



**PRODUCT
OVERVIEW
2022**

FUJITSU GENERAL AIR CONDITIONING (UK) LIMITED

AIRSTAGE

Applied

PRODUCT RANGE

CLINT product ranges are compliant to ErP European Regulations.

- **ErP 2018 SCOP.** The EU Regulation n. 813/2013 fixing precise efficiency standards for heat pump units.
- **ErP 2021 SEER.** The range of units for comfort cooling application reaches the seasonal energy efficiency standards required from 2021 (EU Regulation n°2016/2281).
- **ErP 2021 SEPR.** The range of units for process cooling application reaches the seasonal energy efficiency standards required from 2021 (EU Regulation n°2016/2281).



LIQUID CHILLERS.



COMPACT LINE: The CompactLine liquid Chillers and Heat Pumps range is the ideal solution for residential or small commercial areas. Compactness and low energy consumption are the key benefits of this range, available in DOUBLE A CLASS energy efficiency with Inverter Scroll compressor.



MIDY LINE: The Heat Pumps of MidyLine series are dedicated to environment heating and domestic hot water production, providing hot water up to 60°C, as well as air conditioning during summertime. The range features A CLASS energy efficiency and AquaLogik technology with built-in hydronic kit and variable speed circulating pumps, making the use of inertial tank unnecessary.



AQUA PLUS: The AquaPlus aircooled, watercooled and condenserless liquid Chillers and Heat Pumps range is dedicated to small and medium areas in commercial or industrial buildings, up to 180 kW. Compactness and easy installation are the key benefits of this range. Dedicated models can also feature the additional AquaLogik technology with built-in hydronic kit and variable speed circulating pumps, making the use of inertial tank unnecessary. AquaPlus range is available in several variants, up to DOUBLE A CLASS energy efficiency, featuring Inverter technology on Scroll compressors and, as option, on fans and circulating pumps. Units with **R452B** and **R454B** refrigerants are also available.



MULTI POWER: The MultiPower liquid Chillers and Heat Pumps range is based on multi-Scroll design for high efficiency at part loads, with up to 12 compressors on double cooling circuit, also in DOUBLE A CLASS energy efficiency with Inverter technology. The family includes both aircooled and watercooled models with a capacity range up to 1250 kW. Units with **R452B** and **R454B** refrigerants are also available.



ENERGY POWER: The aircooled Multifunctional units of EnergyPower line are able to provide cooling, heating and domestic hot water at the same time and with the same unit. Those Multifunctional units, with capacity up to 1130 kW, are dedicated to 4-Pipe systems and are ideal for buildings with simultaneous need of ambient heating, cooling and domestic hot water, such as hotels and multifunctional buildings with service and residential users. The range includes models with both Scroll or Screw compressors. Units with **R452B**, **R454B** or **R513A** refrigerant are also available.



MAXI POWER: The MaxiPower aircooled, watercooled and condenserless liquid Chillers with Screw compressors cover capacities up to 2350 kW. Dedicated models feature Inverter technology on compressors, pumps and fans for an higher efficiency even at part load. MaxiPower range is available in several variants up to DOUBLE A CLASS. The new environmentally friendly models feature the innovative **HFO-R1234ze** refrigerant, with GWP<1 (Global Warming Potential), in order to meet the strictest international environmental regulations. Units with **R513A** refrigerant are also available.



CLIMATIC CHAMBER

In Rivignano Teor (Italy), in addition to the production plant for large Liquid Chillers, is located the newly born Climatic Chamber that allows the Company to perform witness tests in the presence of the Customer to prove the perfect functionality and performance of its Units under a huge variety of operating conditions.

This allows a wide array of tests that can be carried out from -20°C to +50°C outdoor air temperature.



TURBOLINE: The TurboLine range, equipped with Turbocor Magnetic Levitation compressors, reaches an extremely high efficiency (A CLASS) with the highest EER and SEER / SEPR in the market and a low starting current, in addition to maximum reliability and an extra silent operation. The range includes aircooled and watercooled models with a wide capacity range up to 3900 kW, also with **R513A** or **HFO-R1234ze** refrigerant.



DRY-COOLERS, REMOTE CONDENSERS AND HYDRONIC MODULES.

A comprehensive range of Dry-Coolers and Remote Condensers with air flow up to 127 m³/s and different noise levels and a full range of remote Hydronic Modules up to 2500 lt. are available to complete the liquid Chillers range.



PACKAGED ROOF TOP UNITS.



AIR PLUS: The Packaged Roof Top units of AirPlus series feature Single Skin and EC Inverter Plug-Fans. The units may feature additional Mixing Box, Free-Cooling sections and Thermodynamic Coil-Boost Heat Recovery.



AIR MAXI: The Double Skin Packaged Roof Top units of AirMaxi series feature EC Inverter Plug-Fans, also with Inverter Scroll compressor. The units may feature additional Mixing Box, Free-Cooling and Heat Recovery Sections, with different technologies: Cross-Flow type, Wheel type or Thermodynamic Coil-Boost type.



CONDENSING UNITS.

A comprehensive range of condensing units from 4 to 190 kW with different technical solutions and noise levels is available to complete the CLINT product range.




LEGEND

| COMPRESSOR | FAN | EXCHANGER | SOLUTION | REFRIGERANT |
|-----------------|------------------------|------------------------|---|-------------|
| Rotary | EC Inverter Axial | Plate | Free-Cooling | R410A |
| Inverter Scroll | Axial | Shell and Tube | Domestic Hot Water | R452B |
| Scroll | EC Inverter Radial | Flooded Shell and Tube | AquaLogik | R454B |
| Inverter Screw | Radial | Microchannel | A CLASS Cooling | R134a |
| Screw | EC Inverter Tangential | | A CLASS Heating | R513A |
| TurboCor | EC Inverter Plug-Fan | | 4-Pipe system | R1234ze |
| | | | Silenced | R407C |
| | | | Super silenced | H2O |
| | | | Single Skin | |
| | | | Double Skin | |
| | | | Mixing Box | |
| | | | Economizer | |
| | | | Economizer and Thermodynamic Coil-boost Heat Recovery | |
| | | | Economizer and Cross-flow Heat Recovery | |
| | | | Economizer and Wheel Heat Recovery | |
| | | | Heating Only | |

1. AIRCOOLED LIQUID CHILLERS AND HEAT PUMPS FOR RESIDENTIAL & LIGHT COMMERCIAL APPLICATION

COMPACT LINE


1.1 Compact size liquid Chillers and Heat Pumps with Scroll compressor and plate exchanger



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|------------------|------------------------|--------------|--------------|----------|
| CHA/IK/A 21 ÷ 81 | INVERTER SCROLL | 6,0-22 | 6,7-25 | |

MIDYLINE


1.2 Dedicated Heat Pumps with Scroll compressors and plate exchanger



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|-------------------------|------------------|--------------|--------------|----------|
| CHA/ML/ST 41 ÷ 71 | AQUALOGIK | 7,3-16 | 11-23 | |
| CHA/ML/ST 91 ÷ 151 | AQUALOGIK | 20-37 | 31-53 | |
| CHA/ML/ST 182-P ÷ 302-P | AQUALOGIK | 44-101 | 57-114 | |

MIDYLINE

1.3 Dedicated Heat Pumps with Scroll compressors and plate exchanger




| UNITS NAME | TECHNOLOGY | HEATING (kW) | FEATURES |
|-------------------------|------------------|--------------|----------|
| CWW/Y/BH 162-P ÷ 1204-P | AQUALOGIK | 77-550 | |

*Production of hot water leaving temperature is up to 80 degrees Celsius

2. AIRCOOLED LIQUID CHILLERS AND HEAT PUMPS FOR COMMERCIAL & INDUSTRIAL APPLICATION

AQUA PLUS

2.1 Liquid Chillers and Heat Pumps with Scroll compressors and plate or shell and tube exchanger



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|----------------------------|---------------------------------------|--------------|--------------|----------|
| CHA/IK/A 91 ÷ 151 | INVERTER SCROLL MICROCHANNEL * | 26-42 | 29-48 | |
| CHA/K/FC 91 ÷ 151 | FREE COOLING | 28-43 | --- | |
| CHA/IK/A 172-P ÷ 574-P | INVERTER SCROLL MICROCHANNEL * | 50-179 | 54-193 | |
| CHA/K/AF 182-P ÷ 604-P | AQUALOGIK * | 51-183 | 55-198 | |
| CHA/K/A/WP 182-P ÷ 604-P | AQUALOGIK * | 48-161 | 56-197 | |
| CHA/K 182-P ÷ 604-P | AQUALOGIK * | 48-178 | 54-187 | |
| CHA/K/FC 182-P ÷ 604-P | FREE COOLING | 53-174 | --- | |
| CHA/K 182 ÷ 604 | AQUALOGIK * | 49-179 | 56-188 | |
| * Option CRA/IK/A 21 ÷ 131 | INVERTER SCROLL | 6,0-36 | 6,7-40 | |



2.2 Multi-Scroll liquid Chillers and Heat Pumps with plate or shell and tube exchanger



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|--------------------------|---------------------------------------|--------------|--------------|---|
| CHA/IK/A 674-P÷2356-P | INVERTER SCROLL MICROCHANNEL * | 196-668 | 212-724 | A+ A, Microchannel, Inverter, Shell & Tube, R410A, R452B, R454B |
| CHA/K/AF 726-P÷24012-P | | 197-692 | 214-754 | A+ A, Microchannel, Inverter, Shell & Tube, R410A, R452B, R454B |
| CHA/K/A/WP 726-P÷24012-P | | 194-671 | 227-762 | A, Microchannel, Inverter, Shell & Tube, R410A, R452B, R454B |
| CHA/K 726-P÷36012-P | | 199-1051 | 228-1210 | Microchannel, Inverter, Shell & Tube, R410A, R452B, R454B |
| CHA/K/FC 726-P÷36012-P | FREE COOLING III | 208-1102 | --- | Microchannel, Inverter, Shell & Tube, FC, R410A, R452B, R454B |
| CHA/K 726÷36012 | | 200-1062 | 229-1222 | Microchannel, Inverter, Shell & Tube, R410A, R452B, R454B |

* Option



2.3 Multifunctional 4-Pipe units with Scroll or Screw compressors and plate or shell and tube exchangers



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|-----------------------|-------------------------|--------------|--------------|---|
| CHA/K/EP 182-P÷693-P | | 49-190 | 52-203 | Microchannel, Inverter, Shell & Tube, 4P, R410A, R452B, R454B |
| CHA/K/EP 604-P÷2406-P | | 167-643 | 180-693 | Microchannel, Inverter, Shell & Tube, 4P, R410A, R452B, R454B |
| CHA/Y/EP 1352÷4402 | INVERTER SCREW * | 278-1133 | 283-1156 | Microchannel, Inverter, Shell & Tube, 4P, R134a, R513A |

* Option



2.4 Liquid Chillers and Heat Pumps with Screw compressors and plate or shell and tube exchanger



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|---------------------------------|--|--------------|--------------|---|
| NEW CHA/H/A 351-P÷1221-P | INVERTER SCREW MICROCHANNEL * | 79-208 | --- | A+, Microchannel, Inverter, Shell & Tube, HFO R1234ze |
| NEW CHA/H/FC 351-P÷901-P | INVERTER SCREW FREE COOLING III * | 82-170 | --- | Microchannel, Inverter, Shell & Tube, FC, HFO R1234ze |
| NEW CHA/H/A 351÷1221 | INVERTER SCREW MICROCHANNEL * | 79-211 | --- | A+ A+, Microchannel, Inverter, Shell & Tube, HFO R1234ze |
| CHA/H/A 1002÷6002 | INVERTER SCREW MICROCHANNEL * | 197-1353 | --- | A+, Microchannel, Inverter, Shell & Tube, HFO R1234ze |
| CHA/H/FC 1002÷4802 | FREE COOLING III | 232-1144 | --- | Microchannel, Inverter, Shell & Tube, FC, HFO R1234ze |
| NEW CHA/Y/A 1302÷6002 | INVERTER SCREW MICROCHANNEL * | 263-1533 | 272-1176 | A+ A+, Microchannel, Inverter, Shell & Tube, R134a, R513A |
| CHA/Y/FC 1202-B÷6002-B | FREE COOLING III | 217-1460 | --- | Microchannel, Inverter, Shell & Tube, FC, R134a, R513A |

* Option



2.5 Liquid Chillers with Turbocor compressors and shell and tube exchanger



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|--------------------------|-------------------------|--------------|--------------|--|
| CHA/TTH 1301-1÷4904-2 | MICROCHANNEL * | 262-1340 | --- | A+, Microchannel, Inverter, Shell & Tube, HFO R1234ze |
| CHA/TTH/FC 1301-1÷4904-2 | FREE COOLING III | 279-1386 | --- | Microchannel, Inverter, Shell & Tube, FC, HFO R1234ze |
| CHA/TTY 1301-1÷5004-2 | MICROCHANNEL * | 248-1456 | --- | A+, Microchannel, Inverter, Shell & Tube, R134a, R513A |
| CHA/TTY/FC 1301-1÷5004-2 | FREE COOLING III | 246-1443 | --- | Microchannel, Inverter, Shell & Tube, FC, R134a, R513A |

* Option

3. WATERCOOLED AND CONDENSERLESS LIQUID CHILLERS AND HEAT PUMPS FOR COMMERCIAL & INDUSTRIAL APPLICATION. REMOTE CONDENSERS



3.1 Liquid Chillers and Heat Pumps with Rotary or Scroll compressors and plate or shell and tube exchangers. Remote Condensers



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|---------------------|------------|--------------|--------------|---|
| CWW/K/WP 15÷151 | | 4,6-49 | 5,9-60 | Microchannel, Inverter, Shell & Tube, R410A |
| CWW/K 182-P÷604-P | | 55-195 | 73-237 | Microchannel, Inverter, Shell & Tube, R410A, R452B, R454B |
| CWW/K 182÷604 | | 57-196 | 75-238 | Microchannel, Inverter, Shell & Tube, R410A, R452B, R454B |
| MEA/K 15÷151 | | 4,0-42 | 5,1-53 | Microchannel, Inverter, Shell & Tube, R410A |
| MEA/K 182-P÷604-P | | 51-176 | 60-194 | Microchannel, Inverter, Shell & Tube, R410A |
| RCA/K 4111÷8222 | | --- | --- | Microchannel, Inverter, Shell & Tube, R410A |
| RCA/K/SL 4111÷8222 | | --- | --- | Microchannel, Inverter, Shell & Tube, SL, R410A |
| RCA/K/SSL 5111÷8222 | | --- | --- | Microchannel, Inverter, Shell & Tube, SSL, R410A |



3.2 Multi-Scroll liquid Chillers and Heat Pumps with plate or shell and tube exchangers



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|--------------------|------------|--------------|--------------|----------|
| CWW/K 726-P÷1128-P | | 224-383 | 290-484 | |
| CWW/K 726÷1128 | | 225-375 | 291-474 | |



3.3 Liquid Chillers and Heat Pumps with Screw compressors and shell and tube exchangers. Remote Condensers



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|---------------------------|-------------------------|--------------|--------------|----------|
| NEW CWW/H/A 351-P÷901-P | INVERTER SCREW * | 86-189 | --- | |
| CWW/H/A 1002÷6002 | INVERTER SCREW * | 234-1650 | --- | |
| CWW/Y/A 1302÷4802 | INVERTER SCREW * | 280-1289 | --- | |
| NEW CWW/Y/A 1002-T÷7202-T | INVERTER SCREW * | 250-2143 | --- | |
| NEW CWW/Y 1302-B÷9002-B | | 267-2349 | --- | |
| NEW MEA/Y 1302-B÷9002-B | | 235-2060 | --- | |
| RCA/Y 8141÷9282 | | --- | --- | |
| RCA/Y/SL 8231÷9282 | | --- | --- | |
| RCA/Y/SSL 8151÷9281 | | --- | --- | |

* Option



3.4 Liquid Chillers with Turbocor compressors and shell and tube exchangers



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|--------------------------|------------|--------------|--------------|----------|
| CWW/TTH 1701-1÷6606-1 | | 321-1922 | --- | |
| CWW/TTH/DR 1701-1÷6606-1 | | 301-1802 | --- | |
| CWW/TTY 1601-1÷14406-1 | | 319-3912 | --- | |
| CWW/TTY/DR 1601-1÷6204-1 | | 298-1584 | --- | |

4. DRY-COOLERS & HYDRONIC MODULES



4.1 Dry-Coolers



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|-------------------|------------|--------------|--------------|----------|
| RCW 6121÷9282 | | --- | --- | |
| RCW/SL 6122÷9281 | | --- | --- | |
| RCW/SSL 6132÷9282 | | --- | --- | |



4.2 Remote Hydronic Modules



| UNITS NAME | TECHNOLOGY | CAPACITY (LT.) | FEATURES |
|--------------|------------|----------------|----------|
| MR 50÷80 | | 50-80 | |
| MR 1500÷2500 | | 1500-2500 | |

5. PACKAGED ROOF TOP UNITS

AIRPLUS



5.1 Single Skin Packaged Roof Top units with Scroll compressors and EC Inverter Plug-Fans



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|-------------------------|------------------------------|--------------|--------------|--------------------------|
| RTA/K/EC/WP 182-R÷453-R | EC INVERTER PLUG FANS | 65-171 | 63-162 | MS, ECO, THCB REC, R410A |

AIRMAXI



5.2 Double Skin Packaged Roof Top units with Scroll compressors and EC Inverter Plug-Fans



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|-------------------|--|--------------|--------------|---|
| RTA/IK/EC 172÷724 | INVERTER SCROLL EC INVERTER PLUG FANS | 58-252 | 60-262 | MS, ECO, THCB REC, FX REC, WHEEL REC, R410A |
| RTA/K/EC 182÷804 | EC INVERTER PLUG FANS | 58-252 | 60-262 | MS, ECO, THCB REC, FX REC, WHEEL REC, R410A |

6. CONDENSING UNITS



6.1 Condensing units with Rotary or Scroll compressors and axial or radial fans



| UNITS NAME | TECHNOLOGY | COOLING (kW) | HEATING (kW) | FEATURES |
|---------------|------------|--------------|--------------|---|
| MHA/K 15÷151 | | 4,5-46 | 4,8-52 | MS, ECO, THCB REC, FX REC, WHEEL REC, R410A |
| MHA/K 182÷604 | | 51-188 | 56-193 | MS, ECO, THCB REC, FX REC, WHEEL REC, R410A |
| MRA/K 15÷131 | | 4,5-37 | 4,8-41 | MS, ECO, THCB REC, FX REC, WHEEL REC, R410A |
| MRA/K 182÷604 | | 51-188 | 56-193 | MS, ECO, THCB REC, FX REC, WHEEL REC, R410A |

7. CASE STUDIES



FEDERATION TOWERS, Moscow



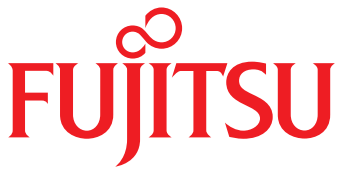
GUCCI Headquarters, Scandicci, Italy



VOLKSWAGEN Plant, Bratislava, Slovakia



FIFA World Cup 2018 Stadium, Volgograd, Russia



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