



Inverter Technology



Smart Control



Intelligent Defrosting



Colourful Touch Display

# Activair High Temperature Heating + DHW Heat Pump

## Certification

Quality Guarantee



# TRIANCO

Trianco  
Unit 5, Wortley Road, Rotherham S61 1LZ

Tel: +44 (0)114 257 2300  
Fax: +44 (0)114 257 1419

Email: [info@trianco.co.uk](mailto:info@trianco.co.uk)  
[www.trianco.co.uk](http://www.trianco.co.uk)

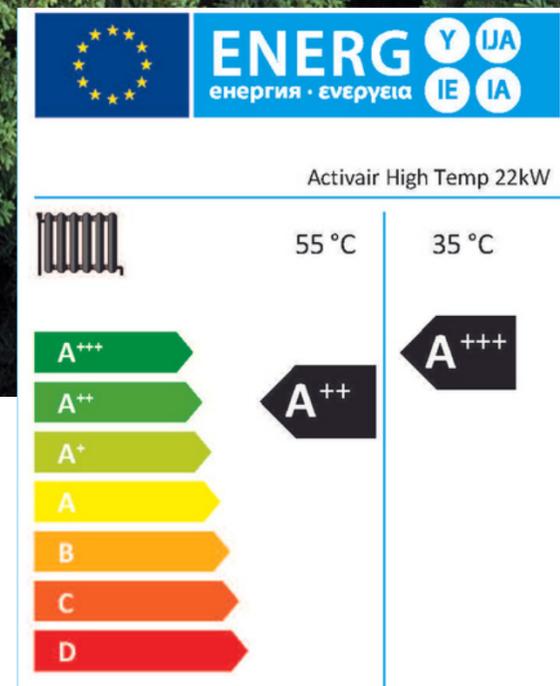


# Environmental Refrigerant



Global warming is a huge problem for the world to help combat this Trianco have developed a range of Heatpumps with one of the lowest global warming refrigerant gasses available R290.

# Super High Efficiency A++



Trianco Activair High temperature Air Source Heatpumps have been developed with the most cutting edge technology to meet stringent requirements for efficiency, reliability and quietness.

Developed with full inverter technology R290 Low Global warming refrigerant rated to the top efficiency energy label A<sup>++</sup> for both Heating and Hot water

# Full DC Inverter Technology



### DC Inverter Compressor

When compared to AC drive technology, DC inverters modulate the control of the compressor very precisely improving transmission efficiency and reducing energy consumption.



### DC Inverter Fan Motor

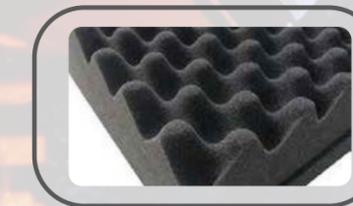
Being fully inverter-driven, the motor operates much more efficiently than fixed-speed fans, thus reducing noise and running costs

# Noise Reduction Technology

Trianco Activair High Temperature Heatpumps are incredibly quiet with multiple built-in noise reduction technologies.



Shock absorption suspension chassis greatly reducing vibration and Noise.



Fully sound-proofed in noise-absorbing sponge material which efficiently blocks the noise from the compressor

-25°C  
Ultra-low Temperature



42-47dB(A)  
1 Meter Distance



70dB(A) - Car



30dB(A) - Whisper



20dB(A) - Rustle of leaves

# Key Components



## RS485 Centralised Control

Trianco Activair High Temperature Heatpumps are supplied with an advanced central control system that has remote access and constant monitoring facilities.



## Circulation Water Pump

Trianco Activair High Temperature Heatpumps are supplied complete with integral low energy water pump.



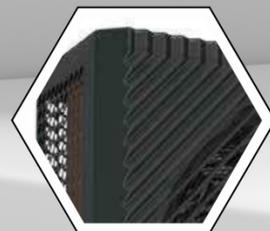
## SWEP Plate Heat Exchanger

Trianco Activair High Temperature Heatpumps are supplied complete with a Swep Heat exchanger



## Electronic Expansion Valve

With an electronic expansion valve, the units can instantly adjust refrigerant flow to ensure the stability of the refrigeration system and smooth compressor inverting capability, thereby improving Efficiency.



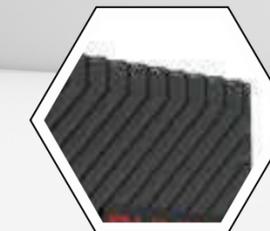
## Elegant Wave Screw-Free Design

Trianco Activair High Temperature Heatpumps are supplied with innovative cabinet design with no surface-visible screw fixing points, with the front and top being plastic to avoid rusting issues.



## Pressure Sensor

The unit Pressure Sensor can detect system pressure and transmit the signal to the main board to protect the unit.

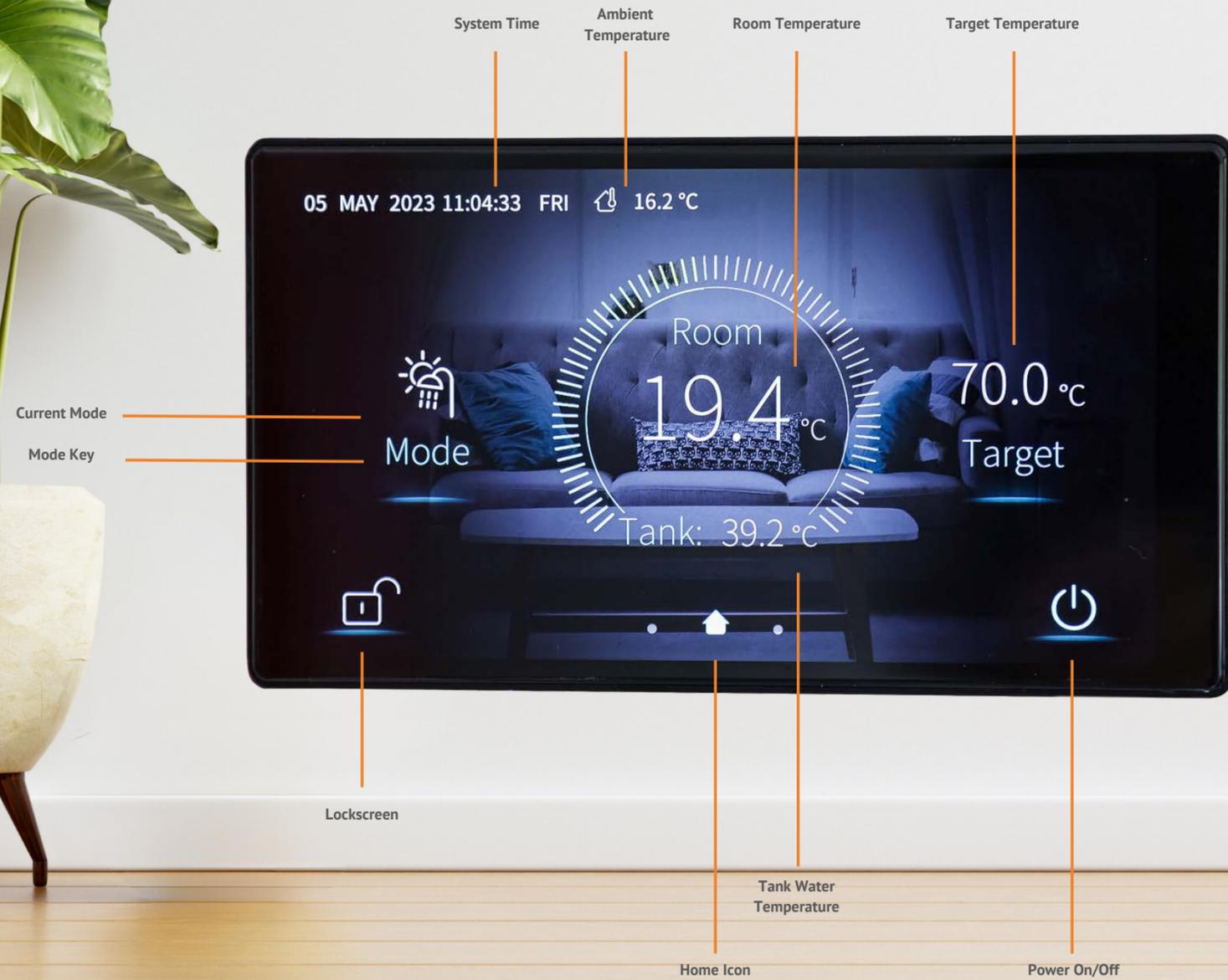


## ASA Material

Trianco Activair High Temperature Heatpumps are supplied with innovative cabinet design with no surface-visible screw fixing points, with the front and top being plastic to avoid rusting issues.

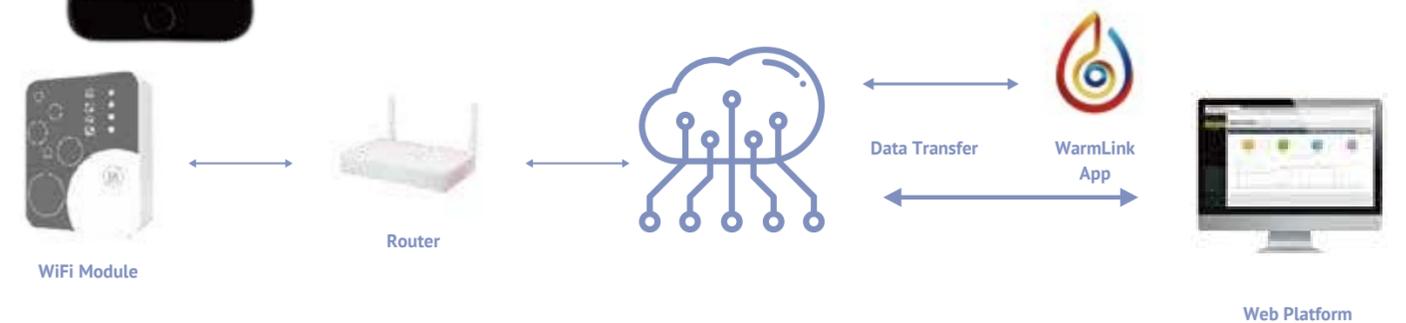
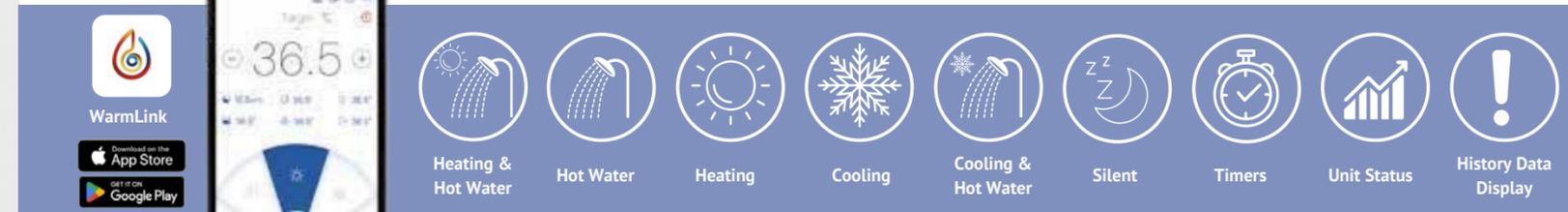
# Digital Touch Screen

Trianco Activair High Temperature Heatpumps are supplied with a high-end 5 inch touch screen controller, complete with easily-settable temperature and power consumption curve so users can always be sure of temperature and electric consumption.



# Smart Control Family

All Trianco Activair Heatpumps come complete with the ability to be controlled via a Smart App. In addition to controlling the Heatpump, it has lots of useful information such as power usage and fault codes



# Web Platform

All Trianco Activair High temperature Heatpumps are supplied with a built in 4G Sim Card. This enables Trianco to see and monitor every heatpump. We can also give access to 3rd parties such as Housing associations, who may wish to monitor performance and issues remotely.



# Compatible with the Sunamp Thermino hpPV

Whatever your heating system, Sunamp has a reliable hot water solution designed to increase comfort and reduce energy use. Linking solar PV with Sunamp's super compact heat pump cylinder alternative, Thermino hpPV models give even greater protection against energy price rises.

The Thermino hpPV models can work with a range of power diverters to store surplus electricity from Solar PV that would otherwise be lost to the grid.

Super-compact, up to 4x smaller than hot water cylinders and with no venting required, it is the easy way to add hot water storage and lower energy use and carbon emissions in the home.

Up to 4 x higher energy efficiency with A+ energy rating saving up to 1000 kWh a year with a high flow rate hot water that's instantaneously heated for hygiene and freshness.

THERMINO





# Specification



Model		FG 9509 9kW	FG 9515 15kW	FG 9522 22kW
Power Supply	/	230V~	230V~	230V~
Heating Condition - Ambient Temp. (DB/WB): 7/6°C, Water Temp. (In/Out): 30/35°C				
Heating Capacity Range	kW	3.10~8.90	5.40~14.95	8.00~22.00
Heating Power Input Range	kW	0.65~2.10	1.05~3.85	1.60~6.90
Heating Current Input Range	A	2.9~9.2	4.6~16.9	7.0~30.3
Cooling Condition - Ambient Temp. (DB/WB): 35/24°C, Water Temp. (In/Out): 12/7°C				
Cooling Capacity Range	kW	1.20~5.72	3.60~10.50	4.20~15.00
Cooling Power Input Range	kW	0.65~2.40	1.12~4.47	1.80~7.30
Heating Current Input Range	A	2.9~10.5	4.9~19.6	7.9~32.1
Hot Water Condition - Ambient Temp. (DB/WB): 20/15°C, Water Temp. (In/Out): 15/55°C				
Hot Water Capacity Range	kW	3.92~10.68	6.50~18.50	10.00~27.00
Hot Water Power Input Range	kW	0.78~2.47	1.27~4.65	1.90~7.10
Hot Water Current Input Range	A	3.4~10.8	5.6~20.4	8.3~31.2
Max. Power Input	kW	3.0	5.3	7.5
Max. Current Input	A	13.5	24.5	35.0
Water Flow	m³/h	1.0	1.7	2.9
Refrigerant / Proper Input	kg	R290 / 0.50kg	R290 / 0.85kg	R290 / 1.30kg
CO <sub>2</sub> Equivalent	Ton	0.0015	0.0026	0.0039
Sound Pressure (1m)	dB(A)	42	43	47
Sound Power Level <small>[EN12102]</small>	dB(A)	57	57	62
Operating Ambient Temperature	°C			
Max. Water Temperature	°C			
Fan Quantity	/	1	1	2
Fan Motor Type	/			
Water Connection	inch			
Water Pressure Drop (max)	kPa	20	20	65
Circulation Pump	/			
Circulation Pump Water Head	m	7.5	7.5	12.5
ErP Level(35°C)	/		A+++	
Cabinet Type	/	Galvanized sheet metal+ASA		
Unit Dimension(L/W/H)	mm	1167×407×795	1287×458×928	1250×540×1330
Shipping Dimension(L/W/H)	mm	1300×485×940	1420×540×1080	1380×570×1480



# THERMINO

## Thermino hpPV technical data and dimensions



	150 hpPV	210 hpPV	300 hpPV
Manufacturer's part number	DKP-DBW-ARZ-1	DNP-DBW-ARZ-1	DRP-DBW-ARZ-1
Thermino hpPV <sup>▲</sup>			
Thermino hpPV-VT <sup>●</sup>	DKP-DHW-ATZ-1	DNP-DHW-ATZ-1	DRP-DHW-ATZ-1
Equivalent hot water cylinder size (L)	128	192	256
V40* (L)	167	271	333
Heat loss rate (kWh/24) (W)	0.67 (28.1)	0.77 (32.1)	0.84 (35)
Energy efficiency rating class	A+		
Recommended flow rates (LPM)	15	20	25
Minimum heat source flow temperature	65°C		
Maximum heat source flow temperature	80°C		
Minimum mains supply pressure	1.5 bar (0.15 MPa)		
Maximum mains pressure	10 bar (1.0 MPa)		
Hot water temperature	45-55°C		
Connected load at 230v, 50hz (W)	2,800		
Product weight in use (kg)	136	187	233

\* V40 refers to the volume (in litres) of water available at 40°C.

NOTE: In line with UK Building Regulations, Sunamp advise the installation of a suitable hot water supply tempering valve at the outlet of the appliance, to prevent the risk of scalding.



# TRIANCO

BRINGING HEAT TO LIFE



## TR Engineering Limited

5 Wortley Road, Rotherham S61 1LZ

Tel: +44 (0)114 257 2300

Fax: +44 (0)114 257 1419

Email: [info@trianco.co.uk](mailto:info@trianco.co.uk)

[www.trianco.co.uk](http://www.trianco.co.uk)

TR Engineering Limited is a company registered in England and Wales  
Registration no. 7321802

Copyright of all contents of this leaflet is vested in TR Engineering Limited. Any part  
may not be reproduced without permission.

The contents of this leaflet are accurate at the date of printing but, because TR  
Engineering has a policy of continual development, it may be superseded and should  
be disregarded if specifications or appearances are changed.

The statutory rights of the customer are not affected. E&OE's.

Brochure production date **June 2023**.