

HYDRAULICS

Oil Coolers

Sizing a Hydraulic Oil Cooler

1. Find the system oil flow (gpm).
2. Size heat exchanger to remove approximately 30% of input horsepower.

To find input horsepower, multiply the system pressure (psi) times the system flow (gpm), then divide by 1714 ($\text{psi} \times \text{gpm} \div 1714$).

To find an approximation of the BTU removed, multiply the horsepower heat removed by 2545.