

The **Nitrex closed-loop water cooling system** is an add-on accessory to the accelerated cooling option on Nitrex NX and NXH series nitriding/nitrocarburizing furnaces. It's an external system that provides a controlled, stable supply of clean water to the cooling coils of the furnace's accelerated cooling internal heat exchanger.

The water cooling system consists of a control unit, buffer tank(s) and heat exchanger, and is available in

4 models in function of water capacity and required flow rate. At the higher water capacity, the system is configured with 2 buffer tanks.

The modular construction of the system allows for greater layout flexibility. The buffer tank and heat exchanger can be positioned either in a side-by-side arrangement, stacked one atop the other, or separated apart to fit any space requirement.



Models **WCS-AC1** and **AC2** feature a 3000-liter (792.5 gallon) buffer tank and heat exchanger mounted on a unified platform.



In the stacked configuration of models **WCS-AC3** and **AC4**, the heat exchanger is mounted above the dual buffer tanks.

MODEL	NX FURNACE SIZES	MAXIMUM FURNACE LOAD kg	CAPACITY		PUMP kW	TANK LITERS	INLET/OUTLET SIZE	DIMENSIONS L x W x H METERS	WEIGHT kg	POWER SUPPLY REQUIRED 400VAC 3ph AMP
			m ³ /h @ 40 m	kW						
WCS AC1	815-1025	1 500-3 000	6,6	30	1,3	3 000	DN32-PN10	3,8 x 1,6 x 1,7	600	16
WCS AC2	1030-1225	3 000-4 500	9,8	45	2,2		DN32-PN10			16
WCS AC3	1230-1625	5 250-6 000	13,1	60	3	2 x 3 000	DN32-PN10	5,1 x 1,6 x 1,7	900	16
WCS AC4	1630-1645	7 000-10 000	16,4	75	3		DN32-PN10			20

MODEL	NX FURNACE SIZES	MAXIMUM FURNACE LOAD lb	CAPACITY		PUMP HP	TANK GALLONS	INLET/OUTLET SIZE	DIMENSIONS L x W x H INCHES	WEIGHT lb	POWER SUPPLY REQUIRED 400VAC 3ph AMP
			GMP @ 131 ft	BTU/hr						
WCS AC1	815-1025	3,300-6,600	29	102,300	1.8	792	DN32-PN10	150 x 67 x 63	1,320	15
WCS AC2	1030-1225	6,600-9,900	43	153,500	3.0		DN32-PN10			17.5
WCS AC3	1230-1625	11,570-13,200	57	204,700	4.0	2 x 792	DN32-PN10	201 x 67 x 63	1,980	17.5
WCS AC4	1630-1645	15,400-22,000	72	255,900	4.0		DN32-PN10			20

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