



The Nitrex compact closed-loop Water Cooling System is designed to circulate cooling water necessary to cool furnace elements.

Integrated with the Nitrex furnace, the water cooling system ensures significant savings on utility bills by recycling cooling water and eliminating the need for city water to cool furnace seals, flanges and the internal turbine motor.

Although plant water can be safely used for furnace load cooling, it usually requires filtering to remove solid particles that can potentially clog pipes and cooling channels. By using clean water, free of contaminants, and by maintaining an optimal temperature, the Nitrex water cooling system can help prolong the longevity of furnace elements and reduce service downtime.

Features	WCS-F1	WCS-F2
Dimensions	1140mm L x 600mm W x 760mm H 45" L x 24" W x 30" H	
Weight	80 kg 176 lb	
Heat Exchanger Fan	1.5 m ³ /h @ 25m = 5.5 kW 6.6 gpm @ 82' = 5.5 kW	1.5 m ³ /h @ 25m = 8.3 kW 6.6 gpm @ 82' = 8.3 kW
Power Supply	5 amps @ 400/460 VAC 3PH	
Water Flow Rate & Temperature	5 lpm @ 50°C 1.3 gpm @ 122°F	
Piping (BSP)	Inlet-Outlet : ½"	

BENEFITS

- Circulates clean water
- No risk of clogging cooling channels
- Reduces water consumption, thus reducing utility bills
- Zero water discharge
- Reduces risk of corrosion

WCS Model	Nitrex Furnaces			
	NXK	NX	NXH	NXL
WCS-F1	✓ 609-812	✓ 615-1225	✓	✓
WCS-F2		✓ 1230-1645		

ASK US!

Nitrex WCS can also meet the cooling needs of your plant's other thermal processing equipment. Ask us about it.