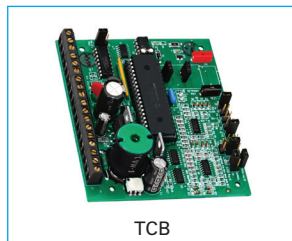




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SYSTEM CONTROLLERS



TCB

TEMPERATURE CONTROL BOARD

In addition to the 0 to 10 volt DC or 4 to 20 milliamps signal usual from PID controllers, the TCB can be configured to modulate a valve in response to a TTL (5 volt) signal, or a 24-120 volt

AC pulse of three to thirty seconds duration. The TCB may be ordered less potentiometer if an external signal (e.g. 4-20ma) is to be used. The board was designed for easy standoff mounting in electrical panels supplied by others, and with screw terminal wiring connections. The TCB has been designed to work with Sporlan SEI/SEH Electric Expansion Valves, CDS Electric Suction Control Valves, and SDR Electric Hot Gas Bypass Valves of any capacity except 2500 step valves such as CDST-4 & CDST-7. Pin jumpers on the face of the board will permit changes in board control parameters to suit particular applications.



Part No.	Description
TCB*	Sporlan Tcb Board W/Potentiometer (952664)
TCBNP*	Sporlan Tcb Board Less Potentiometer (952660)



952570

SUBCOOLER CONTROLLER

- Monitors and controls superheat and subcooling
- Precise EEV control
- 16 different refrigerants
- Multiple selectable sensor and transducer curves



Part No.	Description
952570*	Subcooler controller, all refrigerants



952567

KELVIN II CONTROLLER

This standalone superheat controller may also be connected with a Modbus® master for remote access to pressure and temperature readings in addition to viewing and editing the controller's setpoints. A remote display unit is

optional.

Features:

- Superheat control
- Optional room temperature control
- 4-digit LED display and input knob
- OEM version available without display
- Optional remote display unit
- Optional display networking for 2-valve control



Part No.	Description
952567*	Kelvin controller, with display
952569*	Kelvin controller, less display
952568*	Kelvin Controller, Remote Display Unit
953444*	Kelvin power supply 100-240 VAC/24VDC



PSK233N5EXBS

DIGITAL REFRIGERATION CONTROLLER

Sporlan's PSK Series electronic controllers manage low and medium temperature refrigeration units by controlling compressors, defrost, lights and fans.

PSK221/231

- Single Relay Output
- Medium temperature applications, controlling compressor and off-cycle defrost
- Available in 8A-30A output (1/3HP - 2HP)
- Available with 1-2 inputs
- PSK223/233
- Three Relay Outputs
- Low temperature applications, controlling compressor, evaporator fans, and electric/hot gas defrost
- Available in 8A-30A output (1/3HP - 2HP)
- Available with 2-3 inputs
- PSK214
- Four Relay Outputs
- Offers entire system management by controlling compressor, evaporator fan(s), electric/hot gas defrost, and auxiliary (light, anti-sweat heater, etc.)
- HACCP compliant data logging
- Available with 3-4 inputs
- Real Time Clock (RTC) for added control



Part No.	Description
PSK233N5EXBS*	Digital temperature controller, low temperature, 120V, 1 HP
PSK221N7EXBS*	Digital temperature controller, medium temperature, 230V, 16A
PSK214N9EXBS*	Digital Controller, 115-230V, 4 Relay

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

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IB-G

INTERFACE BOARD

Digits in alternate number indicates number of steps controlled



Part No.	Description
IB-G*	Interface Board, quick response, for SEI/SER/SEH/SEV/ESX, CDS, SDR

ELECTRONIC EXPANSION VALVE



SERC-3X5

ELECTRONIC STEPPER

- Step motor operated for precise control
- High resolution drive assembly
- Solenoid tight seating
- Corrosion resistant materials used throughout
- Field proven reliability
- Low power consumption (less than 4 watts)
- Compatible with HCFC and HFC refrigerants and oils, in addition to subcritical CO
- Self lubricating materials used for long life
- High linear force output
- Operating temperature: -50° to 155°F
- MOPD: 580 Psid (500 for SERIG)
- 2500 steps



Part No.	Configuration	Connection Size (In.)		Overall Height (In.)
		Inlet	Outlet	
SERC-3X5*	Angle	3/8	5/8	6.2
SERIF-7X9*	Angle	7/8	1 1/8	8.56
SERIG-7X9*	Angle	7/8	1 1/8	8.56
SERIJ-7X7*	Angle	7/8	7/8	8.56

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

PARKER - MICRO THERMO TECHNOLOGIES



REFRIGERATION CONTROLLER

Micro Thermo's Refrigeration controllers are designed to interface with any type of refrigeration system. MT controllers are engineered to enhance the operating efficiency of your refrigeration equipment

ensuring accurate control of all temperature and pressure settings. The hardware consists of intelligent boards, referred to as "nodes", that control and monitor all types of refrigeration equipment including compressors, condensers, refrigeration cases, suction groups, defrost refrigeration circuits, secondary coolant systems, subcoolers and anti-sweat and EEPR valves.

- Seamless integration and control of all functions of all types of multi-compressor refrigeration systems
- Monitoring of key parameters to ensure safe operating conditions at all times
- Provides compressor sequencing to avoid unnecessary cycling and stagger runtime for longer life
- Multiple strategies for hot gas, off-time and electric defrost
- Visual point and click defrost scheduling to balance defrost cycles across all circuits
- Provision to easily add additional intelligent nodes as your equipment needs grow, without compromising overall system performance
- Easy to install, operate and maintain with reduced wiring requirements



Part No.	Description
962-500Q	MT500 Refrigeration Controller
962-504P	MT504 Refrigeration Controller
962-508P	MT508 Refrigeration Controller
962-512P	MT512 Refrigeration Controller
961-632F	Compressor Controller
962-634B	Circuit Controller

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Streamline your procurement process with transparent and consistent pricing
- Replacement Parts & Supersedes**
Ensure compatibility and efficiency with the most up-to-date components.



DUAL TEMP ELECTRONIC EVAPORATOR PRESSURE REGULATOR CONTROLLER

The temperature control is based on a direct reading of the air temperature in refrigerated cases. It automatically positions the DT-EEPR valve that throttles the suction on the evaporators. This

throttling action increases the evaporating pressure and/or temperature with respect to the suction manifold pressure. DT-EEPR controlled valves are considerably more precise than mechanical Evaporator Pressure Regulator (EPR) valves, allowing regulation of the average temperature to within $\pm 0.18^\circ\text{F}$ or better.



Part No.	Description
962-636C	Dual Temperature Electronic Evaporator Pressure Regulator Controller



ALARM RELAY BOARD

The MT336A Alarm Relay Board is used by the Micro Thermo system for hardwired alarm notices. Four built-in relays can be independently configured, and used to activate buzzers, lights, or can be connected to a security

panel for 3rd party alarm monitoring. Multiple Alarm Boards can be used together, if additional relays are required.



Part No.	Description
962-336A	Alarm Relay Board



TEMPERATURE SENSOR

Sporlan Temperature Sensors are ideally suited for Kelvin II series, S3C, and legacy controllers. They are available in 2K, 3K, 10K, and 98.6K resistance ratings.

- Kelvin II Superheat, Temperature,

Pressure, Subcool, Secondary Fluid and Chiller Controls

- S3C Case Control
- Cold Room Control
- Temperature Control Board (TCB)
- Legacy controllers such as the Subcool-O-Matic, Two Valve Controllers and similar boards



Part No.	Description
023-0072	Defrost Termination Temperature Sensor
023-0073	Discharge Temperature Sensor, Bullet Type
023-0076	Pipe Temperature Sensor



WALL HUMIDITY TEMPERATURE SENSOR

This probe is designed for relative humidity and temperature measurement of occupied spaces. The relative humidity transmitter uses a capacitive type humidity sensor and a micro processor temperature

compensation for reliable, accurate readings.



Part No.	Description
023-0026	Wall Humidity Temperature Sensor



PRESSURE TRANSDUCER

Sporlan Pressure Transducers are ideally suited for Kelvin II series, S3C, SCS, and legacy controllers. They are available in a variety of pressure ranges. They feature a stainless-steel body and

utilize a Packard connector to achieve an IP67 rating for ingress protection.

- 0.5-4.5V ratiometric signal
- Absolute and Gauge options available
- 0-150, 0-300, 0-500, 0-652, and 0-2000 PSI ranges
- Ingress Protection: IP67
- Kelvin II Superheat, Temperature, Pressure, Subcool, and Chiller Controls
- S3C Case Control
- SCS-PB, SCS-SB
- Cold Room Control
- Legacy controllers such as the Subcool-O-Matic, Two Valve Controllers and similar boards



Part No.	Description
952-0001	Pressure Transducer for Refrigerant 100 psig
952-0004	Pressure Transducer for Refrigerant 200 psig
952-0002	Pressure Transducer for Refrigerant 500 psig
952-0008	Pressure Transducer for CO 652 psig
992572	0-150 Pressure Transducer L/Cable
992574	0-300 Pressure Transducer L/Cable 410A
992576	0-500 Pressure Transducer L/Cable Co2

CONTROLLER



UNIVERSAL XR REPLACEMENT CONTROLLER

The Universal-XR has been developed to allow a refrigeration technician to replace any refrigeration control easily with just three SKU's stocked on their service truck. The Dixell Universal Replacement Controller has three

Voltage options. With the press of a few buttons, the control can be set up to replace Dixell controls, such as: XR10C, XR10CX, XR110C, XR02CX, XR20C, and CX, XR120C, XR03CX, XR30CX, XR04CX, XR40CX, XR06CX, XR60CX, XR160C and other manufacturer's controls.

- Replaces the majority of controls for: Heating, Medium Temp, Low Temp, Defrost, and Fan.
- Quick installation
- Panel: Self-extinguishing ABS



Part No.	Voltage
943029100	120
943029200	230
943029300	12/24



XR75CX DIGITAL CONTROLLER

XR75CX is a microprocessor based controller, suitable for applications on medium or low temperature ventilated refrigeration units. It has 4 relay outputs to control compressor, fan, and defrost, which can be either electrical or

reverse cycle (hot gas) and light (configurable). It can also have up to 4 NTC probe inputs. The first probe is used for temperature control. The second probe is used to control the defrost termination temperature at the evaporator. One of the 2 digital inputs can operate as a third temperature probe. The fourth probe is used to control the condenser temperature (for condenser alarm management) or to display a temperature value. Set the PbC parameter to CtC to support standard CPC temperature sensors (factory default). The RS-485 serial output enables the unit to be connected to a network line that is MODBUS-RTU compatible, such as the monitoring units of XWEB family. The Hot Key receptacle allows the controller to be programmed by means of the Hot Key programming keyboard. The controller is fully configurable through special parameters that can be easily programmed through the keyboard.



Part No.	Description	Voltage
318-6030	XR75CX Controller, 110 volt	110
318-6031	XR75CX Controller, 230V	230



XR75CX CASE DISPLAY I/O

XR75CX-Case Display is a microprocessor based controller, suitable for applications on medium or low temperature ventilated refrigeration units. It has up to 4 analog inputs: discharge air temperature, product temperature,

defrost temperature and coil out temperature, 4 relay outputs, and up to 2 digital inputs. The Case Display displays these temperatures and values on an LED display. It may be networked with an E2 RX controller (software version 3.02 or higher) to share sensor data with a Standard Circuit application that controls the case refrigeration. Because the Case Display requires only a single network cable to communicate with an E2, cases equipped with XR75CX-CDs require significantly less wiring and installation labor than traditional installations (which typically require one cable per sensor run to a centrally located group of input boards). The XR75CX-CD may control 4 external loads directly from its 4 onboard dry-contact relay outputs. The RS-485 serial output enables the unit to be connected to a network line that is MODBUS-RTU compatible.



Part No.	Description
318-6040	XR75 Case Display, 110 VAC
318-6050	XR75 Case Display, 110 VAC
318-6051	XR75 Case Display, 230 VAC



INPUT/OUTPUT BOARD

The MultiFlex line of distributed controllers provides a wide variety of input, output, and smart control solutions, all of which are based on a single universal hardware platform.

- Single universal hardware platform
- Combines inputs and outputs, saving time
- Reduces space requirements for I/O boards by up to 50%
- Mount using either standoffs or "snap track"
- Provides input-output variety



Part No.	Description
810-3006	Relay Output Board, 8 Relay Outputs
810-3013	16 Analog/Digital Inputs Board
810-3062	Multiflex RTU Board
810-3063	Multiflex Board
810-3064	Multiflex Board
810-3065	Multiflex Board
810-3066	Multiflex Board
810-3199	ESR Board

SENSOR



HVAC TEMPERATURE SENSOR

This is a wall mounted space temperature sensor, suited for a wide variety of applications. The temperature sensor has a 10kilo-ohm thermistor.

- Temperature sensor has a 10K

thermistor

- Maintains less than 0.72°F error between -40 and 248°F
- Sensor can be wired to any available point on the 16 AI board
- Includes 2 mounting screws



Part No.	Description
201-1152	Temperature Sensor with Sunshield
201-2007	Wall-Mounted Space Temperature Sensor w/out Slider
809-6590	Wall-Mounted Space Temperature Sensor



REFRIGERATION TEMPERATURE SENSOR

This is a general purpose temperature sensor, suited for a wide variety of applications. The temperature sensor has a 10K thermistor enclosed in a nickel-plated

brass shell with epoxy.



Part No.	Description
501-1125	Coil Inlet Temperature Sensor, 20 Ft
501-1126	Coil Outlet Temperature Sensor, 20 Ft
501-1135	Defrost Termination Temperature Sensor, 10 Ft
501-1127	Defrost Termination Temperature Sensor, 20 Ft
501-1134	Discharge Air Temperature Sensor, 10 Ft
501-1129	Discharge Air Temperature Sensor, 20 Ft
201-1191	High Temperature Sensor, 15 Ft
501-1160	NSF Approved Temperature Sensor, 20 Ft
501-1161	NSF Approved Temperature Sensor, 20 Ft
501-1128	Return Air Temperature Sensor, 20 Ft
501-1121	Temperature Sensor, 10 Ft Pigtail
501-1122	Temperature Sensor, 20 Ft Pigtail

CO₂, DEWPOINT AND HUMIDITY SENSOR

Part No.	Description
203-5751	Wall Mounted Relative Humidity Sensor
203-5754	Outdoor Relative Humidity Sensor
210-2000	Indoor CO Sensor
510-2001	Indoor CO Sensor



LIGHT LEVEL SENSOR

These light level sensors provide the controller with information that allows the controller to switch light ON or OFF.



Part No.	Description
206-0002	Outdoor Light Level Sensor
206-0009	Skylight Level Sensor



TEMPERATURE PROBE

Temperature sensor are designed for measuring the air temperature for various applications. The 10K thermistor is enclosed and has been tested to maintain less than 0.72°F

error between -40°F and 248°F.



Part No.	Description	Use with
201-2004	Immersion Temperature Sensor	Measures Temp. Inside Small Diameter Duct Work
201-2008	Insertion Temperature Sensor	HVAC Duct and Walk-In Evaporator
201-2112	Insertion Temperature Sensor	HVAC Duct and Walk-In Evaporator
501-6150	Temperature Probe	Temperature Measurement for Walk-In Evaporator, Typically Used In Convenience Stores

SENSOR



275-0145

LEAK DETECTION SYSTEM ACCESSORIES

The RLDS is designed for easy installation and maintenance. These parts are all made for servicing the various units.



Part No.	Description
275-0145	End of Line Filter Kit
275-0232	Internal Water Stop Filter
275-0259	Universal Power Supply
275-0275	Charcoal Filter Assembly
275-0315	End of Line Filter
275-0345	In-Line Filter
275-0600	Annual Maintenance Kit w/Filters
275-0234	In-Line Water Trap
275-0235	In-Line Water Trap Filter Element



809-1000

MODULAR REFRIGERANT LEAK DETECTION SENSOR

Continuously monitors for low levels of refrigerants most commonly used in commercial refrigeration systems. The MRLDS communicates with the E2 controller via a Gateway board connected to the RS485 I/O

Network, or via the analog input on a MultiFlex board.

- Range: 0 to 1000 ppm
- Operating Temp: 32 to 149°F (-22 to 149°F with de-icer)
- Power requirements: 24 VAC, ±20%, 50/60 Hz, Class 2



Part No.	Description
809-1000	Modular Refrigerant Leak Detection Sensor without de-icer
809-1010	Modular Refrigerant Leak Detection Sensor without de-icer
809-1011 ¹	Modular Refrigerant Leak Detection Sensor with de-icer

¹ De-icer for environments below 32°F to keep ice from forming on the surface of enclosure

PRESSURE TRANSDUCER



800-2100

PRESSURE TRANSDUCER

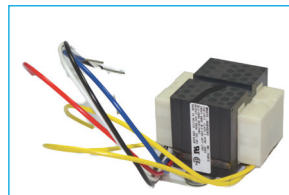
The family of pressure transducers has a stainless steel housing and is available with Male 1/8-27 NPT fitting or Female 7/16-20 UNF-2B with Schrader Deflator fitting.

The rugged design makes the transducer compatible with all HFC/HCFC refrigerants, water, glycol, CO₂, and ammonia. The sensor includes a 20' cable with a weather-proof Packard Electric Metri-Pack Series connector to allow for ease of sensor replacement. The sensor is available in six pressure ranges.



Part No.	Description	Pressure Range (psi)
800-2100	Pressure Transducer	0 to 100
800-2200	Pressure Transducer	0 to 200
800-2500	Pressure Transducer	0 to 500
800-2650	Pressure Transducer	0 to 650

TRANSFORMER



640-0040

TRANSFORMER



Part No.	Description
640-0040	Transformer, 50 VA
640-0080	Transformer, 80 VA
640-0045	Transformer, 100 VA
640-0056	Transformer, 56 VA

ADAP-KOOL®



080Z0007

I/O COMMUNICATION AND EXTENSION MODULES

Input/Output (I/O) expansion modules are used in applications requiring more connections than featured on a given control: up to nine extension modules may communicate through each

communication module. I/O modules require a communication module to communicate with frontend system managers.

ENGINEERING
TOMORROW



Part No.	Description
080Z0007	Extension Module, AK2-XM 101A, 8 Analog Inputs
080Z0008	Extension Module, AK2-XM 101A, 8 Digital Inputs
080Z0013	Extension Module, AK2-XM 101B, 8 Digital Inputs
080Z0011	Extension Module, AK2-XM 204A, 8 Digital Outputs
080Z0018	Extension Module, AK2-XM 204B, 8 Digital Outputs
080Z0010	Extension Module, AK2-XM 205A, 8 Analog Inputs, 8 Digital Outputs
080Z0017	Extension Module, AK2-XM 205B, 8 Analog Inputs, 8 Digital Outputs
080Z0022	Extension Module, AK2-XM 208B
080Z0061	Communications Module, AK2-CM 101A, Lonworks TP78
080Z0063	Communications Module, AK2-CM 101C
080Z0290	Din Rail, AK2 Modules
080Z0032	Extension Module, AK-XM 103A, 4 Analog Inputs, 4 Analog Outputs
080Z0023	Extension Module, AK-XM 208C, 8 Analog Inputs, 4 Stepper Out



DRMON-1

DOOR MONITOR SWITCH ASSEMBLY

Magnetic contact switch that provides a signal to your Danfoss environment control system to ensure that the doors on refrigerated walk-in boxes are properly closed when not in use. Typically set to alarm in the closed

position, indicating that a door has been left open.

Compatible with all Danfoss AK255 controllers as well as legacy controllers (AKC55, NC-25)

ENGINEERING
TOMORROW



Part No.	Description
DRMON-1	Magnetic Contact Switch: 120 VAC, N.O.



060G3990

PRESSURE TRANSDUCER

- Used with Adap-Kool® control systems
- Compact design pressure transmitter
- Piezoresistive sensing element
- Resistant against vibrations, pressure pulsations, humidity and

ice formation

- Maximum test pressure: 800 psi

ENGINEERING
TOMORROW



Part No.	Pressure Range (psi)	Connection Size (In.)
060G3990	0 to 200	1/8
060G3991	0 to 500	1/8



084B8520

EKC/AK2 CONTROLLER

All of the controls below control anti-sweat heaters, fan operation, lighting door alarms, case cleaning, dual temperature control, and provide alarm

ENGINEERING
TOMORROW



notification.

Part No.	Description	Voltage
084B8520	AK-CC 210 Controller (10 output configs)	210
084B8521	EKC 202A Controller (Ref/Def or Alarm)	220
084B8522	EKC 202B Controller (Ref/Def/Fan)	220
084B8534	EKC 204A Controller (10 output configuration)	115



080Z2161

EKC/AK2 CONTROLLER ACCESSORIES

ENGINEERING
TOMORROW



Part No.	Description
080Z2161	AK-CC 750 Custom I/O Panel
084B8564	EKA 178 Modbus Module
084B8565	Data Com Module, EKA-179, LON to RS485, requires 084B2254
084B8670	EKA Remote Display (Green Display)
60-274	Bracket, Metal for EKC

ADAP-KOOL®



080Z2117

HVAC CONTROLLER

RTC to AK2 board conversion kit. Converts obsolete RTC board to AK2 IO modules. Includes: Documentation, Power supply, Wire

ENGINEERING
TOMORROW



Part No.	Description
080Z2117	AK IO - Rooftop kit



084N0005

SURFACE AND DUCT SENSOR, AKS 11

- Temperature range: -58 to +212°F
- PT 1000 ? sensor

ENGINEERING
TOMORROW



Part No.	Type	Temperature (°F)	Resistance (Ohm)	Lead Length
084N0005	AKS 11	-58 to 212	1000	5.50'
084N0008	AKS 11	-58 to 212	1000	8.50'
084N0029	AKS 11	-58 to 212	1000	27.5'

SENSOR



060G1890

PRESSURE SENSOR

AKS 32 and AKS 33 pressure transmitters measure and convert pressures to a standard signal (1 to 5 V DC for AKS 32 and 4 to 20 mA for AKS 33). AKS 32R and AKS 2050 ratiometric pressure

transmitters measure and convert pressure to a linear output signal (the minimum value of the output signal is 10% of the actual supply voltage and the maximum value is 90% of the actual supply voltage). AKS 2050 pressure transmitters are designed specifically for CO2 pressure ranges.

ENGINEERING
TOMORROW



Part No.	Description
060G1890	Pressure Transmitter, AKS 32, 0-500 PSI
060G1034	Plug Connector with 5 Meter Cable
060G1037	Pressure Transmitter, AKS 32R



084N3016

TEMPERATURE SENSOR

ENGINEERING
TOMORROW



Part No.	Description
084N3016	Temperature Sensor, MBT 153
080Z2186	Air Supply Duct Probe Sensor
080Z2185	Box Temperature Probe Assembly
080Z2187	Zone Temperature Sensor, Indoor
AKC0TC	Condenser Air probe
CTPKIT	Com-Trol and CPC Temperature Sensor Resistor Kit
TP1KIT	AK-2 Pullup Kit

HUMIDITY SENSOR AND LIGHT LEVEL SENSOR



080Z2171

ENGINEERING
TOMORROW



Part No.	Description
080Z2171	Humidity with Temperature Sensor, Indoor
080Z2172	Photocell with Temperature Sensor, Outdoor

Supermarket & C-Store Refrigeration Controls

CONTROLLER



IJWPSA2B02S0519

IJW PANEL MOUNT CONTROLLER

Designed for both field replacements and new installations, simple to use thanks to native BLUETOOTH and NFC connectivity. Installers can use their smartphone with APPLICA for

configuration, testing and maintenance of the controller, while the end users can optimise everyday tasks (such as recording HACCP data) with CONTROLLA.

- Controllers with 2, 4 or 6 relays
- Small and Large format
- Compatibility with NTC, PTC, PT1000 probes
- Humidity measurement and management (optional)
- RS485 or TTL port for connection to supervisory system
- Modbus or CAREL protocol.

CAREL

Part No.	Description
IJWPSA2B02S0519	Small 2 Relay Bluetooth Controller
IJWPSA4B02S0523	Small 4 Relay Bluetooth Controller



IR33V7LR20

IR33 UNIVERSAL CONTROL

The ir33 Universal controller lets you manage several values at the same time, including temperature, humidity, pressure, CO, VOC... Suitable for temperature control in HVAC/R applications and/or generic applications that require

the use of a thermostat in the range -58 to 302°F. ir33 universal is an advanced controller that includes all the features already available in the ir32, adding some new sophisticated functions.

- 9 pre-set control modes
- Two independent control loops
- Selectable NTC, PTC or PT1000 sensor input options
- 1, 2 or 4 outputs relay or SSR drive outputs
- Infrared remote control and external key programming options
- RS485 serial link for monitoring and programming
- IP65 water and dust protection
- Management of the clock
- Working cycles
- Programmable advanced control options
- The large display, complete with icons, makes it easy to set the parameters.
- Available with 12 to 24 Vac/ 12 to 30 Vdc, 24 Vac/dc or 115 to 230 Vac power supply

CAREL

Part No.	Description	Voltage
IR33V7LR20	ir33 universal controller, 1 relay	12-24
IR33W7LR20	ir33 universal controller, 2 relays	12-24



IREVC0HC00

IR33+ REFRIGERATION CONTROL

Inherits and extends all the features of ir33

- Touch keypad
- Completely flat surface
- Larger display
- Intuitive user interface
- Modbus® and CAREL protocols
- Mechanical, electrical and functional compatibility with ir33

CAREL

Part No.	Description	Voltage
IREVC0HC00	ir33+ controller	115-230



PJEZS0G000

EASY SERIES REFRIGERATION CONTROL

The Easy Series is designed specifically for refrigeration control in bar, catering, display cabinet and refrigerated showcase applications, designed directly based on requirements "from the field", with an elegant and modern

design. Easy simplifies the initial configuration phase of the unit and features new technology for creating special models with custom functions.

- Easy programming of the parameters, with 4 predefined sets of parameters available
- Easy installation using the front mounting system
- Easy wiring, thanks to the built-in transformer and the relays with power rating up to 2 HP
- Easy to identify the best solution, thanks to the vast range of models available
- Easy to read, high efficiency display and digits that are 27% larger than traditional displays
- PJEZS, designed for the management of static refrigerating units, no fan on the evaporator, operating at temperatures above 32°F
- PJEZC, designed for the management of low temperature ventilated refrigerating units

CAREL

Part No.	Description	Voltage
PJEZS0G000	Easy powerline controller Red Display	230
PJEZS0G100	Easy powerline controller Red Display	115
PJEZS0H100*	Easy powerline controller Red Display	115
PJEZC0M100	Easy powerline controller Red Display	115-230
PJEZSNH100	Easy compact controller Red Display	115

CONTROLLER



MX30M21H00

MPXPRO REFRIGERATION CONTROL

The MPXPRO platform has been designed for the complete control of multiplexed showcases, with special focus not only on energy performance and flexibility but also on simplicity of use and installation. The device can

independently control a refrigeration unit using a wide range of probes, digital or analogue inputs and outputs specially designed and sized for the specific functions. In addition, it is fitted with a clock (RTC) for the synchronisation of the events in the tLAN and features connection to the supervisor network (RS485).

CAREL

Part No.	Description
MX30M21H00	MPXPRO Controller
MX30M25H00	MPXPRO Controller



MXOPZKEYA0

CONTROLLER ACCESSORIES

Accessories for the ir33, Easy Series and MPXPRO controllers

CAREL

Part No.	Description
MXOPZKEYA0	MPXPRO programming key
IR00UGC300	MPXPRO user terminal
IR00XG6300	MPXPRO user terminal
IROPZKEYA0	ir33 programming key
IROPZ48500	Serial Card
PSTCON05B0	Connector for Remote Display

SENSOR



NTC060HF01

NTC TEMPERATURE SENSOR

The Carel temperature probes are resistive transducers, that connected to a programmable or a parametric controller, allow the temperature to be controlled. These are used in

HVAC-R applications and represent a complete range capable of satisfying a variety of needs in different installations. The probes are made using materials that guarantee reliability over time. The range includes various models suitable to be used for several application fields.

CAREL

Part No.	Description	Temperature (°F)	Length (Ft.)
NTC060HF01	NTC HT Sensor	-58 to 194	20.0
NTC030HP00	NTC HT Sensor	-58 to 221 (122 in water)	10.0
NTC060HP00	NTC HP Sensor	-58 to 221 (122 in water)	20.0
NTC015WH0S	NTC WH Sensor	-58 to 221	4.5
NTC030WH0S	NTC WH Sensor	-58 to 221	9.0
NTC060WH0S	NTC WH Sensor	-58 to 221	18.0
NTC060WF0S	NTC WF Sensor Fast Response	-58 to 221	20.0



SPKT0021C0

4 TO 20 PRESSURE SENSOR

These pressure transducers are used above all in refrigeration and air-conditioning applications to measure the pressure in the refrigerant circuits, however their high performance also makes them ideal for many other applications.

They can also be used in refrigerant circuits containing ammonia.

- Steel 1/4" SAE female fitting with deflector, 7/16" - 20 UNF, PACKARD connector
- 4 - 20 mA current range

Part No.	Description	Pressure Range (psi)
SPKT0021C0	Pressure sensor, 4-20 mA	0 to 100
SPKT0031C0	Pressure sensor, 4-20 mA	0 to 435
SPKT00B1C0	Pressure sensor, 4-20 mA	0 to 650
SPKT00B1D0	Pressure sensor, 4-20 mA	0 to 650



0 TO 5 V RATIOMETRIC PRESSURE SENSOR

The SPKC series pressure sensor cables are flexible and feature a PVC insulating sheath with a wide temperature range (from -20°C up to 105°C). These are ideal for use as static internal

wiring in electronic equipment. The cables are available in various lengths, in versions with IP55 - IP67 - IP69K Packard connectors. They are used to connect the entire range of Carel SPKT* series pressure sensors (ratiometric and 4-20 mA



Part No.	Description	Pressure Range (psi)
SPKT0031S0	Pressure sensor, 0 - 5 Vdc	0 to 500
SPKT00B1S0	Pressure sensor, 0 - 5 Vdc	0 to 650
SPKC002310	Packard Cable and Connector	N/A
SPKC005310	Packard Cable and Connector	N/A



PTC TEMPERATURE SENSOR

The Carel temperature probes are resistive transducers, that connected to a programmable or a parametric controller, allow the temperature to be controlled. These are used in

HVAC-R applications and represent a complete range capable of satisfying a variety of needs in different installations. The probes are made using materials that guarantee reliability over time. The range includes various models suitable to be used for several application fields.



Part No.	Description	Temperature (°F)	Length (Ft.)
PT1060HF01	PT1000 Suction Temperature Probe for Superheat	-58 to 212	20.0
PT1060HP01	PT1000 Suction Temperature Probe	-58 to 212	10.0
PT1060HT01	PTC HT Temperature Sensor	-58 to 302	20.0
PT1060WP01	PTC WP Temperature Sensor	-58 to 212	20.0



ACTIVE WALL MOUNTING SENSOR

Particularly suitable for civil and commercial environments with precise design requirements. Used in ducted heating and air conditioning systems. The range also includes models with RS485 connection using the CAREL or

Modbus® protocol.

- Temperature Range: 14 to 140°F
- Humidity (Non-Condensing): 10 to 90% RH
- Power Input (DC): 8 - 32 V
- Power Input (AC): 12 - 24 V
- Output: Serial RS485 Opto-isolated



Part No.	Description
DPWC114000	Active Wall Mounting Sensor

ELECTRONIC EXPANSION VALVE



ELECTRONIC EXPANSION VALVE, E2V SMART



Part No.	Description	Connection Size (In.)
E2V05BWB00	E2V Electronic Expansion Valve, Size 5	3/8 - 1/2 ODF



ELECTRONIC EXPANSION VALVE, HIGH PRESSURE, E3V



Part No.	Description	Connection Size (In.)
E3V30CWM00	E3V Electronic Expansion Valve, Steel, high pressure, Size 30	5/8 - 5/8 Steel
E3V35CWM00	E3V Electronic Expansion Valve, Steel, high pressure, Size 35	5/8 - 5/8 Steel
E3V45CWM00	E3V Electronic Expansion Valve, Steel, high pressure, Size 45	5/8 - 5/8 Steel
E3V65CWR00	E3V Electronic Expansion Valve, Steel, high pressure, Size 65	7/8 - 7/8 Steel

ELECTRONIC EXPANSION VALVE



ELECTRONIC EXPANSION VALVE, E4V SMART

E4V95BWT00

CAREL

Part No.	Description	Connection Size (In.)
E4V95BWT00	E4V Electronic Expansion Valve, with Sight Glass, Size 95	1 1/8 - 1 3/8 Integral Screw



E2VCABS300

CAREL

Part No.	Description
E2VCABS300	EEV connector and shielded cable
E2VCABS600	EEV connector and shielded cable
EEVMAG0000	Tool for manual driving of EEV stepper valve
E2VMAG0000	Tool for manual driving of EEV valve

E2V ACCESSORIES

DRIVER FOR ELECTRONIC EXPANSION VALVE, E2V



EVD0000E50

The new EVD evolution driver has been enhanced with advanced functions and a new user interface that makes it even easier to use and configure:

- Superheat control with auxiliary high pressure, low pressure and low superheat protection
- New battery module
- Twin version to control two valves
- Self-adaptive algorithm
- Algorithm for Digital Scroll applications
- Connection diagram visible on the display
- Removable multi-language graphic display, with "help" on the parameters
- Multiple units of measure (metric or Imperial)

CAREL

Part No.	Description
EVD0000E50	EVD EVO (RS485/ModBUS)
EVD0000T20	EVD EVO (RS485/ModBUS) Twin
EVD0000T50	EVD EVO (RS485/ModBUS) Twin
EVDIS00EN0	EVD EVO Display - English

ULTRACAP MODULE FOR EVD EVO



EVD0000UC0

An optional external backup device for the EVDEvo used to close the valves in the event of mains power failures. The module guarantees temporary power to the EVDEvo (single or twin) in the event of power failures, for

enough time to immediately close the connected electronic valves (one or two).

CAREL

Part No.	Description
EVD0000UC0	Optional external backup device for the EVDEvo

E2V DRIVER KIT



EVDKJE332A

Carel ExV kits include standard components typically ordered with a valve for convenience. Kits Include a Carel Valve driver, Valve Cable, Display, Pressure Sensor, Connection Cable and NTC Sensor

CAREL

Part No.	Description	Use with
EVDKJE332A	E2V Twin Valve Driver Kit	Universal Valve -15-135 psi

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CONTROLLER

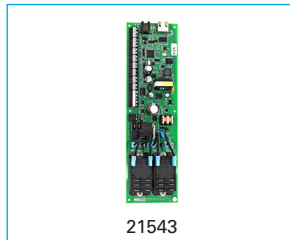


KE2 TEMP + AIR DEFROST

21322



Part No.	Description
21322	KE2 TEMP CONTROL PLUS DEFROST 10FT TEMP SENSOR with Air Defrost Kit



CONDENSER FAN CONTROL

The KE2 Condenser Fan Control allows control of up to 14 fans on one or two separate interlaced circuits sharing a common condenser. Fans can be fixed speed ECM, PSC, or variable

speed ECM. The onboard 0-10Vdc output can be used for controlling ECM fan speed, or to a VFD for standard three-phase fan motors. The controller will manage the fans to one of five control modes: fixed head pressure, subcooling, saturation temp to ambient air temp differential, condenser liquid temp to ambient air temp differential, or condenser inlet temp to condenser outlet temp differential for each circuit.



Part No.	Description
21543	Condenser Fan Control
21387	Basic Display with 5FT Cable
20712	Pressure Transducer 0 To 500 Psig 40' Lead
20199	Temperature Sensor, NTC, 10ft
20200	Temperature Sensor, NTC, 40ft
21374	Replacement for the KE2 Evap OEM LLS relay, as well as relays 1 & 2 on the KE2 Condenser Fan Control / KE2 Comp. Seq. OEM.



21066

EVAPORATOR EFFICIENCY

Energy saving controller for low & medium temp refrigeration applications with built-in remote monitoring & diagnostics capability. For new or existing equipment. Serves the

function of multiple components: replaces thermostat, fan delay, defrost time clock & termination device. Able to drive an electric expansion valve (EEV) for increased energy efficiency, temperature control, and monitoring, however, works with mechanical TEV as well. Includes unique energy saving demand defrost algorithm based on the efficiency of the evaporator, third party verified to provide 20%+ energy savings.



Part No.	Description
21066	Temperature Sensor, 3-pack. yellow, green blue 40 ft lead
20201KE2	Pressure Transducer, 0-150 psia, 10ft lead
20204	Pressure Transducer, 0-150 psia, 40ft lead
20844	Evaporator efficiency controller Kit
21151	



20185

ETHERNET CABLE

Commercial /industrial temperature range CAT5e Shielded Ethernet cable. Shielding helps prevent noise interference with communications, while the expanded temperature range

rating keeps the cable from becoming rigid and damaged over time.



Part No.	Description
20185	Cat5e Shielded Ethernet Cable with connectors, 50ft



22041

SERVICE TOOL APP

Access controller webpages with your smart device, even if they are not internet connected. Simply connect to the same network as the controller; the app will then quickly discover and display

all KE2Therm controllers on the network & any wireless sensors in range. Or, use the KE2 Service Tool App Kit to plug your smart device directly into a single controller.



Part No.	Description
22041	Service Tool App Kit Apple-Lightning
22042KE2	Service Tool App Kit (Android/Apple-Usb-C)

CONTROLLER



KE2 CONTROLLED ENVIRONMENT

The KE2 Controlled Environment manages the temperature and humidity of sensitive product inventory. By maintaining both temperature and humidity, the KE2 Controlled Environment preserves product integrity, reduces spoilage

and prevents shrinkage. Temperature is maintained precisely, providing the ideal product environment for the application. In addition to food storage for vegetables, fruits, and meats, the KE2 Controlled Environment is ideal for conditioned spaces such as ripening rooms, clean rooms, document storage, meat curing rooms, tobacco storage, wine and more.



Part No.	Description
20894	KE2 Controlled environment temperature and humidity controller



KE2 TEMP + VALVE CONTROL

Like the KE2 Temp, the KE2 Temp + Valve Control replaces a thermostat and a defrost time clock in air defrost applications, simplifying your installation. In addition, the KE2 Temp + Valve drives an electronic expansion

valve, electronic evaporator pressure regulating valve or an electronic hot gas bypass valve.



Part No.	Description	Connection Size (In)	Lead Length (ft)
21301	KE2 Temperature + Valve Control Kit	3/8 x 1/2	10
21744	KE2 Temperature + Valve Control Retrofit kit	3/8 x 1/2	10
21745	KE2 Temperature + Valve Control Retrofit kit	3/8 x 1/2	10
21393	KE2 Temperature + Valve Control	3/8 x 1/2	10



22051KE2

EVAPORATOR EFFICIENCY CONTROLLER

The KE2 Evap Supermarket Retrofit kit (21096KE2) is a complete package for upgrading walk-ins, and refrigerated rooms, to improve the operating environment. It is proven to reduce or eliminate icing issues, provides remote monitoring

and control, and is third party verified as an energy saving controller. The kit includes: Evap controller (20178), mounting box (20687), wire harness (20687), Ethernet adaptor kit (20938) and door switch (20543).



Part No.	Description
22051KE2	Replacement Apple Lightning Dongle
22052	Replacement Android/Apple Usb-C Dongle
20178	Evaporator efficiency controller
20687	Mounting Box
20736	Wire Harness
20938	Ethernet Adapter Kit



20611KE2

TEMPERATURE CONTROL + DEFROST

The KE2 Temp's robust design provides versatility to a wide range of medium and low temperature applications. When applied to medium temperature applications of 37°F and higher, the built-in defrost clock may be used to

perform time-initiated and time-terminated defrost cycles. The controller's single-pole-double-throw relay controls the refrigeration and defrost cycles. To eliminate unnecessary service calls, the KE2 Temp + Defrost alerts the user when it is coming out of a defrost cycle using the onboard display. The space temperature sensor is supplied with a 10 ft. lead, and functions to control the space temperature of the room.

- Thermostat
- Off time defrost on schedule or custom defrost
- Compressor protection - maximum starts per hour
- Manual defrost
- 1st defrost 2 hours after start-up
- Visual alarming: high temp/low temp/Sensor
- Input voltage: 120 V / 208-240 V
- Includes: relay for solenoid / compressor, 3 digit 7-segment display, 4-button user interface, modbus terminals



Part No.	Description
20611KE2	KE2 Temp + (Air) Defrost
21806	Replacement display



20903

LOW TEMPERATURE CONTROL + DEFROST

The controller is unique for its ability to control both temperature and defrost, providing your customers with precision setpoint and temperature measurement to a tenth of a degree. Able to

incorporate advanced controls such as configurable digital inputs. This allows users to attach door switches and other accessories to the controller.

Features:

- Energy saving fan cycling - Title 24 compliant
- Regulates the amount of defrost heat to prevent steaming
- Optional Door Switch with all the necessary time delays
- Off time or electric defrost on pre-defined schedule or custom defrost interval
- Compressor protection - Maximum starts per hour
- Visual and Audible Alarming - High temp/Low temp/Sensors/Door/Power Failure
- Service Call Saver - Post Defrost Indicator
- Manual defrost
- 1st defrost 2 hrs after start up



Part No.	Description
20903	KE2 low temperature plus defrost controller



21177

ADAPTIVE CONTROL WITH DEMAND DEFROST

- Combines functions of a thermostat and defrost timeclock
- Energy saving adaptive, demand defrost
- Energy saving fan cycling per Title 24
- Eliminates complexity -

simplifying wiring and programming

- Digital thermostat displays to a 1/10th of a degree
- Regulates the amount of defrost heat to reduce steaming
- Service Call Saver - Post Defrost Indicator
- Optional Door Switch with all the necessary time delays
- Off time or electric defrost on pre-defined schedule or custom defrost interval
- Compressor protection - Maximum starts per hour
- Manual defrost



Part No.	Description
21177	Adaptive Control with Demand Defrost



21162

REFRIGERATION STEPPER VALVE

The KE2 Therm RSV electric expansion valve is a stepper motor actuated valve, designed for refrigeration applications. The RSV uses a unipolar stepper motor that provides high precision control.

Upgrading a system with an RSV

will increase system efficiency and provide the best, most consistent superheat control, and eliminate the headache of adjusting superheat.

- High precision bi-directional control
- 4-phase, 8-beat, 20 pole unipolar stepper motor
- Neodymium-iron-boron magnet rotor
- 500 steps for high resolution control
- 30 to 90 per second step rate
- External, replaceable coil



Part No.	Description	Connection Size (In)	Lead Length (ft)
21161	Refrigeration Stepper Valve RSV-130	3/8 - 1/2 ODF	10
21162	Refrigeration Stepper Valve RSV-130	3/8 - 1/2 ODF	40
21163	Refrigeration Stepper Valve RSV-220	3/8 - 1/2 ODF	10
21164	Refrigeration Stepper Valve RSV-220	3/8 - 1/2 ODF	40
21165	Refrigeration Stepper Valve RSV-320	3/8 - 1/2 ODF	10
21529	Refrigeration Stepper Valve RSV-400	5/8 x 7/8 ODF	15
21594	Refrigeration Stepper Valve RSV-550	5/8 x 7/8 ODF	15
21779	Refrigeration Stepper Valve RSV-650	5/8 x 7/8 ODF	15
21149	RSV-C10 Stator replacement for RSV-100 to 320	3/8 x 1/2	10
21525	RSV-LC15 Stator replacement for RSV-400 to 650	5/8 x 7/8	15

HUSSMANN



3176660

FAN ASSEMBLY

Fan motor, blade and mounting support brackets (where applicable) assembled to save you time and headaches transferring from old motor.

HUSSMANN®

Part No.	Description
3176660	Ecm Motor Blade And Bracket Assy 8" 120V 650 Rpm Cw Rotation
3176662	Ecm Motor Blade And Bracket Assy 8" 120V 850 Rpm Cw Rotation
3176663	Ecm Motor Blade And Bracket Assy 8" 120V 1020 Rpm Cw Rotation
3176664	Ecm Motor Blade And Bracket Assy 8" 120V 1210 Rpm Cw Rotation
3176665	Ecm Motor Blade And Bracket Assy 8" 120V 1510 Rpm Cw Rotation
3176666	Ecm Motor Blade And Bracket Assy 8" 120V 1610 Rpm Cw Rotation
3176667	Ecm Motor Blade And Bracket Assy 8" 120V 1810 Rpm Cw Rotation



0047000

MOTOR

Easily replace failing motors with Hussmann OEM motors that include:

- OEM harness compatible plugs to eliminate wiring headaches
- Bolt hole alignments matching OEM specifications to ensure

product fit and trouble free installs

HUSSMANN®

Part No.	Description
0047000*	ECM Fan Motor, 12 Watt
11513*	Motor 1/4 HP



0342598

RELAY

Hussmann OEM components are carefully designed, engineered, manufactured and tested to perform to the precise operating requirements for each Hussmann model.

HUSSMANN®

Part No.	Description
0342598*	SPDT Relay
0342599*	SPST Relay



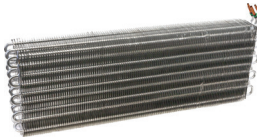
0315470

FAN BLADE

OEM blades are engineered and tested to provide optimal air flow for peak case performance

HUSSMANN®

Part No.	Description
0315470*	Fan Blade 8 CW 36 PLASTIC
0461805*	Fan Blade 8.25 CW GAL 25



0386951

EVAPORATOR COIL

HUSSMANN®

Part No.	Description
0386951*	Heatcraft Coil 30 Pass - 5
0498770*	COIL 36P 2C 3FPI X 42.5
0498772*	COIL 44P 2C 3FPI X 42.5
0498774*	COIL 52P 2C 3FPI X 42.5
0498777*	COIL 60P 2C 3FPI X 42.5
0498780*	COIL 60P 2C 4.5FPI X 42.5
0498784*	COIL 20P 1C 3FPI X 42.5 COATED A
0498782*	COIL 24P 1C 3FPI X 42.5 COATED



*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



0461814

THERMOSTAT

Hussmann OEM components are carefully designed, engineered, manufactured and tested to perform to the precise operating requirements for each Hussmann model.

HUSSMANN®

Part No.	Description
0461814*	Disc Type Thermostat
0338130*	Disc Type Thermostat
0474033*	Defrost Termination Thermostat
0344662*	Heater Limit Thermostat
0469138	2" Thermostat Dial
3180523	Drain Pan Heater Safety Klixon W/ Connectory
3180700	Analog 2" Round White W/ Mounting Bracket 24" Capillary



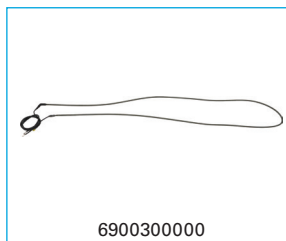
0403867

THERMOSTATIC EXPANSION VALVE

Hussmann valves are manufactured and tested to keep the equipment running like new.

HUSSMANN®

Part No.	Description
0403867*	Thermostatic Expansion Valve



6900300000

HEATER

Hussmann defrost and drain pan perform to precise OEM operating specifications for each Hussmann model. Each is designed to fit correctly with color coded wires and correct length wires for straightforward uncomplicated

HUSSMANN®

installation.

Part No.	Description
6900300000*	Coil Heater, 265 Volt
19S681*	Defrost Heater, 208 Volt
0387037*	Drain Pan Heater, 3 Door
0387038*	Drain Pan Heater, 4 Door
0387039*	Drain Pan Heater, 5 Door
0322013*	Condensate Pan Heater, 230 Volt
0486046*	Heater Drip, 208 Volt
0487482*	Coil Heater, 208 Volt
1802355*	Frame Heater, 120 Volt
1802356*	Frame Heater, 120 Volt
0428604*	Frame Heater, 120 Volt



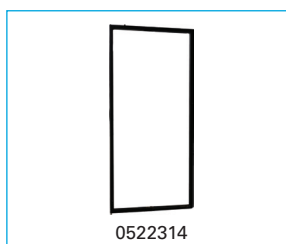
0539829

BALLAST AND POWER SUPPLY

OEM ballast and power supplies fit cases correctly with color coded wiring and plugs (where applicable) for quicker installation and reduced labor costs.

HUSSMANN®

Part No.	Description
0539829*	T8 Ballast 3 Lamp 120-277V
0539830*	T8 Ballast 4 Lamp 120-277V



0522314

REPLACEMENT PARTS

HUSSMANN®

Part No.	Description
0522314*	Innovator Door 1 LH Black
0522315*	Innovator Door 1 RH Black
0522316*	Innovator Door 1 LH Gray
0506496	Pan Display Black
0523762	Clip Shelf Magnet Led
0416440*	indoor rear Service Door

KRACK



E206880

MOTOR

Easily replace failing motors with Krack OEM motors that include:

- OEM harness compatible plugs to eliminate wiring headaches
- Bolt hole alignments matching OEM

specifications to

ensure product fit and trouble free installs



Part No.	Description
E206880*	Motor, 1/2 HP
E205492*	Motor, 1-1/2 HP
E151976*	Motor, 1-1/2 HP
E205109*	PSC Motor, 1/28 HP
E201949*	PSC Motor, 1/28 HP
E206448*	PSC Motor, 0.05 HP
E206447*	PSC Motor, 0.06 HP



E280793

MOTOR ACCESSORIES



Part No.	Description
E280793*	Motor Bracket
E316578*	Motor Mount
E102010*	Motor Mount Bracket, Steel
800340*	Motor Ring 56 FRAME LEV-SM



112650

FAN BLADE

OEM blades are engineered and tested to provide optimal air flow for peak case performance



Part No.	Description
112650	Fan Blade 10" 41Deg 5/16" Bore, Ccw
E316580*	Fan Blade 12" 24 Deg
E205493*	Fan Blade 30" 24 Deg 5/8" Bore, Cw
112730*	Fan Blade 30" 28 Deg 5/8" Bore, Cw
E208058*	Fan Blade 30" Revcor ZS3003-34

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CONV32

TEMPERATURE CONTROLS

The CONV32 is used to connect to Sitrad Pro of up to 32 instruments with serial connection. It performs the communication between the controllers and the computer, by means of converting

RS-485 signals from the controllers. The CONV32 is connected to the computer or Sitrad InBox by an USB cable.



Part No.	Description
CONV32	Full Gauge Serial Interface To Sitrad Pro



MT512E2HP

DIGITAL CONTROLLER AND INDICATOR WITH NATURAL DEFROST THROUGH COMPRESSOR SHUTDOWN

- One controller to stock for both 115/230V applications
- Heavy-duty 2HP rated relay
- Temperature sensor included - no need to purchase separately
- Versatile for both cooling and heating applications
- Prevents tampering in public locations ie grocery stores
- Easy programming
- IP65 front protection level
- R290, R600A compliant
- Function lock
- Manual defrost
- Control functions shutdown



Part No.	Description
MT512E2HP	Full Gauge Digital Cntrl Med-High Temp 120/240V
MT512ELOG	Full Gauge Digital Cntrl Med-High Temp 120/240V



TC900E2HP

DIGITAL CONTROLLER FOR REFRIGERATION AND DEFROST

TC-900E-2HP and TC-900E-LOG

- Adaptive defrost capable for energy savings
- Adaptive defrost can be less harsh on inventories eliminating

unnneeded defrost cycles

- Fast freezing better protects inventories
- TC-900E-LOG only - Sitrad® App based software for remote operation and monitoring.
- TC-900E-LOG only - Log data for temperature compliance



Part No.	Description
TC900E2HP	Full Gauge Digital Cntrl Low Temp 120/240V
TC900ELOG	Full Gauge Digital Cntrl Low Temp 120/240V



Supermarket & C-Store Refrigeration Controls





NOTES

SUPERMARKET ELECTRONIC CONTROLS AND PARTS

Lined area for notes.

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