

## Applied Products Overview August 2022



# Product Range

The Fujitsu General AIRSTAGE™ product line up includes a comprehensive range of air cooled and water cooled liquid Chillers, as well as Roof Top Packaged Units, for residential, commercial, and industrial applications. Offering simple aesthetics and design flexibility, the Fujitsu General AIRSTAGE range provides the latest technology and product solutions to meet the needs of Australia's weather extremes.

## Air Cooled & Water Cooled Liquid Chillers

Fujitsu General's AIRSTAGE Chillers range in capacity from 4kW to 4000kW, with options from small compact and energy efficient air cooled chillers, to large water cooled chillers. All feature Danfoss componentry with ultra low GWP HFO refrigerant options. With a variety of compressors available, including turbocor magnetic bearing, screw, rotary and scroll compressors, there is an option to suit a multitude of applications.

### CompactLine

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, achieving high energy efficiency with an integrated pump kit or with Inverter technology.

### MidyLine

The Heat Pump range in the MidyLine series are dedicated to environment heating and domestic hot water production, providing hot water up to 60°C. Being reverse cycle, they are also capable in providing air conditioning during summertime. The range features high energy efficiency and AquaLogik technology with a built-in hydronic kit and variable speed circulating pumps, minimising the need to use smaller inertia tanks.

### AquaPlus

The AquaPlus air cooled and water cooled liquid Chillers and Heat Pumps range is dedicated to small and medium areas in commercial or industrial buildings, up to 180kW. Compactness and easy installation are the key benefits of this range. Dedicated models can also feature the additional AquaLogik technology with a built-in hydronic kit and variable speed circulating pumps, minimising the need to use smaller inertia tanks. The AquaPlus range is available in several variants, with different technical solutions and performance levels: the models achieving high energy efficiency feature Inverter or Digital Scroll technology.

### MultiPower

The air cooled and water cooled MultiPower liquid Chillers and Heat Pumps range is based on multi-Scroll technology. This ensures high efficiency at part loads, since the load is split among the different compressors based on the actual cooling capacity required. The family includes both air cooled and water cooled models with a wide capacity range up to 1250kW. The MultiPower range is available with different performance levels: the models achieving high energy efficiency feature Inverter technology.

### EnergyPower

The air cooled Scroll/Screw Multifunctional Chillers included in the EnergyPower line are able to provide cooling and heating at the same time and with the same unit. Those Multifunctional units, with capacity up to 1150kW, are dedicated to 4-Pipe systems and are ideal for buildings where there is the need at the same time for ambient heating, cooling and domestic hot water production, such as hotels and multifunctional buildings with service and residential users.

### MaxiPower

The MaxiPower air cooled and water cooled liquid Chillers with Screw compressors cover capacities up to 2490kW. Dedicated models feature Inverter technology on compressors, pumps and fans for higher efficiency even at part load. The MaxiPower range is available in several variants with different technical solutions and performance levels, achieving high energy efficiency with low energy consumption.





## TurboLine

The TurboLine air cooled and water cooled Chillers range, equipped with Turbocor Magnetic Levitation Oil-Free Frictionless Technology compressors, achieving ultra high energy efficiency with class leading full-load COP/EER and part-load IPLV/NPLV/ESEER performances, robust design for reliability and superior acoustically enhanced operation. The range includes air cooled and water cooled models with a wide capacity range up to 4000kW nominal cooling capacity whilst offering the optional availability of the new generation Low-GWP and Ultra-Low GWP HFO refrigerants technology to assist with GHG/Carbon Emission minimisation designs.



## Roof Top Packaged Units

The AIRSTAGE range of Roof Top Packaged Units features 28 models ranging in capacity from 12kW to 252kW, all equipped with Danfoss componentry and includes options such as highly efficient and reliable EC Inverter Plug Fans with backward curved blades. The Economiser option enables high energy saving operation and Wheel Heat Recovery on the double skin products assists with the efficient heat transfer of air. This can also give the greatest humidity control.

### Standard & Premium Single Skin

The AIRSTAGE Standard and Premium Single Skin range of Roof Top Packaged Units feature Danfoss Scroll Compressors and Direct Digital Controllers (DDC), G4 Filters, Black Epoxy Corrosion Protection Coating, Axial Condenser Fans and Automatic Circuit Breakers. The Premium model also features Acoustic Compressor Insulation for low noise operation, and EC Plug Fans (in lieu of the standard belt driven fan). The units are available in several configurations with additional Mixing Box and Free-Cooling sections.



### Premium Double Skin

The AIRSTAGE Premium Double Skin range of Roof Top Packaged Units feature Danfoss Scroll Compressors and Direct Digital Controllers (DDC), G4 Filters, Black Epoxy Corrosion Protection Coating, Axial Condenser Fans, Automatic Circuit Breakers, Acoustic Compressor Insulation for low noise operation, and EC Plug Fans. The range also features Wheel Heat Recovery which assists with the efficient heat transfer of air. This can also give the greatest humidity control. The range is available in several configurations with an additional Mixing Box, Free-Cooling and Heat Recovery sections. The range has been improved with the new high efficiency models with an Inverter Scroll compressor, EC Inverter Plug Fans.



## Air Handling Units

Fujitsu General's range of Airstage Air Handling units include 36 models across flat, squared, modular or vertical design options with every feature fully customisable to suit most project requirements and applications. The modular design features 5 models with pre-set configuration and the outer casing across the range is powder coated to withstand Australian weather extremes. The multitude of key options include: Eurovent Certification, Single-Wall/Double-Wall Panels, 50mm/75mm PU Insulations, Outdoor Installations with Unit-Roof and Intake/Weather Hoods, Multi-Dampers, Pre and Final Bag Filters, Cooling/Heating Coils, Humidifiers, UV Lights, EC Plug Fans, Multizone Configurations and more.



- **Fully Customised** 36 models
- **Special Size - Flat or Squared** 23 models with reduced height, 24 models with reduced width
- **Modular** 5 models with preset configuration
- **Compact Vertical** 10 models with compact vertical design

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

### CompactLine



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

REFRIGERANT  
R410A

CLASS	UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
A	AAC/IK/WP 15÷61	INVERTER ROTARY INVERTER SCROLL	3,9-10	5,6-14	
A	AAC/CLK 15÷81		4,2-21	5,0-24	

### MidyLine



#### 1.2 Dedicated Heat Pumps with Scroll compressors and plate exchanger

REFRIGERANT  
R407C

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

## 2. AIRCOOLED LIQUID CHILLERS AND HEAT PUMPS FOR RESIDENTIAL AND INDUSTRIAL APPLICATION

### AquaPlus



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

REFRIGERANT  
R410A

CLASS	UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
A	AAC/IK/A/WP 91÷152	INVERTER SCROLL	21-43	22-50	
	AAC/K 91÷151		25-42	31-55	
	AAC/K/ST 91÷151	AQUALOGIK	25-42	31-55	
	AAC/K/FC 91÷151	FREE COOLING	28-43	---	
A	AAC/IK/A 172-P÷574-P	INVERTER SCROLL MICROCHANNEL	50-179	---	
A	AAC/TK/A 182-P÷604-P	DIGITAL SCROLL MICROCHANNEL	51-185	---	
A	AAC/K/A/WP 182-P÷604-P		48-161	56-197	
A	AAC/K/A/WP/ST 182-P÷604-P	AQUALOGIK	48-161	56-197	
	AAC/K 182-P÷604-P		48-178	54-187	
	AAC/K/ST 182-P÷604-P	AQUALOGIK	48-178	54-187	
	AAC/K/FC 182-P÷604-P	FREE COOLING	53-174	---	
	AAC/K 182÷604		49-179	56-188	
	AAC/K/ST 182÷604	AQUALOGIK	49-179	56-188	
	ARC/K 15÷131		4,2-33	5,0-42	
	ARC/K 182-P÷604-P		48-178	54-187	
	ARC/K/ST 182-P÷604-P	AQUALOGIK	48-178	54-187	
	ARC/K 182÷604		49-179	56-188	
	TRA/K/ST 182÷604	AQUALOGIK	49-179	56-188	



## MultiPower



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

REFRIGERANT  
R410A

CLASS	UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
A	AAC/IK/A 674-P÷2356-P	INVERTER SCROLL MICROCHANNEL	196-668	---	
A	AAC/K/A/WP 726-P÷24012-P		194-671	227-762	
	AAC/K 726-P÷36012-P		199-1051	228-1210	
	AAC/K/FC 726-P÷36012-P	FREE COOLING	208-1102	---	
	AAC/K 726÷36012		200-1062	229-1222	

## EnergyPower



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

REFRIGERANT  
R410A

REFRIGERANT  
R134a

CLASS	UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
	AAC/K/EP 182-P÷693-P		49-190	52-203	
	AAC/K/EP 604-P÷2406-P		167-643	180-693	
	AAC/IY/EP 1352÷4402	INVERTER SCREW	278-1133	283-1156	

## MaxiPower



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

REFRIGERANT  
R134a

REFRIGERANT  
R407C

CLASS	UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
A	AAC/IY/WP 1352÷4402	INVERTER SCREW	278-1133	282-1148	
A	AAC/Y/A 1302÷4802	INVERTER SCREW MICROCHANNEL *	263-1136	---	
	AAC/Y 1202-B÷6802-B		221-1597	225-1438	
	AAC/Y/FC 1202-B÷6002-B	FREE COOLING	217-1460	---	
	AAC702-V÷5602-V		170-1500	190-1342	
	AAC/FC 702-V÷4602-V	FREE COOLING	177-1163	---	

\*Option

## TurboLine



### 2.5 Liquid Chillers with Turbocor compressors and flooded shell and tube exchanger

REFRIGERANT  
R1234ze

REFRIGERANT  
R134a

CLASS	UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
A	AAC/TTH 1301-1÷4904-2	MICROCHANNEL *	262-1340	---	
	AAC/TTH/FC 1301-1÷4904-2	FREE COOLING	279-1386	---	
A	AAC/TTY 1301-1÷5004-2	MICROCHANNEL *	248-1456	---	
	AAC/TTY/FC 1301-1÷5004-2	FREE COOLING	246-1443	---	

\*Option

## LEGEND

#### COMPRESSOR:

	Inverter Rotary
	Rotary
	Inverter Scroll
	Digital Scroll
	Scroll
	Inverter Screw
	Screw

	Turbocor
	Centrifugal
	FAN:
	Axial
	Radial
	EC Inverter Radial
	EC Inverter Tangential

	EXCHANGER:
	Plate
	Shell and Tube
	Flooded Shell and Tube
	Microchannel

#### SOLUTION:

	FC	Free-Cooling
		Domestic Hot Water
		AquaLogik
		A CLASS
		Web Monitoring
		4-Pipe system
		Silenced

	SSL	Super silenced
		Single Skin
		Double Skin
		Mixing Box
		Economizer
		Economizer and Cross-flow Heat Recovery
		Economizer and Wheel Heat Recovery

#### REFRIGERANT:

	R410A
	R134a
	R407C
	R1234ze


















### 3. WATER COOLED LIQUID CHILLERS AND HEAT PUMPS FOR COMMERCIAL AND INDUSTRIAL APPLICATION. REMOTE CONDENSERS

#### AquaPlus



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

REFRIGERANT  
R410A





CLASS	UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
	AWC/K 15÷151		4,6-49	5,9-60	  
	AWC/K 182-P÷604-P		55-195	73-237	 
	AWC/K 182÷604		57-196	75-238	 
	AME/K 15÷151		4,0-42	5,1-53	  
	AME/K 182-P÷604-P		51-176	60-194	 
	ARA/K 4111÷8222		---	---	
	ARA/K/SL 4111÷8222		---	---	 
	ARA/K/SSL 5111÷8222		---	---	 

#### MultiPower



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

REFRIGERANT  
R410A































CLASS	UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
	AWC/K 726-P÷36012-P		224-1242	290-1531	 
	AWC/K 726÷36012		225-1254	291-1546	 

#### MaxiPower



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

REFRIGERANT  
R410A R134a

CLASS	UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
	AWC/K/A 901÷6202	<b>INVERTER SCREW</b> *	320-2486	---	   
	AWC/IY/WP 1352÷4402	<b>INVERTER SCREW</b>	319-1171	386-1439	  
	AWC/Y/A 1302÷4802	<b>INVERTER SCREW</b> *	280-1289	---	   
	AWC/K 901÷5802		281-1893	---	  
	AWC/Y 1302-B÷9003-B		267-2473	---	  
	AME/Y 1302-B÷9003-B		235-2168	---	  
	ARA/Y 8141÷9282		---	---	 
	ARA/Y/SL 8231÷9282		---	---	  
	ARA/Y/SSL 8151÷9281		---	---	  

















\*Option

#### TurboLine



#### 3.4 Liquid Chillers with Turbocor compressors and flooded shell and tube exchangers

REFRIGERANT  
R1234 Z6 R134a

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

## 4. ROOF TOP PACKAGED UNITS

### Premium Single Skin



#### 4.1 Single Skin Roof Top Packaged Units with Scroll compressors and EC Inverter Plug Fans



CLASS	UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
	RAQ/K/WP 182-R÷453-R		12-90	14.2-98	

### Premium Double Skin



#### 4.2 Double Skin Roof Top Packaged Units with Scroll compressors and radial fans or EC Inverter Plug Fans



CLASS	UNITS NAME	TECHNOLOGY	COOLING (kW)	HEATING (kW)	FEATURES
	RAQ/IK/EC 172÷724	<b>INVERTER SCROLL</b> <b>EC INVERTER PLUG FANS</b>	58-252	60-262	
	RAQ/K 182÷804	<b>EC INVERTER PLUG FANS*</b>	58-252	60-262	

\*Option

## WARRANTY

Fujitsu believes in the quality and reliability of every air conditioner we sell, providing up to 3 years warranty on selected Applied products and specifically, a 1 year parts and labour warranty on the AIRSTAGE Chillers range, a 1 year parts warranty on AIRSTAGE Air Handling Units (AHUs) and a 2 year parts and labour warranty plus an additional 1 year parts only warranty on the AIRSTAGE Roof Top Packaged Units (RTPUs).

Fujitsu General Australia strives to consistently provide high quality, energy efficient, reliable products. Fujitsu General trained technicians attend every commercial and industrial AIRSTAGE installation to assist with the controls commissioning of the units and ensure seamless operation.

## LEGEND

### COMPRESSOR:

	Inverter Rotary		Turbocor		EC Inverter Plug-Fan
	Rotary		Centrifugal		
	Inverter Scroll	<b>FAN:</b>			Plate
	Digital Scroll		Axial		Shell and Tube
	Scroll		Radial		Flooded Shell and Tube
	Inverter Screw		EC Inverter Radial		Microchannel
	Screw		EC Inverter Tangential		

### SOLUTION:

	Free-Cooling		Super silenced
	Domestic Hot Water		Single Skin
	AquaLogik		Double Skin
	A CLASS		Mixing Box
	Web Monitoring		Economizer
	4-Pipe system		Economizer and Cross-flow Heat Recovery
	Silenced		Economizer and Wheel Heat Recovery

### REFRIGERANT:

	R410A
	R134a
	R407C
	R1234ze





## Imported by

### FUJITSU GENERAL (AUST.) PTY LIMITED

1 Telopea Place, Eastern Creek NSW Australia 2766  
Copyright: © FUJITSU GENERAL (AUST.) PTY LIMITED 2022  
Tel: 02 8822 2500

Manufactured by :  
**G.I. Industrial Holding S.p.A.**  
Via Max Piccini  
11/13  
33061 Rivignano Teor (UD) Italy

All rights reserved. No part of this document may be reproduced, stored or transmitted in any form without prior written permission of Fujitsu General (Aust.) Pty Limited.  
Fujitsu General (Aust.) Pty Limited endeavours to ensure that the information in this document is correct and fairly stated, but does not accept liability for any errors or omissions.

