

# Oil cooling unit AKJ (H)\*\*6



## Features

Existing AKJ "0" series has been fully changed to the new line-up AKJ (H) "6" series. It realizes enriched line-up with both performance and functions.

### 1. Enriched line-up

The new four HP model is added to the existing 1/2, 1, 1.2 HP. It becomes the new line-up with 4 models in total.

### 2. Standardization of the attached heater timer specs

In addition to existing [cooling only AKJ type], [heater timer] (AKJH type) is specked in as standard specification.

### 3. Expansion of the viscosity range

The usable viscosity range is expanded from "up to ISO VG2" of existing value to "up to VG32" for the new.

### 4. Widen range of usable temperature range (No.1 in the industry)

The usable range in either room temperature or liquid temperature is expanded as from 10~40°C to 5~45°C or from 10~40°C to 5~50°C respectively.

### 5. Mounted a micro computer with multiply function

Liquid crystal display is adopted on a control panel. It is possible to display many types of displays like a digital of operation mode, many variety of monitor and individual self-diagnosis alarm. Besides, thermometer and timer functions are provided as standard accessories, resulting in easy utility.

### 6. Slim for new design

Slim and compactness realizes a space saving for installations.

### 7. To put importance on the characteristics of installation and maintenance

Front suction and upper exhausting system keep superiority for installation and maintenance works.

## Specifications

Model name		AKJ56	AKJH56	AKJ106	AKJH106	AKJ206	AKJH206	AKJ306	AKJH306
Max. cooling capacity (50/60Hz)	kW	1.5/1.6		2.7/2.8		5.3/5.8		8.4/9.3	
	kcal/h	1280/1350		2300/2400		4600/5000		7200/8000	
Heating capacity with heater	kW {kcal/h}	—	1 {860}	—	1 {860}	—	2 {1720}	—	4 {3440}
Power supply	Main circuit (50/60Hz)	Three phase 200/200-220V							
	Control circuit (50/60Hz)	Single phase 24V							
	Capacity (200/220V) kVA	1.4/1.5	2.4/2.5	1.8/2.0	2.8/3.0	3.8/4.2	5.8/6.2	6.0/6.6	8.5/9.0
Exterior color		Ivory (5Y 7.5/1)							
External dimensions (H×W×D)	mm	610(960)×360×395		760(1110)×360×395		995(1415)×475×545		950(1370)×620×625	
Compressor (hermetic rotary type)		0.4kW, 2P		0.6kW, 2P		1.5kW, 2P		2.2kW, 2P	
Evaporator		Open coil type							
Condenser		Cross fin coil type							
Fan		Propeller fan							
Motor	Fan	40/40W, 4P		56/66W, 4P		56/66W, 4P×2		80/115W, 4P×2	
	Stirrer	50W, 4P				50W, 4P×2		75W, 4P×2	
Heater	kW	—	1	—	1	—	2	—	2×2 pieces
Temp. control (Selectable)	Tuned type	Inlet oil temperature or outlet oil temperature for room temperature -10~+10 C (factory set value: inlet oil temperature control, 0 C)							
	Fixed type	Tank liquid temperature 5~50 C							
Refrigerant control		Capillary tube							
Protection devices		Over-current relay (stirrer's motor), over current protector (compressor), high pressure switch, compressor protection thermostat, reverse phase protector, restart protection timer, low room temperature protection thermostat, high oil temperature protection thermostat, low oil temperature protection thermostat, fuse, heater vacant boiling protection thermostat*							
Refrigerant	Name	R22							
	Charged volume	kg	0.42	0.68	1.7	3.1			
Refrigeration oil	Name	SUNISO 4GS Di							
	Charged volume	L	0.4			0.85		1.50	
Application range	Room temperature	C 5~45							
	Tank oil temperature	C 5~50							
	Oil viscosity	mm <sup>2</sup> /s 0.5~200							
Usable oil		Aqueous cutting and grinding liquid Lubricant, cutting oil, grinding oil, lubricant, petroleum hydraulic working oil							
Weight	kg	35	37	43	45	85	90	120	130
Transport vibration performance		Vertical 1 G×7.5h (but 10~100 Hz sweeping, 5 min/cycle)							
Rated current of wiring circuit breaker <sup>Note)3</sup>	A	15						30	
Tank		<sup>Note)4</sup> (Depth; 400 mm or deeper)				<sup>Note)4</sup> (Depth; 470 mm or deeper)			

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

2. Vacant boiling protection thermostat with mark\* is only applied for AKJH type.

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

4. Provide it in your local.

5. Contact us if any special specification is included.