

SUBMITTAL : 91101-45190 Tank Temperature Sensor



Job Name	Location	
Purchaser	Engineer	
Submitted to	Reference Approval Constructi	on 📃
Unit Designation	Schedule #	

Specifications	91101-45190	
Performance		
Resistance at 50°F (Ohms)	20,500Ω	
Resistance at 68°F (Ohms)	12,500Ω	
Resistance at 86°F (Ohms)	8,100Ω	
Resistance at 104°F (Ohms)	5,300Ω	
Resistance at 122°F (Ohms)	3,600Ω	
Resistance at 140°F (Ohms)	2,500Ω	
Resistance at 150°F (Ohms)	2,070Ω	
Accuracy	Plus/Minus 3%	
Physical Data		
Barrel material	Copper	
Sensor Bulb size - Diameter	Ø1/4" x 1"	
Wire size	18 AWG	
Wire length	18 3/4"	



Construction

Sensor or Thermistor shall be constructed with a Copper barrel for temperature sensing resin bonded to 2 x 18AWG leads for connection to the GS4-45HPC, GS4-45HPC-D, GS5-45HPC & GS5-45HPC-D Heat Pumps

Sensing

Sensing shall be via a micro chip thermistor with an accuracy of +/- 3%

Voltage

Heat Pump shall provide a 5VDC signal to the thermistor

Installation of Tank Temperature Sensor

Sensor shall be inserted into a dry thermal well Heat Transfer paste is not required Flying leads shall require wire stripping for connection to Heat Pump thermistor wiring Thermistor shall not be polarity sensitive

Application

Each GS4 or GS5 Heat Pump unit shall require an individual Tank Temperature Sensor. It shall not be permissable to connect multiple Heat Pump units to one Sensor as this process will alter the Tank temperature signal to the GS4 or GS5 Heat Pump and cause operation issues

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