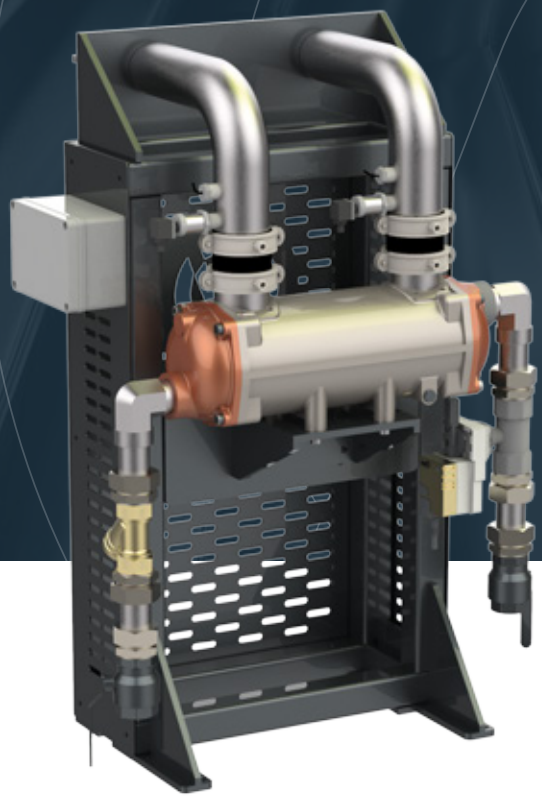
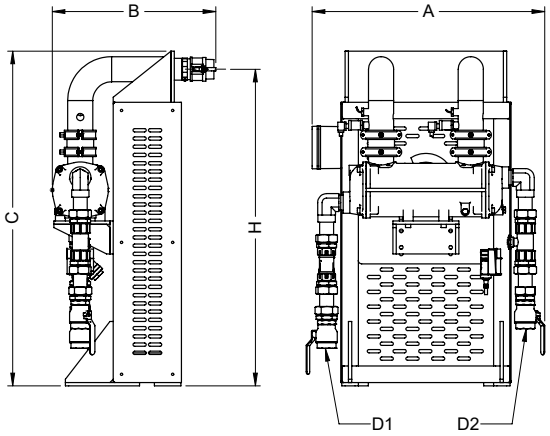
Turbo Charge Air Cooler





Özellikler:

* Engine inlet air coolers cool the air with increased temperature especially in internal combustion engines leads to an increase in efficiency and power generation capacity and reduces NOx levels.
* Turbo Charge Air Cooler primary fluid is air and secondary fluid is water. In this way, it takes up less space than other classic radiator groups and provides more precise control.
* Thanks to the temperature and pressure sensors located at the inlet and outlet of the Charge Air Cooler, the temperature and pressure values of the turbo air can be displayed on the control screen.

Turbo Charge Air Cooler

MODEL	ENGINE POWER (HP)	TECHNICAL SPECIFICATIONS	
CAC-120	0-120	Engine Power Range That Can Be Tested	0-120 HP
		Cooling Capacity	21 KW
		PRIMARY CIRCUIT (CHARGE AIR COOLER)	
		Fluid	Air
		Inlet Temperture	70-250°C
		Temperature Control Range	40-65°C
		Control Sensi vity	± 2°C
		Pressure Loss	5,5 kPa
		Charge Air Flow	9,8 kg/min
		SECONDARY CIRCUIT (ENGINE WATER CIRCUIT)	
		Fluid	Water
		Inlet Temperature	5-30°C
		Maximum ΔT	15°C
		Pressure Loss	9,9 kPa
		Water Flow Rate	80 lpm
CAC-400	120-400	Engine Power Range That Can Be Tested	120-400 HP
		Cooling Capacity	70,3 KW
		PRIMART CIRCUIT (CHARGE AIR COOLER)	
		Fluid	Air
		Inlet Temperature	70-250°C
		Temperature Control Range	35-65°C
		Control Sensi vity	± 2°C
		Pressure Loss	7,4 kPa
		Charge Air Flow	30,1 kg/min
		SECONDARY (ENGINE WATER CIRCUIT)	
		Fluid	Water
		Inlet Temperature	5-30°C
		Maximum ΔT	15°C
		Pressure Loss	7,8 kPa
		Water Flow Rate	270 lpm
CAC-750	400-750	Engine Power Range That Can Be Tested	400-750 HP
		Cooling Capacity	135 KW
		PRIMARY CIRCUIT (CHARGE AIR COOLER)	
		Fluid	Air
		Inlet Temperature	70-250°C
		Temperature Control Range	35-65°C
		Control Sensi vity	± 2°C
		Pressure Loss	3,9 kPa
		Charge Air Flow	48,1 kg/min
		SECONDARY CIRCUIT (ENGINE WATER CIRCUIT)	
		Fluid	Water
		Inlet Temperature	5-30°C
		Maximum ΔT	15°C
		Pressure Loss	10,6 kPa
		Water Flow Rate	400 lpm
CAC-1100	750-1100	Engine Power Range That Can Be Tested	750-1100 HP
		Cooling Capacity	170 KW
		PRIMARY CIRCUIT (CHARGE AIR COOLER)	
		Fluid	Air
		Inlet Temperature	70-250°C
		Temperature Control Range	35-65°C
		Control Sensi vity	± 2°C
		Pressure Loss	7,9 kPa
		Charge AirFlow	65 kg/min
		SECONDARY CIRCUIT (ENGINE WATER CIRCUIT)	
		Fluid	Water
		Inlet Temperature	5-30°C
		Maximum ΔT	15°C
		Pressure Loss	8,3 kPa
		Water Flow Rate	550 lpm

For higher capacity engines up to 6000 hp, a custom designed turbo air heat exchanger cooling system (liquid-liquid) is designed.