

CARE FOR THE **ENVIRONMENT**

UNCOMPROMISING
P E R F O R M A N C E

DISCOVER THE NEW LIQUID CHILLERS AND HEAT PUMPS WITH
LOW GWP REFRIGERANTS



FUJITSU

AIR CONDITIONING

AIRSTAGE

CARE FOR THE ENVIRONMENT

UNCOMPROMISING PERFORMANCE

DISCOVER THE NEW LIQUID CHILLERS AND HEAT PUMPS WITH **LOW GWP REFRIGERANTS**

SCROLL COMPRESSORS



ALTERNATIVE TO



GWP=1.924

A full range of Liquid Chillers, Heat Pumps and Multifunctional Units from 50 to 1.220 kW



GWP = Global Warming Potential

SCREW AND TURBOCOR
COMPRESSORS



ALTERNATIVE TO



GWP=1.300

A full range of Liquid Chillers,
Heat Pumps and Multifunctional Units
from 210 to 3.820 kW



SCREW AND TURBOCOR
COMPRESSORS



A full range of Liquid Chillers
from 200 to 1.920 kW





GWP=676

FOR SCROLL COMPRESSORS

A FULL RANGE OF LIQUID CHILLERS, HEAT PUMPS AND MULTIFUNCTIONAL UNITS FROM 50 TO 1.220 KW.



-65% GWP



R410A



R452B

ENVIRONMENTALLY FRIENDLY

- ✓ GWP = 676. 65% LOWER IMPACT ON GLOBAL WARMING THAN R410A
- ✓ ODP = 0. NO IMPACT ON THE OZONE
- ✓ CATEGORY: HFO/HFC BLEND

SAFE AND HIGHLY PERFORMING

- ✓ LOW FLAMMABLE AND NON TOXIC: A2L CLASS
- ✓ COOLING CAPACITY -2% THAN R410A
- ✓ EFFICIENCY (EER) +1% THAN R410A

WIDE APPLICATION

- ✓ HEAT PUMPS
- ✓ LIQUID CHILLERS
- ✓ MULTIFUNCTIONAL UNITS
- ✓ ALSO WITH FREE-COOLING TECHNOLOGY

GWP = Global Warming Potential
ODP = Ozone Depletion Potential

RANGES

AIRCOOLED LIQUID CHILLERS

UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
CHA/G/AF 182-P÷604-P	AQUALOGIK*	50-178	54-194	A ⁺ A ⁺
CHA/G/A/WP 182-P÷604-P	AQUALOGIK*	47-157	54-192	A ⁺
CHA/G 182-P÷604-P	AQUALOGIK*	46-174	53-182	
CHA/G/FC 182-P÷604-P	FREE COOLING	51-170	---	FC
CHA/G 182÷604	AQUALOGIK*	48-175	54-183	
CHA/G/AF 726-P÷24012-P		192-675	209-735	A ⁺ A ⁺
CHA/G/A/WP 726-P÷24012-P		189-654	221-743	A ⁺
CHA/G 726-P÷36012-P		194-1025	222-1180	
CHA/G/FC 726-P÷36012-P	FREE COOLING	203-1074	---	FC
CHA/G 726÷36012		195-1035	223-1192	

WATERCOOLED LIQUID CHILLERS

UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
CWW/G 182-P÷604-P		54-190	71-231	
CWW/G 182÷604		56-191	73-232	
CWW/G 726-P÷36012-P		218-1211	283-1493	
CWW/G 726÷36012		219-1223	284-1507	

MULTIFUNCTIONAL UNITS

UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
CHA/G/EP 182-P÷693-P		47-185	51-198	4P
CHA/G/EP 604-P÷2406-P		163-627	176-676	4P

* Option

LEGENDA

COMPRESSOR	EXCHANGER	SOLUTION		
Scroll	Plate	Free-Cooling	Aqualogik	A CLASS Cooling
	Shell and Tube	Domestic Hot Water	4-Pipe system	A CLASS Heating



GWP=647

FOR SCREW AND TURBOCOR COMPRESSORS

A FULL RANGE OF LIQUID CHILLERS, HEAT PUMPS, AND MULTIFUNCTIONAL UNITS FROM 210 TO 3.820 KW.

-50% GWP



**1300
GWP**

R134a



**647
GWP**

R513A



ENVIRONMENTALLY FRIENDLY

- ✓ GWP = 647. 50% LOWER IMPACT ON GLOBAL WARMING THAN R134a
- ✓ ODP = 0. NO IMPACT ON THE OZONE
- ✓ CATEGORY: HFO/HFC BLEND

SAFE AND HIGHLY PERFORMING

- ✓ NON FLAMMABLE AND NON TOXIC: A1 CLASS
- ✓ COOLING CAPACITY -2% THAN R134a
- ✓ EFFICIENCY (EER) -1% THAN R134a

WIDE APPLICATION

- ✓ HEAT PUMPS
- ✓ LIQUID CHILLERS
- ✓ MULTIFUNCTIONAL UNITS
- ✓ EXCELLENT FOR INDUSTRIAL PROCESS APPLICATIONS WITH LOW WATER TEMPERATURE
- ✓ ALSO WITH FREE-COOLING TECHNOLOGY

GWP = Global Warming Potential
ODP = Ozone Depletion Potential

RANGES

AIRCOOLED LIQUID CHILLERS

UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
CHA/J/A 1302÷4802	INVERTER SCREW * MICROCHANNEL *	257-1110	266-1150	
CHA/J 1202-B÷6802-B		216-1561	220-1406	
CHA/J/FC 1202-B÷6002-B	FREE COOLING	212-1247	---	
CHA/TTJ 1301-1÷5004-2	MICROCHANNEL *	242-1423	---	
CHA/TTJ/FC 1301-1÷5004-2	FREE COOLING	240-1411	---	

WATERCOOLED LIQUID CHILLERS

UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
CWW/J/A 1302÷4802	INVERTER SCREW *	274-1260	---	
CWW/J 1302-B÷9003-B		261-2417	---	
MEA/J 1302-B÷9003-B		230-2119	---	
CWW/TTJ 1601-1÷14406-1		312-3824	---	
CWW/TTJ/DR 1601-1÷6204-1		291-1548	---	

MULTIFUNCTIONAL UNITS

UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
CHA/J/EP 1352÷4402	INVERTER SCREW *	272-1108	277-1130	

* Option

LEGENDA

COMPRESSOR	EXCHANGER	SOLUTION
Inverter Screw	Shell and Tube	Free-Cooling
Screw	Flooded Shell and Tube	Domestic Hot Water
Turbocor	Microchannel	4-Pipe system

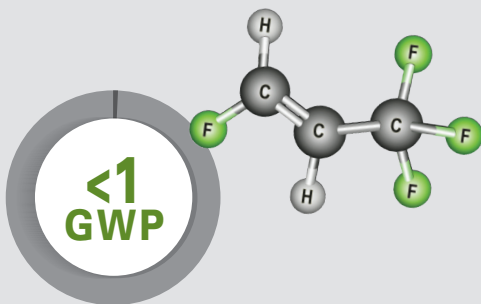
A CLASS Cooling
 A CLASS Heating



GWP <1

FOR SCREW AND TURBOCOR COMPRESSORS

A FULL RANGE OF LIQUID CHILLERS FROM 200 TO 1.920 KW.



R1234ze



ENVIRONMENTALLY FRIENDLY

- ✓ GWP <1. NO IMPACT ON GLOBAL WARMING. THE BEST IN THE MARKET
- ✓ ODP = 0. NO IMPACT ON THE OZONE
- ✓ CATEGORY: HFO

SAFE AND HIGHLY PERFORMING

- ✓ LOW FLAMMABLE AND NON TOXIC: A2L CLASS
- ✓ COOLING CAPACITY -20% THAN R134a
- ✓ EFFICIENCY (EER) +1% THAN R134a
- ✓ WIDE OPERATING RANGE, EXCELLENT PERFORMANCE AT HIGH AMBIENT TEMPERATURES

WIDE APPLICATION

- ✓ LIQUID CHILLERS
- ✓ ALSO WITH FREE-COOLING TECHNOLOGY

RANGES

AIRCOOLED LIQUID CHILLERS

UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
CHA/H/A 1002÷6002	INVERTER SCREW * MICROCHANNEL *	197-1353	---	
CHA/H/FC 1002÷4802	FREE COOLING	232-1144	---	
CHA/TTH 1301-1÷4904-2	MICROCHANNEL *	262-1340	---	
CHA/TTH/FC 1301-1÷4904-2	FREE COOLING	279-1386	---	

WATERCOOLED LIQUID CHILLERS

UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
CWW/H/A 1002÷6002	INVERTER SCREW *	234-1650	---	
CWW/TTH 1701-1÷6606-1		321-1922	---	
CWW/TTH/DR 1701-1÷6606-1		301-1802	---	

* Option

LEGENDA

COMPRESSOR	EXCHANGER	SOLUTION
Inverter Screw	Shell and Tube	Free-Cooling
Screw	Flooded Shell and Tube	A CLASS Cooling
Turbocor	Microchannel	

REFERENCES

DE PASSIE SCHOOL UTRECHT, NETHERLANDS - COMFORT

DE PASSIE is a high school located in Utrecht. The school is attended by 2200 students on a wide building including classrooms, library, auditoriums and gyms, and it is currently subjected to an important rehabilitation and extension project. The aircooled reversible hydronic Heat Pumps for outdoor installation with the innovative low-GWP refrigerant R452B provide comfort to the building, with air conditioning during summertime and ambient heating during wintertime. Units feature 6 Scroll compressors each on double cooling circuit.

THE UNITS: 2 MultiPower Aircooled Reversible Heat Pumps
Total cooling capacity: 420 kW



MORE HOLSTEIN COW BREEDING FARM BÉTERA, SPAIN - FOOD PROCESS COOLING

MORE HOLSTEIN is a wide family-owned cow breeding farm with more than 3.000 dairy cattle. The farm is located in Bétera, a rural area in Valencia region. The quick fresh milk cooling and its storage are ensured by the 400 kW liquid Chiller for outdoor installation. The A class energy efficiency unit provides constant production of low temperature chilled water thanks to its 10 Scroll compressors on double cooling circuit and it operates with the innovative low-GWP refrigerant R452B.

THE UNIT: 1 MultiPower Aircooled liquid Chiller
Cooling capacity: 400 kW



CORBION BIOCHEMICAL GORINCHEM, NETHERLANDS - INDUSTRIAL PROCESS COOLING

CORBION is one of the main biochemical companies worldwide, leader in biobased food ingredients and biochemical businesses.

The liquid Chiller is installed at Gorinchem plant, in the south-east of Netherlands. The unit, a watercooled liquid Chiller installed inside a technical room, is used for chilled water constant production for industrial process cooling. It features two Screw compressors on double cooling circuit and shell and tube exchangers and it operates with the innovative low-GWP refrigerant R513A.

THE UNIT: 1 MaxiPower Watercooled liquid Chiller
Cooling capacity: 300 kW



CHEMOURS CHEMICAL DORDRECHT, NETHERLANDS - INDUSTRIAL PROCESS COOLING

The multinational CHEMOURS chemical, with its headquarter in Wilmington in the USA, came into existence upon the demerger of DuPont and it is a world leader in titanium technologies, refrigerants, fluoropolymers and chemical compounds. The liquid Chiller is installed at Dordrecht plant, where the production of fluoropolymers as Teflon™ and Viton™ take place.

The unit, a watercooled liquid Chiller for indoor installation in super silenced version, is used for chilled water constant production for industrial process cooling. It features two Screw compressors on double cooling circuit and shell and tube exchangers and it operates with the innovative low-GWP refrigerant R513A.

THE UNIT: 1 MaxiPower Watercooled liquid Chiller
Cooling capacity: 500 kW



ALSIK HOTEL AND SPA SØNDERBORG, DENMARK - COMFORT

The newly built ALSIK hotel, designed and shaped by Denmark's renowned Henning Larsen Architects, is located in the city of Sønderborg, in the south of Denmark. The hotel, that will open in spring 2019, offers a wide spa and numerous meeting room, as well as a viewing platform in the 70-metre high hotel glass tower.

The air conditioning system works with a watercooled liquid Chiller for Dry-Cooler operation. This high energy efficient unit features 3 Turbocor magnetic-levitation oil-free compressors and it is specifically designed to operate with the newest ecological refrigerant HFO-R1234ze.

THE UNIT: 1 Turbine Watercooled Liquid Chiller
Cooling capacity: 900 kW



BRYN EIENDOM - ØSTENSJØVEIEN 34 BUSINESS CENTRE OSLO, NORWAY - COMFORT

BRYN EIENDOM is one of the largest business centres in Oslo. It includes many buildings hosting offices of main local and multinational companies, as well as leisure services, canteens and gyms. The watercooled liquid Chiller for Dry-Cooler operation, installed inside a technical room, provides comfort to the building, with air conditioning during summertime. It features 4 Turbocor magnetic-levitation oil-free compressors and it is specifically designed to operate with the newest ecological refrigerant HFO-R1234ze.

THE UNIT: 1 Turbine Watercooled Liquid Chiller
Cooling capacity: 1.200 kW



TÄBY CENTRUM SHOPPING MALL TÄBY, SWEDEN - COMFORT

TÄBY CENTRUM shopping mall, located in the city of Täby, is a three-floor building with several shops and a large bright garden in the middle. The centre was built in 1968 and subjected to renovation phase in 2014-2017, with a huge project focused on minimising the environmental impact of the building (measured with TEWI parameter: Total Equivalent Warming Impact). At first stage 2 watercooled liquid Chillers have been delivered, followed by other 2 units at second working stage. All units feature Turbocor magnetic-levitation oil-free compressors and they operate with the newest ecological refrigerant HFO-R1234ze.

THE UNITS: 4 Turbine Watercooled liquid Chillers
Total cooling capacity: 4.200 kW

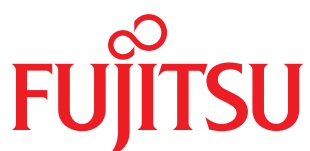


ING BANK - NEW HEADQUARTERS AMSTERDAM, NETHERLANDS - DATA CENTRE COOLING

ING (Internationale Nederlanden Groep) is a Dutch multinational banking and financial services corporation based in Amsterdam. In 2019 ING Groep N.V. will open a new headquarter in Amsterdamzuidoost: a five-floor glass building, placed in the middle of a wide green area. The building will be BREEAM certified for the highest level sustainability rating for office buildings. The aircooled liquid Chiller serves the data centres. The Unit features one Screw compressor and a shell and tube evaporator and it is specifically designed to operate with the newest ecological refrigerant HFO-R1234ze.

THE UNIT: 1 MaxiPower Aircooled liquid Chiller
Cooling capacity: 115 kW





AIR CONDITIONING



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