

Danfoss KPU 19 Temperature and Pressure Controls



Danfoss KPU 19 Temperature and Pressure Controls Instruction Manual

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KPU 19 Temperature and Pressure Controls



Specifications

KPU 19 Thermostats

- Bulb type: Remote bulb
- Contact/Reset: -30 to 80 SPST/Auto
- Capillary tube length: 3.6 to 12.6 inches
- Maximum tube length at lowest bulb: 140 inches

KPU 60/70 Thermostats

- Bulb type: Straight capillary tube
- Contact/Reset: -20 to 60 SPDT/Auto
- Capillary tube length: 80 inches
- Differential at lowest temp. setting: 10 to 40
- Differential at highest temp. setting: 2.5 to 13

KPU Pressure Switches

- Pressure system: 6 to 108 in. Hg/psig
- Reset: Low Automatic SPDT
- Contact range: 10 to 60 psig
- Max. working pressure: 250 psig

KPU Dual Pressure Switches

- Low-pressure side range: 6 to 108 in. Hg/psig
- High-pressure side range: 100 to 465 psig
- Reset: Automatic SPST (NO/NC)

- Max. working pressure (low/high side): 250/510 psig

KPU temperature and pressure controls are designed for easy installation and service. They feature bottom and rear knockouts, a differential adjustment dial, a tamper-resistant design, and a robust thermoplastic housing. Danfoss KPU temperature and pressure controls maintain precise set point values and are easy to set and adjust. Learn more about how to select the right Danfoss products for your needs at choose.danfoss.com. Reliable temperature and pressure controls designed for flawless performance.

Technical data and ordering

KPU 19 Thermostats

KPU Series	Bulb type	Range (°F)	Contact/ Reset	Capillary tube length (in.)	at lowest temp. setting	Maximum bulb temperature (°F)	Competitor part no.	Danfoss type	Danfoss Code No.
KPU 19	Remote bulb	–30 to 80	SPDT/ Auto	120	3.6 to 12 .6	140	A19ABC-24C A19ABC-37C A19ABC-74C A19AAC-4C A 19AAF-20C	KPU19	060L2150 ¹
KPU 19		–30 to 80	SPST/ Auto	80	3.6 to 12 .6	140	A19AAD-5C A19ABA-40C A19AAD-12C	KPU19	060L2151 ¹
KPU 19 Room bulb		–30 to 80	SPDT/ Auto	Room sensor	3.6 to 12 .6	140	A19BBC-2C A19BAB-3C A 19BAC-1C A1 9BAF-1C	KPU19	060L2152

As 060L1250 is SPDT, 060L2150 can replace competitor parts crossed to both 060L2150 and 060L2151.

KPU 60/70 Thermostats

Danfoss Type	Bulb type	Range (°F)	Contact/ Reset	Capillary tube length (in.)	Differential		Maximum bulb temperature (°F)	Competitor part no.	Danfoss Code No.
					at lowest temp. setting	at the highest temp. setting			

KPU 61	Remote air coil	-20 to 60	SPDT/ Auto	80	10 to 40	2.5 to 13	250	O10-1408 O10-1409 O10-1473 O16-104 O 10-1410	060L5203
								O10-1072	
KPU 62	Room sensor	-20 to 60	SPDT/ Auto	Room sensor	10 to 40	2.5 to 13	250	O10-1418 O16-594	060L5206
								O60-101	
KPU 73	Remote bulb	-15 to 60	SPDT/ Auto	80	6.5 to 32	5 to 50	175	O60-100 O 60-120	060L5208

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KPU Pressure Switches

Danfoss Type	Pressure	Reset	Contact system	Range (in. Hg/psig)	Differential (psig)	Max. working pressure (psig)	Competitor part no. ¹	Danfoss Code No.	
								¼ in. M flare	36 in. capillary tubes with ¼ in. flare nuts

							O10-1402		
KPU 2	Low	Automatic	SPST (NO)	6 to 73	6 to 30	250	P70AB-12C	060-5237	060-5235
							P170AB-12C		

KPU1 B	Low	Manual	SPDT	28 to 100	10.2	250		060-5232	060-5234
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							O16-108		
KPU 6 W ²	High	Autom atic	SPDT	100 to 600	58 to 1 45	675	P170CA -400C	060-5243	060-5245
							P70CA- 3C		

KPU Dual Pressure Switches

Danfos s Type	Low-pressure si de		High-pressure side		Reset		Cont act s yste m (L P/HP)	Max. wo rking pr essure (low/hig h side) (psig)	Comp etitor part n o. ¹	Danfoss Cod e No.		
	Range (in. Hg/p sig)	Differ ential (psig)	Range (psig)	Differ ential (psig)	Low-pr essure side	High-p ressur e side				¼ in. M flar e	36 in. capill ary tu bes w ith ¼ flar e nuts	
KPU 15 6 to 108 10 to 60 100 to 465					Automat ic	Automa tic	SPS T	250/510	O12-1 549	060-5 247	060-5 248	
							(NO/ NC)		P170L B-1C			
KPU 1 5B	6 to 108	10 to 6 0	100 to		Automat ic	Manual	SPS T	250/510	P70LB -1C	060-5 249	060-5 250	
			465				(NO/ NC)		P70M A-1C			
			60					O12-4 834				
KPU 16B 6 to 108 10 to 60 100 to 600					Converti ble ³	Convert ible ³	SPD T/ SPS T (N O)	250/675	P170L B-1C P70LB -1C	060-5 253	060-5 254	
									P70M A-1C			
									P70M A-1C			

1. Competitor part no. equipped with a capillary tube for all but P170LB-1C which has connections.
2. KPU 6 and the high-pressure side of KPU 16 are designed with fail-safe double bellows.
3. Convertible reset controls can be adjusted for either automatic or manual reset. Adjust the reset setting to match the product being replaced.

All controls are supplied with universal mounting brackets and mounting screws. Ambient temperature: –40 °F to +122 °F (175 °F for maximum 2 hours). KPU's 1, 2, 6, and 16 are suitable for all HFC refrigerants, including R-410A.

	120/240 VAC
Alternating Current	
Motor Full Load Amps (FLA)	24
Locked Rotor Amps (LRA)	144
Direct Current	240 V DC: 12W pilot duty

Spare Parts and Accessories

For the complete portfolio of KPU products, scan the QR code to access the Quick Select Guide.

Description	Type(s) applied to	Danfoss Code No.
Capillary tube; 39 in. with ¼ in. flare coupling nuts on each end	KPU with ¼ in. M flare	060-017166

Installation

1. Ensure the power source is switched off before installation.
2. Locate a suitable position for the temperature and pressure controls.
3. Follow the provided guidelines for wiring and connections.

Setting and Adjusting

1. Use the differential adjustment dial to set the desired temperature or pressure values.
2. Make sure the controls are securely fastened in place after adjustment.

Maintenance

1. Regularly check for any signs of wear or damage on the controls.
2. Clean the controls as needed to ensure proper functioning.

Documents / Resources



[Danfoss KPU 19 Temperature and Pressure Controls](#) [pdf] Instruction Manual
KPU 19 Temperature and Pressure Controls, KPU 19, Temperature and Pressure Controls, Pressure Controls, Controls

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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