



## **APAC by Rinnai**

APAC Air Conditioning is an important part of the Rinnai group of companies. Headquartered in Japan, the Rinnai Corporation has an international presence through 13 subsidiaries and affiliates around the world.

Rinnai Australia was established in 1971 and since then has been providing Australians with the comfort, convenience and reliability of Rinnai appliances. Our vision is to be market leaders in the provision of innovative products and services within our target business arenas, and to meet a growing demand for value based products, environmental sustainability and renewable energy efficiency.

Rinnai Australia currently operates a number of class leading manufacturing facilities in Australia, and is proud to add APAC Air Conditioning to its existing portfolio of significant Australian brands.





## Rinnai Manufacturing Malaysia

Rinnai Manufacturing Malaysia produces some of the world's most efficient HVAC products – APAC. RMM was opened to help support the growth of APAC across the region with a facility matching the local Australian production capabilities. Our innovative and tailored approach focusing on relentless R&D, design, and manufacturing capability, further adds to Rinnai's existing superior technical and state-of-the-art manufacturing facilities globally.

Our manufacturing facility located in Selangor, Malaysia is an extension of our APAC facility in Australia, bringing together the same world-class innovative products to the region, supported by a large international sales, distribution and service network.

Being the supplier of choice for industrial and commercial air conditioning throughout Australia for decades, and now with the backing of Rinnai Corporation, our strategic investment aims to position Malaysia as the regional technology hub within the Southeast Asia driving towards as the centre of excellence and innovation.









## Reduced Energy Costs

Our APAC range pushes the boundary in high efficiency ratings so you can enjoy up to 31%\* energy savings, lowering your power bills significantly.



## Customisable

Unmatched list of factory fitted options to make the product suitable for almost any commercial or industrial projects.



High efficiency direct drive fans ensure low ongoing maintenance costs, and better reliability



Engineered & Built in Malaysia



Performance Tested in a NATA accredited Test Laboratory



Quality Assurance Built in a production facility with a certified quality management system to ISO9001

\*Statistic based on comparison with legacy APAC products. Refer to table at https://www.apacair.com. au/replacements/ for comparison.

## **APAC Production**

## **Investing in Manufacturing**

# World-Class Manufacturing

Rinnai Manufacturing in both Australia and Malaysia produces some of the world's most efficient HVAC products – APAC. Our innovative and tailored approach focusing on relentless R&D, design, and manufacturing capability, further adds to Rinnai's existing superior technical and state-of-the-art manufacturing facilities globally.

Our manufacturing facility located in Selangor, Malaysia is an extension of our APAC facility in Melbourne, Australia, bringing the same world-class innovative products to the region, supported by a large international sales, distribution and service network.





## Trusted Performance

Apac has one of the few NATA certified test laboratory's in the region to ensure compliance with the relevant standards. You can rest assured with proven performance in the field.

## Yukawa NATA Certified Laboratory

Yukawa Lab is one of Australia's and Asia's largest testing facilities for Australian, Pacific and Asian high-end appliance testing. Our NATA accredited laboratories are AS ISO/IEC 17025 and AS/NZS ISO 9001 certified, ensuring our test laboratories and environmental chambers are independently audited and international best practices are followed.

- NATA certified 2022; capacity is up to 200kW and the temperature tolerance is ± 0.5° C
- One of the few NATA approved test facilities in the region.





## **APAC Technology**



## **Scroll Compressors**

Scroll type compressors for increased efficiency and reliability.



## **Outdoor Coil Guard**

Provides protection from the elements and impact damage.



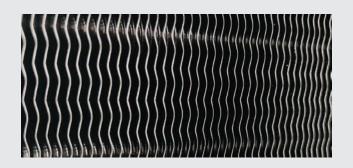
## **EC Plug Fans**

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



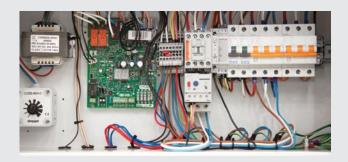
## **Hybrid Axial Fan**

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



### **Coil Corrosion Protection**

Epoxy coated outdoor coils for improved corrosion resistance.



## **Open Controls**

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



## **Customised Designs**

Many pre-engineered factory fitted options to suit your application.



## **Engineered Products**

Our team can engineer products specifically for your application based on your project requirements.

# APAC Signature Product Lineup



**Rooftop Package Unit** 

12-230kW capacity range



## **Compact Rooftop Package Unit**

29-48kW 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.



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

<sup>\*</sup> Statistic based on comparison with legacy APAC products. Refer to table at https://www.apacair.com.au/replacements/ for comparison.

# Signature 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 relav
- 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)

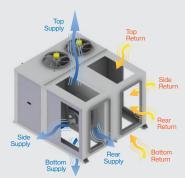
## Factory options engineered to order

- 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**

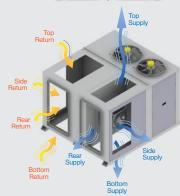
Left hand supply air (standard)





Right hand supply air (optional)





## **Signature Rooftop Package Specifications (12 to 95kW)**

Model Number (Reverse Cycle)	Packaged Unit	P012AHR	P015AHR	P018AHR	P020AHR	P023AHR	P024AHR	P030AHR	P035AHR	P040AHR	P045AHR	P055AHR	P065AHR	P075AHR	P085AHR	P095AHR
(Hereide Gyole)	Total Capacity (kW) <sup>3</sup>	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 <sup>3</sup>	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) <sup>3</sup>	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
	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
Rated Heating <sup>1</sup>	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
Corunca	Maximum °C								+50							
Operating Range	Minimum °C								-10							
Capacity Steps	%			0/100							0/50	)/100				
	Туре		Scroll													
Compressor	Starter							D.O.L (O	ptional Sof	t Starter)						
	Qty			1							2	2				
	Туре					Hybrid	d Axial						E	C Hybrid Ax	ial	
Outdoor Fan	Speed Control					Variable	e Speed						Pres	sure Transo	ducer	
	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
-,	No of Circuits			1							2	2				
	Туре								EC Plug							
Indoor Fan	Speed Control							P	otentiomet	er						
	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
	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)							400-415	5V/3Ph+N	N/50Hz						
Rated Load Amps <sup>4</sup>	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
Full Load Amps <sup>5</sup>	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
	Height			1162					1190			1390	15	95	18	00
Dimensions (mm)	Width			1550					1850			1850		22	00	
	Length			1700			2400				2400		27	'50		
Nominal Weight <sup>2</sup> .	kg	350	364	372	39	90	615	625	635	648	650	730	900	920	1060	1070
Rated Sound Power	db(A)		61.7		66	6.6		66.5		66	5.3	70.9		7	1.5	

<sup>1.</sup> 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)

# Signature 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

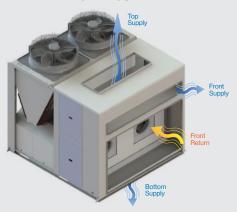
## Factory options engineered to order

- 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

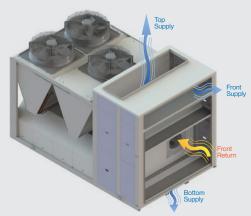
Available as Ducted Split configuration as required.

### **Handing options**

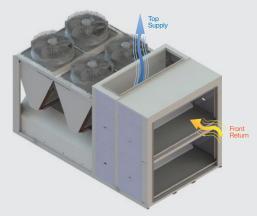
#### P115AHR3SA



P150-170AHR3SA



P200-230AHR3SA



## Signature Rooftop Package Specifications (115 to 230kW)

Model Number (Reverse Cycle)	Packaged Unit	P115AHR	P150AHR	P170AHR	P200AHR	P230AHR				
(Hereide eyele)	Total Capacity (kW) <sup>3</sup>	111.44	149.51	167.17	199.35	222.89				
Rated Cooling	Sensible <sup>3</sup>	91.16	121.25	136.74	161.67	182.32				
	EER (kW/ikW) <sup>3</sup>	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 <sup>1</sup>	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						
Refrigerant 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				
vailable External tatic Pressure	Pa		High Static C	Capability (See Fan Performa	ance Curves)					
Rating				IP44						
ower Supply	(Volt/Phase/Hz)			400-415V/3Ph+N/50Hz						
lated Load Amps <sup>4</sup>	Total	59.4	79.9	89.2	106.5	117.8				
ull Load Amps <sup>5</sup>	Total	100.4	127.8	150.6	170.4	200.8				
	Height	2381	24	100	24	.00				
imensions (mm)	Width	2242 2242 2242								
	Length	2400 3735 4085								
Nominal Weight <sup>2</sup> .	kg	1610	1810	2010	2210	2410				
Rated Sound Power	db(A)	75.6	77.4	77.4	78.6	78.6				

<sup>1.</sup> 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)

# Signature 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)

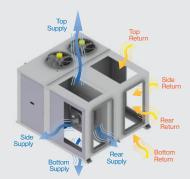
## Factory options engineered to order

- 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

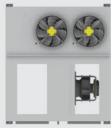
## **Handing options**

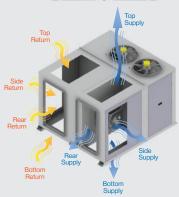
Left hand supply air (standard)





Right hand supply air (optional)





## Signature Compact Specifications (29 to 48kW)

Model Number (Reverse Cycle)	Packaged Unit	P029AHR	P033AHR	P038AHR	P043AHR	P048AHR			
	Total Capacity (kW) <sup>3</sup>	31.00	32.30	37.60	42.21	45.84			
Rated Cooling	Sensible <sup>3</sup>	24.76	26.65	30.42	34.70	38.09			
	EER (kW/ikW) <sup>3</sup>	3.41	3.25	3.30	3.20	3.16			
	Total Capacity (kW)	30.10	33.00	39.58	43.93	47.48			
Rated Heating <sup>1</sup>	COP	3.88	3.67	3.66	3.62	3.65			
MEPS Certified				Yes					
0 " 0	Maximum °C			+50					
Operating Range	Minimum °C	-10							
Capacity Steps	%			0/50/100					
	Туре			Tandem Scroll					
Compressor	Starter			D.O.L (Optional Soft Starter	)				
	Qty			1					
	Туре			EC Axial					
Outdoor Fan	por Fan Speed Control Pressure Transducer								
	Qty			1					
	Туре			R410A					
Refrigerant System	Charge Per Circuit kg	6.75	6.75	9.5	11	10.8			
	No of Circuits	1							
	Туре			EC Plug					
Indoor Fan	Speed Control			Potentiometer					
	Qty			1					
	Nominal	1613	1775	1875	2200	2470			
Airflow Indoor (L/s)	Maximum	2016	2219	2344	2750	3088			
	Minimum	1210	1331	1406	1650	1853			
Available External Static Pressure	Pa		High Stati	c Capability (See Performan	ce Curves)				
IP Rating				IP44					
Power Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz					
Rated Load Amps <sup>4</sup> .	Total	15.3	17.3	19.8	22.7	26.6			
Full Load Amps⁵.	Total	26.7	29.3	35.7	35.8	38.2			
	Height	1555 1760							
Total Dimensions (mm)	Width	1550							
	Length	1850							
Nominal Weight <sup>2</sup> .	Total kg	465	470	490	540	570			
Rated Sound Power	db(A)			68	3.5				

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

# Signature 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 relav
- 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

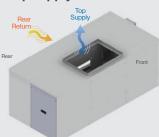
- Stainless steel external fixings
- · Coil(s) copper / copper
- Power supply no neutral (415/3/50)
- R22/R407C application

## **Handing options (Indoor)**

#### Front supply / Rear return



#### Top supply / Rear return



## **Handing (Outdoor)**



## Signature Split Ducted Low Profile Specifications (12 to 45kW)

	lade author	CO40II D	COAFILD	COSOUR	COSOU D	COOOU D	S024ILR	COSOU D	COOFILD	CO 40U D	COAFILD
Model Number (Reverse Cycle)	Indoor Unit	S012ILR	S015ILR	S018ILR	S020ILR	S023ILR		S030ILR	S035ILR	S040ILR	S045ILR
(,	Outdoor Unit	S012OVR	S0150VR	S018OVR	S020OVR	S023OVR	S024OVR	S0300VR	S035OVR	S0400VR	S045OVR
	Total Capacity (kW) <sup>3</sup>	12.57	15.54	17.43	20.53	22.89	25.15	31.02	34.13	39.78	45.27
Rated Cooling	Sensible <sup>3</sup>	9.7	12.13	13.45	15.88	18.17	19.39	25.97	28.12	33.42	36.62
	EER (kW/ikW) <sup>3</sup>	3.50	3.70	3.49	3.60	3.32	3.59	3.60	3.44	3.40	3.27
Rated Heating <sup>1</sup>	Total Capacity (kW)	11.90	14.70	16.70	20.60	22.50	23.80	30.20	33.60	40.10	43.50
	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								
3 2 3	Minimum °C		-10								
Capacity Steps	%		0/100 0/50/100								
	Туре					Sc	croll				
Compressor	Starter					D.O.L (Option	al Soft Starter)				
	Qty			1					2		
	Туре					Hybri	d 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						Potentiomete	r		
	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	Pa			+200 Pa						erformance Cu	
Static Pressure  IP Rating						IP	244		, (0.001.0		,
Power Supply	(Volt/Phase/Hz)						3Ph+N/50Hz				
Rated Load Amps <sup>4</sup>	Outdoor/Indoor/	6.5 / 2.1 /8.6	75/28/113	91/40/131	94/42/136		12.8/ 0.6/13.6	1/1 7/11/15 8	18/1 2/101	19.2/1.4/20.6	20 9/18/227
Full Load Amps <sup>5</sup>	Total Outdoor/Indoor/	9.7/ 4.4/ 14.1	12/4.4/16.4	13.5/4.4/17.9		9/23.3		24.2/5.2/29.4			.2/40.4
Tuil Edda Amps	Total Height	3.17 <del>4.4</del> 7 14.1	12/4.4/10.4	1162	17.47 0.	57 ZG.0	10.0/0.2/24.0	24.270.2720.4	1190	00.270	.2/40.4
Outdoor	Width			730					1850		
Dimensions (mm)											
	Length			1550					1425		
Indoor	Height		444			55			690		
Dimensions (mm)	Width		1225			00		1700		22	50
Length		655			25	820					
Indoor and Outdoor Pipe Connection	Liquid mm (inch)		9.5 (3/8") x1			/8") x1		9.5 (3/8") × 2		9.5 (3)	8") x2
Diameter	Gas mm (inch)		19.1 (3/4") x 1		22.2 (7	7/8") x1		19.1 (3/4") × 2		22.2 (7/8") x 2	
Nominal Weight <sup>2</sup> .	Outdoor kg	211	214	217	220	223	362	382	389	4	14
Nominal Weight <sup>2</sup> .	Indoor kg		70		7	4	192	20	00	23	33
Rated Sound Power	db(A)	61.7 66.6 66.5		68.7		3.7					

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

# Signature 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 relav
- 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

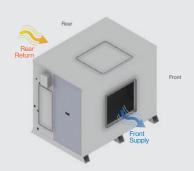
- 316 stainless steel cabinet, unpainted
- · 304 stainless steel cabinet, powder coated
- Stainless steel external fixings
- Coil(s) copper / copper
- Power supply no neutral (415/3/50)
- · Ductable air off in lieu of standard axial

#### 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 (Standard)



Top supply / Rear return (Field configurable)



**Handing (Outdoor)** 



## Signature Split Ducted Horizontal 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	S0850VR	S0950VR
	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 <sup>3</sup>	19.38	25.97	28.12	33.42	36.62	44.01	54.5	58.5	69.34	77.49
	EER (kW/ikW) <sup>3</sup>	3.59	3.60	3.44	3.40	3.27	3.07	3.28	3.49	3.47	3.24
	Total Capacity (kW)	23.80	30.20	33.60	40.10	43.50	54.30	65.00	73.40	84.30	96.10
Rated Heating <sup>1</sup>	COP	3.66	3.60	3.78	3.61	3.71	3.39	3.61	3.59	3.	60
MEPS Certified			Yes BCA Compliant						t		
	Maximum °C					+!	50				
Operating Range	Minimum °C					-1	10				
Capacity Steps	%					0/50	0/100				
	Туре					Sc	croll				
Compressor	Starter					D.O.L (Optiona	al Soft Starter)				
	Qty					2	2				
	Туре			Hybrid Axial				ı	EC Hybrid Axia	al	
Outdoor Fan	Speed Control		,	Variable Speed	d			Pre	essure Transdu	ıcer	
	Qty		2								
	Туре					R4	10A				
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	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 (	Capability (See	e Fan Performa	nce Curves)			
IP Rating						IP	44				
Power Supply	(Volt/Phase/Hz)					400-415V/3	Ph + N / 50Hz				
Rated Load Amps <sup>4</sup>	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 <sup>5</sup>	Outdoor/Indoor/ Total	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
	Height			1190			1390	15	95	18	00
Outdoor Dimensions (mm)	Width			18	50				22	200	
Zanienolone (mm)	Length					14	-25				
	Height			1195			1400	16	05	18	05
Indoor Dimensions (mm)	Width				16	00				18	50
Dimensione (mm)	Length					110	00				
Indoor and Outdoor	Liquid mm (inch)		9.5 (3/8") ×2		9.5 (3/	/8") x2		12.7 (1/2") x 2		15.9 (5	/8") x 2
Pipe Connection Diameter	Gas mm (inch)		19.1 (3/4") × 2		22.2 (7	7/8") x 2	28.6 (1-1/8") x 2 28.6 (1-1/8") x 2				1/8") x 2
Nominal Weight <sup>2</sup> .	Outdoor kg	362	382	389	4	14	510	600	610	761	783
Nominal Weight <sup>2</sup> .	Indoorkg	201	20	04	23	33	290	34	40	4	61
Rated Sound Power	db(A)		66.5		66	6.3	70.9		7	1.5	
			00.0								

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

## Signature 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

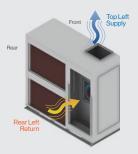
- · Compressor soft starter
- · High static pressure outdoor fans
- Double layered insulation to indoor section
- Capacity modulation control
- · Outdoor coil(s) with anti-corrosion post-treatment
- · Indoor coil(s) with anti-corrosion post-treatment
- · Outdoor coil guards, powder coated
- Discharge & 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

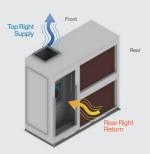
- 316 stainless steel cabinet, unpainted
- 304 stainless steel cabinet, powder coated
- · Stainless steel external fixings
- Outdoor coil(s) copper / copper
- Indoor coil(s) copper / copper
- Power supply no neutral (415/3/50)
- Ductable air off in lieu of standard axial

## **Handing options (Indoor)**

Top left supply / Rear left return



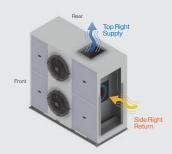
Top right supply / Rear right return



Top left supply / Side left return



Top right supply / Side right return



## Signature Vertical Package Unit Specifications (12 to 45kW)

Model Number (Reverse Cycle)	Vertical Packaged	P012AVR	P015AVR	P018AVR	P020AVR	P023AVR	P024AVR	P030AVR	P035AVR	P040AVR	P045AVR
(	Total Capacity (kW) <sup>3</sup>	12.30	15.50	17.50	20.00	22.80	25.14	31.00	34.13	39.78	45.27
Rated Cooling	Sensible <sup>3</sup>	9.42	12.50	13.50	15.30	17.50	18.86	25.25	27.06	31.25	35.00
	EER (kW/ikW) <sup>3</sup>	3.52	3.60	3.43	3.39	3.28	3.59	3.60	3.44	3.40	3.27
5	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 <sup>1</sup>	COP	3.66	3.87	3.71	3.81	3.63	3.66	3.60	3.85	3.61	3.77
MEPS Certified						Y	es				
On anothing Danger	Maximum °C		+50								
Operating Range	Minimum °C					-1	10				
Capacity Steps	%		0/50/100								
	Туре					Sc	roll				
Compressor	Starter					D.O.L (Optional	al 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					Potenti	iometer				
	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 <sup>4</sup>	Total	5.60	6.88	8.50	9.72	12.40	13.90	16.10	19.80	21.20	23.50
Full Load Amps <sup>5</sup>	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 <sup>2.</sup>	kg	250	27	70	30	00	570	580	590	610	620
Rated Sound Power	db(A)		63.5		66	3.9		66.5		68	3.7

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

# Signature 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)** 





## Signature Split Ducted Unit (Vertical) Specifications (12 to 45kW)

Model Number	Indoor Unit	S012IVR	S015IVR	S018IVR	S020IVR	S023IVR	S024IVR	S030IVR	S035IVR	S040IVR	S045IVR
(Reverse Cycle)	Outdoor Unit	S012OVR	S0150VR	S0180VR	S020OVR	S023OVR	S024OVR	S0300VR	S035OVR	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 <sup>3</sup>	9.42	12.50	13.50	15.30	17.50	19.39	25.97	28.12	32.42	36.62
	EER (kW/ikW) <sup>3</sup>	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 <sup>1</sup>	COP	3.66	3.87	3.71	3.81	3.63	3.66	3.60	3.78	3.61	3.71
MEPS Certified						Y	'es				
	Maximum °C		+50								
Operating Range	Minimum °C					2	10				
Capacity Steps	%			0/100					0/50/100		
	Туре					Sc	croll				
Compressor	Starter					D.O.L (Option	al Soft Starter)				
	Qty			1					2		
	Туре					Hybri	id Axial				
Outdoor Fan	Speed Control					Pressure <sup>-</sup>	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					Potent	iometer				
	Qty	1 2							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 Performand	ce Curves)			
IP Rating						IF	244				
Power Supply	(Volt/Phase/Hz)					400-415V/3	3Ph + N / 50Hz				
Rated Load Amps <sup>4</sup>	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 Amps <sup>5</sup>	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") x2
Diameter Diameter	Gas mm (inch)		19.1 (3/4") x 1		22.2 (7/8") x1 19.1 (3/4") x 2			22.2 (7	7/8") x 2		
Nominal Weight <sup>2</sup> .	Outdoor kg	211	214	217	220	223	362	382	389	4	14
Nominal Weight <sup>2</sup> .	Indoor kg	127	10	31	14	17	192	20	00	2	25
Rated Sound Power db(A) 61.7 66.6 66.5		6	8.7								

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

## **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 designed and engineered. Built to operate in Australia's toughest conditions.

## **APAC Replacement Matrix**

			APAC Mod	del Numbers	
	kW's	New SA Series	AE Series	AD & AA Series	S Series
	11~12	P012AHR3SA	7.2 00.100	7.5 6.7 1.7 65.1.55	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
Ť	37~38	P038AHR3SA			S37HP/BH
0	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		S014IHR9AD	S14HP/EL
	15~16	S015ILR	S015IHR9AE	S016IHR9AA	S16HP/EL
	17~18	S018ILR	S018IHR9AE	S017IHR9AA	S18HP/EL
	19~20	S020ILR		S019IHR9AA	S20HP/EL
	20~21	S020ILR	S021IHR9AE		S21HP/EL
(0	23	S023ILR	S024IHR9AE	S023IHR9AA	S22~24HP/EL
Split Ducted Horizonta	24~25	S024ILR-IHR			S25HP/EL
Ē	26~28	S028ILR		S026IHR9AA	S28HP/EL
Cte	30	S030ILR-IHR	S030IHR9AE	S030IHR9AA	S30HP/EL
프	32~33	S033ILR		S032IHR9AA	S33HP/EL
ori.	35~36	S035ILR-IHR	S036IHR9AE	S036IHR9AD	S35HP/EL
Ö	38~43	S038~040~043ILR-IHR	S040IHR9AE	S042IHR9AD	S38~40HP/EL
<u>a</u>	45~48	S045~048ILR-IHR	S046IHR9AE	S046IHR9AD	S45~46HP/EL
	51	S055IHR	00551110045	00551110040	S51HP/EL
	55	S055IHR	S055IHR9AE	S055IHR9AD	S56HP/EL
	64~65	S065IHR	S064IHR9AD	S064IHR9AD	S65HP/EL
	75	S075IHR	S075IHR9AD	S075IHR9AD	000110/51
	80	S085IHR	000511 100 4 0	0005111100410	S80HP/EL
	85	S085IHR	S085IHR9AD	S085IHR9AD	COELID/EI
	95	S095IHR	S096IHR9AD	S096IHR9AD	S95HP/EL
	12	P012AVR3SA			S12HP/BV
	15	P015AVR3SA			S15HP/BV
	18	P018AVR3SA			S17HP/BV
/ert	20	P020AVR3SA			S20HP/BV
ica	23	P023AVR3SA			3201 II 7 D V
Vertical Package	24~25	P024AVR3SA			S25HP/BV
cka	30	P030AVR3SA			S30HP/BV
ge	35	P035AVR3SA			S35HP/BV
	40	P040AVR3SA			33011172
	45	P045AVR3SA			S45HP/BV
	12	S012IVR			S12CEV or HP/EV
	15	S015IVR			S15CEV or HP/EV
Sp	18	S018IVR			S17CEV or HP/EV
青日	20	S020IVR			S20CEV or HP/EV
uc	23	S023IVR			
ed	24~25	S024IVR			S25CEV or HP/EV
Split Ducted Vertica	30	S030IVR			S30CEV or HP/EV
tica	35	S035IVR			S35CEV or HP/EV
_	40	S040IVR			
	45	S045IVR			S45CEV or HP/EV
				'	

## **Global Product Lineup**

## **Cooling Only & Reverse Cycle**



Under - Over (Horizontal)
Packaged Unit

012-023kW capacity range



Side - By - Side (Horizontal) Package Unit

012-095kW capacity range



## Split Ducted Unit (Low Profile)

012-046kW capacity range



# Low Operating Costs

Our APAC range pushes the boundary in high efficiency ratings so you can enjoy up to 31%\* energy savings, lowering your power bills significantly.



# Low Cost of Owenership

High efficiency direct drive fans ensure low ongoing maintenance costs.



## **Longer Lasting**

Engineered and built to operate in world's toughest conditions.

<sup>\*</sup> Statistic based on comparison with legacy APAC products. Refer to table at https://www.apacair.com.au/replacements/ for comparison.

# Global Under-Over Horizontal Packaged Unit

#### **Features**

- · Galvanised type steel cabinet painted inside & out
- Scroll type compressor
- EC blower type indoor fan with speed control
- External rotor motor type outdoor fan(s)
- TXV refrigerant control
- · Removable outdoor coil guards
- 1000hrs Epoxy coated outdoor coils
- Robust controls
- PE type closed cell insulation
- · Safety protection circuit
- · Phase fail relay
- Fire relay

## Factory options – Customised to order (CTO)

- Compressor soft start
- High static outdoor fans
- Double layered insulation to indoor section (50mm)
- Capacity modulation control
- Outdoor coil(s) with anti-corrosion post treatment
- Indoor coil(s) with anti-corrosion post treatment
- Discharge & suction isolation valves
- Liquid isolation valves
- Compressor sound jackets
- IP55 Rating
- · Modbus high level interface

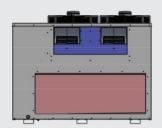
## Factory options – Engineered to order (ETO)

- 316 stainless steel cabinet, unpainted
- 316L stainless steel external fasteners
- Outdoor coil(s) copper / copper
- Indoor coil(s) copper / copper

### **Handing options**

Centre Under Return Centre Over Supply





## Global Under-Over Horizontal Packaged Unit (Cool Only) 12-23kW

Model Number (Cooling Only)	Packaged Unit	P012AHC3SA-C-S2061001	P015AHC3SA-C-S2061001	P018AHC3SA-C-S2061001	P020AHC3SA-C-S2061001	P023AHC3SA-C-S2061001				
	Total Capacity (kW)3	12.57	15.54	17.43	20.53	22.89				
Rated Cooling	Sensible 3	9.70	12.13	13.45	15.88	18.17				
	EER (kW/ikW)3	3.50	3.70	3.49	3.60	3.32				
AHRI Compliant	AHRI 210/240			Yes						
Operating Range	Maximum °C	+52								
Operating realige	Minimum °C			+10						
Capacity Steps	%			0/100						
	Туре			Scroll						
Compressor	Starter	D.O.L (Optional Soft Starter)								
	Qty			1						
	Туре		Axial							
Outdoor Fan	Speed Control		2 Speed Via Capacitor							
	Qty									
	Туре		R410A							
Refrigerant System	Charge Per Circuit kg	3.95     5.30     5.70     7.30     6.80								
	No of Circuits			1						
	Туре			Twin EC Blower						
Indoor Fan	Speed Control	Variable Speed								
	Qty	1								
	Nominal	625	835	875	990	1120				
Airflow Indoor (L/s)	Maximum	781	1044	1094	1238	1400				
	Minimum	469	626	656	743	840				
Available External Static Pressure	Pa			+200 Pa						
IP Rating				IP44 (Optional IP55)						
Power Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz						
Rated Load Amps4	Total	8.60	11.30	13.10	13.60	15.10				
Full Load Amps5	Total	14.1	16.4	17.9	2	3.3				
	Height		1091		1:	191				
Dimensions (mm)	Width	1352 1527								
	Length	1276 1426								
Nominal Weight2.	kg	215	231	238	2	95				
Rated Sound Power	db(A)		61.7		6	6.6				

<sup>1.</sup> 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)

Date	Document #	Approved By	Revision
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## Global Under-Over Horizontal Packaged Unit (Reverse Cycle) 12-23kW

Model Number (Reverse Cycle)	Packaged Unit	P012AHR3SA-C-S2061001	P015AHR3SA-C-S2061001	P018AHR3SA-C-S2061001	P020AHR3SA-C-S2061001	P023AHR3SA-C-S2061001			
	Total Capacity (kW)3	12.57	15.54	17.43	20.53	22.89			
Rated Cooling	Sensible 3	9.70	12.13	13.45	15.88	18.17			
	EER (kW/ikW)3	3.50	3.70	3.49	3.60	3.32			
Dated Heatings	Total Capacity (kW)	11.90	14.70	16.70	20.60	22.50			
Rated Heating1	COP	3.66	3.87	3.71	3.81	3.63			
AHRI Compliant	AHRI 210/240			Yes					
On and the second	Maximum °C			+52					
Operating Range	Minimum °C			-10					
Capacity Steps	%			0/100					
	Туре			Scroll					
Compressor	Starter	D.O.L (Optional Soft Starter)							
	Qty			1					
	Туре		Axial						
Outdoor Fan	Speed Control	2 Speed Via Capacitor							
	Qty			2					
	Туре			R410A					
Refrigerant System	Charge Per Circuit kg	3.95	5.30	5.70	7.30	6.80			
	No of Circuits			1					
	Туре			Twin EC Blower					
Indoor Fan	Speed Control		Variable Speed						
	Qty			1					
	Nominal	625	835	875	990	1120			
Airflow Indoor (L/s)	Maximum	781	1044	1094	1238	1400			
	Minimum	469	626	656	743	840			
Available External Static Pressure	Pa			+200 Pa					
IP Rating				IP44					
Power Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz					
Rated Load Amps4	Total	8.60	11.30	13.10	13.60	15.10			
Full Load Amps5	Total	14.1	16.4	17.9	23	3.3			
	Height	1091 1191							
Dimensions (mm)	Width	1352 1527							
	Length	1276 1426							
Nominal Weight2.	kg	215	231	237	2	95			
Rated Sound Power	db(A)		61.7 66.6						

<sup>1.</sup> 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)

Date	Document #	Approved By	Revision
11/5/2023	TDT000502	СМ	В

# Global Side-By-Side Horizontal Packaged Unit

#### **Features**

- · Galvanised type steel cabinet painted inside & out
- Scroll type compressor
- · EC plug type indoor fan with high static capability
- External rotor motor type outdoor fan(s)
- TXV refrigerant control
- · Removable outdoor coil guards
- 1000hrs Epoxy coated outdoor coils
- Robust controls
- PE type closed cell insulation
- · Safety protection circuit
- · Phase fail relay
- Fire relay

## Factory options – Customised to order (CTO)

- Compressor soft start
- · High static outdoor fans
- Double layered insulation to indoor section (50mm)
- Capacity modulation control
- Outdoor coil(s) with anti-corrosion post treatment
- Indoor coil(s) with anti-corrosion post treatment
- Discharge & suction isolation valves
- Liquid isolation valves
- Compressor sound jackets
- · IP55 Rating
- · Modbus high level interface

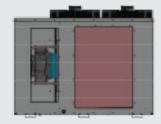
## Factory options – Engineered to order (ETO)

- 316L stainless steel cabinet, unpainted
- 316L stainless steel external fasteners
- Outdoor coil(s) copper / copper
- Indoor coil(s) copper / copper

## **Handing options**

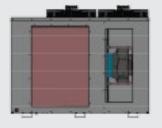
Left hand air supply (standard)





Right hand air supply (optional)





## Global Side-By-Side Horizontal Packaged Unit (Cool Only) 12-23kW

Model Number (Cooling Only)	Packaged Unit	P012AHC3SA-L-S2061001 P012AHC3SA-R-S2061001	P015AHC3SA-L-S2061001 P015AHC3SA-R-S2061001	P018AHC3SA-L-S2061001 P018AHC3SA-R-S2061001	P020AHC3SA-L-S2061001 P020AHC3SA-R-S2061001	P023AHC3SA-L-S2061001 P023AHC3SA-R-S2061001	
	Total Capacity (kW)3	12.57	15.54	17.43	20.53	22.89	
Rated Cooling	Sensible 3	9.70	12.09	13.58	15.99	18.20	
	EER (kW/ikW)3	3.59	3.70	3.49	3.60	3.32	
AHRI Compliant	AHRI 210/240			Yes	:		
	Maximum °C	+52					
Operating Range	Minimum °C	+10					
Capacity Steps	%			0/100			
	Туре			Scroll			
Compressor	Starter			D.O.L (Optional Soft Starter)			
	Qty			1			
	Туре			Axial			
	Speed Control			2 Speed Via Capacitor			
Outdoor Fan	Qty			2			
	Туре	R410A					
Refrigerant System	Charge Per Circuit kg	3.95	5.30	5.70	7.30	6.80	
	No of Circuits	1					
	Туре	EC Plug					
Indees For	Speed Control	Potentiometer					
Indoor Fan	Qty			1			
	Nominal	625	800	890	1040	1190	
Airflow Indoor (L/s)	Maximum	781	1000	1113	1300	1488	
	Minimum	469	600	668	780	893	
Available External Static Pressure	Pa	High Static Capability (See Fan Performance Curves)					
IP Rating		IP44 (Optional IP55)					
Power Supply	(Volt/Phase/Hz)	400-415V / 3Ph + N / 50Hz					
Rated Load Amps4	Total	6.8	8.1	9.8	10.4	11.4	
Full Load Amps5	Total	12.3	14.6	16.1	20.0	20.0	
Dimensions (mm)	Height	1091 1261					
	Width	1352 1527					
	Length	1276 1426					
Nominal Weight2.	kg	228.0	244.0	251.0	307.0	307.0	
Rated Sound Power	db(A)		61.7		6	6.6	

<sup>1.</sup> 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)

Date	Document #	Approved By	Revision
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## Global Side-By-Side Horizontal Packaged Unit (Reverse Cycle) 12-23kW

Model Number (Reverse Cycle)	Packaged Unit	P012AHR3SA-L-S2061001 P012AHR3SA-R-S2061001	P015AHR3SA-L-S2061001 P015AHR3SA-R-S2061001	P018AHR3SA-L-S2061001 P018AHR3SA-R-S2061001	P020AHR3SA-L-S2061001 P020AHR3SA-R-S2061001	P023AHR3SA-L-S2061001 P023AHR3SA-R-S2061001	
	Total Capacity (kW)3	12.57	15.54	17.43	20.53	22.89	
	Sensible 3	9.70	12.09	13.58	15.99	18.20	
Rated Cooling	EER (kW/ikW)3	3.59	3.70	3.49	3.60	3.32	
	Total Capacity (kW)	11.90	14.70	16.70	20.60	22.50	
Rated Heating1	COP	3.66	3.87	3.71	3.81	3.63	
AHRI Compliant	AHRI 210/240			Yes			
	Maximum °C			+52			
Operating Range	Minimum °C			-10			
Capacity Steps	%			0/100			
	Туре			Scroll			
Compressor	Starter			D.O.L (Optional Soft Starter)			
	Qty			1			
	Туре			Axial			
	Speed Control	2 Speed Via Capacitor					
Outdoor Fan	Qty	2					
	Туре	R410A					
Refrigerant System	Charge Per Circuit kg	3.95	5.30	5.70	7.30	6.80	
	No of Circuits	1					
	Туре		EC Plug				
to the confirm	Speed Control			Potentiometer			
Indoor Fan	Qty			1			
	Nominal	625	800	890	1040	1190	
Airflow Indoor (L/s)	Maximum	781	1000	1113	1300	1488	
	Minimum	469	600	668	780	893	
Available External Static Pressure	Pa	High Static Capability (See Fan Performance Curves)					
IP Rating		IP44					
Power Supply	(Volt/Phase/Hz)	400-415V / 3Ph + N / 50Hz					
Rated Load Amps4	Total	6.8	8.1	9.8	10.4	11.4	
Full Load Amps5	Total	12.3	14.6	16.1	20.0	20.0	
	Height	1091 1261					
Dimensions (mm)	Width	1352 1527					
	Length		1276		14	126	
Nominal Weight2.	kg	228.0	244.0	251.0	307.0	308.0	
Rated Sound Power	db(A)		61.7		60	6.6	

<sup>1.</sup> 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)

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## Global Side-By-Side Horizontal Packaged Unit (Cool Only) 27-46kW

Model Number (Cooling Only)	Packaged Unit	P027AHC3SA-L/R-S2061001	P032AHC3SA-L/R-S2061001	P036AHC3SA-L/R-S2061001	P042AHC3SA-L/R-S2061001	P046AHC3SA-L/R-S2061001
, ,	Total Capacity (kW)3	28.65	33.25	38.27	41.70	46.93
Rated Cooling	Sensible3	21.60	25.88	29.35	32.16	36.01
	EER (kW/ikW)3	3.34	3.22	3.50	3.30	3.07
AHRI Compliant	AHRI 340/360			Yes		
Operating Range	Maximum °C	+52				
Operating Range	Minimum °C			+10		
Capacity Steps	%			0/100		
	Туре			Scroll		
Compressor	Starter			D.O.L (Optional Soft Starter)		
	Qty			1		
	Туре			AC Axial		
Outdoor Fan	Speed Control			2 Speed via Capacitor		
	Qty			2		
	Туре	R410A				
Refrigerant System	Charge Per Circuit kg	5.75	6.75	9.5	11	10.8
	No of Circuits	1				
	Туре	EC Plug				
Indoor Fan	Speed Control	Potentiometer				
	Qty	1				
	Nominal	1450	1775	1875	2200	2470
Airflow Indoor (L/s)	Maximum	1813	2219	2344	2750	3088
	Minimum	1088	1331	1406	1650	1853
Available External Static Pressure	Pa		High Sta	atic Capability (See Performance	Curves)	
IP Rating		IP44 (Optional IP55)				
Power Supply	(Volt/Phase/Hz)	400-415V / 3Ph + N / 50Hz				
Rated Load Amps4.	Total	18.4	21.5	21.3	24.1	30.7
Full Load Amps5.	Total	28.6	27.3	30.7	39.8	42.8
	Height	1440 1643 1846				
Total Dimensions (mm)	Width	1797				
	Length	1682				
Nominal Weight2.	Total kg	392	423	488	534	534
Rated Sound Power	db(A)	67.1	67.5	66.9	67.2	67.2

<sup>1.</sup> 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)

Date	Document #	Approved By	Revision
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# Global Side-By-Side Horizontal Packaged Unit (Reverse Cycle) 27-48kW

Model Number (Reverse Cycle)	Packaged Unit	P027AHR3SA-L/R-S2061001	P032AHR3SA-L/R-S2061001	P038AHR3SA-L/R-S2061001	P043AHR3SA-L/R-S2061001	P048AHR3SA-L/R-S2061001		
	Total Capacity (kW)3	28.65	33.25	39.42	45.97	47.18		
Rated Cooling	Sensible3	21.60	25.88	29.76	33.69	35.97		
	EER (kW/ikW)3	3.34	3.22	3.23	3.23	3.04		
Data di Halatin ad	Total Capacity (kW)	26.41	30.64	36.66	45.87	44.75		
Rated Heating1	COP	3.41	3.50	3.60	3.63	3.34		
AHRI Compliant	AHRI 340/360		Yes					
O	Maximum °C			+52				
Operating Range	Minimum °C			-10				
Capacity Steps	%	0/1	00		0/50/100			
	Туре	Single	Scroll		Tandem Scroll			
Compressor	Starter		D.O.L (Optional Soft Starter)					
	Qty			1				
	Туре			AC Axial				
Outdoor Fan	Speed Control			2 Speed via Capacitor				
	Qty			2				
	Туре	R410A						
Refrigerant System	Charge Per Circuit kg	5.75	6.75	9.5	11	10.8		
	No of Circuits	1						
	Туре	EC Plug						
Indoor Fan	Speed Control			Potentiometer				
	Qty			1				
	Nominal	1450	1775	1875	2200	2470		
Airflow Indoor (L/s)	Maximum	1813	2219	2344	2750	3088		
	Minimum	1088	1331	1406	1650	1853		
Available External Static Pressure	Pa		High Sta	atic Capability (See Performance	Curves)			
IP Rating				IP44				
Power Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz				
Rated Load Amps4.	Total	18.4	21.5	23.6	26.8	30.7		
Full Load Amps5.	Total	28.6	27.3	35.7	38.8	41.2		
	Height	1440	16	643	18	346		
Total Dimensions (mm)	Width			1797				
, ,	Length			1682				
Nominal Weight2.	Total kg	392	423	510	537	539		
Rated Sound Power	db(A)	67.1	67.5	66.9	67.2	67.2		

<sup>1.</sup> 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)

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NOTE: Due to continuous improvement Rinnai reserve the right to change details without notice.

# Global Horizontal Packaged Unit (Cool Only) 54-92kW

Model Number (Cooling Only)	Packaged Unit	P054AHC3SA-L/R-S	P064AHC3SA-L/R-S	P072AHC3SA-L/R-S	P084AHC3SA-L/R-S	P092AHC3SA-L/R-S	
· · · · · · · · · · · · · · · · · · ·	Total Capacity (kW)3	58.48	64.33	75.22	85.69	96.39	
Rated Cooling	Sensible3	43.00	50.34	57.19	64.99	72.67	
	EER (kW/ikW)3	3.20	3.13	3.42	3.38	3.14	
AHRI Compliant	AHRI 340/360			Yes			
Ozzastia z Danas	Maximum °C			+52			
Operating Range	Minimum °C			+10			
Capacity Steps	%		0/50/100				
	Туре			Scroll			
Compressor	Starter			D.O.L (Optional Soft Starter)			
	Qty			2			
	Туре			AC Axial			
Outdoor Fan	Speed Control			2 Speed via Capacitor			
	Qty			4			
	Туре	R410A					
Refrigerant System	Charge Per Circuit kg	5.75	6.75	9.5	11	10.8	
	No of Circuits	2					
	Туре	EC Plug					
Indoor Fan	Speed Control			Potentiometer			
	Qty	1		:	2		
	Nominal	2880	3550	3750	4400	4930	
Airflow Indoor (L/s)	Maximum	3600	4438	4688	5500	6163	
	Minimum	2160	2663	2813	3300	3698	
Available External Static Pressure	Pa		High Sta	tic Capability (See Performance	Curves)		
IP Rating				IP44 (Optional IP55)			
Power Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz			
Rated Load Amps4.	Total	36.5	41.8	42.8	47.1	59.8	
Full Load Amps5.	Total	54.3	55.3	61.3	79.5	85.5	
	Height	1400	16	603	18	306	
Total Dimensions (mm)	Width			2300			
	Length			2300			
Nominal Weight2.	Total kg	713	815	859	994	994	
Rated Sound Power	db(A)	66.8	70.3	69.5	70.0	70.0	

<sup>1.</sup> 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)

Date	Document #	Approved By	Revision
16/8/2023	TDT001696	CM	A

NOTE: Due to continuous improvement Rinnai reserve the right to change details without notice.

# Global Horizontal Packaged Unit (Reverse Cycle) 55-95kW

Model Number (Reverse Cycle)	Packaged Unit	P055AHR3SA-L/R-S2061001	P065AHR3SA-L/R-S2061001	P075AHR3SA-L/R-S2061001	P085AHR3SA-L/R-S2061001	P095AHR3SA-L/R-S2061001			
	Total Capacity (kW)3	58.48	64.33	75.22	85.69	96.39			
Rated Cooling	Sensible3	43.00	50.34	57.19	64.99	72.67			
	EER (kW/ikW)3	3.20	3.13	3.42	3.38	3.14			
Rated Heating1	Total Capacity (kW)	53.44	61.83	71.08	79.39	90.33			
reading i	COP	3.19	3.34	3.63	3.58	3.42			
AHRI Compliant	AHRI 340/360			Yes					
Operating Range	Maximum °C			+52					
Operating Nange	Minimum °C			-10					
Capacity Steps	%			0/50/100					
	Туре			Scroll					
Compressor	Starter			D.O.L (Optional Soft Starter)					
	Qty			2					
	Туре			AC Axial					
Outdoor Fan	Speed Control			2 Speed via Capacitor					
	Qty	4							
	Туре	R410A							
Refrigerant System	Charge Per Circuit kg	5.75	6.75	9.5	11	10.8			
	No of Circuits	2							
	Туре	EC Plug							
Indoor Fan	Speed Control			Potentiometer					
	Qty	1 2							
	Nominal	2880	3550	3750	4400	4930			
Airflow Indoor (L/s)	Maximum	3600	4438	4688	5500	6163			
	Minimum	2160	2663	2813	3300	3698			
Available External Static Pressure	Pa		High Sta	atic Capability (See Performance	Curves)				
IP Rating				IP44					
Power Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz					
Rated Load Amps4.	Total	36.5	41.8	42.8	47.1	59.8			
Full Load Amps5.	Total	54.3	55.3	61.3	79.5	85.5			
	Height	1400	16	603	18	306			
Total Dimensions (mm)	Width			2300					
, ,	Length			2300					
Nominal Weight2.	Total kg	713	815	859	994	994			
Rated Sound Power	db(A)	66.8	70.3	69.5	70.0	70.0			

<sup>1.</sup> 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)

Date	Document #	Approved By	Revision
11/5/2023	TDT001271	СМ	В

NOTE: Due to continuous improvement Rinnai reserve the right to change details without notice.

# Global Split Ducted Unit (Low Profile)

## **Features**

- · Galvanised type steel cabinet painted inside & out
- Scroll type compressor
- EC blower type indoor fan with speed control (012-023kW)
- EC plug type indoor fan with high static capability (027-046kW)
- External rotor motor type outdoor fan(s)
- · TXV refrigerant control
- · Removable outdoor coil guards
- 1000hrs Epoxy coated outdoor coils
- Robust controls
- PE type closed cell insulation
- · Safety protection circuit
- · Phase fail relay
- Fire relay

## Factory options - Customised to order (CTO)

### **Outdoor**

- Compressor soft start
- High static outdoor fans
- Capacity modulation control
- · Outdoor coil(s) with anti-corrosion post treatment
- Discharge & suction isolation valves
- · Liquid isolation valves
- Compressor sound jackets
- IP55 Rating
- Modbus high level interface

### Indoor

- Double layered insulation to indoor section (50mm)
- Indoor coil(s) with anti-corrosion post treatment

## Factory options - Engineered to order (ETO)

### Outdoor

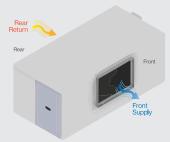
- · 316L stainless steel cabinet, unpainted
- 316L stainless steel external fasteners
- Outdoor coil(s) copper / copper
- Indoor coil(s) copper / copper
- R22/R407C application

### Outdoor

- 316L stainless steel cabinet, unpainted
- 316L stainless steel external fasteners
- Indoor coil(s) copper / copper
- R22/R407C application
- Supplied SKD (Semi-knockdown)

## Handing options (indoor)

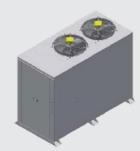
## Front supply / Rear return



## Top supply / Rear return



## **Handing (outdoor)**





# Global Low Profile Split Ducted Unit (Cool Only) 12-23kW

Model Number	Indoor Unit	S012ILC1SA-F-S2061001	S015ILC1SA-F-S2061001	S018ILC1SA-F-S2061001	S020ILC1SA-F-S2061001	S023ILC1SA-F-S2061001		
(Cooling Only)	Outdoor Unit	S012OVC3SA-L-S2061001	S015OVC3SA-L-S2061001	S018OVC3SA-L-S2061001	S020OVC3SA-L-S2061001	S023OVC3SA-L-S2061001		
	Total Capacity (kW)3	12.57	15.54	17.43	20.53	22.89		
Rated Cooling	Sensible3	9.70	12.13	13.45	15.88	18.17		
	EER (kW/ikW)3	3.50	3.70	3.49	3.60	3.32		
AHRI Compliant	AHRI 210/240			Yes		!		
On and time Dance	Maximum °C			+52				
Operating Range	Minimum °C			+10				
Capacity Steps	%			0/100				
	Туре			Scroll				
Compressor	Starter			D.O.L (Optional Soft Starter)				
	Qty			1				
	Туре			Axial				
Outdoor Fan	Speed Control			2 Speed Via Capacitor				
	Qty			2				
	Туре			R410A				
Refrigerant System	Charge Per Circuit kg	3.95	5.30	5.70	7.30	6.80		
	No of Circuits	1						
	Туре	Twin Deck Blower						
Indoor Fan	Speed Control	Variable Speed						
	Qty	1						
	Nominal	625	835	875	990	1120		
Airflow Indoor (L/s)	Maximum	781	1044	1094	1238	1400		
	Minimum	469	626	656	743	840		
Available External Static Pressure	Pa			+200 Pa				
IP Rating	Outdoor/Indoor			IP44 (Optional IP55) / 20				
Power Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz				
Rated Load Amps4	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		
Full Load Amps5	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		
	Height		1091		11	91		
Outdoor Dimensions (mm)	Width		1352		15	527		
,	Length		680		7	80		
	Height		444		4	55		
Indoor Dimensions (mm)	Width		1227		15	502		
	Length		691		7	41		
Indoor and Outdoor Pipe	Liquid mm (inch)		9.5 (3/8") x 1		9.5 (3/	8") x 1		
Connection Diameter	Gas mm (inch)		19.1 (3/4") x 1		22.2 (7	/8") x 1		
Nominal Weight 2.	Outdoor kg	147	159	166	191	191		
Nominal Weight 2.	Indoor kg	44	48	48	65	65		
Rated Sound Power	db(A)		61.7		66	3.6		

<sup>1.</sup> 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)

# Global Low Profile Split Ducted Unit (Reverse Cycle) 12-23kW

Model Number (Reverse	Indoor Unit	S012ILR1SA-F-S2061001	S015ILR1SA-F-S2061001	S018ILR1SA-F-S2061001	S020ILR1SA-F-S2061001	S023ILR1SA-F-S2061001			
Cycle)	Outdoor Unit	S012OVR3SA-L-S2061001	S015OVR3SA-L-S2061001	S018OVR3SA-L-S2061001	S0200VR3SA-L-S2061001	S023OVR3SA-L-S2061001			
	Total Capacity (kW)3	12.57	15.54	17.43	20.53	22.89			
Rated Cooling	Sensible3	9.70	12.13	13.45	15.88	18.17			
	EER (kW/ikW)3	3.50	3.70	3.49	3.60	3.32			
	Total Capacity (kW)	11.90	14.70	16.70	20.60	22.50			
Rated Heating1	COP	3.66	3.87	3.71	3.81	3.63			
AHRI Compliant	AHRI 210/240			Yes					
	Maximum °C		+52						
Operating Range	Minimum °C		-10						
Capacity Steps	%			0/100					
	Туре			Scroll					
Compressor	Starter			D.O.L (Optional Soft Starter)					
	Qty	1							
	Туре			Axial					
Outdoor Fan	Speed Control	2 Speed Via Capacitor							
	Qty	2							
	Туре			R410A					
Refrigerant System	Charge Per Circuit kg	3.95	5.30	5.70	7.30	6.80			
	No of Circuits	1							
	Туре	Twin Deck Blower							
Indoor Fan	Speed Control	Variable Speed							
	Qty	1							
	Nominal	625	835	875	990	1120			
Airflow Indoor (L/s)	Maximum	781	1044	1094	1238	1400			
	Minimum	469	626	656	743	840			
Available External Static Pressure	Pa			+200 Pa					
IP Rating	Outdoor/Indoor			IP44 / 20					
Power Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz					
Rated Load Amps4	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			
Full Load Amps5	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			
	Height		1091		11	91			
Outdoor Dimensions (mm)	Width		1352		15	527			
,	Length		680		7	80			
	Height		444		4	55			
Indoor Dimensions (mm)	Width		1227		15	502			
	Length		691		7.	41			
Indoor and Outdoor Pipe	Liquid mm (inch)		9.5 (3/8") x 1		9.5 (3/	8") x 1			
Connection Diameter	Gas mm (inch)		19.1 (3/4") x 1		22.2 (7	/8") x 1			
Nominal Weight 2.	Outdoor kg	147	159	166	191	191			
Nominal Weight 2.	Indoor kg	44	48	48	65	65			
Rated Sound Power	dh(A)		61 7		66	3.6			

# Global Low Profile Split Ducted Unit (Cool Only) 27-46kW

Model Number	Indoor Unit	S027ILC3SA-F-S2061001	S032ILC3SA-F-S2061001	S036ILC3SA-F-S2061001	S042ILC3SA-F-S2061001	S046ILC3SA-F-S2061001		
(Cooling Only)	Outdoor Unit	S027OVC3SA-L-S2061001	S032OVC3SA-L-S2061001	S036OVC3SA-L-S2061001	S042OVC3SA-L-S2061001	S046OVC3SA-L-S2061001		
	Total Capacity (kW)3	28.65	33.25	38.27	41.70	46.93		
Rated Cooling	Sensible3	21.60	25.88	29.35	32.16	36.01		
	EER (kW/ikW)3	3.34	3.22	3.50	3.30	3.07		
AHRI Compliant	AHRI 340/360			Yes				
	Maximum °C			+52				
Operating Range	Minimum °C			+10				
Capacity Steps	%		0/100					
	Туре			Scroll				
Compressor	Starter			D.O.L (Optional Soft Starter)				
	Qty			1				
	Туре			Axial				
Outdoor Fan	Speed Control			2 Speed Via Capacitor				
	Qty			2				
	Туре			R410A				
Refrigerant System	Charge Per Circuit kg	5.75	6.75	9.50	11.00	10.80		
	No of Circuits	1						
	Туре	EC Plug						
Indoor Fan	Speed Control	Potentiometer						
	Qty	1						
	Nominal	1450	1775	1875	2200	2470		
Airflow Indoor (L/s)	Maximum	1813	2219	2344	2750	3088		
	Minimum	1088	1331	1406	1650	1853		
Available External Static Pressure	Pa		High Statio	: Capability (See Fan Performan	ce Curves)			
P Rating	Outdoor/Indoor			IP44 (Optional IP55) / 20				
Power Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz				
Rated Load Amps4	Outdoor/Indoor/ Total	17.4 / 1.0 / 18.4	20.2 / 1.4 / 21.5	19.9 / 1.5 / 21.3	22.2 / 1.9 / 24.1	28.3 / 2.4 / 30.7		
Full Load Amps5	Outdoor/Indoor/ Total	26.5 / 2.1 / 28.6	25.2 / 2.1 / 27.3	28.6 / 2.1 / 30.7	34.6 / 5.2 / 39.8	37.6 / 5.2 / 42.8		
	Height	1440	16	643	18	346		
Outdoor Dimensions (mm)	Width			1897				
	Length			900				
	Height			711				
Indoor Dimensions (mm)	Width	1413	15	594	22	292		
	Length			902				
ndoor and Outdoor Pipe	Liquid mm (inch)		12.7 (1/2") x 1		15.9 (5	/8") x 1		
Connection Diameter	Gas mm (inch)		28.6 (1-1/8") x 1		28.6 (1-	1/8") x 1		
			050	282	314	316		
Nominal Weight 2.	Outdoor kg	238	256	202	314	310		
Nominal Weight 2.	Outdoor kg Indoor kg	238 117	133	133	160	160		

<sup>1.</sup> 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)

# Global Low Profile Split Ducted Unit (Reverse Cycle) 27-48kW

Model Number (Reverse	Indoor Unit	S027ILR3SA-F-S2061001	S032ILR3SA-F-S2061001	S038ILR3SA-F-S2061001	S043ILR3SA-F-S2061001	S048ILR3SA-F-S2061001		
Cycle)	Outdoor Unit	S027OVR3SA-L-S2061001	S032OVR3SA-L-S2061001	S038OVR3SA-L-S2061001	S043OVR3SA-L-S2061001	S048OVR3SA-L-S2061001		
	Total Capacity (kW)3	28.65	33.25	39.42	45.97	47.18		
Rated Cooling	Sensible3	21.60	25.88	29.76	33.69	35.97		
	EER (kW/ikW)3	3.34	3.22	3.23	3.23	3.04		
	Total Capacity (kW)	26.41	30.64	36.66	45.87	44.75		
Rated Heating1	СОР	3.41	3.50	3.60	3.63	3.34		
AHRI Compliant	AHRI 340/360			Yes				
	Maximum °C	+52						
Operating Range	Minimum °C		-10					
Capacity Steps	%	0/1	100		0/50/100			
	Туре	Single	Scroll		Tandem Scroll			
Compressor	Starter			D.O.L (Optional Soft Starter)				
	Qty	1						
	Туре			Axial				
Outdoor Fan	Speed Control			2 Speed Via Capacitor				
	Qty	2						
	Туре	R410A						
Refrigerant System	Charge Per Circuit kg	5.75	6.75	9.50	11.00	10.80		
	No of Circuits			1				
	Туре	EC Plug						
Indoor Fan	Speed Control	Potentiometer						
	Qty	1						
	Nominal	1450	1775	1875	2200	2470		
Airflow Indoor (L/s)	Maximum	1813	2219	2344	2750	3088		
	Minimum	1088	1331	1406	1650	1853		
Available External Static Pressure	Pa			+200 Pa				
IP Rating	Outdoor/Indoor			IP44 / 20				
Power Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz				
Rated Load Amps4	Outdoor/Indoor/ Total	17.4 / 1.0 / 18.4	20.2 / 1.4 / 21.5	22.1 / 1.5 / 23.6	24.9 / 1.9 / 26.8	28.3 / 2.4 / 30.7		
Full Load Amps5	Outdoor/Indoor/ Total	26.5 / 2.1 / 28.6	25.2 / 2.1 / 27.3	33.6 / 2.1 / 35.7	33.6 / 5.2 / 38.8	36.0 / 5.2 / 41.2		
	Height	1440	16	643	18	346		
Outdoor Dimensions (mm)	Width			1897				
	Length			900				
	Height			711				
Indoor Dimensions (mm)	Width	1413	15	594	22	292		
	Length			902				
Indoor and Outdoor Pipe	Liquid mm (inch)		12.7 (1/2") x 1		15.9 (5	/8") x 1		
Connection Diameter	Gas mm (inch)		28.6 (1-1/8") x 1		28.6 (1-	1/8") x 1		
Nominal Weight 2.	Outdoor kg	238	256	307	314	316		
Nominal Weight 2.	Indoor kg	118	125	132	160	160		

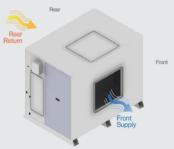
# Global Split Ducted Unit (Horizontal)

## **Features**

- · Galvanised type steel cabinet painted inside & out
- Scroll type compressor
- · EC plug type indoor fan with high static capability
- External rotor motor type outdoor fan(s)
- · TXV refrigerant control
- · Removable outdoor coil guards
- 1000hrs Epoxy coated outdoor coils
- Robust controls
- PE type closed cell insulation
- Safety protection circuit
- Phase fail relay
- Fire relay

## **Handing options (Indoor)**

Front supply / Rear return (Standard)



Top supply / Rear return (Field configurable)

## Factory options – Customised to order (CTO)

### Outdoor

- · Compressor soft start
- High static outdoor fans
- · Capacity modulation control
- · Outdoor coil(s) with anti-corrosion post treatment
- Discharge & suction isolation valves
- Liquid isolation valves
- · Compressor sound jackets
- IP55 Rating
- · Modbus high level interface

### Indoor

- Double layered insulation to indoor section (50mm)
- Indoor coil(s) with anti-corrosion post treatment

# Handing (Outdoor)



## Factory options – Engineered to order (ETO)

### Outdoor

- 316L stainless steel cabinet, unpainted
- 316L stainless steel external fasteners
- Outdoor coil(s) copper / copper
- Indoor coil(s) copper / copper
- R22/R407C application

### Indoor

- 316L stainless steel cabinet, unpainted
- 316L stainless steel external fasteners
- Indoor coil(s) copper / copper
- R22/R407C application
- · Supplied SKD (Semi-knockdown)

# Global Horizontal Split Ducted Unit (Cool Only) 54-92kW

Total Capacity (kW)3   58.48   64.33   75.22   85.69	96.39 72.67 3.14						
Rated Cooling   Sensible3	72.67						
EER (kW/ikW)3   3.20   3.13   3.42   3.38     AHRI Compliant							
AHRI Compliant         AHRI 340/360         Yes           Operating Range         Maximum °C         +52           Minimum °C         +10           Capacity Steps         %         0/50/100           Compressor         Type         Scroll           Starter         D.O.L (Optional Soft Starter)           Qty         2           Type         Axial           Outdoor Fan         Speed Control         2 Speed Via Capacitor           Qty         4	3.14						
Operating Range         Maximum °C         +52           Minimum °C         +10           Capacity Steps         %         0/50/100           Compressor         Type         Scroll           Starter         D.O.L (Optional Soft Starter)           Qty         2           Type         Axial           Outdoor Fan         Speed Control         2 Speed Via Capacitor           Qty         4							
Operating Range         Minimum °C         +10           Capacity Steps         %         0/50/100           Compressor         Type         Scroll           Starter         D.O.L (Optional Soft Starter)           Qty         2           Type         Axial           Outdoor Fan         Speed Control         2 Speed Via Capacitor           Qty         4							
Minimum °C         +10           Capacity Steps         0/50/100           Compressor         Type         Scroll           Starter         D.O.L (Optional Soft Starter)           Qty         2           Type         Axial           Speed Control         2 Speed Via Capacitor           Qty         4							
Compressor         Type         Scroll           Starter         D.O.L (Optional Soft Starter)           Qty         2           Type         Axial           Speed Control         2 Speed Via Capacitor           Qty         4							
Compressor         Starter         D.O.L (Optional Soft Starter)           Qty         2           Type         Axial           Outdoor Fan         Speed Control         2 Speed Via Capacitor           Qty         4							
Qty         2           Type         Axial           Speed Control         2 Speed Via Capacitor           Qty         4							
Type         Axial           Outdoor Fan         Speed Control         2 Speed Via Capacitor           Qty         4							
Outdoor Fan Speed Control 2 Speed Via Capacitor  Oty 4							
Qty 4							
•							
T							
Type R410A							
Refrigerant System         Charge Per Circuit kg         5.75         6.75         9.50         11.00	10.80						
No of Circuits 2	2						
Type EC Plug							
Indoor Fan Speed Control Potentiometer	Potentiometer						
Qty 1 2							
Nominal 2880 3550 3750 4400	4930						
Airflow Indoor (L/s)         Maximum         3600         4438         4688         5500	6163						
Minimum 2160 2663 2813 3300	3698						
Available External Static Pressure Pa High Static Capability (See Fan Performance Curves)							
IP Rating Outdoor/Indoor IP44 (Optional IP55) / 20							
Power Supply (Volt/Phase/Hz) 400-415V / 3Ph + N / 50Hz							
Rated Load Amps4 Outdoor/Indoor/ Total 34.1 / 2.4 / 36.5 39.9 / 1.9 / 41.8 41.0 / 1.86 / 42.8 44.7 / 2.5 / 47.1	56.8 / 3.1 / 59.8						
Full Load Amps5 Outdoor/Indoor/ Total 49.1 / 5.2 / 54.3 51.1 / 4.2 / 55.3 57.1 / 4.2 / 61.3 69.1 / 10.4 / 79.5	75.1 / 10.4 / 85.5						
Height 1400 1603 1806							
Outdoor Dimensions (mm) Width 2300							
Length 1425							
Height 1400 1605 1805							
Indoor Dimensions (mm) Width 1600 1850							
Length 1100							
Indoor and Outdoor Pipe Liquid mm (inch) 12.7 (1/2") x 1 15.9 (5/8") x	x 1						
Connection Diameter Gas mm (inch) 28.6 (1-1/8") x 1							
Nominal Weight 2. Outdoor kg 527 612 647 738	740						
Nominal Weight 2. Indoor kg 290 340 340 461	461						
Rated Sound Power db(A) 66.8 70.3 69.5 70.0	70.0						

<sup>1.</sup> 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)

# Global Horizontal Split Ducted Unit (Reverse Cycle) 55-95kW

Model Number (Reverse	Indoor Unit	S055IHR3SA-F-S2061001	S065IHR3SA-F-S2061001	S075IHR3SA-F-S2061001	S085IHR3SA-F-S2061001	S095IHR3SA-F-S2061001		
Cycle)	Outdoor Unit	S0550VR3SA-L-S2061001	S065OVR3SA-L-S2061001	S075OVR3SA-L-S2061001	S0850VR3SA-L-S2061001	S095OVR3SA-L-S2061001		
	Total Capacity (kW)3	58.48	64.33	75.22	85.69	96.39		
Rated Cooling	Sensible3	43.00	50.34	57.19	64.99	72.67		
	EER (kW/ikW)3	3.20	3.13	3.42	3.38	3.14		
	Total Capacity (kW)	53.44	61.83	71.08	79.39	90.33		
Rated Heating1	COP	3.19	3.34	3.63	3.58	3.42		
AHRI Compliant	AHRI 340/360			Yes				
Operating Range	Maximum °C			+52				
Operating Range	Minimum °C			-10				
Capacity Steps	%			0/50/100				
	Туре			Scroll				
Compressor	Starter			D.O.L (Optional Soft Starter)				
	Qty			2				
	Туре			Axial				
Outdoor Fan	Speed Control	2 Speed Via Capacitor						
	Qty	4						
	Туре			R410A				
Refrigerant System	Charge Per Circuit kg	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	2880	3550	3750	4400	4930		
Airflow Indoor (L/s)	Maximum	3600	4438	4688	5500	6163		
	Minimum	2160	2663	2813	3300	3698		
Available External Static Pressure	Pa			+200 Pa				
IP Rating	Outdoor/Indoor			IP44 / 20				
Power Supply	(Volt/Phase/Hz)			400-415V / 3Ph + N / 50Hz				
Rated Load Amps4	Outdoor/Indoor/ Total	34.1 / 2.4 / 36.5	39.9 / 1.9 / 41.8	41.0 / 1.86 / 42.8	44.7 / 2.5 / 47.1	56.8 / 3.1 / 59.8		
Full Load Amps5	Outdoor/Indoor/ Total	49.1 / 5.2 / 54.3	51.1 / 4.2 / 55.3	57.1 / 4.2 / 61.3	69.1 / 10.4 / 79.5	75.1 / 10.4 / 85.5		
	Height	1400	16	603	18	306		
Outdoor Dimensions (mm)	Width			2300				
,	Length			1425				
	Height	1400	16	605	18	305		
Indoor Dimensions (mm)	Width		1600		18	350		
	Length			1100				
Indoor and Outdoor Pipe	Liquid mm (inch)		12.7 (1/2") x 1		15.9 (5	/8") x 1		
Connection Diameter	Gas mm (inch)			28.6 (1-1/8") x 1				
Nominal Weight 2.	Outdoor kg	527	612	647	738	740		
Nominal Weight 2.	Indoor kg	290	340	340	461	461		
Rated Sound Power	db(A)	66.8	70.3	69.5	70.0	70.0		

<sup>1.</sup> 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)

Date	Document #	Approved By	Revision
11/5/2023	TDT001272	CM	В

# Customised Solutions Bespoke HVAC when you need it most

Depending on your needs we can customise or engineer-to-order several components and configurations to deliver the best results. Over the lifespan of a customised HVAC appliance, a system that strongly performs even in the harshest of environments offers long-term cost savings due to lower operation costs.

In most cases we can custom design to your brief, assemble and factory test prior to shipment.



- Corrosion Protection
- Diverse Electrical Options
- High Static Fan Options



- Corrosion Protection
- Special Electrical Specification
- Ingress Protection



## Marine & Off - Store

- Stainless Steel Cabinets
- Copper / Copper Coils
- · Special Electrical Specification

## **Examples of customisation include:**

## **Customised To Order (CTO)**

- Compressor soft start
- High static outdoor fans
- Double layered insulation to indoor section (50mm)
- · Capacity modulation control
- Outdoor coil(s) with anti-corrosion post treatment
- Indoor coil(s) with anti-corrosion post treatment
- Discharge & suction isolation valves
- Liquid isolation valves
- Compressor sound jackets
- IP55 Rating
- Modbus high level interface

### **Engineered To Order (ETO)**

- 316L stainless steel cabinet, unpainted
- 316L stainless steel external fasteners
- · Outdoor coil(s) copper / copper
- Indoor coil(s) copper / copper









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

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