



**TRIANCO**  
BRINGING HEAT TO LIFE

# Activair Pro AI R290 Heat Pumps



## Activair Pro AI R290 Heat Pumps

Available in 6, 12 & 17kW outputs, all Single Phase

Maintains full output at -10°C; no drop-off

The easy-to-install, ultra-efficient and exceptionally quiet Activair Pro range comes with an impressive selection of new and unique features.



Advanced Climate Solutions for Every Space



ENERGY  
EFFICIENCY



QUIET  
OPERATION



DURABLE  
PERFORMANCE



ALL-SEASON  
COMFORT

## AI Energy Management

**Big data intelligence:** refined by real-time data that delivers a field-proven algorithm that maximises COP by up to 20% in all climates

**Dynamic Grid Adaptation:** seamlessly integrating dynamic electricity tariffs, the system automatically adjusts compressor frequency to maximise COP and drastically reduce running costs.

**User-Centric Automation:** intelligent scheduling based on users habits to reduce unnecessary cycling, extending the lifespan of the unit and enhancing comfort.



## AI System Management

**Predictive Maintenance:** AI-powered fault forecasting with automated intervention to minimise downtime and onsite visits

**AI Smart Assistant:** Operate and adjust the heat pump via the voice assistant and conduct simple troubleshooting and solutions



## Built-in Safety

**100% protection. Zero Compromise**

**Equipped with a gas separator and R290 leak detector, the system rapidly detects any leaking refrigerant and actively discharges it.**

One minute after start-up, the system monitors refrigerant concentration in real time. If values exceed pre-set thresholds it triggers shut-down protection and the fan adjusts to pre-set speed to vent and expel the refrigerant.





### **Ultra Quiet Design - 35dB(A)**

Full suspension technology for Compressor and Assembly Compartment which effectively isolates vibration transmission.

Fitted with Composite Sound-Absorbing Insulation which suppresses both high-frequency tonal noise and low-frequency vibration.



### **EVI Technology - 30% increase in COP**

Equipped with the latest EVI compressor delivering high energy efficiency and stable performance even under extreme cold conditions. Ambient Temp-30°C, Water up to 80°C



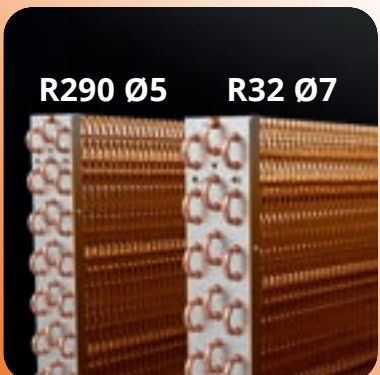
### **Service Friendly Design**

Terminal wiring and PCB replacement can be completed simply by opening the side panel greatly improving maintenance efficiency. Snap-fit assembly design also minimises traditional thread connections enabling speedy disassembly and assembly.



### **Active Frost Protection**

Built-in sensors continuously track system water temperatures. In low ambient conditions the unit automatically activates protective measures to prevent freezing.



### **Optimised Heat Exchanger - 20% increase in COP**

Ø5 fin tubes delivering a higher heat transfer coefficient, achieving up to a 20% increase in COP

# Specification

Model		FG9706	FG9712	FG9717
Power Supply	/	220-240V~/50Hz	220-240V~/50Hz	220-240V~/50Hz
Heating Condition - Ambient Temp. (DB/WB): 7/6°C. Water Temp. (In/Out): 30/35°C				
Nominal Heating Capacity 1	kW	6	12	17
Heating Capacity Range	kW	2-9.75	4.55-18.65	Jun-24
Heating Power Input Range	kW	0.38-2.08	0.88-4.43	1.3-6.0
SCOP		5.56	5.1	5.13
Heating Condition - Ambient Temp. (DB/WB): 7/6°C. Water Temp. (In/Out): 47/55°C				
Nominal Capacity 2	kW	6	12	17
Heating Capacity Range	kW	1.9-8.54	4.39-18.13	6-23.3
Heating Power Input Range	kW	0.54-3.09	1.24-6.08	1.8-7.9
SCOP		4.09	3.85	3.97
Cooling Condition - Ambient Temp. (DB/WB): 35/24°C. Water Temp. (In/Out): 23/18°C				
Nominal Cooling Capacity	kW	6	12	17
Cooling Capacity Range	kW	2.1-9.4	4.63-17.99	6-23
Cooling Power Input Range	kW	0.40-2.8	0.91-5.38	1.3-7.3
Cooling Condition - Ambient Temp. (DB/WB): 35/24°C. Water Temp. (In/Out): 12/7°C				
Cooling Capacity Range	kW	6	12	17
Cooling Power Input Range	kW	1.56-7.39	3.44-14.14	4-18
Max. Power Input	kW	0.44-2.68	1.01-5.14	1.7-7.2
Max. Current Input	A	16	30	36.5
Refrigerant Type	/		R290	
Refrigerant Volume	kg	0.7	1	1.3
Sound Pressure (1m)	dB(A)	36	38	39
Sound Power Level (EN12102)	dB	51	53	55
Net Weight	kg	133	145	191
Shipping Dimension(L/W/H)	mm	1370×590×915	1370×590×915	1370×590×1335
Compressor	Brand	GMCC	GMCC	GMCC
Circulation Pump	Brand	SHIMGE	SHIMGE	SHIMGE
Operating Ambient Temperature	°C	-30~45	-30~45	-30~45
Fan Motor Type	/	DC motor	DC motor	DC motor
Water Connection (inch)	inch		1	
Rated Water Flow	m <sup>3</sup> /h	1.03	2.06	2.92
Water Pressure Drop @Rated	kPa	12kpa	23kPa	40
Circulation Pump Head @Rated	m	7	7.8	10.4



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