA31				Off/On				\$96.86
145201	RAA41				Off/H/C				\$117.60

RCC Series Electronic Room Thermostat



Cat. No.	Model No.	Description	Voltage	Contacts Amps	Switches	Setpoint Range °C	Diff. K	Applications	List Price \$ Exc. GST
145199	RCC30	T/Stat Elec. S/ Stage On/Off Switch	230V	0.7	On/Off 3 Speed Fan	8 to 30	0.5 to 4	Heating + Cooling	\$231.76

RDG Series Electronic Room Thermostat



Cat. No.	Model No.	Description	Voltage	Contacts Amps	Switches	Setpoint Range °C	Diff. K	Applications	List Price \$ Exc. GST
145200	RDG100	Digital T/Stat with Fan Control	230V	1	On/Off 3 Speed Fan	5 to 40	1 to 2	Heating + Cooling	\$258.38
145202	RDG110								\$252.52

Remote Sensors

Cat. No.	Model No.	Description	List Price \$ Exc. GST
153414	QAH11	Remote Sensor suit RCC/RDF/RDY Controller	\$74.00

RWD Series Electronic Universal Controller



Cat. No.	Model No.	Description	Voltage	Outputs	List Price \$ Exc. GST
153410	RWD34	Digital Heatpump Controller	230 Vac	4 x 24 to 240Vac 4A Max	\$396.46
153411	RWD44		24 Vac	-	\$566.99
153403	RWD82			2 x 24 to 240Vac 4A Max	\$705.73
153404	RWD62			2 x 0 to 10 Vdc 1A Max	\$753.32

Cat. No.	Model No.	Description	Range °C	List Price \$ Exc. GST
153399	QAA25/AP	Room Temperature Setpoint Adjuster	5 to 35	\$264.33
153400	QAA24	Wall mounted temp sensor		\$113.28
153401	QAM2120.040	Duct mounted temp sensor	-30 to 80	\$185.04

Cat. No.	Model No.	Description	Voltage	List Price \$ Exc. GST
153412	SEM62.2	Transformer with on/off switch and fuse	240 - 24 Vac 40 Va	\$162.39

Domestic Air Damper Actuator



Cat. No.	Model No.	Description	Drive Connection	List Price \$ Exc. GST
153422	GSD321.1A	Domestic Damper Actuator 2Nm, 2-Pos, 3 Wire	8-15mm Round 6-11mm Square	\$422.92

Air Damper Actuator



Cat. No.	Model No.	Voltage	Drive Conn: size	Torque Rating	Action	List Price \$ Exc. GST
153405	GDB131.1A	24 Vac	8 to 10mm	5Nm	3 Position	\$364.77
153406	GDB331.E	240 Vac			3 Position	\$388.54
153407	GDB161.1A	24 Vac			Modulating	\$541.86



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HVAC Controls



Dunnair Multifunction Thermostats

Technologically advanced in design and performance, the DAT-770 is the ideal thermostat control for any installation of air conditioning systems.



Features

- Auto season change over
- Heat cool or heat pump (O/B) logic
- High and low balance points
- Keyboard and/or temperature locks
- Programmable occupancy inputs
- Smart fan logic for commercial control
- Outside air temperature display
- Voltage free (clean contact) relays
- Remote temperature sensors available
- Selectable programmable or manual mode
- 0-10v output option for heating or cooling
- Single or 3 speed fan control
- Occupancy sensor inputs
- Adaptive recovery (optimised start)
- PIN protected menus (installer PIN)
- 24v powered with memory backup
- Large backlit display
- Integrated Modbus option



Cat. No.	Model No.	Description	List Price \$ Exc. GST
146250	DAT-770	Multifunction Thermostat	\$335.13

Economy Cycle Modules

Cat. No.	Model No.	Description	List Price \$ Exc. GST
146251	EC-02	Economy Cycle Module	\$934.39



Micro Air MIG- Series

Cat. No.	Model No.	Description	Relay Output	Control Inputs	Analogue Outputs	List Price \$ Exc. GST
145050	MIG-C2	2 Stage Programmable Controller	1 X NO/NC	Resistive 0-10v, 4-20mA, 0-20mA	2 X 0-10V @ 100mA	\$889.08
145052	MIG-C4	4 Stage Programmable Controller	2 X NO/NC			\$941.41
145059	MIG-CT5	4 Stage Programmable Controller with Time Switch	2 X NO/NC & 3 NO			\$1,692.98

Cat. No.	Model No.	Description	List Price \$ Exc. GST
145086	MIG-PS	Plain faced sensor	\$106.03
145082	MIG-RO	Sensor with remote offset	\$117.90
145085	MIG-DS	Duct Sensor	\$194.05



Eberle Room Thermostats

Cat. No.	Part No.	Appl.	Volt.: v	Range °C	Diff.	Neutral Zone	Switches	LED	List Price \$ Exc. GST
145309	RTRE6747	Cool	24 or 240	5 to 30	0.5K	-	-	-	\$144.09
145305	RTRE6722	Cool (or Heat)				-	-	-	\$146.65
145302	KLRE7203	4 Pipe Fan Coil Unit or A/C w/out R/Valve	240			2K	Mains: On-Off Fan: High-Med-Low	-	\$276.01
145303	KLRE7007		24 or 240			-	Mains: On-Off Fan: Continuous- Automatic Heat-Fan-Cool	-	\$221.94
145307	KLRE7603	Heat Pump	240			2K	-	-	\$247.60
145310	KLRE7611					2K	Mains: On-Off	-	\$270.56
145301	KLRE52552HP					0.5 to 8.5K	Mains: On-Off Fan: High-Med-Low	On-Off	\$394.09



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HVAC Controls

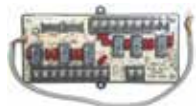


Hanwest HAN-L62 Series



Cat. No.	Part No.	Description		List Price \$ Exc. GST
146226	HAN-L62/PCB-132HP/10	Controller Kit	2 Stage - Heat Pump	\$530.78
146227	HAN-L62/PCB-132EH/10		2 Stage - Cool Only with 2 Stage Element Heat	\$530.78
146228	HAN-L62/WC		Wall Controller Only	\$309.15

Control Upgrade Kits



Cat. No.	Part No.	Description	List Price \$ Exc. GST
146230	HAN-L5 TO HAN-L62	HAN-L5 to HAN-L62 Upgrade Kit	\$500.33

Zone Relay Boards



Cat. No.	Part No.	Description	List Price \$ Exc. GST
146231	PCB-086	6 Zone Relay Board	\$115.89
146236	PCB-086E	6 Zone Relay Board with Enclosure	\$147.86

Outdoor Unit Defrost Controllers



Cat. No.	Part No.	Description	List Price \$ Exc. GST
146232	HDC-203	Outdoor Unit Defrost Controller	\$255.11

Remote Sensors



Cat. No.	Part No.	Description		Cable Length: m	List Price \$ Exc. GST
146233	RSP10005	Remote Sensor	Wall Mount	5	\$64.42
146234	RES-05		Duct Mount		\$38.06
146238	RES-10			10	\$53.08

RSP-100 and the RES series remote sensors are also available in 15, 20, 25 & 30m cable lengths.



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HVAC Controls



Hanwest DES-201 Series

The DES-201 controller is designed for single stage air cooled heat pump reverse cycle applications and is available in two versions, with or without zone control.

Features

- 3 speed indoor fan control
- 1 - 12 hour on delay/off delay
- Temperature selection in 1/2 degree increments
- Indoor coil warm up sensor
- Power relay module mounted in an enclosure
- Optional remote sensors can be connected
- Mode selection consisting of: Fan Only - Cool - Heat - Auto



Cat. No.	Part No.	Description		List Price \$ Exc. GST
146237	DES201S/092HPS-1010E	Controller Kit	Without zone control	\$349.14
146239	DES201Z/092HPZ-1010E		With 2 zone control	\$432.82

WCS-201 Controls

The WCS-201 series is designed for single stage water cooled application such as heat pump reverse cycle or cool only/element heat systems and is available in 2 versions, with or without zones.

Controls



Cat. No.	Part No.	Description	List Price \$ Exc. GST
146240	WCS-201HS	Wall Control Without Zone Control	\$97.87
146241	WCS-201HZ	Wall Control With 2 Zone Control	\$132.46

Relay Boards



Cat. No.	Part No.	Description	Type	Relays: A	List Price \$ Exc. GST
146242	PCB-079EH/S-3025	Relay Board	Cool Only / Element Heat	30 and 25	\$256.17
146243	PCB-079EH/S-3010	Relay Board	Cool Only / Element Heat	30 and 10	\$253.34
146244	PCB-079EH/S-1025	Relay Board	Cool Only / Element Heat	10 and 25	\$256.17
146245	PCB-079EH/S-1010	Relay Board	Cool Only / Element Heat	10 and 10	\$244.21
146246	PCB-079HP/S-3010	Relay Board	Heat Pump Reverse Cycle	30 and 10	\$289.19
146247	PCB-079HP/S-1010	Relay Board	Heat Pump Reverse Cycle	10 and 10	\$280.06

Interface Cables



Cat. No.	Part No.	Description	Length: m	List Price \$ Exc. GST
146248	IC-5/8	Interface Cable	5	\$50.14
146249	IC-10/8	Interface Cable	10	\$58.82



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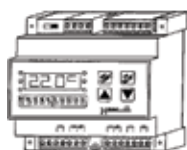
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HVAC Controls

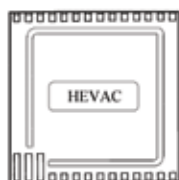


Hevac Digital Series

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HE-DIGITAL



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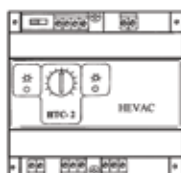
Cat. No.	Part No.	Relays	Outputs	Operating Voltage	Temperature Range °C	Time Clock	List Price \$ Exc. GST
153300	HE-DIGITAL	Five On/Off 2 Amp. (res) 240 Vac	Two Analog 0-10 Vdc Heat - Cool	24 Vac or 240 Vac	8 to 33 in 0-1 increments	-	\$688.97
153301	HE-DIGITAL-TC					2 Channel, 365 Day & Optimiser	\$775.06

Sensors

Cat. No.	Part No.	Description		List Price \$ Exc. GST
153306	HE-SRT-D	Room Sensor	Non Adjustable	\$53.84
153307	HE-SRT-DSP		Adjustable Setpoint	\$75.37
153310	HE-SRTA-D	Averaging Room Sensor	Non Adjustable	\$64.59
153312	HE-SRTA-DSP		Adjustable Setpoint	\$107.66

HTC Series

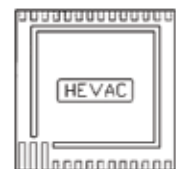
Analog Temperature Controllers



HTC-2

Cat. No.	Part No.	Stages	Relay Outputs	Operating Voltage	Temperature Range °C	List Price \$ Exc. GST
153302	HE-HTC-2	1 Heat / 1 Cool	10 Amp. (res) 240 Vac	24 Vac or 240 Vac	16 to 28	\$312.20
153303	HE-HTC-4	2 Heat / 2 Cool				\$355.25
153299	*HE-HTC-3	1 Heat/1 Cool				\$355.25
153298	*HE-HTC-5	2 Heat/2 Cool				\$398.31

Sensors



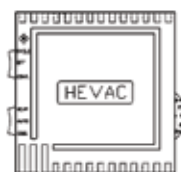
Cat. No.	Part No.	Description		List Price \$ Exc. GST
153308	HE-SRT-H	Room Sensor	Non Adjustable	\$53.84
153309	HE-SRT-HSP		Adjustable	\$75.37
153318	HE-SRTHSPSW		Adjustable with On/Off Switch	\$107.66
153311	HE-SRTA-H	Averaging Room Sensor	Non Adjustable	\$64.59
153319	HE-SDT-H	Duct Sensor		\$96.87
153320	HE-SPA	Remote Setpoint Adjuster		\$86.13

*Have Digital temperature display and fan delay

Surface Mount Enclosure

Cat. No.	Part No.	Description	List Price \$ Exc. GST
153313	LP-HTC-ENCL	Suits Digital and HTC Series Controllers	\$34.99

RTC3 Series Electronic Room Thermostats



RTC3

Cat. No.	Part No.	Outputs	Operating Voltage	Switches		Temperature Range °C	List Price \$ Exc. GST
				Fan	Mode		
153304	HE-RTC3-C	1 Heat/1 Cool with Dead	24 Vac or 240 Vac	Cycle/Off/Cont	Heat/Auto/ Cool	16 to 28	\$193.77
153305	HE-RTC3-V			On/Off/Vent			\$193.77



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Section 1

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HVAC Controls



Regulator TC5044 Control

The TC5044 is a compact pre-programmed stand alone universal controller for the control of temperature, humidity, pressure, flow, CO & CO2 and can replace most other stand alone controllers.



Cat. No.	Part No.	Description	List Price \$ Exc. GST
146219	TC5044	Universal Controller	\$691.79

ET46 Control

The ET46 temperature controller is a direct replacement for the ET45 and is much smaller in size. The controller is housed in a 4 DIN module 70 x 88 x 62 mm enclosure. It comes with its own DIN rail mount or can be mounted on a standard 35mm DIN mounting rail. It has a number of new unique features including a universal power supply which enables the controller to operate on 240 or 24 Vac/dc. The power supply will operate over the range of 18 – 265V AC/DC.



Cat. No.	Part No.	Description	List Price \$ Exc. GST
146220	ET46	Temperature Controller	\$498.09

Remote Sensors - Concealed Adjustment



Cat. No.	Part No.	Description	Temperature Range °C	List Price \$ Exc. GST
146221	TR2100W	Concealed Setpoint Room Sensor		\$110.69
146223	TR2104W	Concealed Setpoint Room Sensor	18 to 28	\$138.36

Remote Sensors - Exposed Adjustment



Cat. No.	Part No.	Description	Temperature Range °C	List Price \$ Exc. GST
146224	TR2114W	Exposed Setpoint Room Sensor	18 to 28	\$166.03
146225	TR2113W	Exposed Setpoint Room Sensor	20 to 25	\$166.03

Smart Sensors

The TR3800 series smart sensors are slim attractive wall mounted temperature sensors with excellent temperature sensing due to a tiny fan that draws air in from the bottom of the housing over the sensor and discharges through the top. The fan is located at the top of the housing and draws air through an inlet plenum. The sensor is located at the bottom of the housing in the inlet plenum. The fan also draws air from the electronics section to remove heat. To average the temperature readings in a large zone up to 4 Smart sensors can be connected to the TC5044 universal controller.

The TR3840 smart sensor has a 2 x 16 character LCD display and four pushbuttons. These are located behind a door with a viewing aperture for the display. The pushbuttons are Raise and Lower for setpoint adjustment, Select pushbutton to enable functions and a System On/Off pushbutton to turn the Air Conditioning System on and off when function Menu 25 or 26 is enabled.



Cat. No.	Part No.	Description	Temperature Range °C	List Price \$ Exc. GST
146218	TR3840	Smart Sensor	10 to 40	\$304.40



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HVAC Controls



Tekelek

Evaporative Cooler Parts

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200 Series

Cat. No.	Part No.	Model No.	Description	List Price \$ Exc. GST
153501	16-1201	TEK285	Variable Speed Wall Switch	\$90.41
153502	502-0005-00-S	TEK287	2 Speed Wall Switch	\$81.34
153503	502-0029-00-S	TEK297	Speed Control Box 240V 9A	\$193.06

400 Series

Cat. No.	Part No.	Model No.	Description	List Price \$ Exc. GST
153511	502-0030-00	TEK400WL	Low Voltage Wiring Loom 20m	\$60.70
153512	502-0014-00-S	TEK467	Low Voltage Speed Control Box 240V 9A	\$288.36
153513	16-1253	TEK485	Wall Control Manual Type	\$91.68

600 Series

Cat. No.	Part No.	Model No.	Description	List Price \$ Exc. GST
153521	502-0026-00S	TEK632	Series 600 Cooler Control	\$400.31



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Section 1

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Oil Pressure Protection Controls

Emerson

Differential Pressure Control

Cat. No.	Part No.	Differential Pressure kPa			Max. Operating Press. kPa	Max. Test Pressure kPa	Pressure Connection	List Price \$ Exc. GST
		Adjustable Cut-out	Factory Setting	Fixed Cut-in Above Cut-out				
150060	FD113-ZU	30 - 450	70	20 Over Off	80 - 1200	-10 & 2300	1/4" Flare M	\$395.11



Danfoss

Type MP55 Differential Pressure Controls

Cat. No.	Type	Part No.	Time Delay Sec	Range LP Side kPa	Differential kPa	Switch Diff. kPa	Pressure Connection	List Price \$ Exc. GST
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For Fluorinated Refrigerants

150067	MP55	60B0171	60	-100 - 1200	30 - 450	20	1/4" Flare M	\$993.27
150068	MP55	60B0172	90					\$993.27

For Ammonia (R717) and Fluorinated Refrigerants

150069	MP55A	60B0175	60	-100 - 1200	30 - 450	20	6.5/10mm Weld Nipple	\$1,115.74
150070	MP55A	60B0176	90					\$1,115.74



Johnson

P28 Series

Cat. No.	Part No.	Time Delay Sec	Heater Circuit Volts	Type of Reset	Range* kPa	Refrig.	Pressure Connection	List Price \$ Exc. GST
150006	P28AA-41	90	120/240 AC	Manual	55 - 483	Non-Corrosive	900mm Cap. with 1/4" Fl. Nut	\$700.35
150004	P28AA-42	60						\$758.52
150051	P28AA-43	120						\$758.52
150055	P28AA-44	45						\$793.80
150008	P28AN-22	90				Ammonia	1/4" FNPT	\$1,174.56

P45 Series

For Copeland Application

Cat. No.	Part No.	Time Delay Seconds	Heater Circuit Volts AC	Type of Reset	Factory Setting*		Refrig.	Pressure Connection	List Price \$ Exc. GST
					kPa	(psig)			
150015	P45NCA-12	120	120/240	Manual	62	(9)	Non-Corrosive	900mm Cap. with Fl. Nut 1/4"	\$624.66



DWM Copeland

The monitoring of the force feed lubrication system with an oil pressure control is compulsory for Discus and S - Series compressors.

Cat. No.	Part No.	Description	Suits Model	List Price \$ Exc. GST
150062	3164918	OPS2 Oil Pressure Switch	All Copeland Semi-Hermetic Compressors with Oil Pumps	\$772.90
150063	3168329	OPS2 Oil Pressure Switch and Sensor Kit		\$611.38



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