



The new Daikin '9 Series' hybrid oil coolers save you money in four distinct ways:

## ENERGY

Advanced IPM motor technology and R410A refrigerant reduces energy consumption and is monitorable through the operation panel, allowing longer unit life, reduced energy costs and sustainable savings.

## TEMPERATURE CONTROL

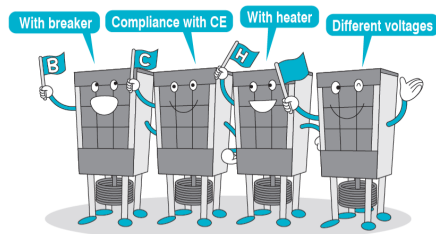
The high accuracy temperature control has been advanced further in the '9' series due to the optimal control of the compressor and electronic expansion valve.

## ALARM FUNCTIONS

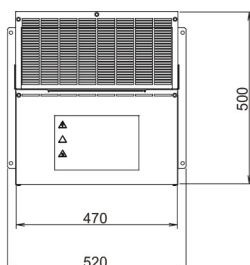
State-of-the-art features provide proper maintenance support with refrigerant gas leakage detection, an oil temperature warning, auto-tuning, a 999-hour timer and a preventative maintenance function that notifies the operator when the air filter or condenser is clogged.

## COMPATABILITY

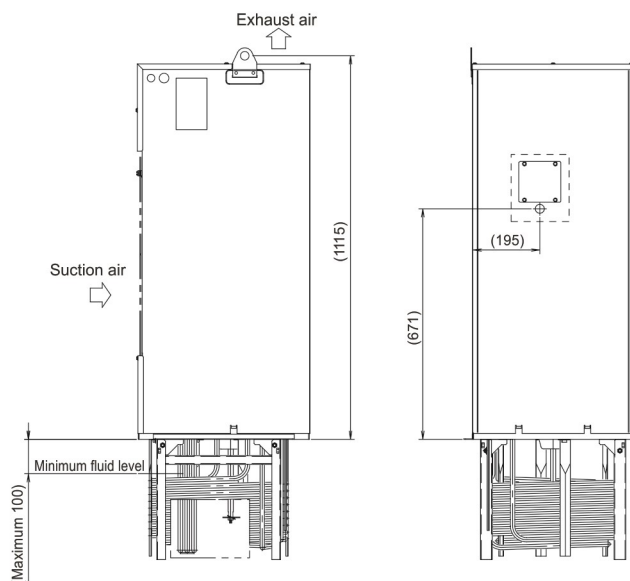
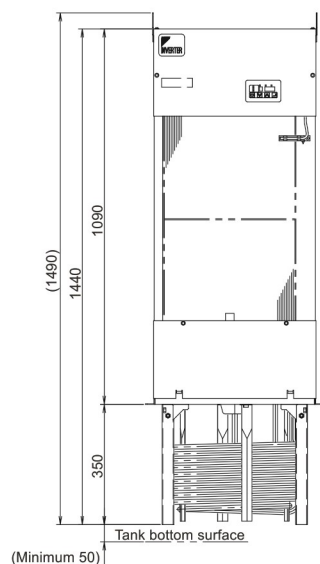
90% of all standard industrial applications can be replaced by a Daikin hybrid unit allowing for much greater continuity in your factory, and reduces the amount of new units and spare parts required to be held in stock.



## AKJ569



|                  |                     |                    |                           |
|------------------|---------------------|--------------------|---------------------------|
| Horse Power      | Equivalent to 2.0HP | Refrigerant Type   | R410A                     |
| Cooling Capacity | 5.0/5.6kW           | Refrigerant Amount | 1.07kg                    |
| Power Supply     | AC 3-phase 200/220v | Oil Viscosity      | 0.5-200mm <sup>2</sup> /S |
| Compressor       | Equivalent to 1.5kW | Noise              | 65dB(A)                   |
| Agitator         | 3-phase, 60W, 4P    | Weight             | 72kg                      |
| Operating Temp   | 5-50°C              | Dimensions         | 1450x470x500              |



AKJ200AK

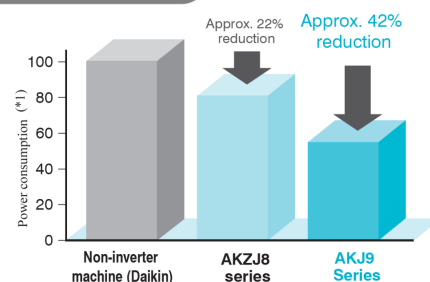
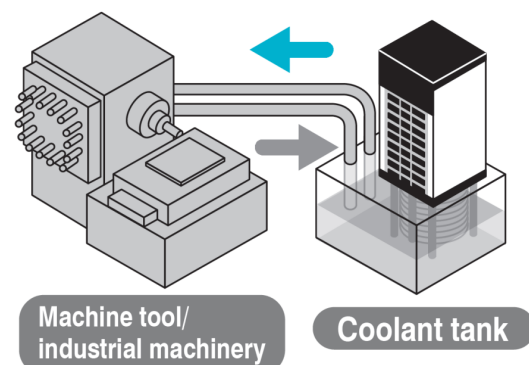
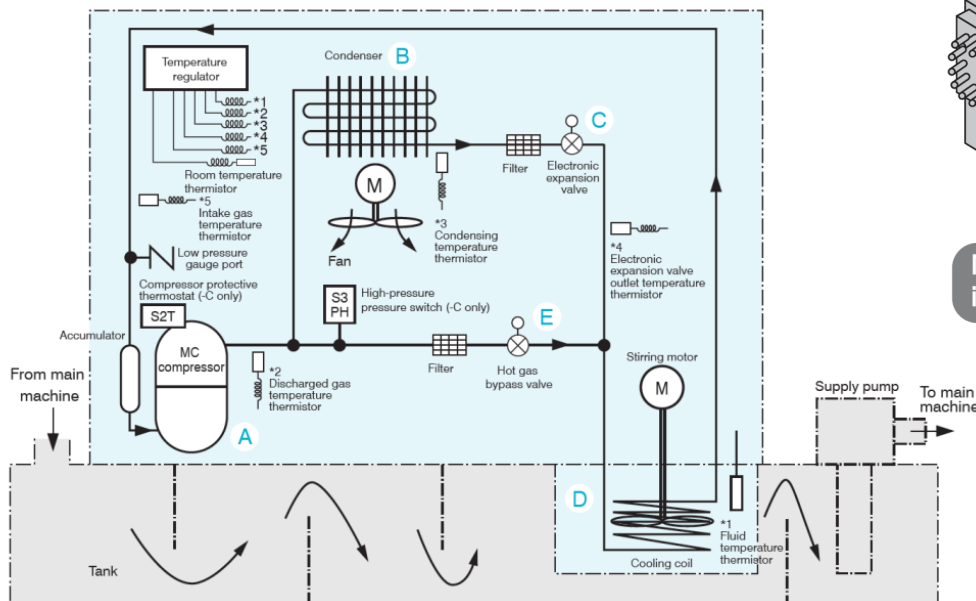
AKJ206

AKZJ567

AKZJ568

AKJ569

## How do the Oil Cooling Units work?



|          |                                                                                                                                                                                                                                          |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b> | Refrigerant gas is converted into compressed gas at high temperature and high pressure by a compressor so that the gas can be easily cooled and liquified by a condenser                                                                 |
| <b>B</b> | In the condenser, the gas at high temperature and high pressure generated in the compressor is cooled with air and converted into liquid at high temperature and high pressure                                                           |
| <b>C</b> | The electronic expansion valve reduces the pressure of the liquid at high temperature and high pressure and converts it into liquid at low temperature and low pressure by throttling it so that it can be easily vaporised in a cooler  |
| <b>D</b> | In the cooling coil, liquid at low temperature and low pressure generated in the electronic expansion valve absorbs heat from the coolant, evaporates (cools the coolant), and is converted into gas at low temperature and low pressure |
| <b>E</b> | The bypass mechanism controls the cooling capacity by adjusting the volume of gas at high temperature and high pressure supplied to the cooler when heat load is low                                                                     |

## Spare parts for the AKJ569

| Item             | Parts Description               | Part Number    |
|------------------|---------------------------------|----------------|
| PC Boards        | Control Panel Assembly          | SB-22302414-01 |
|                  | Main Control Board              | SB-PP02858-04  |
|                  | IPM Board                       | SB-22201638-01 |
| Compressor Parts | Compressor                      | SB-2YX36EXD    |
|                  | Compressor Terminal Cover       | SB-3PD03148-1  |
|                  | Main Electronic Exp. Valve Coil | SBAKZ-016      |
|                  | Main Electronic Exp. Valve Body | SB-1936172-1   |
|                  | HGB Electronic Exp. Valve Coil  | SBAKZ-003      |
|                  | HGB Electronic Exp. Valve Body  | SB-22301854-01 |
|                  | Vibration Isolator              | SB-3PC01011-3  |
| Fan Assembly     | Fan Motor                       | SBAKZ-017      |
|                  | Fan Blade                       | SB-FB569-01    |
| Thermistors      | Discharge Pipe (Th-6)           | SB-22303053-01 |
|                  | Condenser (Th-7)                | SB-22303053-03 |
|                  | Expansion Valve (Th-8)          | SB-22303053-02 |
|                  | Liquid Temperature (Th-4)       | SB-22303054-01 |
|                  | Room Temperature (Th-3)         | SB-22303052-01 |
| Other Products   | Agitator Motor                  | SBAKJ-005      |
|                  | Filter Mesh                     | SB-Y4453074-04 |
|                  | Inline Filter                   | SB-693959      |

## Daikin Oil Cooling Unit (Immersion Type) Specification Cross Reference Guide

| Specification Guide | AKJ189                                       | AKJ359                               | AKJ459                               | AKJ569                               | AKJ909                               |
|---------------------|----------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Horse Power         | 0.5HP                                        | 1.2HP                                | 1.5HP                                | 2.0HP                                | 3.0HP                                |
| Cooling Capacity    | 1.6/1.8kW                                    | 3.2/3.5kW                            | 4.2/4.5kW                            | 5.0/5.6kW                            | 8.0/9.0kW                            |
| Power Supply        | AC 3-phase 200/220V 50/60Hz                  |                                      |                                      |                                      |                                      |
| Compressor          | 0.4kW                                        | 0.75kW                               | 1.1kW                                | 1.5kW                                | 2.2kW                                |
| Agitator Motor      | 3-phase, 60W, 4P                             |                                      |                                      |                                      |                                      |
| Operating Temp      | 5 to 50°C                                    |                                      |                                      |                                      |                                      |
| Dimensions (mm)     | H = 920mm<br>W = 360mm<br>D = 440mm          | H = 1045mm<br>W = 360mm<br>D = 440mm | H = 1200mm<br>W = 360mm<br>D = 440mm | H = 1450mm<br>W = 470mm<br>D = 500mm | H = 1630mm<br>W = 560mm<br>D = 620mm |
| Refrigerant Type    | R410A                                        |                                      |                                      |                                      |                                      |
| Refrigerant Amount  | 0.55kg                                       | 0.76kg                               | 0.99kg                               | 1.07kg                               | 1.58kg                               |
| Oil Viscosity       | 0.5 to 200mm <sup>2</sup> /s (ISO VG2 to 32) |                                      |                                      |                                      |                                      |
| Noise               | 62dB(A)                                      |                                      |                                      | 65dB(A)                              | 68dB(A)                              |
| Weight              | 38kg                                         | 44kg                                 | 50kg                                 | 72kg                                 | 89kg                                 |