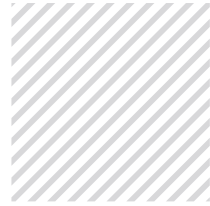


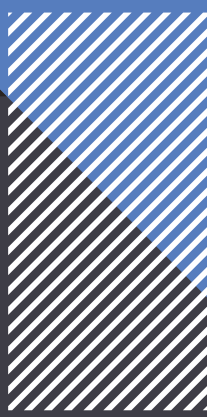


# FAN COIL UNITS

Low profile, double skin EC Colair  
Fan Coil Units



**EC  
FCU**



PRODUCT GUIDE



# Low profile double skin constructed fan coil unit with high static EC plug fans and AHRI certified coils for cooling and heating applications.

Colair double skin Fan Coil Units are designed in Malaysia and built for the Australian market by incorporating all Australian standards applicable. Colair Fan Coil Units provides a robust, low noise and customized solution that can achieve the design criteria corresponding to the desired designs. Colair Fan Coil Units are a low profile double skin constructed unit with high static EC plug fans and AHRI certified coils for cooling and heating applications.

Colair units are suitable for a wide range of commercial and industrial applications. The double skin compact robust design is efficient using electronically commutated fans, providing an ideal solution for balancing airflow and acoustically sensitive projects.

Hospital and health facilities, shopping centres, tenancy fit-outs, hotels and apartments, office buildings, schools and universities are all benefiting from working with Colair Fan Coil Units for air side solutions.



**COLAIR IS COMMITTED  
TO PROVIDING COMFORT  
AND ASSURANCE WITH A  
CERTIFIED AND QUALITY  
SOLUTION FOR YOUR NEXT  
PROJECT OR DESIGN.**



## DOUBLE SKIN PANEL



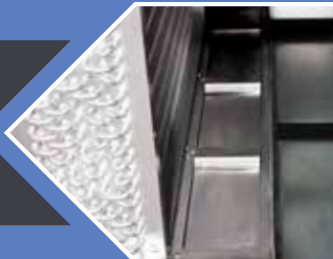
The standard offer will be 25mm thick polyurethane panel with 0.5mm internal galvanised and 0.5mm external prepainted galvanised sheet metal (PPGI).

## WATER COILS



AHRI certified water coils. Cooling coil 4 row standard with 6 row optional.  
Heating 1 row standard with 2 row optional.

## DRAIN PAN



SS304 inclined drain pan as standard.  
AS3666 compliant.

## HEATERS



Electrical heaters are optional, wiring to double safeties (Auto/Manual) junction box rated to IP56.  
Airflow switch and SCR/SSR by others.

## EC PLUG FANS



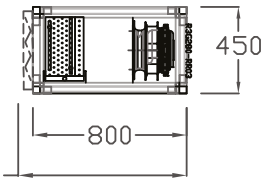
Single or multiple EC plug fans 240V/SOHZ/IPh.  
Optional wiring to an external junction box.

## ADDITIONAL FEATURES



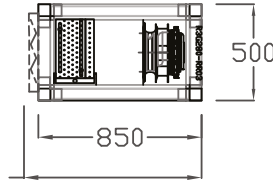
Access doors and service lights.

875  
WITH OPTIONAL  
50MM FILTER



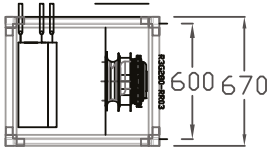
**25MM  
PU PANEL**

925  
WITH OPTIONAL  
50MM FILTER

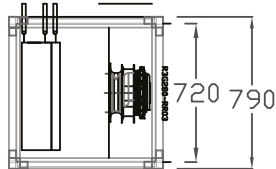


**50MM  
PU PANEL**

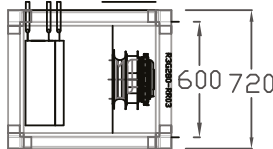
PFU-45-067  
MAX FLOW: 330L/S



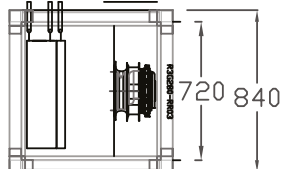
PFU-45-079  
MAX FLOW: 430L/S



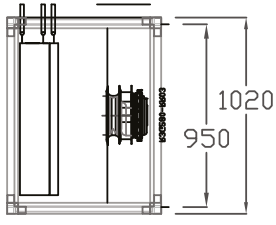
PBU-50-072  
MAX FLOW: 330L/S



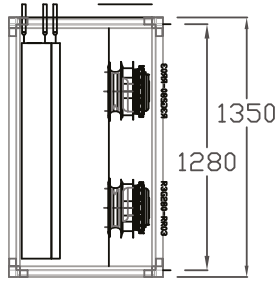
PBU-50-084  
MAX FLOW: 430L/S



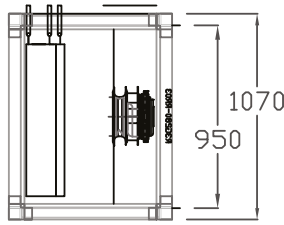
PFU-45-102 (ONE FAN)  
MAX FLOW: 600L/S



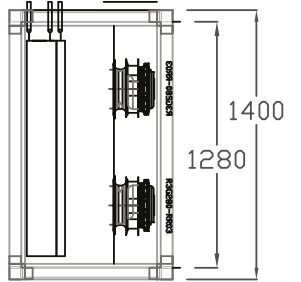
PFU-45-135  
MAX FLOW: 850L/S



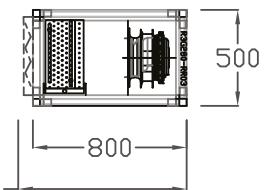
PBU-50-107 (ONE FAN)  
MAX FLOW: 600L/S



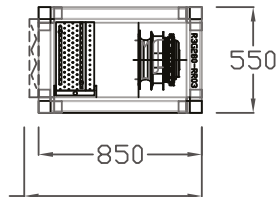
PBU-50-140  
MAX FLOW: 850L/S



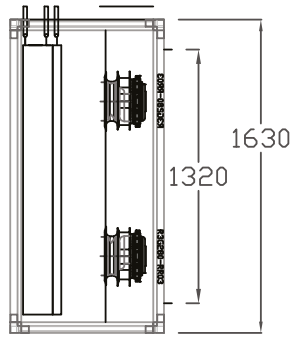
875  
WITH OPTIONAL  
50MM FILTER



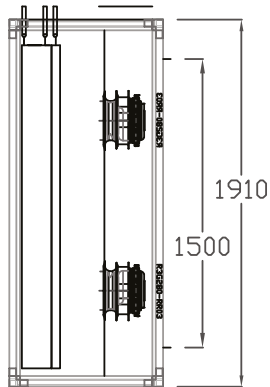
925  
WITH OPTIONAL  
50MM FILTER



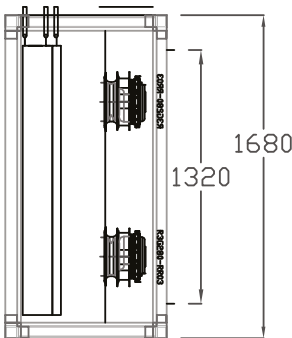
PFU-50-163  
MAX FLOW: 1250L/S



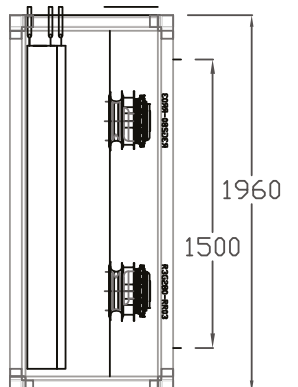
PFU-50-191  
MAX FLOW: 1250L/S



PBU-55-168  
MAX FLOW: 1250L/S



PBU-55-196  
MAX FLOW: 1250L/S



Coil handing can be left or right as required for the installation.

# 4 ROW TECHNICAL PERFORMANCE

<b>Air flow rate</b>	l/s	300	380	530	750	1100	1300
<b>Ext static pressure</b>	Pa	250	250	250	250	250	250

<b>COOLING</b>	<b>Coil rows</b>	#	4	4	4	4	4	4
	<b>Fin/in</b>	#	12	12	12	12	12	12
	<b>Face vel</b>	m/s	2.2	2.2	2.2	2.2	2.2	2.2
	<b>On coil temp (°c)</b>	DB	25.0	25.0	25.0	25.0	25.0	25.0
		WB	18.0	18.0	18.0	18.0	18.0	18.0
	<b>Off coil temp (°c)</b>	DB	12.8	13.1	13.0	13.1	12.7	12.4
		WB	12.0	12.3	12.2	12.3	11.9	11.6
	<b>Capacity (kw)</b>	TOTAL	6.0	7.2	10.3	14.3	22.3	27.5
		SENSIBLE	4.2	5.1	7.2	10.1	15.3	18.6
	<b>Water in</b>	°C	6.0	6.0	6.0	6.0	6.0	6.0
	<b>Water out</b>	°C	12.0	12.0	12.0	12.0	12.0	12.0
	<b>Water flow</b>	l/s	0.24	0.29	0.41	0.57	0.89	1.09
	<b>Water speed</b>	m/s	0.94	0.76	0.81	0.75	1	1.24
<b>Water pd</b>	kPa	30	29	12	11	25	30	
<b>Pipe conn</b>	BSP	1/2	1/2	1	1	1	1-1/4	

<b>HEATING</b>	<b>Coil row</b>	#	1	1	1	1	1	1
	<b>On coil temp (°c)</b>	DB	20.0	20.0	20.0	20.0	20.0	20.0
	<b>Off coil temp (°c)</b>	DB	33.2	33.6	34.1	34.1	34.4	33.7
	<b>Capacity (kw)</b>	TOTAL	4.8	6.3	9.2	12.9	19.5	21.9
	<b>Water in</b>	°C	80	80	80	80	80	80
	<b>Water out</b>	°C	60	60	60	60	60	60
	<b>Water flow</b>	l/s	0.06	0.08	0.11	0.16	0.24	0.27
	<b>Water pd</b>	kPa	2	4	11	11	30	19
	<b>Pipe conn</b>	BSP	1/2	1/2	1/2	1/2	1/2	1/2

<b>FAN</b>	<b>Fan speed contrl</b>	#	EC	EC	EC	EC	EC	EC
	<b>Drive type</b>	#	DD PLUG	DD PLUG	DD PLUG	DD PLUG	DD PLUG	DD PLUG
	<b>Fan+mtr qty</b>	#	1	1	1	2	2	2
	<b>Fan model</b>	#	280	280	280	2x280	2x280	2x280
	<b>Motor power</b>	W	500	500	500	2x500	2x500	2x500
	<b>Power rating</b>	V/Ph/Hz	220-1-50	220-1-50	220-1-50	220-1-50	220-1-50	220-1-50

<b>DIMENSIONAL</b>	<b>Model</b>	25mm PU PANEL CASING	PFU-45-067	PFU-45-079	PFU-45-102	PFU-45-135	PFU-50-163	PFU-50-191
	<b>Weight (kg)</b>		75	83	98	129	156	173
	<b>Dimension(mm) h-w-l</b>		450-670-800	450-790-800	450-1020-800	450-1350-800	500-1630-800	500-1910-800
	<b>Model</b>	50mm PU PANEL CASING	PBU-50-073	PBU-50-084	PBU-50-107	PBU-50-140	PBU-55-168	PBU-55-196
	<b>Weight (kg)</b>		88	97	114	148	178	198
	<b>Dimension(mm) h-w-l</b>		500-730-800	500-840-800	500-1070-800	500-1400-800	550-1680-800	550-1960-800

# 6 ROW TECHNICAL PERFORMANCE

<b>Air flow rate</b>	l/s	300	380	530	750	1100	1300
<b>Ext static pressure</b>	Pa	250	250	250	250	250	250

<b>COOLING</b>	<b>Coil rows</b>	#	6	6	6	6	6	
	<b>Fin/in</b>	#	12	12	12	12	12	
	<b>Face vel</b>	m/s	2.2	2.2	2.2	2.2	2.2	
	<b>On coil temp (°c)</b>	DB	25.0	25.0	25.0	25.0	25.0	25.0
		WB	18.0	18.0	18.0	18.0	18.0	18.0
	<b>Off coil temp (°c)</b>	DB	10.9	10.4	10.5	10.4	10.8	10.4
		WB	10.6	10.2	10.2	10.1	10.5	10.1
	<b>Capacity (kw)</b>	TOTAL	7.2	9.6	13.3	19.0	26.9	33.1
		SENSIBLE	4.8	6.4	8.8	12.6	17.9	21.8
	<b>Water in</b>	°C	6.0	6.0	6.0	6.0	6.0	6.0
	<b>Water out</b>	°C	12.0	12.0	12.0	12.0	12.0	12.0
	<b>Water flow</b>	l/s	0.29	0.38	0.53	0.76	1.07	1.31
	<b>Water speed</b>	m/s	0.76	1.01	0.93	1	0.8	1
<b>Water pd</b>	kPa	30	29	29	25	16	26	
<b>Pipe conn</b>	BSP	1/2	1	1	1	1-1/4	1-1/4	

<b>HEATING</b>	<b>Coil row</b>	#	1	1	1	1	1	
	<b>On coil temp (°c)</b>	DB	20.0	20.0	20.0	20.0	20.0	
	<b>Off coil temp (°c)</b>	DB	33.2	33.6	34.1	34.1	34.4	33.7
	<b>Capacity (kw)</b>	TOTAL	4.8	6.3	9.2	12.9	19.5	21.9
	<b>Water in</b>	°C	80	80	80	80	80	80
	<b>Water out</b>	°C	60	60	60	60	60	60
	<b>Water flow</b>	l/s	0.06	0.08	0.11	0.16	0.24	0.27
	<b>Water pd</b>	kPa	2	4	11	11	30	19
	<b>Pipe conn</b>	BSP	1/2	1/2	1/2	1/2	1/2	1/2

<b>FAN</b>	<b>Fan speed contrl</b>	#	EC	EC	EC	EC	EC	
	<b>Drive type</b>	#	DD PLUG	DD PLUG	DD PLUG	DD PLUG	DD PLUG	
	<b>Fan+mtr qty</b>	#	1	1	1	2	2	2
	<b>Fan model</b>	#	280	280	280	2x280	2x280	2x280
	<b>Motor power</b>	W	500	500	500	2x500	2x500	2x500
	<b>Power rating</b>	V/Ph/Hz	220-1-50	220-1-50	220-1-50	220-1-50	220-1-50	220-1-50

<b>DIMENSIONAL</b>	<b>Model</b>	25mm	PFU-45-067	PFU-45-079	PFU-45-102	PFU-45-135	PFU-50-163	PFU-50-191
	<b>Weight (kg)</b>	PU PANEL	75	83	98	129	156	173
	<b>Dimension(mm) h-w-l</b>	CASING	450-670-800	450-790-800	450-1020-800	450-1350-800	500-1630-800	500-1910-800
	<b>Model</b>	50mm	PBU-50-073	PBU-50-084	PBU-50-107	PBU-50-140	PBU-55-168	PBU-55-196
	<b>Weight (kg)</b>	PU PANEL	88	97	114	148	178	198
	<b>Dimension(mm) h-w-l</b>	CASING	500-730-800	500-840-800	500-1070-800	500-1400-800	550-1680-800	550-1960-800

**RECENT  
PROJECTS**



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**Holiday Inn**



**Kangan Tafe**



**Queen and Collins**



**Melbourne Uni  
Student Precinct**

**FOR**



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