Oil Cooling Unit-Model Selection Checklist

●Selection checklist	※Be sure to fill in.	
Purpose※		Ex:For cooling liquid
Liquid viscosity and type※		Ex:VG-2, oil coolant
Temperature accuracy※		Ex:±2~3℃
Highest ambient temperature※		Ex:40℃
Setting temperature※		Ex:25℃
Cooling way※ (Refers to the condenser)	☐Air-cooled ☐Water-cooled Water Temperature:　℃,Flow Rate:　l/min, Pressure:　Mpa	
Currently models in use		Ex:YH-O
Fluid physical properties	Density:　kg/m³ ; Specific Heat:　kcal/kg℃	Ex:830 kg/m³ ; 0.452 kcal/kg℃

●Selection table

1)Spindle related information

Machine spindle output	kW	Ex:1.5kW
With tank or not	☐With ☐Without	

2)Cooling oil, lubricating oil

Pump motor	kW	Ex:0.75kW
Oil circulation amount	l/min	Ex:25 l/min
Output pressure	MPa	Ex:0.3 MPa

3)If cooling fluid temperature data cannot be collected

Processing methods		Ex:Roughing, fine machining
With chipcon or NOT	☐With ☐Without	
Number of pumps / Motor Output		Ex:2 sets,750W
Oil tank capacity		Ex:200L
Spindle motor output		Ex:1.5kW

●Simple Cooling System Circulation Diagram

4) If cooling fluid temp data can be collected

Time	Tank temp.℃	Room temp.℃
0min		
10min		
20min		
30min		
40min		
50min		
60min		
2hr		
3hr		
4hr		
5hr		
6hr		
7hr		

【Measurement methods】
The initial temperature of the coolant is the same as the ambient temperature. After the cooler starts, record the temperature value for a period of time and make a curve as shown in the lower left figure.

【Precautions】
Please assist in collecting information on actual processing conditions. If there is an auxiliary cooling device, please record the temperature difference between the inlet and outlet of the cooling device and the circulating flow.

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