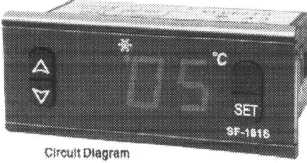
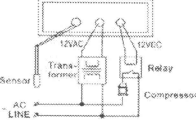
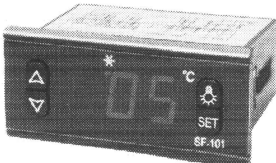
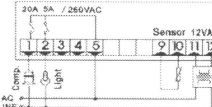
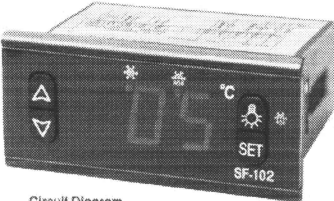
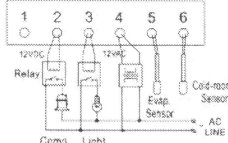
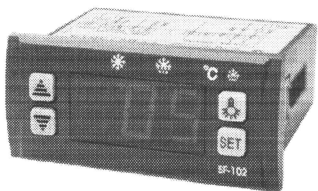


Digital Temperature Controller for Refrigerating

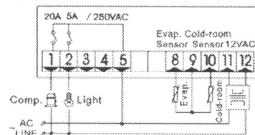
SF-101S	SF-101																																																								
 <p>Circuit Diagram Model: SF-101S</p> 	 <p>Circuit Diagram Model: SF-101</p> 																																																								
<p>Temperature Display / Temperature Control, Automatic defrost by turning off; Value Storing / Self Testing; Range: -45 ~ 99 °C ; Accuracy: ±1 °C ; compressor : 5A/2</p> <table border="1" data-bbox="153 719 778 1010"> <thead> <tr> <th>Parameter</th> <th>Function</th> <th>Set range 50VAC</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>E1</td> <td>Lower set point limit</td> <td>-45°C ~ Set temp.</td> <td>-35°C</td> </tr> <tr> <td>E2</td> <td>Higher set point limit</td> <td>Set temp. ~ 45°C</td> <td>20°C</td> </tr> <tr> <td>E3</td> <td>Temp. hysteresis</td> <td>1 ~ 10°C</td> <td>4°C</td> </tr> <tr> <td>E4</td> <td>Comp. start delay time</td> <td>0 ~ 10Min</td> <td>2Min</td> </tr> <tr> <td>E5</td> <td>Offset on room temp.</td> <td>0 ~ 10Min</td> <td>0°C</td> </tr> <tr> <td>F1</td> <td>Max. Defrost duration</td> <td>1 ~ 30Min</td> <td>20Min</td> </tr> <tr> <td>F2</td> <td>Defrost interval time</td> <td>0 ~ 12Hr</td> <td>0Hr</td> </tr> </tbody> </table>	Parameter	Function	Set range 50VAC	Default	E1	Lower set point limit	-45°C ~ Set temp.	-35°C	E2	Higher set point limit	Set temp. ~ 45°C	20°C	E3	Temp. hysteresis	1 ~ 10°C	4°C	E4	Comp. start delay time	0 ~ 10Min	2Min	E5	Offset on room temp.	0 ~ 10Min	0°C	F1	Max. Defrost duration	1 ~ 30Min	20Min	F2	Defrost interval time	0 ~ 12Hr	0Hr	<p>Temperature control/Light control/Re-start delay; Relay output : 1HP (compressor) ; Range: -45 ~ 45°C ; Accuracy: ±1°C Compressor: N.O. 20A/250VAC(one HP) ; Light: N.O. 5A/250VAC</p> <table border="1" data-bbox="799 696 1353 1032"> <thead> <tr> <th>Parameter</th> <th>Function</th> <th>Set range</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>E1</td> <td>Lower set point limit</td> <td>-45°C ~ Set temp.</td> <td>-35°C</td> </tr> <tr> <td>E2</td> <td>Higher set point limit</td> <td>Set temp. ~ 45°C</td> <td>20°C</td> </tr> <tr> <td>E3</td> <td>Temp. hysteresis</td> <td>1 ~ 10°C</td> <td>4°C</td> </tr> <tr> <td>E4</td> <td>Comp. start delay time</td> <td>0 ~ 10Min</td> <td>2Min</td> </tr> <tr> <td>E5</td> <td>Offset on room temp.</td> <td>-5 ~ 5°C</td> <td>0°C</td> </tr> </tbody> </table>	Parameter	Function	Set range	Default	E1	Lower set point limit	-45°C ~ Set temp.	-35°C	E2	Higher set point limit	Set temp. ~ 45°C	20°C	E3	Temp. hysteresis	1 ~ 10°C	4°C	E4	Comp. start delay time	0 ~ 10Min	2Min	E5	Offset on room temp.	-5 ~ 5°C	0°C
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<p>Temperature control/Light control; manual/automatic defrost by turning off; Time/temp. setting to end defrost; Re-start delay; Celsius/Fahrenheit degrees; Range: -45 ~ 45°C (-40 ~ 120°F) Accuracy: ±1°C (±2°F), Compressor: N.O. 30A/250VAC(one HP) Light: N.O. 30A/250VAC</p>																																																									

Digital Temperature Controller for Refrigerating

SF-102





Circuit Diagram
Model: SF-102

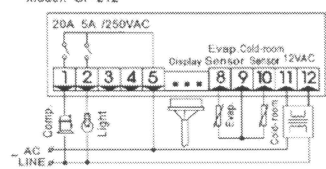


Temperature control/Light control; manual/automatic defrost by turning off; Time/temp. setting to end defrost; Re-start delay; Celsius/Fahrenheit degrees; Relay output :1HP (compressor)
Range: -45~45°C (-40~120°F) ;Accuracy:±1°C (±2°F)
Compressor: N.O. 20A/250VAC(one HP);Light: N.O. 5A/250VAC

Parameter	Function	Set range	Default
E1	Lower set point limit	-45°C~Set temp	-35°C
E2	Higher set point limit	Set temp.~45°C	20°C
E3	Temp. hysteresis	1~10°C	4°C
E4	Comp. start delay time	0~10Min	2Min
E5	Offset on room temp.	-5~5°C	0°C
E6	Offset on evap. Temp.	-5~5°C	0°C
F1	Max. Defrost duration	1~60Min	20Min
F2	Defrost interval time	0~24Hr	6Hr
F3	Defrost termination temp.	0~20°C	8°C
F4	Display during defrost	0=Normal display 1=Last value before defrost	0°C
C1	Temperature unit	0=°C 1=°F	0°C

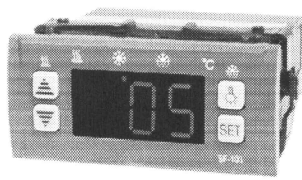
Circuit Diagram
Model: SF-212



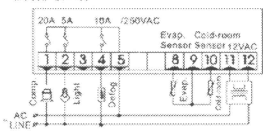
SF-212

Relay output:1HP(compressor)
Temperature control/Light control;manual/automatic defrost by turning off;Time/temp. setting to end defrost;Re-start delay
Relay output :1HP (compressor) ;Range:-45~45°C
Compressor: N.O. 20A/250VAC(one HP);Light: N.O. 5A/250VAC

SF-103



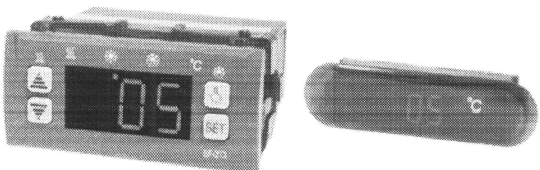
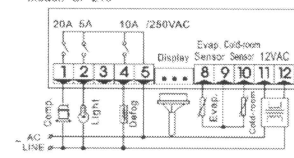

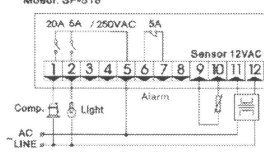
Circuit Diagram
Model: SF-103



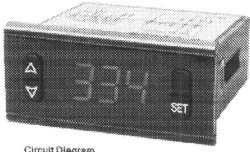
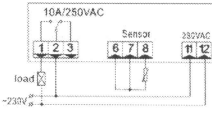
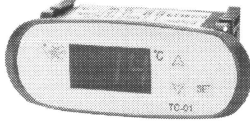
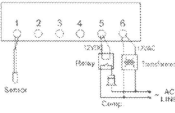
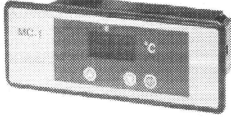
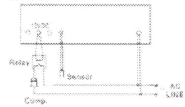
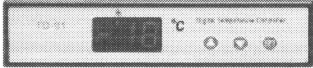
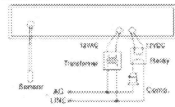
Temperature control/Light control; Electric heater defog; Automatic/manual defrost by turning off;Time/temp. setting to end defrost;Re-start delay;Relay output:1HP (compressor)
Range: -45~45°C (-40~120°F) ;Accuracy:±1°C (±2°F)
Compressor: N.O. 20A/250VAC;Defog: N.O. 10A/250VAC
Light: N.O. 5A/250VAC

Parameter	Function	Set range	Default
E1	Lower set point limit	-45°C~Set temp	-35°C
E2	Higher set point limit	Set temp.~45°C	20°C
E3	Temp. hysteresis	1~10°C	4°C
E4	Comp. start delay time	0~10Min	2Min
E5	Offset on room temp.	-5~5°C	0°C
E6	Offset on evap. Temp.	-5~5°C	0°C
F1	Max. Defrost duration	1~60Min	20Min
F2	Defrost interval time	0~24Hr	6Hr
F3	Defrost termination temp.	0~20°C	8°C
F4	Display during defrost	0=Normal display 1=Last value before defrost	0°C
C1	Temperature unit	0=°C 1=°F	0°C


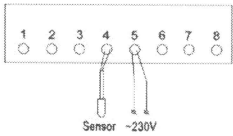

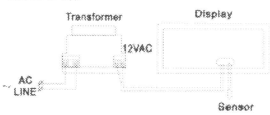

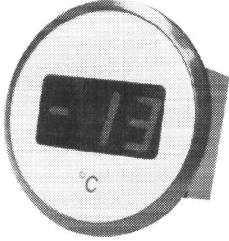
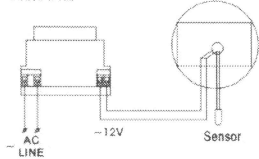
Digital Temperature Controller for Refrigerating

SF-213	SF-518																																																																																																				
 <p>Circuit Diagram Model: SF-213</p> 	 <p>Circuit Diagram Model: SF-518</p> 																																																																																																				
<p>Range: -45~45°C; Accuracy: ±1°C Compressor: 20A/250VAC (one HP); Defog: 10A/250VAC</p>	<p>Temperature Control/Highest and lowest temperature record The alarm function; Light Control Manual, automatic defrost by turning off Value Storing / Parameter Locking</p>																																																																																																				
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F1	Max. Defrost duration	1~60Min	20Min																																																																																																		
F2	Defrost interval time	0~24Hr	6Hr																																																																																																		
F3	Defrost termination temp.	0~20°C / 32~68°F	8°C / 46°F																																																																																																		
F4	Display during defrost	0=Normal display 1=Last value before defrost	0°C																																																																																																		
C1	Temperature unit	0=°C 1=°F	0°C																																																																																																		
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E1	Lower set point limit	-45°C ~ Set temp	0°C																																																																																																		
E2	Higher set point limit	Set temp. ~45°C	12°C																																																																																																		
E3	Temp. hysteresis	1~10°C	3°C																																																																																																		
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C1	High temperature alarm	(C2+1) ~ 45°C	9°C 9°C																																																																																																		
C2	Low temperature alarm	-45°C ~ (C1 - 1)	1°C																																																																																																		
C3	Time delay of alarm and memory when starting	(0 ~ 24) × 10min	06																																																																																																		
C4	Time delay of alarm when working	0 ~ 60min.	0Min																																																																																																		

Digital Temperature Controller for Freezing

<p>ED66</p>  <p>Circuit Diagram Model: ED66</p> 	<p>TC-01</p>  <p>Circuit Diagram Model: TC-01</p> 																																																								
<p>Temperature control/Refrigerating & heating modes selection Value Storing;Self Testing Range:—150~550℃ Accuracy:±1℃ Compressor: N.O. 10A/250VAC;Temperature sensor:PT100,1pc</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Function</th> <th>Set range</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>E1</td> <td>Lower set point limit</td> <td>—150℃ ~ Set temp</td> <td>—100℃</td> </tr> <tr> <td>E2</td> <td>Higher set point limit</td> <td>Set temp. ~550℃</td> <td>400℃</td> </tr> <tr> <td>E3</td> <td>Temp. hysteresis</td> <td>1~99℃</td> <td>10℃</td> </tr> <tr> <td>E4</td> <td>Comp. start delay time</td> <td>0~10Min</td> <td>0Min</td> </tr> <tr> <td>E5</td> <td>Offset on room temp.</td> <td>—30~30℃</td> <td>0℃</td> </tr> <tr> <td>C1</td> <td>Temperature control mode</td> <td>0=refrigerating 1=heating</td> <td>1</td> </tr> </tbody> </table>	Parameter	Function	Set range	Default	E1	Lower set point limit	—150℃ ~ Set temp	—100℃	E2	Higher set point limit	Set temp. ~550℃	400℃	E3	Temp. hysteresis	1~99℃	10℃	E4	Comp. start delay time	0~10Min	0Min	E5	Offset on room temp.	—30~30℃	0℃	C1	Temperature control mode	0=refrigerating 1=heating	1	<p>Temperature control; Re-start delay; Relay output :1HP (compressor) Range:—45 ~ 99 ℃ ; Accuracy:±1 ℃ ;Temperature sensor: NTC, 2m(L);Compressor relay: N.O. 30A/250VAC</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Function</th> <th>Set range</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>E1</td> <td>Lower set point limit</td> <td>—45℃~Set temp</td> <td>-35℃</td> </tr> <tr> <td>E2</td> <td>Higher set point limit</td> <td>Set temp.~45℃</td> <td>20℃</td> </tr> <tr> <td>E3</td> <td>Temp. hysteresis</td> <td>1~10℃</td> <td>4℃</td> </tr> <tr> <td>E4</td> <td>Comp. start delay time</td> <td>0~10Min</td> <td>2Min</td> </tr> <tr> <td>E5</td> <td>Offset on room temp.</td> <td>—10~10℃</td> <td>0℃</td> </tr> </tbody> </table>	Parameter	Function	Set range	Default	E1	Lower set point limit	—45℃~Set temp	-35℃	E2	Higher set point limit	Set temp.~45℃	20℃	E3	Temp. hysteresis	1~10℃	4℃	E4	Comp. start delay time	0~10Min	2Min	E5	Offset on room temp.	—10~10℃	0℃				
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Temperature Display

<p>PC-100</p>  <p>Circuit Diagram Model: PC100</p> 	<p>SF-100</p>  <p>Circuit Diagram Model: SF-100</p> 
<p>Temperature display Range: -40~50°C Accuracy: ±1°C</p>	<p>Temperature display Accuracy: ±1°C SF-100P: -40~50°C SF-100H: -5~150°C SF-100: -45~99°C</p>
<p>SF-M01</p> 	<p>SF-M02</p>  <p>Circuit Diagram Model: X-100</p> 
<p>Temperature display Range: -40~50°C</p>	<p>Temperature display Range: -45~99°C</p>