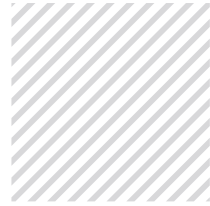


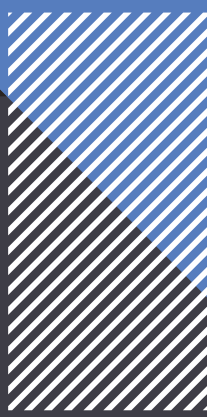


FAN COIL UNITS

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



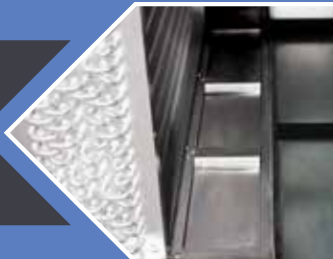
The standard offer will be 25mm thick polyurethane panel with 0.5mm internal galvanised and 0.5mm external prepainted galvanised sheet metal (PPGI).

WATER COILS



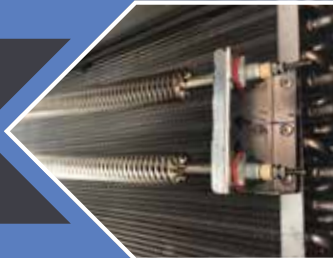
AHRI certified water coils. Cooling coil 4 row standard with 6 row optional.
Heating 1 row standard with 2 row optional.

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



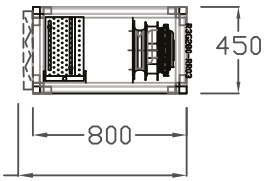
Single or multiple EC plug fans 240V/SOHz/IPh.
Optional wiring to an external junction box.

ADDITIONAL FEATURES



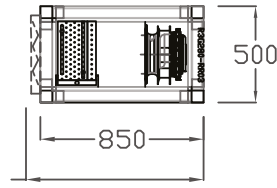
Access doors and service lights.

875
WITH OPTIONAL
50MM FILTER



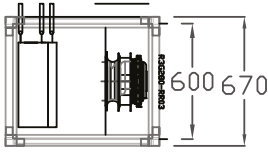
**25MM
PU PANEL**

925
WITH OPTIONAL
50MM FILTER

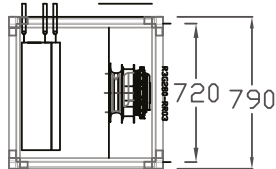


**50MM
PU PANEL**

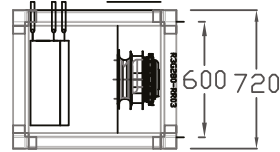
PFU-45-067
MAX FLOW: 330L/S



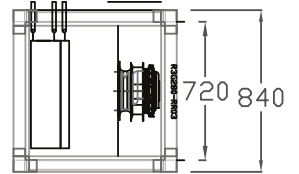
PFU-45-079
MAX FLOW: 430L/S



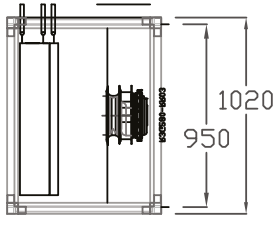
PBU-50-072
MAX FLOW: 330L/S



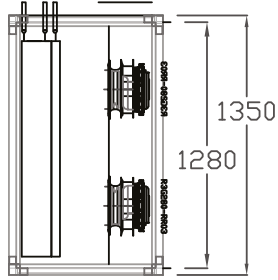
PBU-50-084
MAX FLOW: 430L/S



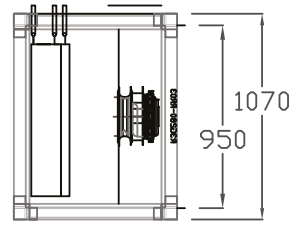
PFU-45-102 (ONE FAN)
MAX FLOW: 600L/S



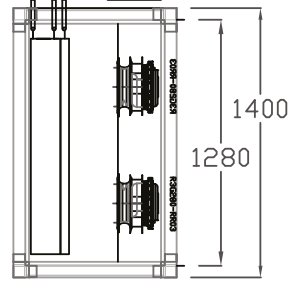
PFU-45-135
MAX FLOW: 850L/S



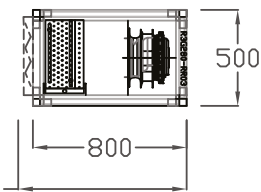
PBU-50-107 (ONE FAN)
MAX FLOW: 600L/S



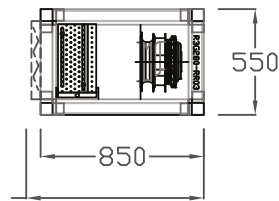
PBU-50-140
MAX FLOW: 850L/S



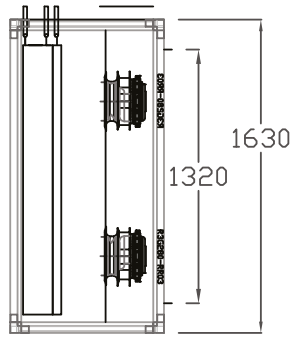
875
WITH OPTIONAL
50MM FILTER



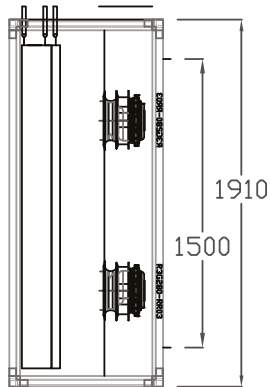
925
WITH OPTIONAL
50MM FILTER



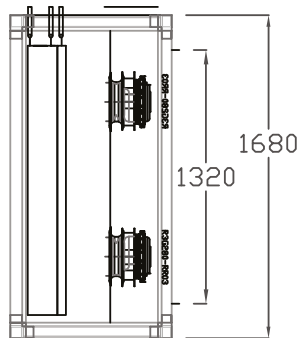
PFU-50-163
MAX FLOW: 1250L/S



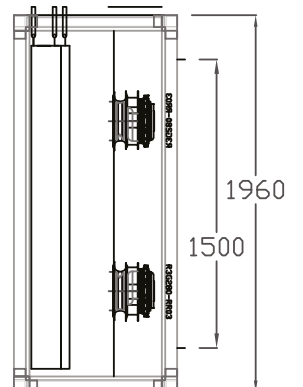
PFU-50-191
MAX FLOW: 1250L/S



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

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

COOLING	Coil rows	#	4	4	4	4	4	4
	Fin/in	#	12	12	12	12	12	12
	Face vel	m/s	2.2	2.2	2.2	2.2	2.2	2.2
	On coil temp (°c)	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
	Off coil temp (°c)	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
	Capacity (kw)	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
	Water in	°C	6.0	6.0	6.0	6.0	6.0	6.0
	Water out	°C	12.0	12.0	12.0	12.0	12.0	12.0
	Water flow	l/s	0.24	0.29	0.41	0.57	0.89	1.09
	Water speed	m/s	0.94	0.76	0.81	0.75	1	1.24
Water pd	kPa	30	29	12	11	25	30	
Pipe conn	BSP	1/2	1/2	1	1	1	1-1/4	

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

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

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

6 ROW TECHNICAL PERFORMANCE

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

COOLING	Coil rows	#	6	6	6	6	6	
	Fin/in	#	12	12	12	12	12	
	Face vel	m/s	2.2	2.2	2.2	2.2	2.2	
	On coil temp (°c)	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
	Off coil temp (°c)	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
	Capacity (kw)	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
	Water in	°C	6.0	6.0	6.0	6.0	6.0	6.0
	Water out	°C	12.0	12.0	12.0	12.0	12.0	12.0
	Water flow	l/s	0.29	0.38	0.53	0.76	1.07	1.31
	Water speed	m/s	0.76	1.01	0.93	1	0.8	1
Water pd	kPa	30	29	29	25	16	26	
Pipe conn	BSP	1/2	1	1	1	1-1/4	1-1/4	

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

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

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