

R410A

 Aircool

R410A

 Aircool

CONTRACTOR DETAILS

Notice: Aircool is committed to continuously improving its products, to ensure the highest quality and reliability standards, and to meet local regulations and market requirements. All features and specifications are subject to change without prior notice.

Distributed By:  
Metrack (Pty) Ltd  
Tel: 0861 208 209  
Web: [www.metrack.co.za](http://www.metrack.co.za)  
Email: [enquiry@metrack.co.za](mailto:enquiry@metrack.co.za)



## TECHNICAL SPECIFICATION

### HEALTH



#### Fresh Air Damper

Aircool rooftop package units use environmentally friendly R410a refrigerant with an ozone depleting potential of zero. Apart from looking after the environment, it also looks after your health by incorporating a damper that allows for up to 25% fresh air to be introduced into the indoor space. Washable nylon filters complete the package.

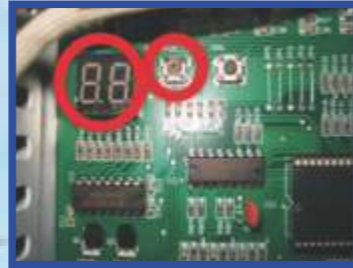


### INTELLIGENCE



#### LED Self Diagnostic

Use the "check" button and LED to check the operation status of the unit. When the unit is in protection mode, the LED will display error codes which the technician can use. Units are fitted with external gauge ports to make it easy to check the units' refrigerant charge



### RELIABILITY



#### Tropical Spec

Units are equipped standard with highly reliable and efficient, tropical spec R410a Danfoss scroll compressors. This allows the units to operate between -5 and +52 degrees in cooling mode. Inner grooved copper and efficient aluminium hydrophilic fins enhance the efficiency of the design.



### CONVENIENCE



#### Adjustable Airflow

If higher static pressures and airflow is needed, the unit's belt driven forward curve centrifugal fan can be adjusted using the fan/motor guide rail. This ensures accurate air speeds and pressures, resulting in lower noise levels.



### TECHNOLOGY



#### Two Stage Control

Aircool rooftop package units are equipped with two stage compressor start up control, incorporating intelligent time delay relay to protect the compressors from too frequent starts and stops. Units also come standard with low pressure and high pressure cut out switches as well as compressor current protection



### RELIABILITY



#### 5 Step Anti Rust

The durable, weather resistant construction includes 5 step anti corrosion treatment, 1000 hours of rigorous salt spray testing, heavy gauge galvanised plates, alloy fan blades and stainless steel bolts.



MODEL			ACRT-120H1B09	ACRT-180H1B09	ACRT-240H1B09	ACRT-330H1S09
	Nominal ton	Ton	10	17.5	20	30
Cooling	Cooling Capacity	Btu/h	120000	180000	240000	330000
		Kw	35	53	70	97
	Power Input	Kw	11.8	18.6	23.6	33
Heating	Heating Capacity	Btu/h	126000	191000	256000	358000
		Kw	37	67	75	105
	Power Input	Kw	10.9	19.8	23.4	34.8
Capacity steps		%	0/100	0/50/100	0/50/100	0/50/100
Electrical data	Power supply	V/Ph/Hz	380-400/3/50	380-400/3/50	380-400/3/50	380-400/3/50
	Max. input consumption	Kw	17	29	36	49
	Max. current	A	31	65	75	86
Performance	Indoor air flow (H)	CFM	4030	7311	8400	12000
	External static pressure	Pa	75	90	100	250
	EER	Btu/h/W	2.96	2.84	2.96	2.93
	COP	Btu/h/W	3.39	3.38	3.2	3
Indoor fan	Type		FC centrifugal	FC centrifugal	FC centrifugal	FC centrifugal
	Drive type		Belt	Belt	Belt	Belt
Compressor	Type		Scroll	Scroll	Scroll	Scroll
	Quantity		1	2	2	2
	Model		SH140A4ALC	SH120A4ALC	SH140A4ALC	SH184A4ALC
	Brand		Danfoss	Danfoss	Danfoss	Danfoss
	Capacity	Btu/h	119000	102200	119000	152426
	Rated load Amps (RLA)	A	21.4	20.7	21.4	27.6
	Locked rotor Amps (LRA)	A	147	142	147	197
Outdoor sound level (sound pressure)	dB(A)	72.2	72.4	74.2	75.4	
Refrigerant	Type		R410A	R410A	R410A	R410A
	Refrigerant volume	kg	7.5	5.6 X 2	8.8 X 2	9.4 X 2
Expansion	Type		Capillary	Capillary	Capillary	Capillary
Controller	Type		Wired controller	Wired controller	Wired controller	Wired controller
Operation temp		°C	17~30	17~30	17~30	17~30
Ambient temp	Cooling	°C	18~52	18~52	18~52	18~52
	Heating	°C	-10~24	-10~24	-10~24	-10~24
Dimensions	Net(W×H×D)	mm	2165X1021X1335	2230 X1245X1824	2753 X1245X2157	2753 X1674X2157
	Packing(W×H×D)	mm	2220X1040X1415	2236 X1300X1855	2755 X1300X2180	2755 X1690X2180
Weight	Net weight	kg	450	730	940	1110
	Gross weight	kg	463	750	955	1130

Cooling Conditions: 35°C (95°F) DB and 24°C (75°F) WB outdoor; 27°C (81°F) DB and 19°C (66°F) indoor.  
Heating Conditions: 7°C (45°F) DB and 6°C (43°F) WB outdoor; 20°C (68°F) DB and 15°C (59°F) WB indoor.

All wiring subject to onsite conditions and must conform to SANS 1014 wiring regulations  
Safety tested in accordance with SABS IEC 60335-2-40 applicable standard



SIDE/BOTTOM INLET & OUTLET



WASHABLE 10mm NYLON FILTER

