

Gain & Gate Heaters - MXS & WXS

Gain & Gate Guide Heater

Application

These heaters are specifically designed to prevent ice build-up on sluice gate guides or bodies. The heater is usually installed in a vertical well or duct of round or square cross section having a round nozzle at the top for fastening.

Construction

The heaters are available in single or dual wattage, customized to specifically suit the application.

The heating elements are silver brazed into a water tight terminal housing having recessed base for mounting. Element ends are hermetically sealed to prevent moisture ingress over prolonged periods when the heaters are not in service.

Unlike open wire heaters with ceramic supports, Type MXS heaters can be coiled to a six foot diameter to facilitate shipping and handling.

Table 59 – Standard Box Dimensions (Not Exactly As Shown)

Type	Dimensions				Maximum Diameter	
	A		C		in	mm
	in	mm	in	mm		
1	5.000	127	3.000	76	3.625	92
2			4.125	105	4.625	117
3			4.375	111	4.875	124

Gate Body Duct Heater

Application

Gate body duct heaters are custom engineered by CCI Thermal to heat the inside of the gate and prevent ice build-up on the gate walls, wind seals and end members.

The heaters can be connected to a duct having outlets at various elevations within the gate.

Construction

Gate body duct heaters feature a weather proof duct heater and matched motor and high static axial fan assembly installed within a galvanized heavy steel housing.

Heating elements are hermetically sealed to prevent moisture ingress over prolonged periods when the heaters are not in service.

Various control options are available such as ambient temperature sensing thermostat, outlet air temperature thermostat, limit control and differential pressure switch. Designs are available from 4 kW to 120 kW.

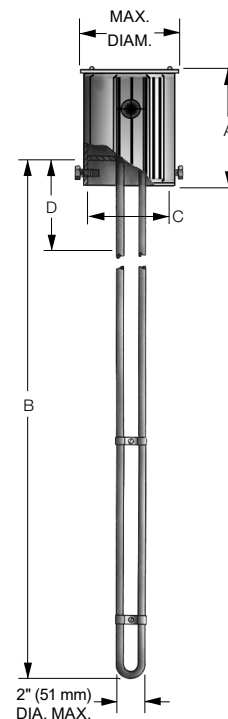


Figure 42 – WXS Series

To Order Specify

Voltage and Wattage - wattage may range from 6 to 18 watts per lineal inch depending on the conditions. For extra long heaters, utilize 480V or 600V to ensure that the heater can be built. If dual wattage is required, specify details.

Terminal Box - check the dimensions of the standard terminal box shown in Figure 42 on page B48 for suitability. Other sizes and types are available.

Heating Element Dimensions - indicate insert length "B" and non-heated Section D. Allow 2% for manufacturing tolerance plus heater expansion when specifying "B" dimension.



Figure 41 – WXS Series

To Order Specify

Voltage, phase and wattage plus control options.

Also specify static pressure requirements of the fan assembly at the design air flow and the duct diameter.

Note that CCI Thermal also builds control panels for sluice gate heating control (see Section D).