

Investing in Australia APAC production facility



Rinnai Australia

Commercial and Domestic



World-class manufacturing

Rinnai Australia has three world class manufacturing facilities located in Victoria and South Australia, supported by a large national sales and distribution network. The Australian business has become a 'centre of excellence' in specific technologies for Rinnai Corporation globally, and engages significant R&D and product development activity on behalf of Rinnai subsidiaries across the world. Today Rinnai has grown to become one of Australia's leading industry suppliers and innovators for Hot Water, Heating, Cooling and Commercial equipment as well as a trusted household name synonymous with reliability and quality.



Braeside, Victoria manufacturing, over 100 million invested

Brivis manufacturing

- Ducted Heating
- Evaporative Cooling
- Rinnai Flueina

APAC/Rinnai manufacturing

- APAC Commercial HVAC
- Commercial Hot Water
- VE Hot Water Storage Tanks
- Heat Pump Storage Tanks
- Add-on Cooling
- · Geoflo Geothermal

Market leader in Climate Systems

Australians have been enjoying the comfort, convenience and reliability of Rinnai appliances for over 50 years. Each system utilises global expertise to create comfort solutions suited to the Australian way of life.

Our products extend across a broad category base, covering hot water (electronic gas, electric, solar and heat pump technologies), heating and cooling systems for single rooms, whole of house and commercial buildings (ducted and static gas heating, gas space heating, reverse cycle air-conditioning).

Product line-up



Rooftop package unit

12-230kW Capacity range



Compact rooftop package unit

28-48kW Capacity range



Split ducted unit (low profile)

12-45kW Capacity range



Split ducted unit (horizontal)

24-95kW Capacity range



Vertical package unit

12-45kW Capacity range



Split ducted unit (vertical)

12-45kW Capacity range



High efficiency ratings with up to 31% energy savings compared to the existing APAC equivalent unit.



Fastest changeovers

A perfect match to the APAC unit size, footprint, ductwork, mains power and controls, avoiding costly modifications.



Quieter operation with 12db(A) sound reduction

Outdoor fans slow down when the ambient temperature falls, up to a 20% noise reduction

APAC Technology



Scroll compressors

Scroll type compressors for increased efficiency and reliability.



EC hybrid electronically commutated axial fan

Speed controlled direct drive Electronically Commutated (EC) infinitely variable speed external rotor motor for energy usage.



Coil corrosion protection

Epoxy coated outdoor coils for improved corrosion resistance.



Stainless Steel Options

Marine Grade 316L unpainted or powder coated 304 Stainless Steel cabinets.



EC plug fans

Speed controlled high static direct drive impeller with Electronically Commutated (EC) variable speed motor for lower energy use.



Hybrid axial fan

Speed controlled direct drive external rotor motor with hybrid blades for improved efficiency and performance.



Open controls

Compatible with all BMS control systems and simple 24-volt control circuit for easy fault diagnostics.



Customised Designs

Special bespoke designs to suit all applications, please contact to discuss.

Trusted performance

APAC Air Conditioning is one of the few approved MEPS test facilities in Australia with sampling devices designed, tested and certified by a NATA approved laboratory. All APAC Air Conditioning products exceed MEPS requirements set out in the relevant AS/NZS standards. You can rest assured with proven performance in the field.

apac by Rinnai

- All APAC Air Conditioning commercial products are registered with the Australian GEMS regulator
- All APAC Air Conditioning registrations are visible on the GEMS regulator website www.energyrating.gov.au
- The MEPS registration number is displayed on APAC Air Conditioning technical data sheets



Rooftop package unit

Features

- Scroll type compressors
- EC plug fans with high static capability up to 500pa
- Hybrid axial fan (12-45kW)
- EC hybrid axial fan (55-95kW)
- TXV refrigerant control
- Condenser coil anti-corrosion protection
- Open controls
- 25mm PE closed cell insulation
- · Phase fail protection relay
- MEPS certified
- · BCA compliant

Factory options customised to order

- · Compressor soft starter
- High static pressure outdoor fans
- Double layered insulation to indoor section
- Capacity modulation control
- Outdoor coil(s) with anti-corrosion post-treatment
- Indoor coil(s) with anti-corrosion post-treatment
- · Outdoor coil guards, powder coated.
- Discharge & suction isolation valves
- · Liquid line isolation valves across filter drier
- · Cable markers
- Fire relay
- · APAC Supply & Return connections.
- High Level Interface (HLI) Modbus connectivity
- Integrated filter frame 50mm
- Economiser dampers and actuators (no controls)

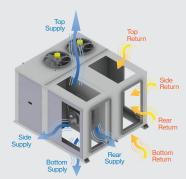
Factory options engineered to order

- 316 stainless steel cabinet, unpainted
- 304 stainless steel cabinet, powder coated
- · Stainless steel external fixings
- Outdoor coil(s) copper / copper
- Indoor coil(s) copper / copper
- Power supply no neutral (415/3/50)
- · Ductable air off in lieu of standard axial

Handing options

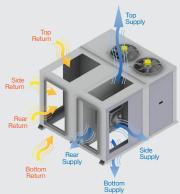
Left hand supply air (standard)





Right hand supply air (optional)





Specifications (12 to 95kW)

Model Number																
(Reverse Cycle)	Packaged Unit	P012AHR	P015AHR	P018AHR	P020AHR	P023AHR	P024AHR	P030AHR	P035AHR	P040AHR	P045AHR	P055AHR	P065AHR	P075AHR	P085AHR	P095AH
	Total Capacity (kW) ³	12.57	15.54	17.43	20.53	22.89	25.14	30.82	34.08	39.76	44.78	52.98	63.89	72.95	83.74	94.04
Rated Cooling	Sensible ³	9.70	12.09	13.58	15.99	18.20	19.38	26.23	28.49	33.32	37.57	44.29	54.5	58.51	69.34	77.49
	EER (kW/ikW) ³	3.59	3.70	3.49	3.60	3.32	3.59	3.67	3.47	3.29	3.14	3.06	3.28	3.49	3.47	3.24
Rated Heating ¹	Total Capacity (kW)	11.90	14.70	16.70	20.60	22.50	23.80	30.20	33.60	40.10	42.90	54.40	65.00	73.40	84.30	96.10
nated Heating	COP	3.66	3.87	3.71	3.81	3.63	3.66	3.59	3.61	3.61	3.77	3.40	3.61	3.59	3.60	3.60
MEPS Certified	MEPS Certified/ BCA						Ye	es						В	CA Complia	ant
Oti	Maximum °C								+50							
Operating Range	Minimum °C								-10							
Capacity Steps	%			0/100							0/50)/100				
	Туре		Scroll													
Compressor	Starter		D.O.L (Optional Soft Starter)													
	Qty		1 2													
Outdoor Fan	Туре		Hybrid Axial EC Hybrid Axial													
	Speed Control	Variable Speed Pressure Transducer														
	Qty	2														
	Туре	R410A														
Refrigerant System	Charge Per Circuit kg	3.95	5.30	5.70	7.30	6.80	3.95	5.30	5.70	7.30	6.80	5.75	6.75	9.50	11.00	10.80
Cyclo	No of Circuits			1								2				
	Туре	EC Plug														
Indoor Fan	Speed Control	Potentiometer														
	Qty						1							:	2	
	Nominal	625	800	890	1040	1190	1250	1600	1780	2080	2380	2880	3550	3750	4400	4930
Airflow Indoor (L/s)	Maximum	781	1000	1113	1300	1488	1563	2000	2225	2600	2975	3600	4438	4688	5500	6163
indoor (E/3)	Minimum	469	600	668	780	893	938	1200	1335	1560	1785	2160	2663	2813	3300	3698
Available External Static Pressure	Pa						High Stati	c Capability	/ (See Fan I	Performanc	e Curves)					
IP Rating									IP44							
Power Supply	(Volt/Phase/Hz)							400-41	5V/3Ph+1	N/50Hz						
Rated Load	Total	6.8	8.1	9.8	10.4	11.4	13.6	15.9	19.4	20.7	23	31.1	35.5	38.1	43.6	56.4
Amps ⁴ Full Load	Total	12.3	14.6	16.1	20.0	20.0	23.8	28.4	31.4	39.8	39.8	49.8	55.4	61.4	73.6	79.6
Amps ⁵	Height			1162					1190			1390	159			00
Dimensions	Width			1550					1850			1850			00	
(mm)	Length			1700				2400				2400 2750		50		
Nominal	kg	350	364	372	30	90	615	625	635	648	650	730	900	920	1060	1070
Weight ² . Rated Sound Power	db(A)	- 550	61.7	0.2		6.6	310	66.5	0.50		5.3	70.9	550		1.5	.570

^{1.} For reverse cycle model only 2. For base model only. Factory options will vary 3. Performance excludes ikW of evaporator fan motor 4. R.L.A - Run Load Amps are based on current drawn at nominal conditions 5. F.L.A - Full Load Amps are based on the overload settings [max current] of all compressor and fan motor(s)

Rooftop package unit

Features

- Scroll type compressors
- EC plug fans with high static capability up to 500pa
- EC hybrid axial fan
- TXV refrigerant control
- · Condenser coil anti-corrosion protection
- 25mm PE closed cell insulation
- Phase fail protection relay
- MEPS certified
- BCA compliant

Factory options customised to order

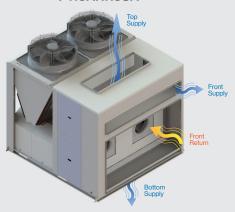
- · Compressor soft starter
- · High static pressure outdoor fans
- Double layered insulation to indoor section
- Capacity modulation control
- Outdoor coil(s) with anti-corrosion post-treatment
- Indoor coil(s) with anti-corrosion post-treatment
- · Outdoor coil guards, powder coated.
- Discharge & suction isolation valves
- · Liquid line isolation valves across filter drier
- Economiser dampers and actuators (no controls)
- High Level Interface (HLI) Modbus connectivity
- Integrated filter frame 50mm
- · APAC Supply & Return connections.
- · Cable markers
- Fire relay

Factory options engineered to order

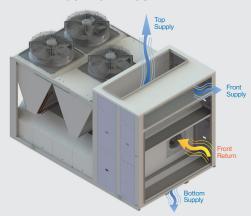
- 316 stainless steel cabinet, unpainted
- 304 stainless steel cabinet, powder coated
- Stainless steel external fixings
- Outdoor coil(s) copper / copper
- Indoor coil(s) copper / copper
- Power supply no neutral (415/3/50)
- Ductable air off in lieu of standard axial

Handing options

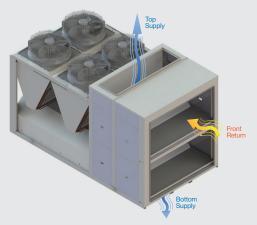
P115AHR3SA



P150-170AHR3SA



P200-230AHR3SA



Specifications (115 to 230kW)

Model Number (Reverse Cycle)	Packaged Unit	P115AHR	P150AHR	P170AHR	P200AHR	P230AHR						
	Total Capacity (kW) ³	111.44	149.51	167.17	199.35	222.89						
Rated Cooling	Sensible ³	91.16	121.25	136.74	161.67	182.32						
	EER (kW/ikW) ³	3.27	3.47	3.27	3.47	3.27						
	Total Capacity (kW)	109.10	144.28	163.64	192.37	218.19						
Rated Heating ¹	COP	4.00	4.01	4.00	4.01	4.00						
MEPS Certified	MEPS Certified/BCA			Yes								
	Maximum °C	+50										
Operating Range	Minimum °C											
Capacity Steps	%	4	6	6	8	8						
	Туре			Tandem Scroll								
Compressor	Starter			D.O.L (Optional Soft Starter)							
	Qty	2	3	3	4	4						
	Туре	EC Axial										
Outdoor Fan	Speed Control			Pressure Transducer								
	Qty	2	3	3	4	4						
	Туре			R410A								
defrigerant System	Charge Per Circuit kg	13.7	13.7	13.7	13.7	13.7						
	No of Circuits	2	3	3	4	4						
	Туре			EC Plug								
ndoor Fan	Speed Control	Potentiometer										
	Qty			1								
	Nominal	5750	7500	8625	10000	11500						
irflow Indoor (L/s)	Maximum	7188	9375	10781	12500	14375						
	Minimum	4313	5625	6467	7500	8625						
Available External Static Pressure	Pa		High Static C	Capability (See Fan Performa	ance Curves)							
Rating				IP44								
ower Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz								
Rated Load Amps ⁴	Total	59.4	79.9	89.2	106.5	117.8						
ull Load Amps ⁵	Total	100.4	127.8	150.6	170.4	200.8						
	Height	2381	24	00	24	00						
Dimensions (mm)	Width	2242	22	42	22	42						
	Length	2400	37	35	40	085						
Nominal Weight ² .	kg	1610	1810	2010	2210	2410						
Rated Sound Power	db(A)	75.6	77.4	77.4	78.6	78.6						

 $^{1.} For reverse \ cycle \ model \ only \ 2. For base \ model \ only. \ Factory \ options \ will \ vary \ 3. \ Performance \ excludes \ ikW \ of \ evaporator \ fan \ motor \ 4. \ R.L.A - Run \ Load \ Amps \ are \ based \ on \ current \ drawn \ at \ nominal \ conditions \ 5. \ F.L.A - Full \ Load \ Amps \ are \ based \ on \ the \ overload \ settings \ [max \ current] \ of \ all \ compressor \ and \ fan \ motor(s)$

Compact rooftop package unit

Features

- Tandem scoll compressors for high system efficiency at full & part load
- 35% smaller footprint than equivalent RTU
- 25% less gas charge than equivalent RTU
- 42% less components than equivalent RTU
- EC plug fans with high static capability up to 500pa
- EC hybrid axial fan
- TXV refrigerant control
- Condenser coil anti-corrosion protection
- Open controls
- 25mm PE closed cell insulation
- · Phase fail protection relay
- · MEPS certified

Factory options customised to order

- Compressor soft starter
- High static pressure outdoor fans
- Double layered insulation to indoor section
- Capacity modulation control
- Outdoor coil(s) with anti-corrosion post-treatment
- · Indoor coil(s) with anti-corrosion post-treatment
- · Outdoor coil guards, powder coated
- Discharge & suction isolation valves
- · Liquid line isolation valves across filter drier
- Cable markers
- Fire relay
- APAC Supply & Return connections.
- High Level Interface (HLI) Modbus connectivity
- Integrated filter frame 50mm
- Economiser dampers and actuators (no controls)

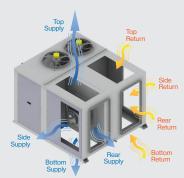
Factory options engineered to order

- 316 stainless steel cabinet, unpainted
- 304 stainless steel cabinet, powder coated
- · Stainless steel external fixings
- Outdoor coil(s) copper / copper
- Indoor coil(s) copper / copper
- Power supply no neutral (415/3/50)
- Ductable air off in lieu of standard axial

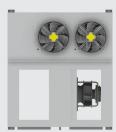
Handing options

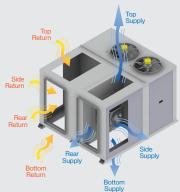
Left hand supply air (standard)





Right hand supply air (optional)





Specifications (28 to 48kW)

Model Number (Reverse Cycle)	Packaged Unit	P028AHR	P033AHR	P038AHR	P043AHR	P048AHR							
•	Total Capacity (kW) ³	28.10	32.30	37.60	42.21	45.84							
Rated Cooling	Sensible ³	22.89	26.65	30.42	34.70	38.09							
	EER (kW/ikW) ³	3.21	3.25	3.30	3.20	3.16							
	Total Capacity (kW)	28.48	33.00	39.58	43.93	47.48							
lated Heating ¹	COP	3.60	3.67	3.66	3.62	3.65							
IEPS Certified				Yes									
perating Range	Minimum °C			-10									
apacity Steps	%			0/50/100									
	Туре	Tandem Scroll											
ompressor	Starter			D.O.L (Optional Soft Starter)								
	Qty		1										
	Туре	EC Axial											
outdoor Fan	Speed Control			Pressure Transducer									
	Qty			1									
	Туре			R410A									
efrigerant System	Charge Per Circuit kg	5.75	6.75	9.5	11	10.8							
	No of Circuits	1											
	Туре	EC Plug											
door Fan	Speed Control	Potentiometer											
	Qty	1											
	Nominal	1450	1775	1875	2200	2470							
irflow Indoor (L/s)	Maximum	1813	2219	2344	2750	3088							
	Minimum	1088	1331	1406	1650	1853							
vailable External tatic Pressure	Pa		High Station	c Capability (See Performan	ice Curves)								
Rating				IP44									
ower Supply	(Volt/Phase/Hz)			400-415V/3Ph+N/50Hz									
ated Load Amps ⁴ .	Total	16.1	17.3	19.8	22.7	26.6							
ull Load Amps ⁵ .	Total	26.8	29.3	35.7	35.8	38.2							
	Height	1350	15	55	170	60							
otal imensions (mm)	Width			1550									
	Length			1850									
lominal Weight ² .	Total kg	425	470	490	540	570							
lated Sound Power	db(A)	67.9		68	8.5								

 $^{1.} For reverse \ cycle \ model \ only \ 2. For base \ model \ only. \ Factory \ options \ will \ vary \ 3. \ Performance \ excludes \ ikW \ of \ evaporator \ fan \ motor \ 4. \ R.L.A - Run \ Load \ Amps \ are \ based \ on \ current \ drawn \ at \ nominal \ conditions \ 5. \ F.L.A - Full \ Load \ Amps \ are \ based \ on \ the \ overload \ settings \ [max \ current] \ of \ all \ compressor \ and \ fan \ motor(s)$

Split ducted unit (Low profile)

Features

- Low profile space saving design suitable for in-ceiling installation
- EC direct drive centrifugal blower (12-23kW)
- EC plug fans 024-045 with high static capability up to 500pa
- Hybrid axial fan (12-45kW)
- TXV refrigerant control
- Condenser coil anti-corrosion protection
- · Open controls
- 25mm PE closed cell insulation
- · Phase fail protection relay
- · MEPS certified

Factory options customised to order

Outdoor

- · Compressor soft starter
- Copper/copper coil(s)
- · Capacity modulation control
- High static pressure outdoor fans
- · Outdoor coil(s) with anti-corrosion post-treatment
- · Outdoor coil guards, powder coated
- Discharge & suction isolation valves
- High Level Interface (HLI) Modbus connectivity
- · Cable markers

Indoor

- Double layered insulation to indoor section
- · Copper/copper coil(s)
- Indoor coil(s) with anti-corrosion post-treatment

Factory options engineered to order

Outdoor

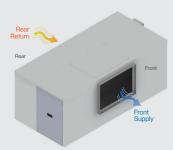
- · 316 stainless steel cabinet, unpainted
- 304 stainless steel cabinet, powder coated
- · Stainless steel external fixings
- · Coil(s) copper / copper
- Power supply no neutral (415/3/50)
- Ductable air off in lieu of standard axial

Indoo

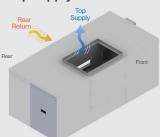
- Stainless steel external fixings
- Coil(s) copper / copper
- Power supply no neutral (415/3/50)
- R22/R407C application

Handing options (Indoor)

Front supply / Rear return



Top supply / Rear return



Handing (Outdoor)



Specifications (12 to 45kW)

Model Number	Indoor Unit	S012ILR	S015ILR	S018ILR	S020ILR	S023ILR	S024ILR	S030ILR	S035ILR	S040ILR	S045ILR		
(Reverse Cycle)	Outdoor Unit	S0120VR	S0150VR	S0180VR	S020OVR	S023OVR	S024OVR	S0300VR	S035OVR	S0400VR	S045OVR		
	Total Capacity (kW) ³	12.57	15.54	17.43	20.53	22.89	25.15	31.02	34.13	39.78	45.27		
Rated Cooling	Sensible ³	9.7	12.13	13.45	15.88	18.17	19.39	25.97	28.12	33.42	36.62		
	EER (kW/ikW) ³	3.50	3.70	3.49	3.60	3.32	3.59	3.60	3.44	3.40	3.27		
Baladilla d'ad	Total Capacity (kW)	11.90	14.70	16.70	20.60	22.50	23.80	30.20	33.60	40.10	43.50		
Rated Heating ¹	COP	3.66	3.87	3.71	3.81	3.63	3.66	3.60	3.78	3.61	3.71		
MEPS Certified			Yes										
Operating Range	Maximum °C					+!	50						
Operating narige	Minimum °C		-10										
Capacity Steps	%			0/100					0/50/100				
	Туре	Scroll											
Compressor	Starter	D.O.L (Optional Soft Starter)											
	Qty			1					2				
	Туре		Hybrid Axial										
Outdoor Fan	Speed Control	Pressure Transducer											
	Qty	2											
	Туре					R4	410A						
Refrigerant System	Charge Per Circuit kg	3.95	5.30	5.70	7.30	6.80	3.95	5.30	5.70	7.30	6.80		
	No of Circuits			1					2				
	Туре		EC (Centrifugal Blo	ower				EC Plug				
Indoor Fan	Speed Control		,	Variable Speed	d				Potentiometer	-			
	Qty			1			2						
	Nominal	625	835	875	990	1120	1250	1670	1750	1985	2235		
Airflow Indoor (L/s)	Maximum	781	1044	1094	1238	1400	1563	2088	2188	2481	2794		
	Minimum	469	626	656	743	840	938	1253	1313	1489	1676		
Available External Static Pressure	Pa			+200 Pa			High	Static Capabi	lity (See Fan Pe	erformance Cu	rves)		
IP Rating						IP	44						
Power Supply	(Volt/Phase/Hz)					400-415V/3	Ph + N / 50Hz						
Rated Load Amps ⁴	Outdoor/Indoor/ Total	6.5 / 2.1 / 8.6	7.5/2.8/11.3	9.1/4.0/13.1	9.4/4.2/13.6	10.3/5.8/15.1	12.8/ 0.6/13.6	14.7/ 1.1/ 15.8	18/1.2/19.1	19.2/1.4/20.6	20.9/1.8/22.7		
Full Load Amps ⁵	Outdoor/Indoor/ Total	9.7/ 4.4/ 14.1	12/4.4/16.4	13.5/4.4/17.9	17.4/5.	9/23.3	19.6/5.2/24.8	24.2/5.2/29.4	27.2/5.2/32.4	35.2/5	.2/40.4		
	Height			1162					1190				
Outdoor Dimensions (mm)	Width			730			1850						
	Length			1550			1425						
	Height		444		45	55			690				
Indoor Dimensions (mm)	Width		1225		15	00		1700		22	50		
	Length		655		62	25	820						
Indoor and Outdoor Pipe Connection	Liquid mm (inch)		9.5 (3/8") x1		9.5 (3)	/8") x1		9.5 (3/8") x 2		9.5 (3/	8") x2		
Diameter	Gas mm (inch)		19.1 (3/4") x1		22.2 (7	7/8") ×1	19.1 (3/4") × 2			22.2 (7/8") × 2			
Nominal Weight ² .	Outdoor kg	211	214	217	220	223	362	382	389	4	14		
Nominal Weight ² .	Indoor kg		70		74		192 200		233				
			61.7				66.5			68.7			

 $^{1.} For reverse \ cycle \ model \ only \ 2. For base \ model \ only. Factory \ options \ will \ vary \ 3. Performance \ excludes \ ikW \ of \ evaporator \ fan \ motor \ 4. R.L.A - Run \ Load \ Amps \ are \ based \ on \ the \ overload \ settings \ [max \ current] \ of \ all \ compressor \ and \ fan \ motor(s)$

Split ducted unit (Horizontal)

Features

- Field configurable supply air outlet
- EC plug fans with high static capability up to 500pa
- Hybrid axial fan (12-45kW)
- EC hybrid axial fan (55-95kW)
- TXV refrigerant control
- Condenser coil anti-corrosion protection
- · Open controls
- 25mm PE closed cell insulation
- · Phase fail protection relay
- · MEPS certified
- BCA compliant

Factory options customised to order

Outdoor

- · Compressor soft starter
- Copper/copper coil(s)
- · Capacity modulation control
- · High static pressure outdoor fans
- Outdoor coil(s) with anti-corrosion post-treatment
- · Outdoor coil guards, powder coated
- Discharge & suction isolation valves
- High Level Interface (HLI) Modbus connectivity
- Cable markers

Indoor

- · Double layered insulation to indoor section
- Copper/copper coil(s)
- · Indoor coil(s) with anti-corrosion post-treatment

Factory options engineered to order

Outdoor

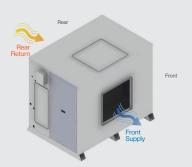
- 316 stainless steel cabinet, unpainted
- 304 stainless steel cabinet, powder coated
- Stainless steel external fixings
- Coil(s) copper / copper
- Power supply no neutral (415/3/50)
- Ductable air off in lieu of standard axial

Indoor

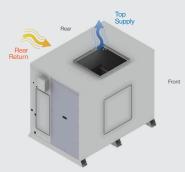
- Stainless steel external fixings
- Coil(s) copper / copper
- Power supply no neutral (415/3/50)
- R22/R407C application

Handing options (Indoor)

Front supply / Rear return (Standard)



Top supply / Rear return (Field configurable)



Handing (Outdoor)



Specifications (24 to 95kW)

	_		_										
Model Number	Indoor Unit	S024IHR	S030IHR	S035IHR	S040IHR	S045IHR	S055IHR	S065IHR	S075IHR	S085IHR	S095IHR		
(Reverse Cycle)	Outdoor Unit	S024OVR	S030OVR	S035OVR	S0400VR	S0450VR	S055OVR	S065OVR	S075OVR	S085OVR	S095OVR		
	Total Capacity (kW) ³	25.14	31.02	34.13	39.78	45.27	52.90	63.88	72.95	83.74	94.04		
Rated Cooling	Sensible ³	19.38	25.97	28.12	33.42	36.62	44.01	54.5	58.5	69.34	77.49		
	EER (kW/ikW) ³	3.59	3.60	3.44	3.40	3.27	3.07	3.28	3.49	3.47	3.24		
Rated Heating ¹	Total Capacity (kW)	23.80	30.20	33.60	40.10	43.50	54.30	65.00	73.40	84.30	96.10		
nateu rieating	COP	3.66	3.66 3.60 3.78 3.61 3.71 3.39 3.61 3.59 3.60										
MEPS Certified			Yes								BCA Compliant		
Operating Dangs	Maximum °C					+{	50						
Operating Range	Minimum °C		-10										
Capacity Steps	%		0/50/100										
	Туре	Scroll											
Compressor	Starter	D.O.L (Optional Soft Starter)											
	Qty					2	2						
	Туре			Hybrid Axial				ı	EC Hybrid Axia	al			
Outdoor Fan	Speed Control		Variable Speed Pressure Transc										
	Qty		2										
	Туре		R410A										
Refrigerant System	Charge Per Circuit kg	3.95	5.30	5.70	7.30	6.80	5.75	6.75	9.50	11.00	10.80		
	No of Circuits	2											
	Туре	EC Plug											
Indoor Fan	Speed Control	Potentiometer											
	Qty	1 2											
	Nominal	1250	1670	1750	1985	2235	2880	3550	3750	4400	4930		
Airflow Indoor (L/s)	Maximum	1563	2088	2188	2481	2794	3600	4438	4688	5500	6163		
	Minimum	938	1253	1313	1489	1676	2160	2663	2813	3300	3698		
Available External Static Pressure	Pa				High Static (Static Capability (See Fan Performance Curves)							
IP Rating						IP.	44						
Power Supply	(Volt/Phase/Hz)					400-415V/3	Ph + N / 50Hz						
Rated Load Amps ⁴	Outdoor/Indoor/ Total	12.9/1/13.6	14.8/1.2/15.9	18/1.3/19.4	19.4/1.3/20.7	21.1/1.7/23	28.6/2.5/31.1	32.7/2.2/34.9	35.3/2.8/38.1	40.2/3.3/43.5	52.2/4.1/56.3		
Full Load Amps ⁵	Outdoor/Indoor/	19.6/4.2/23.8	24.2/4.2/28.4	27.2/4.2/31.4	35.2/4.6/39.8	35.2/4.6/39.8	45.2/4.6/49.8	47/8.4/55.4	53/8.4/61.4	65/8.6/73.6	71/8.6/79.6		
	Total Height			1190			1390	15	95	180	00		
Outdoor	Width			18	50				22	200			
Dimensions (mm)	Length					14	25						
	Height			1195			1400	16	05	180	05		
Indoor	Width				16	00				18			
Dimensions (mm)	Length						00						
Indoor and Outdoor	Liquid mm (inch)		9.5 (3/8") x 2		9.5 (3)	′8") x2		12.7 (1/2") x 2		15.9 (5.	/8")×2		
Pipe Connection Diameter	Gas mm (inch)		19.1 (3/4") x 2			/8") x2					I/8") x 2		
Nominal Weight ² .	Outdoor kg	362	382	389		14	510	600	610	761	783		
Nominal Weight ² .	Indoorkg	201	20			33	290		40	46			
Rated Sound Power	db(A)	201	66.5					J.					
nateu sound Power	UD(A)		0.00		66.3 70.9			71.5					

 $^{1.} For reverse \ cycle \ model \ only \ 2. For base \ model \ only. Factory \ options \ will \ vary \ 3. Performance \ excludes \ ikW \ of \ evaporator \ fan \ motor \ 4. R.L.A - Run \ Load \ Amps \ are \ based \ on \ the \ overload \ settings \ [max \ current] \ of \ all \ compressor \ and \ fan \ motor \ (s)$

Vertical package unit

Features

- Scroll type compressors
- EC plug fans with high static capability up to 500pa
- Hybrid axial fan (12-45kW)
- TXV refrigerant control
- Condenser coil anti-corrosion protection
- Open controls
- 25mm PE closed cell insulation
- Phase fail protection relay
- MEPS certified

Factory options customised to order

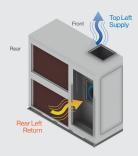
- · Compressor soft starter
- · High static pressure outdoor fans
- Double layered insulation to indoor section
- Capacity modulation control
- Outdoor coil(s) with anti-corrosion post-treatment
- Indoor coil(s) with anti-corrosion post-treatment
- · Outdoor coil guards, powder coated
- Discharge & suction isolation valves
- · Liquid line isolation valves across filter drier
- High Level Interface (HLI) Modbus connectivity
- APAC Supply & Return connections
- · Cable markers
- Fire relay

Factory options engineered to order

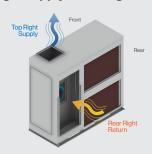
- 316 stainless steel cabinet, unpainted
- 304 stainless steel cabinet, powder coated
- · Stainless steel external fixings
- Outdoor coil(s) copper / copper
- Indoor coil(s) copper / copper
- Power supply no neutral (415/3/50)
- Ductable air off in lieu of standard axial

Handing options (Indoor)

Top left supply / Rear left return



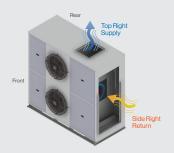
Top right supply / Rear right return



Top left supply / Side left return



Top right supply / Side right return



Specifications (12 to 45kW)

Model Number (Reverse Cycle)	Vertical Packaged	P012AVR	P015AVR	P018AVR	P020AVR	P023AVR	P024AVR	P030AVR	P035AVR	P040AVR	P045AVR	
(,	Total Capacity (kW) ³	12.30	15.50	17.50	20.00	22.80	25.14	31.00	34.13	39.78	45.27	
Rated Cooling	Sensible ³	9.42	12.50	13.50	15.30	17.50	18.86	25.25	27.06	31.25	35.00	
	EER (kW/ikW) ³	3.52	3.60	3.43	3.39	3.28	3.59	3.60	3.44	3.40	3.27	
D	Total Capacity (kW)	11.90	14.70	16.70	20.60	22.50	23.80	30.20	34.25	40.09	43.53	
Rated Heating ¹	COP	3.66	3.87	3.71	3.81	3.63	3.66	3.60	3.85	3.61	3.77	
MEPS Certified						Ye	es					
On austine Desert	Maximum °C					+5	50					
Operating Range	Minimum °C					-1	0					
Capacity Steps	%		0/50/100									
	Туре	Scroll										
Compressor	Starter	D.O.L (Optional Soft Starter)										
	Qty			1					2			
	Туре	Hybrid Axial										
Outdoor Fan	Speed Control	Pressure Transducer										
	Qty	1 2										
	Туре	R410A										
Refrigerant System	Charge Per Circuit kg	3.95	5.30	5.70	7.30	6.80	3.95	5.30	5.70	7.30	6.80	
	No of Circuits			1					2			
	Туре	EC Plug										
Indoor Fan	Speed Control	Potentiometer										
	Qty					1	2					
	Nominal	625	835	875	990	1120	1250	1670	1750	1985	2235	
Airflow Indoor (L/s)	Maximum	781	1044	1094	1238	1400	1563	2088	2188	2481	2794	
	Minimum	469	626	656	743	840	938	1253	1313	1489	1676	
Available External Static Pressure	Pa				High Stati	c Capability (S	ee Performand	ce Curves)				
IP Rating				IP55					IP44			
Power Supply	(Volt/Phase/Hz)					400-415V/3	Ph+N/50Hz					
Rated Load Amps ⁴	Total	5.60	6.88	8.50	9.72	12.40	13.90	16.10	19.80	21.20	23.50	
Full Load Amps ⁵	Total	12.40	14.70	16.20	20	.20	23.80	28.40	31.40	40	.50	
	Height		1579		19	65			2140			
Dimensions (mm)	Width		1375		13	70			2250			
	Length			850	950							
Nominal Weight ^{2.}	kg	250	2	70	30	00	570	580	590	610	620	
Rated Sound Power	db(A)		63.5			3.9	66.5			68.7		

 $^{1.} For reverse \ cycle \ model \ only \ 2. For base \ model \ only. \ Factory \ options \ will \ vary \ 3. \ Performance \ excludes \ ikW \ of \ evaporator \ fan \ motor \ 4. \ R.L.A - Run \ Load \ Amps \ are \ based \ on \ the \ overload \ settings \ [max \ current] \ of \ all \ compressor \ and \ fan \ motor \ (s)$

Split ducted unit (Vertical)

Features

- Floor mounted vertical design with space saving footprint
- EC plug fans with high static capability up to 500pa
- Hybrid axial fan (12-45kW)
- TXV refrigerant control
- Condenser coil anti-corrosion protection
- Open controls
- 25mm PE closed cell insulation
- Phase fail protection relay
- · MEPS certified

Factory options customised to order

Outdoor

- · Compressor soft starter
- · Copper/copper coil(s)
- High static pressure outdoor fans
- Capacity modulation control
- · Outdoor coil(s) with anti-corrosion post-treatment
- Outdoor coil guards, powder coated.
- Discharge & suction isolation valves
- High Level Interface (HLI) Modbus connectivity
- · Cable markers

Indoor

- Double layered insulation to indoor section
- Copper/copper coil(s)
- · Indoor coil(s) with anti-corrosion post-treatment

Factory options engineered to order

Outdoor

- 316 stainless steel cabinet, unpainted
- 304 stainless steel cabinet, powder coated
- · Stainless steel external fixings
- Coil(s) copper / copper
- Power supply no neutral (415/3/50)
- · Ductable air off in lieu of standard axial

Indoor

- · Stainless steel external fixings
- · Coil(s) copper / copper.
- Power supply no neutral (415/3/50)
- R22/R407C application

Handing options (Indoor)



Handing (Outdoor)





Specifications (12 to 45kW)

Model Number	Indoor Unit	S012IVR	S015IVR	S018IVR	S020IVR	S023IVR	S024IVR	S030IVR	S035IVR	S040IVR	S045IVR		
(Reverse Cycle)	Outdoor Unit	S012OVR	S0150VR	S018OVR	S020OVR	S023OVR	S024OVR	S0300VR	S0350VR	S0400VR	S0450VR		
	Total Capacity (kW) ³	12.30	15.50	17.50	20.00	22.80	25.15	31.02	34.13	39.78	45.27		
Rated Cooling	Sensible ³	9.42	12.50	13.50	15.30	17.50	19.39	25.97	28.12	32.42	36.62		
	EER (kW/ikW) ³	3.52	3.60	3.43	3.39	3.28	3.59	3.60	3.44	3.40	3.27		
	Total Capacity (kW)	11.90	14.70	16.70	20.60	22.50	23.80	30.20	33.60	40.10	43.50		
Rated Heating ¹	COP	3.66	3.87	3.71	3.81	3.63	3.66	3.60	3.78	3.61	3.71		
MEPS Certified			Yes										
	Maximum °C					+	50						
Operating Range	Minimum °C						10						
Capacity Steps	%			0/100					0/50/100				
	Туре					Sc	croll						
Compressor	Starter	D.O.L (Optional Soft Starter)											
	Qty			1					2				
	Туре		Hybrid Axial										
Outdoor Fan	Speed Control	Pressure Transducer											
	Qty		2										
	Туре	R410A											
Refrigerant System	Charge Per Circuit kg	3.95	5.3	5.7	7.3	6.8	3.95	5.30	5.70	7.30	6.80		
	No of Circuits			1					2				
	Туре					EC	Plug						
Indoor Fan	Speed Control	Potentiometer											
	Qty					1					2		
	Nominal	625	835	875	990	1120	1250	1670	1750	1985	2235		
Airflow Indoor (L/s)	Maximum	781	1044	1094	1238	1400	1563	2088	2188	2481	2794		
	Minimum	469	626	656	743	840	938	1253	1313	1489	1676		
Available External Static Pressure	Pa				High Stati	c Capability (S	See Performan	ce Curves)					
IP Rating						IF	244						
Power Supply	(Volt/Phase/Hz)					400-415V/3	3Ph + N / 50Hz						
Rated Load Amps ⁴	Outdoor/Indoor/Total	6.5/0.5/7.0	7.5/0.9/8.4	9.1/0.9/10.0	9.4/1.0/10.4	10.3/1.3/11.6	12.8/1.1/13.6	14.7/ 1.4/ 15.9	18/1.8/19.2	19.2/2/20.6	20.9/2.6/22.6		
Full Load Amps⁵	Outdoor/Indoor/Total	9.7/2.6/12.3	12/2.6/14.6	13.5/2.6/16.1	17.4/2.6/20.0	17.4/2.6/16.1	19.6/4.2/23.8	24.2/4.2/28.4	27.2/4.2/31.4	35.2/5.3/40.5	35.2/5.3/40.5		
	Height			1162					1190				
Outdoor Dimensions (mm)	Width			730					1850				
	Length			1550					1425				
	Height		1580		18	10			2140				
Indoor Dimensions (mm)	Width		850		85	50			925				
	Length		625		62	25	950						
Indoor and Outdoor Pipe Connection	Liquid mm (inch)		9.5 (3/8") x1		9.5 (3)	/8") x1	9.5 (3/8") × 2			9.5 (3/8") × 2			
Diameter	Gas mm (inch)		19.1 (3/4") x 1		22.2 (7/8") ×1			19.1 (3/4") x 2			7/8") ×2		
Nominal Weight ² .	Outdoor kg	211	214	217	220	223	362	382	389	4	14		
Nominal Weight ² .	Indoor kg	127	15	31	14	17	192	20	00	2	25		
Rated Sound Power	db(A)		61.7		66	6.6	66.5			68.7			

 $1. For reverse \ cycle \ model \ only \ 2. For base \ model \ only. Factory \ options \ will \ vary \ 3. Performance \ excludes \ ikW \ of \ evaporator \ fan \ motor \ 4. R.L.A - Run \ Load \ Amps \ are \ based \ on \ current \ drawn \ at \ nominal \ conditions \ 5. F.L.A - Full \ Load \ Amps \ are \ based \ on \ the \ overload \ settings \ [max \ current] \ of \ all \ compressor \ and \ fan \ motor(s)$

The perfect upgrade





Our commercial and industrial range of products are a near perfect fit for most legacy APAC units in capacity, footprint, ductwork, controls and power supply connections.

Features

- Low installation costs. A perfect match to the APAC unit size, footprint, ductwork, mains power and controls avoiding costly modifications.
- Low noise. Fans slow down during low ambient for less noise, with up to 20% less sound.
- · Low cost of ownership. High efficiency direct drive fans ensure low maintenance costs.
- Reduced energy costs. High efficiency ratings with up to 31% energy savings compared to legacy APAC equivalent products.
- · Australian-made. Engineered and built to operate in Australia's toughest conditions.

APAC Replacement Matrix

			APAC Mod	lel Numbers	
	kW's	New SA Series	AE Series	AD & AA Series	S Series
	11~12	P012AHR3SA			S11HP/BH
	14	P015AHR3SA		P014AHR9AD	S14HP/BH
	15~16	P015AHR3SA	P015AHR9AE	P016AHR9AA	S16HP/BH
	17~18	P018AHR3SA	P018AHR9AE	P017AHR9AA	S18HP/BH
	19~20	P020AHR3SA		P019AHR9AA	S20HP/BH
	20~21	P020AHR3SA	P021AHR9AE		S21HP/BH
	23	P023AHR3SA	P024AHR9AE	P023AHR9AA	S24HP/BH
	24~25	P024AHR3SA			S25HP/BH
	26~28	P028AHR3SA		P026AHR9AA	
	30	P030AHR3SA	P030AHR9AE	P030AHR9AA	
-	32~33	P033AHR3SA		P032AHR9AA	S32HP/BH
Rooftop	35~36	P035AHR3SA	P036AHR9AE	P036AHR9AD	S35HP/BH
fto	37~38	P038AHR3SA			S37HP/BH
٥	40	P040AHR3SA	P040AHR9AE		
	42~43	P043AHR3SA		P042AHR9AD	
	45~46	P045AHR3SA	P046AHR9AE	P046AHR9AD	S45HP/BH
	46~48	P048AHR3SA			S46HP/BH
	51	P055AHR3SA			S51HP/BH
	55	P055AHR3SA	P055AHR9AE	P055AHR9AD	S56HP/BH
	64~65	P065AHR3SA	P064AHR9AD	P064AHR9AD	S65HP/BH
	75	P075AHR3SA	P075AHR9AD	P075AHR9AD	
	80	P085AHR3SA			S80HP/BH
	85	P085AHR3SA	P085AHR9AD	P085AHR9AD	
	95	P095AHR3SA	P096AHR9AD	P096AHR9AD	S95HP/BH
	12	S012ILR			S11HP/EL
	14	S015ILR	0045445045	S014IHR9AD	S14HP/EL
	15~16	S015ILR	S015IHR9AE	S016IHR9AA	S16HP/EL
	17~18	S018ILR	S018IHR9AE	S017IHR9AA	S18HP/EL
	19~20	S020ILR	000411 100 4 5	S019IHR9AA	S20HP/EL
	20~21	S020ILR	S021IHR9AE		S21HP/EL
S	23	S023ILR	S024IHR9AE	S023IHR9AA	S22~24HP/EL
Split Ducted Horizonta	24~25	S024ILR-IHR		COOCHIDOAA	S25HP/EL
D	26~28	S028ILR	COCOLLIDO A E	S026IHR9AA	S28HP/EL
cte	30	S030ILR-IHR	S030IHR9AE	S030IHR9AA S032IHR9AA	S30HP/EL
풀	32~33 35~36	S033ILR S035ILR-IHR	S036IHR9AE	S036IHR9AD	S33HP/EL S35HP/EL
priz	38~43	S038~040~043ILR-IHR	S040IHR9AE	S042IHR9AD	S38~40HP/EL
ont.	45~48	S045~048ILR-IHR	S046IHR9AE	S046IHR9AD	S45~46HP/EL
<u>a</u>	51	S055IHR	0040II II 13AL	OOTON INTOAD	S51HP/EL
	55	S055IHR	S055IHR9AE	S055IHR9AD	S56HP/EL
	64~65	S065IHR	S064IHR9AD	S064IHR9AD	S65HP/EL
	75	S075IHR	S075IHR9AD	S075IHR9AD	000111722
	80	S085IHR	307011110712	007011110712	S80HP/EL
	85	S085IHR	S085IHR9AD	S085IHR9AD	000111722
	95	S095IHR	S096IHR9AD	S096IHR9AD	S95HP/EL
	00	0000	000007.12	000011110712	300722
	12	P012AVR3SA			S12HP/BV
	15	P015AVR3SA			S15HP/BV
<	18	P018AVR3SA			S17HP/BV
ᇍ	20	P020AVR3SA			S20HP/BV
Vertical Package	23	P023AVR3SA			
Pac	24~25	P024AVR3SA			S25HP/BV
kaç	30	P030AVR3SA			S30HP/BV
ge	35	P035AVR3SA			S35HP/BV
	40	P040AVR3SA			
	45	P045AVR3SA			S45HP/BV
	12	S012IVR			S12CEV or HP/EV
(0	15	S015IVR			S15CEV or HP/EV
ğ	18	S018IVR			S17CEV or HP/EV
Ē	20	S020IVR			S20CEV or HP/EV
cte	23	S023IVR			
ğ	24~25	S024IVR			S25CEV or HP/EV
	30	S030IVR			S30CEV or HP/EV
ert				I .	005051/110/51/
Split Ducted Vertical	35	S035IVR			S35CEV or HP/EV
ertical		S035IVR S040IVR S045IVR			S45CEV or HP/EV

For further information visit **apacair.com.au** or call 1300 274 847

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