

GENERAL DESCRIPTION

The 150KC series cooling extensions are an accessory item for use with all Robertshaw capacitance probes except short-stop models. It is intended to provide a means to elevate a probe mounted Robertshaw capacitance instrument away from the probe.

The primary purpose for elevating the instrument away from the probe is reduce the amount of heat to which the instrument may be subjected. Most instruments have a maximum allowable ambient temperature of 140° F or 160° F while probes may be used in vessels with temperatures as high as 1000° F. The high temperature in the vessel may be radiated off of the vessel and/or transmitted through the probe, therefore, a cooling extension may be employed to reduce the amount of heat that will reach the instrument.

The cooling extension is an alternate to remotely mounting an instrument from the probe. However, the cables which are employed for connecting a remote mounted instrument to the probe also have a maximum allowable ambient temperature although it is usually higher than that of the instrument. Therefore, in some cases it may be necessary to employ a cooling extension even though the instrument is remote mounted.

SPECIFICATIONS

Material	Stainless steel with		
	internal Teflon insulators		
Extension capacitance			
-	4" of extension		
Intrinsic safety	I.S. of instrument and		
	probe not affected		
Explosion proof	Not rated		
Rating	NEMA 5, 12, 13		

150KC Series Cooling Extensions



- No moving parts
- Low capacitance gain
- Corrosion resistant



RECOMMENDED COOLING EXTENSION						
		PROCESS TEMPERATURE				
PART	LENGTH	FOR USE WITH	FOR USE WITH	FOR USE WITH	FOR USE WITH	
NUMBER		INSTRUMENTS	INSTRUMENTS	POLYETHYLENE	TEFLON	
		RATED 140° F	RATED 160° F	INSULATED	INSULATED	
				CABLE	CABLE	
150KC001	4"	180° - 220° F	200° - 240° F			
150KC002	8"	180° - 300° F	200° - 300° F	225° - 325° F	400° - 500° F	
150KC003	12"	300° - 400° F	300° - 400° F	325° - 425° F	500° - 600° F	
150KC005	18"	400° - 800° F	400° - 800° F	425° - 825° F	600° - 1000° F	
150KC004	24"	800° - 1000° F	800° - 1000° F	825° - 1000° F		



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NOTES:

1. Suggested extensions apply only if there is a heat shield and/or insulation between the vessel and the probe mounted instrument (or probe mounted cable connection) to prevent, or minimize, heat radiating off of the vessel from reaching the instrument.

2. When in doubt use a longer cooling extension.

3. When using a cooling extension, the cooling extension capacitance is added to the terminal capacitance. Cooling extension capacitance is 4 pF for each 4" of extension.

Robertshaw

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