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Refrigerating Systems



Refrigeration units

Refrigerating systems to remove the heat generated by spindle motors are sized based on power consumption and number of spindles to be cooled.

Cooling systems with water and/or oil as coolant liquid are available.

Oil coolers, other sizes and capacities available upon request.

Water coolers Type	Refrigerating capacity at 70° F	Motor power to cool down
JT 180	2'350 BTU/hr = 0.93 HP = 0.68 kW	4.5 HP / 3.4 kW
JT 250	5'010 BTU/hr = 2.00 HP = 1.48 kW	10.0 HP / 7.4 kW
JT 500	6'880 BTU/hr = 2.70 HP = 2.01 kW	13.5 HP / 10.0 kW
JT 705	10'510 BTU/hr = 4.13 HP = 3.08 kW	20.7 HP / 15.4 kW
JT 1000	13'960 BTU/hr = 5.50 HP = 4.10 kW	27.5 HP / 20.5 kW

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Advice:

15-20 % of motor power is needed for correct cooling capacity.

Example:

Nominal motor power = 0.4 kW, demands refrigerating power of 0.6-0.8 HP / 34.1 – 45.5 BTU/hr.

Refrigerating coolant:

FRIGOSOL coolant liquid (concentrate, water soluble and fully bio degradable) is available in cans of 5 lt.