

DCX 120kW

Liquid Cooling Optimized Dry Cooler



Overview

Experience unparalleled cooling performance for your immersion rack system with the powerful and efficient 120 kW Dry Cooler. This innovative solution delivers exceptional heat transfer capacity, making it the ideal choice for high-performance servers and demanding thermal loads. Achieve over 120 kW of heat transfer capacity in 35°C ambient temperature, exceeding 140 kW at lower temperatures (20-25°C). This ensures optimal cooling performance for your immersion-cooled servers, even in challenging environments. The dry cooler features a compact footprint measuring just 200 x 100 x 500 cm. This allows for flexible placement, either standing or on a table-top platform, optimizing space utilization within your data center. Three standard 56-70 dB fans deliver powerful airflow across the extensive 200 m² heat exchange area, ensuring efficient heat dissipation and optimal server temperature control. The dry cooler offers adjustable cooling modes to cater to varying environmental conditions. High-performance mode utilizes a maximum power of 1.7-2.2 kW (4.4A), while moderate mode consumes up to 40% less for energy efficiency.

Tech spec

Specifications	
Application	Immersion of Direct Chip cooling systems heat rejection
Cooling capacity (35°C)	120kW
Cooling capacity (25°C)	140 kW
Dimensions	2400 1400 500 mm
Fans	3 x 500 mm
Noise level	58-68 dB(A)
Max. power consumption	2.2 kW
Power Standard	400V/3Ph/50hz (1.4-0.9A 720-550W) or 460V/3ph/60hz (1.64A 1060W)
Fittings	2" / DN50
Fluid temperature In / Out	60 / 40°C
Transport weight	250 kg 551lb
Nominal volume flow	5.2 m³/h
Pressure drop	0.39 bar

Why Choose DCX 120 kW Optimized Dry Cooler?



Capacity

Delivers over **120kW** of heat transfer capacity at 35°C and **140kW** at 25°C.



Performance

Efficient fans ensures optimal cooling for immersion-cooled servers.



Sustainability

Eliminate water usage and promoting water conservation.

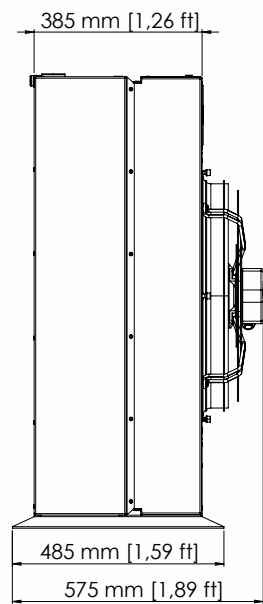
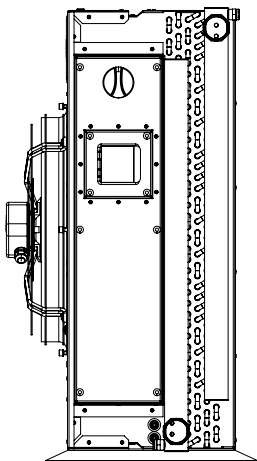
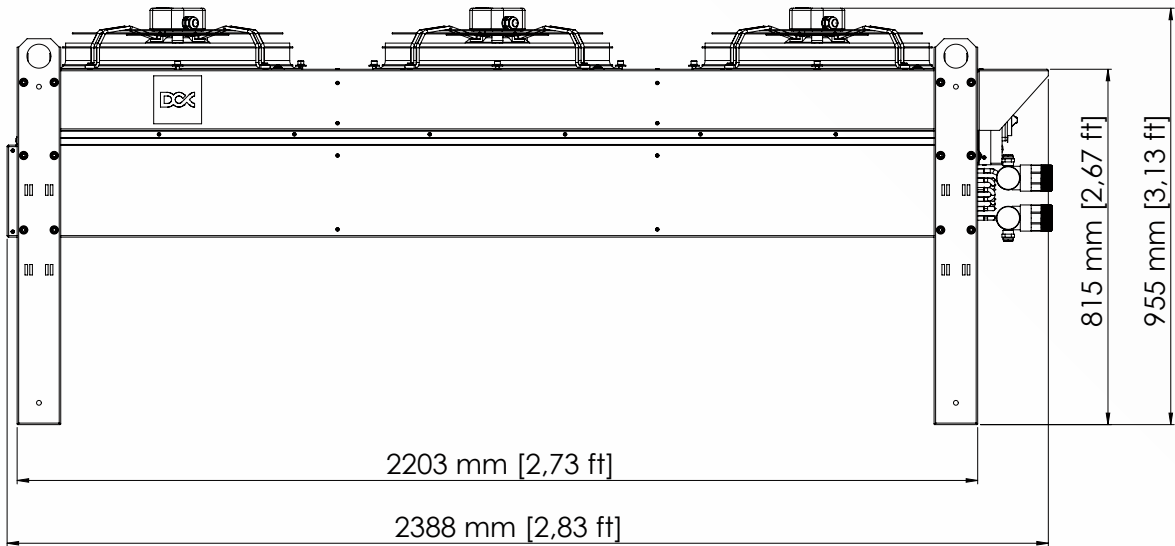
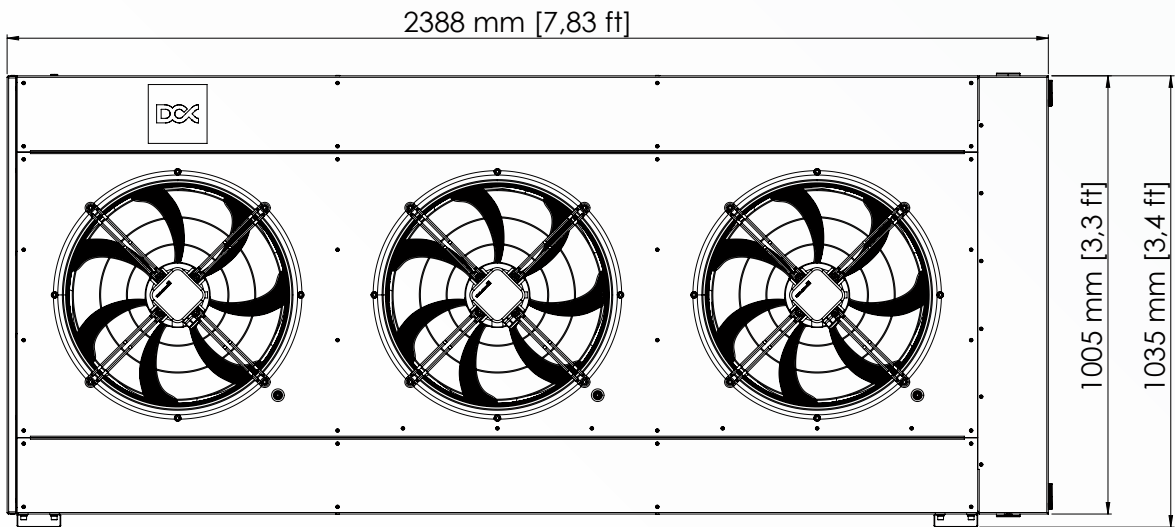


Energy Efficiency

Mode using a maximum of **1.7-2.2 kW** and moderate mode consuming up to **40%** less.

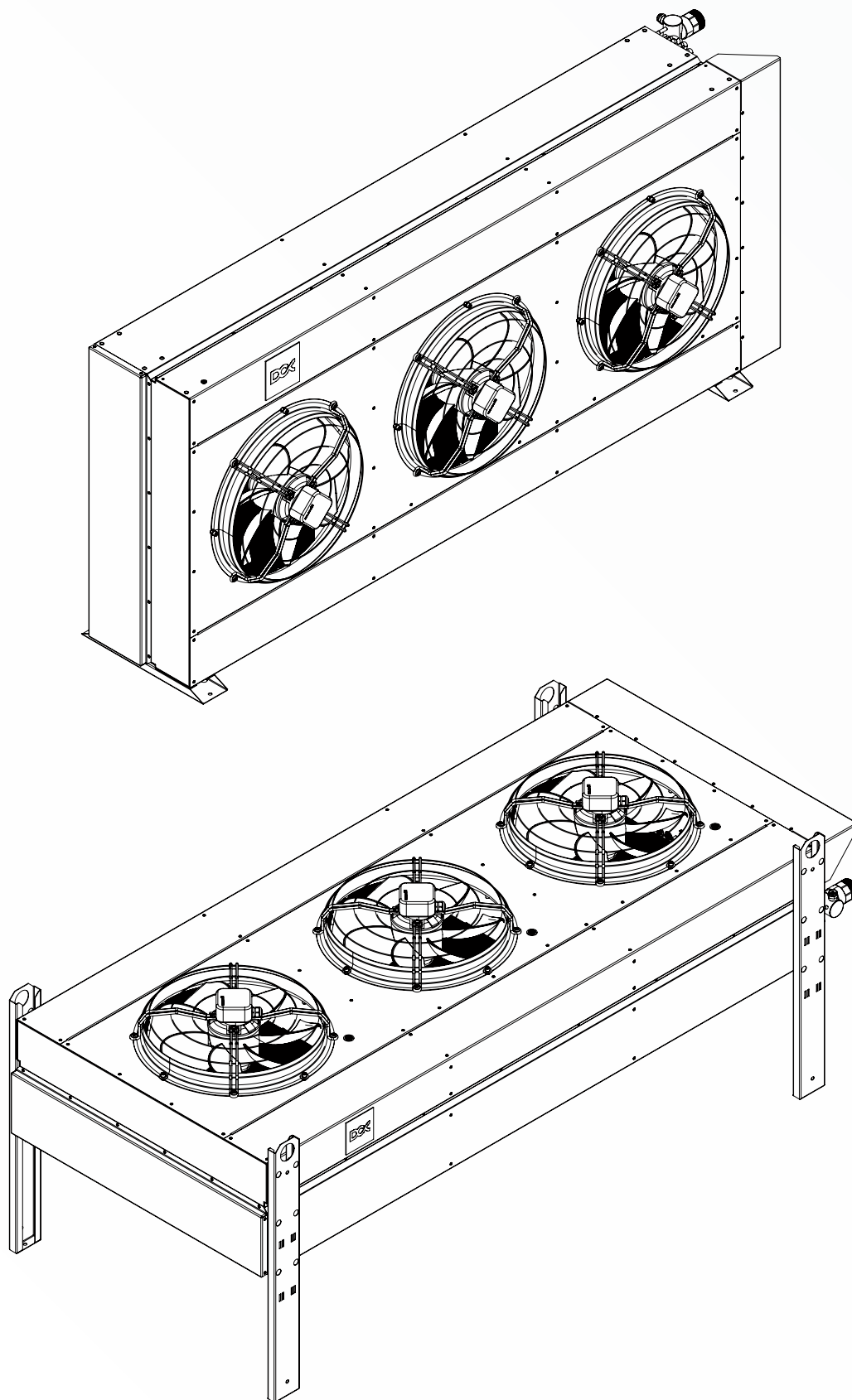
Technical drawings

Of 120 kW Optimized Dry Cooler



Technical drawings

Of 120 kW Optimized Dry Cooler



Example Deployment

Of 120 kW Optimized Dry Cooler

This deployment illustrates how the DCX 120kW Dry Cooler seamlessly integrates into a closed-loop immersion cooling system. The dry cooler is installed outdoors and connected to the immersion setup inside the facility using **insulated, industrial-grade piping**. These thermal transfer lines carry heated dielectric fluid from the immersion tanks to the dry cooler, where the heat is expelled into the ambient air without the need for water. By adopting the dry cooler, the system becomes **fully self-contained and sustainable**, eliminating the need for evaporative cooling or municipal water. The result is a robust, scalable, and energy-efficient cooling architecture capable of handling high thermal loads—even in warm climates. This setup ensures maximum uptime and minimal maintenance, completing the immersion cooling system with reliable, passive heat rejection infrastructure

