



Presentation of the Oil Hydraulics and Liquid Cooling Division





Who we are

Leading Air
Global No.1
Air Conditioning
Manufacturer



Founded in **1924**
100 years history

More than **30 bn. €**
Overall sales

More than **98.000**
employees worldwide

People-centered
Management



DAIKIN Oil Hydraulics Division in Europe



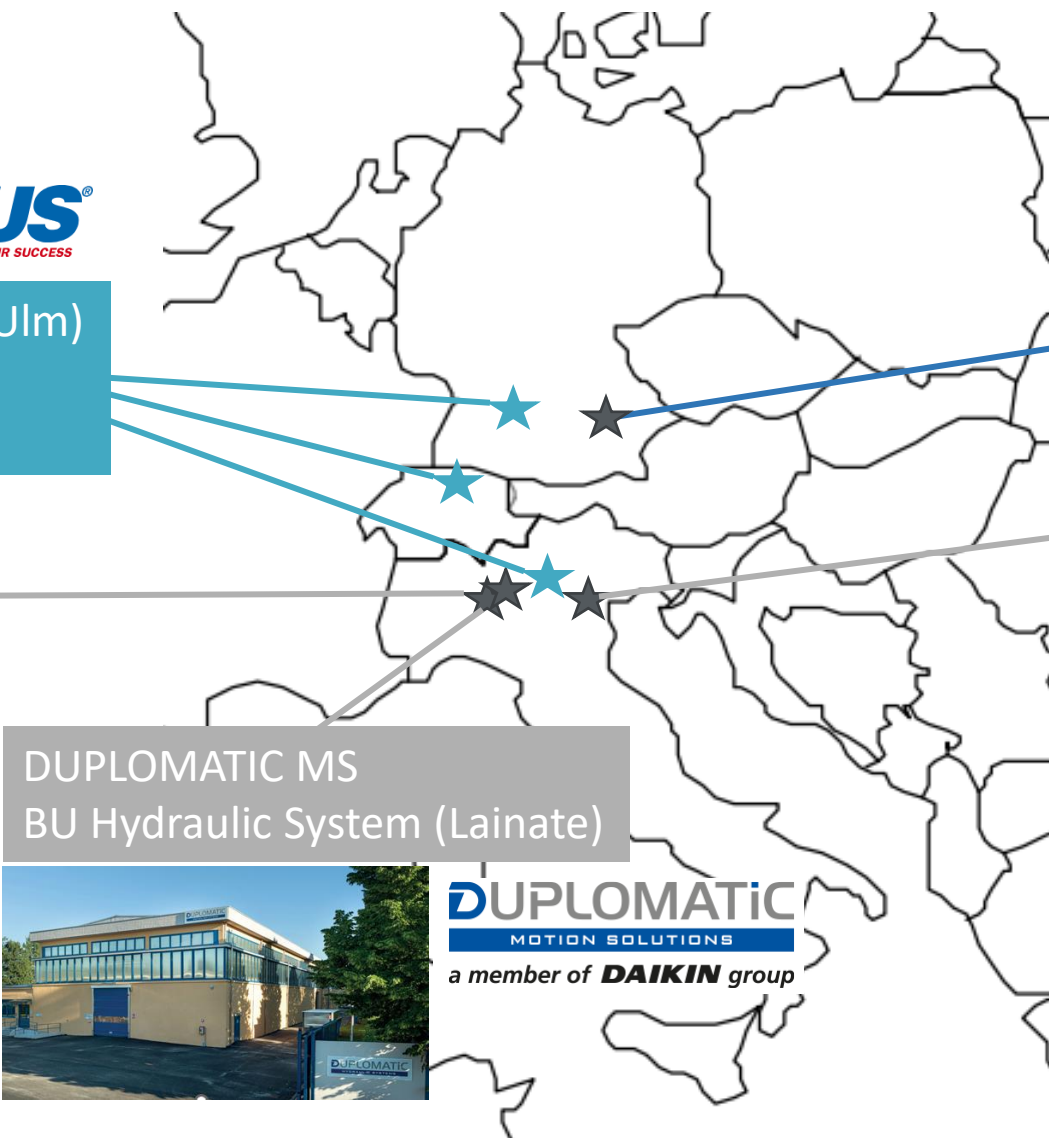
BIBUS®
SUPPORTING YOUR SUCCESS

SAUER BIBUS Germany (Neu Ulm)
BIBUS AG (Switzerland)
BIBUS ITALIA SRL (Italy BO)

DUPLOMATIC MS
Headquarters (Parabiago)



DUPLOMATIC
MOTION SOLUTIONS
a member of **DAIKIN** group



DUPLOMATIC MS
BU Hydraulic System (Lainate)



DUPLOMATIC
MOTION SOLUTIONS
a member of **DAIKIN** group



DAIKIN

DAIKIN Airconditioning Germany
Oil Hydraulics Division (Munich)

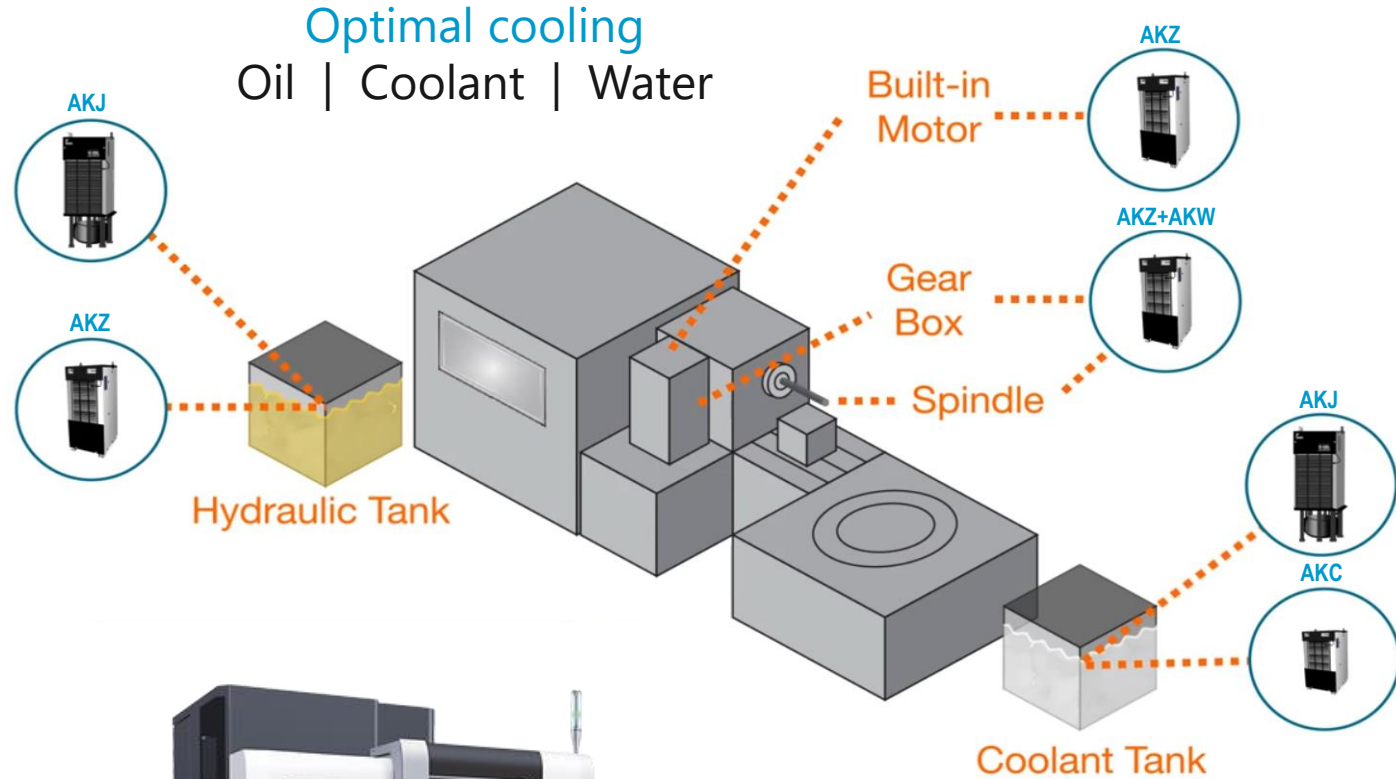
DUPLOMATIC MS
BU Cooling + Hydraulic System (Padova)



DUPLOMATIC
MOTION SOLUTIONS
a member of **DAIKIN** group

★ **DAIKIN Group**
★ **Sales and Service Partner**

Industrial Cooling Application



Application example: horizontal machining center

AK Series

AKZ+W

Circulation type
For oil / water



AKJ

Immersion type
For oil / coolant



AKC

Circulation type
For coolant



up to **40 %**
energy saving

- High accuracy ± 0.1 °C control
- For hydraulic fluid and coolant
- 9 patterns of operation mode available

Industrial Hydraulics and Cooling

Hybrid units



Mobile hydraulics



Pumps

Motors

Conventional items



Pumps

Valves

Solenoid valves

Lubrication



Grease Pumps

Industrial Hydraulic Applications



Machine tools

Presses

Vulcanizing machines

Injection molding machines

ECO-RICH and Super Unit series

- Frequency-controlled drive
- Communication function



ECO-RICH

up to **60 %**
energy saving

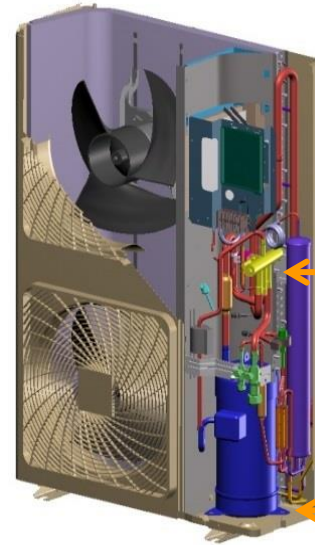
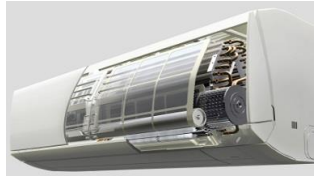


SUPER UNIT

up to **50 %**
energy saving

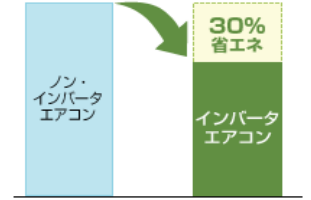
Advantages by the DAIKIN core technologies

- ✓ Achieves high energy saving performance
- ✓ High-efficiency IPM motor equipped units
- ✓ Low heat generation
- ✓ Low operating noise
- ✓ High-accuracy temperature control
- ✓ New products available with 400 V



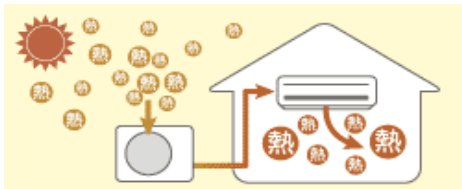
Inverter Technology

Automatic control adopting temperature difference from setting temp. and room temp.



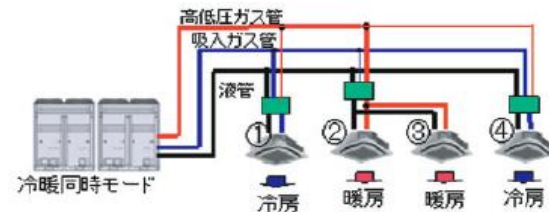
Heat pump technology

Pumping heat from outside and using air conditioning



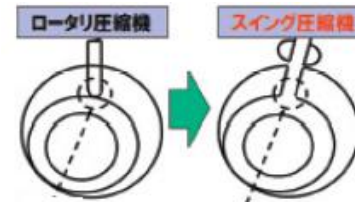
Refrigerant control

Consistent Control for refrigerant



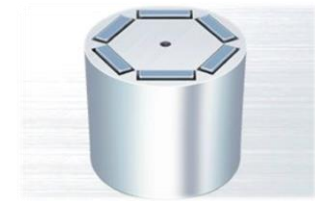
Compressor Technology

Original Swing system



DC Motor Technology

Utilizing the two torques of the neodymium magnet realize substantial energy saving



Reluctance DC Motor

IPM Motor-Technology

DAIKIN Interior Permanent Magnet Synchronous Motor



Air conditioning

Cooling capacity control



Hydraulic Unit

Pressure & Flow control



Cooling Unit

Temperature control

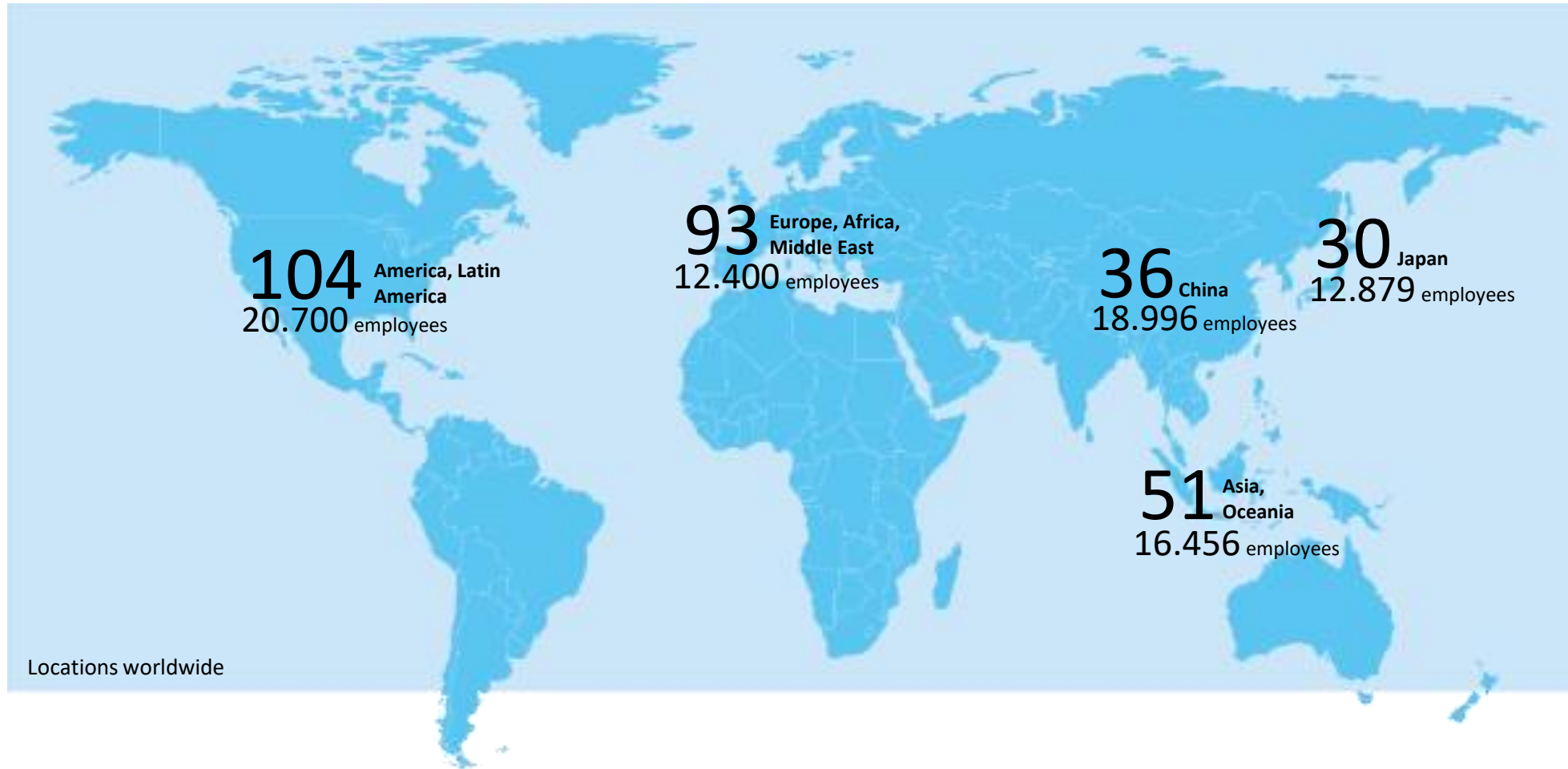
- ✓ Our oil hydraulic systems apply IPM motor
- ✓ Reduces power consumption & allows high accuracy control

Strong Network

Oil Hydraulics Division

- Daikin Airconditioning Germany (1998)
- All World Machinery (Chicago, IL)
- Daikin-Sauer-Danfoss America (Ames, IA)

Headquarters (Osaka-Japan)



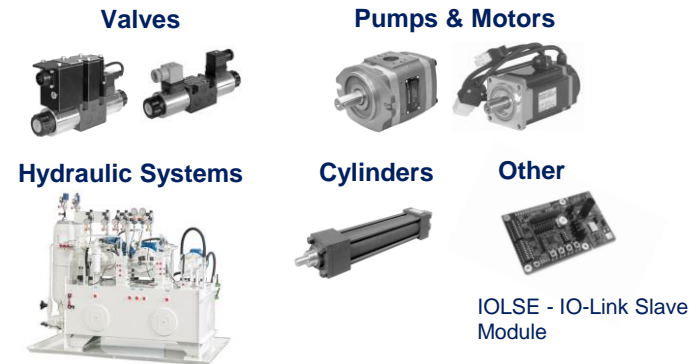
DUPLOMATIC MS a new member of Daikin



Headquarters in Italy, Parabiago (Milan)



June 2022: The acquisition of the Duplomatic MS S.p.A. group with over 650 employees by Daikin Industries is completed. As a result of this transaction, Daikin Oil Hydraulics now has an extensive product range in Europe, solid technical capabilities for hydraulic systems and refrigeration equipment, and a strong business base.



Individual systems in conjunction with the frequency-controlled Daikin gensets can be manufactured directly in the EU with the appropriate components. Customer-specific adaptations for our liquid cooling units are therefore also possible in Europe.



Extension of Compliant Components (CETOP) for European Requirements.



DACH Sales Team



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Research & Development

The new Technology and Innovation Center (TIC) aims to create new value based on the world's best technologies and highly differentiated products. For this reason, people from different backgrounds gather across national borders from inside and outside the company to consolidate their strengths and passions in making TIC a venue for the challenge of realizing collaborative innovation.



Total Area of Approx. **58K** m²

Located in **Settsu**, Osaka, Japan (Yodogawa Plant)

Opened in **2015**

Approx. **700** researchers and development engineers

DAIKIN in numbers

Facts about the market leader

67 Mio. t

CO₂ emissions were 2018
through the use of air-gentle
DAIKIN systems saved
worldwide

25

DAIKIN belongs to
the 25 most valuable
Japanese brands

1,5 Mio.

Product
combination
possibilities

90 %

The technical equipment of a
building is supplied by DAIKIN

135.000 m²

Production area
in Europe

100

belongs to DAIKIN to
the "Top 100 Global
innovators"

7

The seventh largest
Production facility
worldwide it is
DAIKIN plant in
Texas, United States

260

hotel projects in
Germany in the last six
years with DAIKIN
technology implemented

>12.000

Employees in
Europe

Multiple Awards



BMU Efficiency Award
"Cold and heat" for
Conveni-Pack cooling
solution

2009



iF Product Design Award
for air conditioner DAIKIN
Emura

2010



German Refrigeration
Award for Live Laboratory
research project on
commercial net-zero
energy buildings



reddot design award
for exhibition stand
concept

2011



German Refrigeration
Prize and ECOCARE Award
for dm building services
concept

2012



Plus X Award for VRV IV
air-to-air heat pump



reddot design award for
air conditioner DAIKIN
Ururu Sarara

2013



Top product trade for
cooling solution
Conveni-Pack



universal design award
for Euroraster false
ceiling device



Focus Open Award,
Good Design Award
and reddot award for
the DAIKIN Emura air
conditioner

2014



iF Design Award and
German Design Award
for the DAIKIN Emura
air conditioner

2015



Chillventa Award for
dm energy concept



German Design Award
Special
for Euroraster
intermediate ceiling
device

2016



rac Cooling Industry
Award for Sky Air A-
Series heat pumps



Good Design Award
for air conditioner
DAIKIN Stylish

2017



German cold price for
remote diagnosis tool



2 Chillventa Awards:
for the Nordport Plaza
Hotel climate concept
/ for the installation of
the first DAIKIN
Altherma 3



iF Design Award and
reddot award for
DAIKIN Altherma 3 R
heat pump, DAIKIN
Stylish air conditioner
and Madoka remote
control

2018



National ACR & Heat Pump
Awards 2018 for Sky Air A-
Series heat pumps

Architects' Choice Award
"Best Renewable Product"
for VRV IV with recycled
refrigerant



iF Design Award and
reddot Design Award for
heat pump DAIKIN
Altherma 3 H HT

2019



www.daikinpmc.com/en/



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