

Oil cooling unit AKZ**6



Features

- 1. High accuracy oil temperature control**
Realized high level oil temperature control by 0.1°C, because optimum oil temperature control software (our own development) is applied.
- 2. Digital setting**
The adoption of liquid crystal display digital controller makes it possible to set temperature so delicate as 0.1°C, and the handling characteristics increases as temperature setting accuracy increases.
- 3. Mounted a machine interface (under patent pending)**
Since equipped as a standard accessory with a communication function (machine interface) to be able to set temperature through a talk to a machine tool, the alteration of many kinds of operation modes through signals from a machine is possible.
- 4. New design in a slim style**
The new design with a compactness and a slim style makes it possible to realize the installation area reduction.
- 5. Equipped with operation monitor function.**
Adopting a liquid crystal display panel easy to see, the operation state always can be monitored.

Specifications

Model name		AKZ106	AKZ206	AKZ306
Max. cooling capacity (50/60Hz)	kW	3.8/4.2	5.9/6.2	8.7/9.5
	kcal/h	3300/3600	5100/5300	7500/8200
Power supply	Main circuit (50/60Hz)	Three phase 200/200-220V		
	Control circuit (50/60Hz)	Single phase 200/200-220V		
	Capacity (200/220V) kVA	2.3/2.6	4.7/5.0	9.7/10.3
Exterior color		Ivory (5Y 7.5/1)		
External dimensions (H W D) mm		1020 360 450	1220 430 500	1220 560 620
Compressor (hermetic rotary type)		0.75kW, 2P	1.5kW, 2P	2.2kW, 2P
Evaporator		Shell and coil type		
Condenser		Cross-fin coil type		
Fan		Propeller fan		
Motor	Oil pump	0.4kW, 4P	0.75kW, 4P	
	Fan	Common use with oil pump	66W, 4P 2 pieces	80W, 4P 2 pieces
Oil pump displacement volume (50/60Hz)L/min		24/29	34.5/41.5	
Temp. control (Selectable)	Tuned type ^{Note)2}	Inlet oil temperature or outlet oil temperature against room temperature -10~+10°C (factory set value: inlet oil temperature control, 0°C)		
	Fixed type	Inlet oil temperature or outlet oil temperature 5~50°C		
Refrigerant control		Electronic expansion valve		
Protection devices		Over current relay (motor for pump), high pressure switch, compressor protection thermostat, reverse circle protector, restart protection timer, low room temperature protection thermostat, high oil temperature protection thermostat, low oil temperature protection thermostat, relief valve for pump, inverter protection devices assembly		
Refrigerant	Name	R22		
	Charged volume kg	0.92	1.64	1.67
Refrigeration oil	Name	SUNISO 4GS Di		
	Charged volume L	0.5	0.63	1.1
Application range	Room temperature °C	5~45		
	Inlet oil temperature °C	5~50		
	Oil viscosity mm ² /s	4~200		
	External pressure loss	Discharge side	0.3MPa {3.0kgf/cm ² } or less	
Suction side		-30.7~0kPa {-230~0mmHg}		
Usable oil		Lubricant, petroleum oil hydraulic working oil		
Weight kg		70	105	150
Transport vibration performance		Vertical 1 Gx7.5h (but 10~100 Hz sweeping, 5min/cycle)		
Rated current of wiring circuit breaker ^{Note)3} A		15		30

Note) 1. The max. cooling capacity shows the max. value in an applied range of ISO VG32.

2. The separate arrangement of optional parts makes it possible to use in a machine tuning.

3. Provide the most suitable wiring circuit breaker corresponding to the supply capacity of above mentioned models for the power supply.

4. Contact us if any special specification is included.