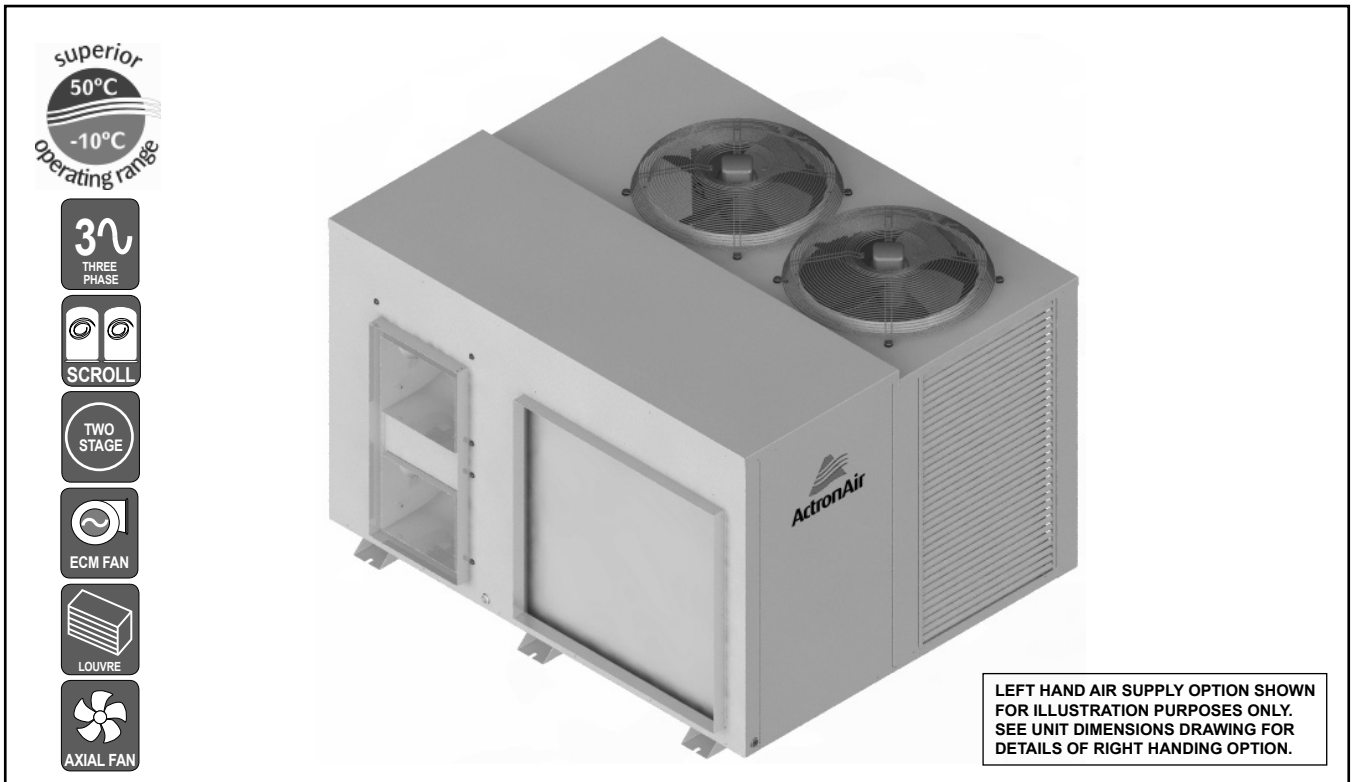


# PACKAGE UNIT



## UNIT FEATURES

- Compliant Scroll Compressors
- Full Factory Charged with R410A Refrigerant
- Multiple Speed Outdoor Fans
- Blue Epoxy Coat Coil Fin Protection - Indoor & Outdoor Coils
- Louvred Outdoor Coil Guard
- Adaptive Demand Defrost
- EC Variable Speed Indoor Fan
- Adjustable Dial-Up Indoor Airflow

## UNIT OPTIONS

- Low Ambient
- Compressor Soft Starters
- Phase Protection
- Additional Full Coil Coat Protection
- Fault Detection Board

## CONTROL OPTIONS & FEATURES

### ActronAir C7-4 (BCA Compliant)

- 7-Day Programmable Controller with 2 Events/Day
- Temperature Set Back and After Hours Timer
- Auto, Heat & Cool Modes
- Auto/Continuous Indoor Fan Operation
- 1 Speed Indoor Fan Setting
- Hot Start Feature
- 2 Stage Cooling/Heating with 3rd Stage Boost Heat
- Manual Control Inputs
- Remote Temperature Sensors
- 24-Hour ON/OFF Timer
- Home/Building Automation ON/OFF Capability

## UNIT COMPLIANCE

- MEPS 2012 / GEMS 2012
- AS/NZS 4755.3.1 Demand Response Capabilities
- AS/NZS 60335.1 Electrical Appliance Safety
- AS/NZS CISPR 11:2011 (Group 1 ClassA) EMC Compliance

## SPECIFICATION SUMMARY

PACKAGE UNIT MODEL	PCG340L/R	
	<sup>(1)</sup> TOTAL	<sup>(2)</sup> NETT
<sup>(3)</sup> COOLING CAPACITY (kW)	34.16	33.00
<sup>(3)</sup> SENSIBLE CAPACITY (kW)	28.18	27.03
<sup>(4)</sup> HEATING CAPACITY (kW)	31.82	32.90
<sup>(5)</sup> COOLING INPUT POWER (kW)	9.96	
<sup>(5)</sup> HEATING INPUT POWER (kW)	9.82	
EER	3.43	3.31
COP	3.24	3.36
<sup>(6)</sup> INDOOR AIRFLOW (l/s) - MIN. / NOMINAL / MAX.	1450 / 1720 / 1900	
OUTDOOR SOUND PRESS. LEVEL @ 3M dB(A) - LOW / HIGH	58.8 / 62.8	
OUTDOOR SOUND POWER LEVEL dB(A) - LOW / HIGH	75.8 / 79.8	
POWER SUPPLY	400V / 3Ph+N / 50Hz	
<sup>(2)</sup> RATED LOAD AMPS	25.5	
<sup>(7)</sup> FULL LOAD AMPS	36.1	
<sup>(8)</sup> CIRCUIT BREAKER AND CABLE AMPS	40.0	
APPROXIMATE STARTING AMPS	64.0	
WEIGHT (kg)	500	

- <sup>(1)</sup> Based on unit rating excluding indoor fan kW.
- <sup>(2)</sup> Measured and tested in accordance with AS/NZS 3823.1.2.
- <sup>(3)</sup> At 27°C DB / 19°C WB entering air temperatures and 35°C ambient.
- <sup>(4)</sup> At 20°C DB entering air temperature and 7°C DB / 6°C WB ambient.
- <sup>(5)</sup> input power includes indoor fan kW.
- <sup>(6)</sup> Max. - Min. airflow application range.
- <sup>(7)</sup> Full Load Amps are based on compressor and fan motors' maximum expected current.
- <sup>(8)</sup> See Specifications sheet for cable size and circuit breaker size details.

Note: Use input power to estimate running cost.

3 Phase  
2 Stage  
34.16 kW



# CAPACITY SELECTION DATA

# PCG340L/R

## COOLING PERFORMANCE

AIR ENTERING		TOTAL CAPACITY kW	TOTAL SENSIBLE CAPACITY - kW										
OUTDOOR DB - °C	INDOOR WB - °C		AT DB TEMPERATURE ONTO INDOOR COIL - °C										
			20	21	22	23	24	25	26	27	28	29	30
25	16	34.60	22.46	24.39	26.02	27.87	29.62	31.36	32.85				
	17	35.38	20.47	22.42	24.37	25.98	27.85	29.67	31.38				
	18	36.36	18.47	20.41	22.35	24.29	26.24	27.81	29.61	31.37	33.02	34.61	
	19	37.39	16.40	18.40	20.37	22.30	24.21	26.12	27.70	29.55	31.34	33.06	34.66
	20	38.39	14.35	16.35	18.30	20.29	22.20	24.14	26.03	27.63	29.49	31.28	33.05
	21	39.45		14.25	16.24	18.25	20.19	22.13	24.05	25.98	27.53	29.44	31.25
22	40.64			14.18	16.14	18.14	20.09	22.05	23.96	25.87	27.81	29.31	
30	16	33.42	21.82	23.74	25.36	27.19	28.98	30.63	31.97				
	17	34.04	19.85	21.76	23.70	25.34	27.19	28.99	30.70	32.27			
	18	34.89	17.82	19.77	21.71	23.63	25.25	27.12	28.95	30.70	32.32	33.77	
	19	35.86	15.79	17.77	19.72	21.67	23.58	25.49	27.05	28.90	30.69	32.39	33.93
	20	36.85	13.73	15.71	17.69	19.67	21.60	23.53	25.40	27.03	28.85	30.65	32.38
	21	37.85		13.64	15.64	17.61	19.57	21.50	23.45	25.34	26.94	28.79	30.57
22	38.98			13.56	15.56	17.54	19.49	21.45	23.34	25.25	26.84	28.69	
35	16	32.11	21.09	23.02	24.63	26.47	28.17	29.82					
	17	32.36	19.13	21.05	22.97	24.61	26.43	28.23	29.90	31.24			
	18	33.24	17.11	19.06	21.00	22.93	24.55	26.39	28.20	29.92	31.50		
	19	34.16	15.10	17.05	19.03	20.95	22.89	24.48	26.36	28.18	29.93	31.59	32.99
	20	35.07	13.04	15.02	17.00	18.95	20.89	22.81	24.72	26.30	28.10	29.89	31.60
	21	36.02		12.95	14.95	16.93	18.87	20.80	22.72	24.66	26.20	28.07	29.84
22	37.08			12.88	14.88	16.83	18.79	20.72	22.66	24.56	26.15	27.97	
40	16	30.64	20.31	21.96	23.81	25.63	27.30	28.72					
	17	30.65	18.34	20.26	22.17	23.78	25.60	27.36	28.97				
	18	31.42	16.35	18.28	20.24	22.16	23.73	25.58	27.37	29.05	30.48		
	19	32.24	14.30	16.27	18.23	20.16	22.08	23.70	25.53	27.35	29.08	30.64	
	20	33.04	12.25	14.23	16.23	18.16	20.11	22.02	23.65	25.49	27.28	29.06	30.73
	21	33.98		12.20	14.18	16.13	18.09	20.04	21.94	23.86	25.43	27.24	29.01
22	34.99			12.09	14.10	16.09	18.03	19.97	21.87	23.78	25.37	27.18	
45	16	28.98	19.45	21.12	22.92	24.73	26.30						
	17	28.99	17.50	19.42	21.09	22.89	24.71	26.37					
	18	29.40	15.50	17.47	19.38	21.05	22.87	24.70	26.45	28.00			
	19	30.20	13.50	15.47	17.41	19.34	21.24	22.86	24.68	26.45	28.08		
	20	30.93	11.46	13.42	15.41	17.35	19.28	21.19	22.82	24.61	26.41	28.14	29.66
	21	31.86		11.38	13.37	15.34	17.30	19.21	21.15	22.76	24.58	26.36	28.15
22	32.76			11.31	13.33	15.26	17.23	19.17	21.07	22.70	24.54	26.34	
50	16	27.18	18.52	20.18	21.97	23.71	25.12						
	17	27.20	16.60	18.51	20.17	21.96	23.72	25.27					
	18	27.22	14.62	16.55	18.47	20.13	21.93	23.72	25.39	26.82			
	19	27.99	12.62	14.56	16.51	18.44	20.10	21.93	23.72	25.45	26.92		
	20	28.61	10.58	12.57	14.52	16.47	18.38	20.28	21.88	23.67	25.43	27.05	
	21	29.45		10.54	12.50	14.46	16.40	18.33	20.22	21.84	23.64	25.41	27.12
22	30.27			10.47	12.42	14.39	16.35	18.27	20.16	21.81	23.59	25.38	

## HEATING PERFORMANCE

WB TEMP ON OD COIL - °C	HEATING CAPACITY - kW									
	AT DB ENTERING INDOOR - °C									
	16		18		20		22		24	
	TH	IH	TH	IH	TH	IH	TH	IH	TH	IH
-10	20.63	19.81	20.47	19.65	20.29	19.47	20.12	19.32	19.95	19.15
-8	21.93	20.84	21.74	20.65	21.55	20.47	21.35	20.28	21.17	20.11
-6	23.25	21.85	23.05	21.67	22.85	21.47	22.63	21.27	22.43	21.08
-4	24.65	22.68	24.44	22.49	24.22	22.28	23.99	22.07	23.75	21.85
-2	26.09	23.22	25.87	23.02	25.62	22.80	25.37	22.58	25.13	22.36
0	27.67	24.35	27.41	24.12	27.16	23.90	26.89	23.66	26.61	23.42
2	29.14	26.52	28.88	26.28	28.59	26.02	28.30	25.76	28.01	25.49
4	30.73	30.73	30.43	30.43	30.14	30.14	29.82	29.82	29.50	29.50
6	32.38	32.38	32.05	32.05	31.82	31.82	31.49	31.49	31.14	31.14
8	34.23	34.23	33.89	33.89	33.55	33.55	33.19	33.19	32.81	32.81
10	36.08	36.08	35.73	35.73	35.34	35.34	34.95	34.95	34.54	34.54
12	38.02	38.02	37.62	37.62	37.21	37.21	36.78	36.78	36.34	36.34
14	40.03	40.03	39.60	39.60	39.15	39.15	38.68	38.68	38.21	38.21
16	42.11	42.11	41.63	41.63	41.14	41.14	40.64	40.64	40.13	40.13
18	44.26	44.26	43.74	43.74	43.21	43.21	42.67	42.67	42.13	42.13

TH - Total Heating Capacity (kW).  
IH - Integrated Heating Capacity (kW)  
Includes defrost losses.

## AIRFLOW CORRECTION MULTIPLIER

% VARIATION	-15%	-10%	-5%	NOMINAL	+5%	+10%
INDOOR AIRFLOW (l/s)	1462	1548	1634	1720	1806	1892
TOTAL COOLING	0.972	0.982	0.991	1.00	1.008	1.014
SENSIBLE COOLING	0.919	0.947	0.973	1.00	1.027	1.053
HEATING FACTOR	0.991	0.994	0.997	1.00	1.002	1.004

### NOTES:

- No allowance has been made for the effect of indoor fan motor.
- Selection tables are based on nominal airflows.  
Correction factors must be applied for selection away from these conditions.



34.16 kW  
3 Phase  
2 Stage

AIRFLOW (l/s)	EXTERNAL STATIC PRESSURE (Pa)											
	50		100		150		200		250		300	
	% PWM	W	% PWM	W	% PWM	W	% PWM	W	% PWM	W	% PWM	W
1450	50	550	54	692	58	837	62	978	67	1144	75	1328
1500	53	599	57	754	61	887	65	1044	70	1196	78	1380
1550	55	660	59	793	64	948	68	1104	73	1262	80	1431
1600	58	715	62	855	67	1005	71	1168	75	1306	84	1497
1650	61	765	65	909	70	1065	74	1225	79	1389	90	1570
1700	65	824	68	976	73	1128	77	1290	82	1469	95	1631
<b>1720</b>	66	849	<b>69</b>	<b>997</b>	74	1151	79	1320	83	1486	97	1677
1750	68	892	72	1040	76	1190	81	1361	86	1542	99	1712
1800	71	950	74	1096	79	1261	84	1438	90	1619	MOTOR / BLOWER LIMIT	
1850	74	998	78	1154	82	1328	88	1516	94	1712		
1900	77	1052	81	1236	86	1417	92	1608	99	1814		

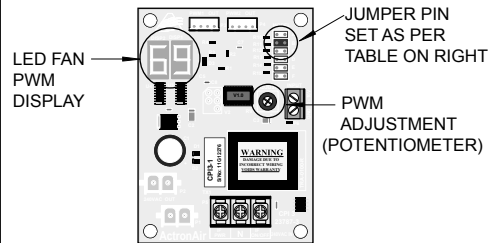
**NOTES:**

**W** = Indoor Fan Power, Watts

**PWM** = Pulse Width Modulation Setting, % PWM  
(Adjustable through CPI3-1 Board located in electrical panel).  
Factory PWM Setting = 69 % PWM for 100 Pa.

   - Data in the box indicates Factory Default Setting.

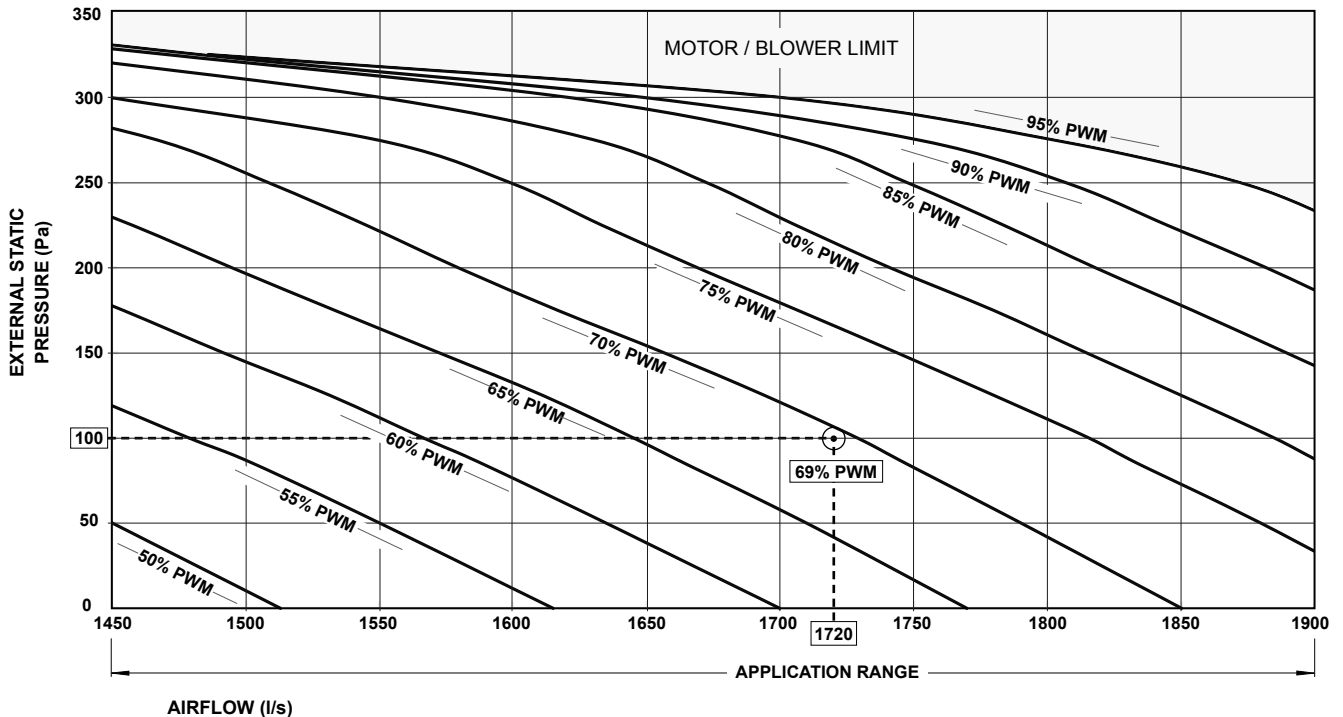
**(CPI3-1) COMMERCIAL PWM INTERFACE BOARD**



JUMPER PIN POSITION	INDOOR FAN
A	SCG400E PCG400U/L/R
B	PCG340L/R
C	PCG330L/R
D	PCG300L/R
E	SCG290E PCG290U/L/R
F	NOT USED

**NOTES:**

- LED will show PWM without %.  
Example: 69% PWM = 69 in LED.
- LED adjustments are in 1 digit increment.



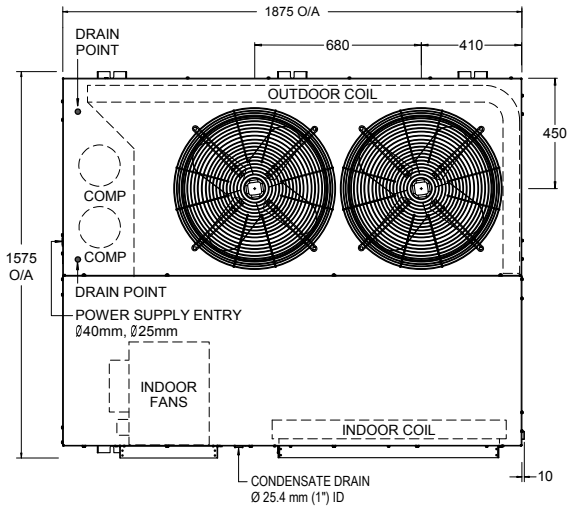
**3 Phase**  
**2 Stage**  
**34.16 kW**



# UNIT DIMENSIONS

# PCG340L

## PACKAGE UNIT - WITH LEFT HAND AIR SUPPLY OPTION

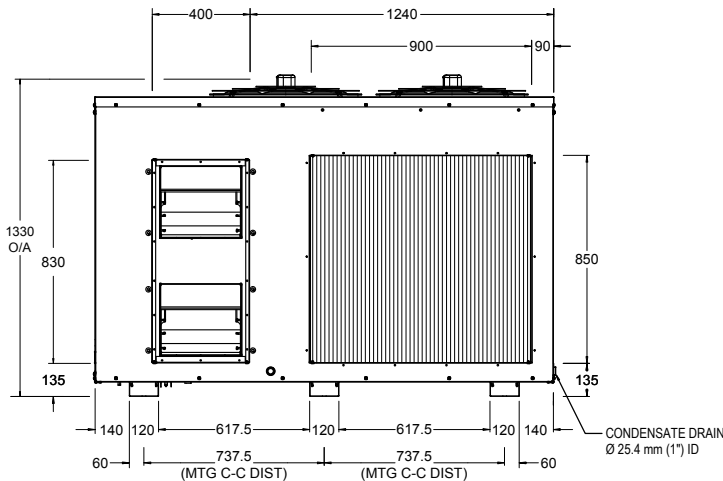
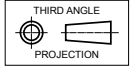


**TOP VIEW**

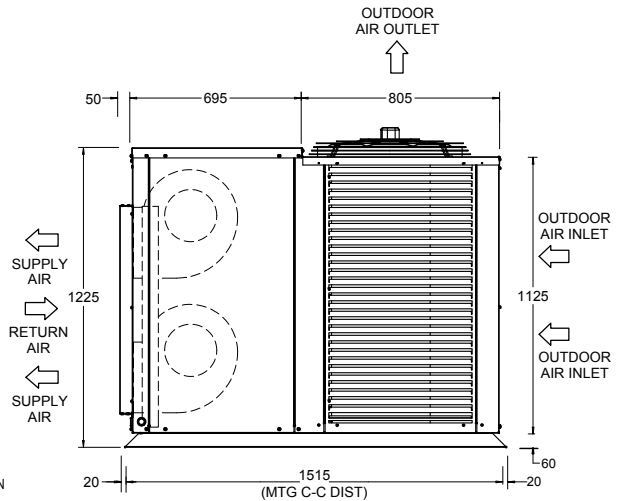
OVERALL NOMINAL DIMENSION (H x W x L)  
 = 1330 x 1875 x 1575  
 SUPPLY DUCT (H x W) = 830 x 400  
 RETURN DUCT (H x W) = 850 x 900  
 USE M12 BOLT FOR FEET MOUNTING

**NOTES:**

1. All dimensions are in mm unless specified.
2. Do not scale drawing.
3. Additional Full Coil Coat Protection option available on all units.
4. Suggested Service Clearance and Airflow Allowances are based on conditions that the spaces are free from obstructions and walkway passage of 1000mm is available.
5. Minimum service access areas are responsibilities of the installer.



**FRONT VIEW**

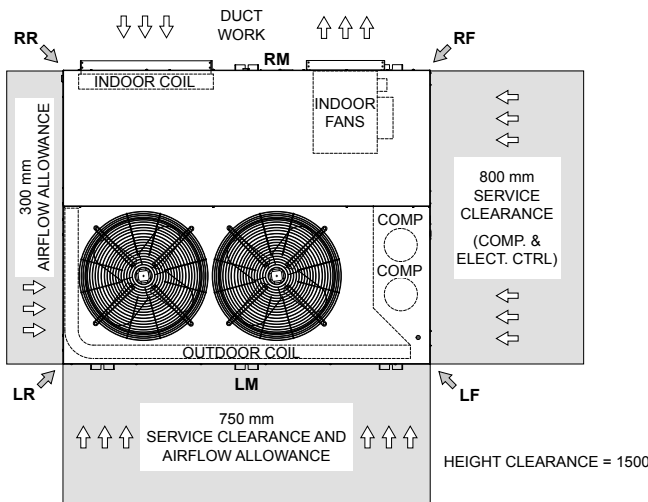


**SIDE VIEW**

**34.16 kW**  
**3 Phase**  
**2 Stage**

UNIT MODEL NUMBER	UNIT WEIGHT (kg)	CORNER WEIGHTS (kg)					
		LF	RF	LR	RR	LM	RM
PCG340L	500	149.5	129.3	52.4	62.0	53.4	53.4

### MINIMUM SERVICE ACCESS CLEARANCES & AIRFLOW SPACE ALLOWANCES



**PLEASE NOTE THAT UNDER ALL CIRCUMSTANCES, CONDENSER AIR MUST NOT RECIRCULATE BACK ONTO CONDENSER COIL. KEEP ALL CLEARANCES FREE OF ANY OBSTRUCTIONS**

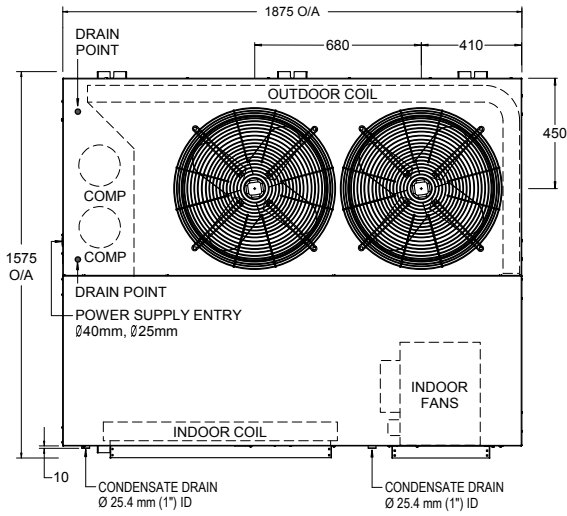
STACKING OF UNITS	
ONE IN FRONT OF THE OTHER (DISTANCE BET. LF & RF)	SIDE BY SIDE (DISTANCE BET. LF & LR)
1000 mm	1000 mm



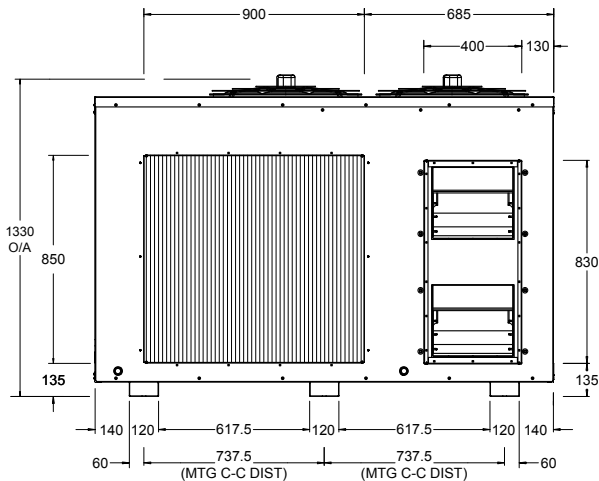
# UNIT DIMENSIONS

# PCG340R

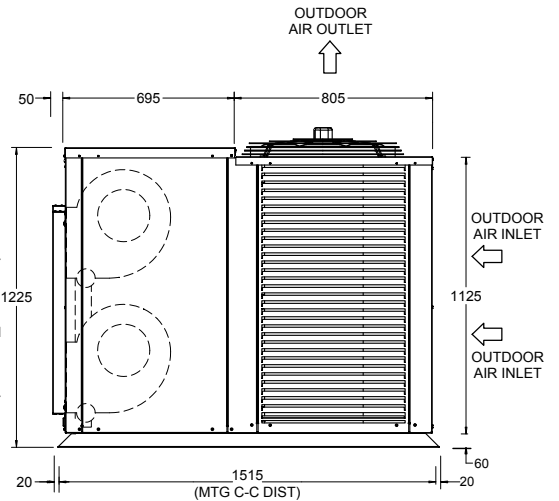
## R PACKAGE UNIT - WITH RIGHT HAND AIR SUPPLY OPTION



**TOP VIEW**



**FRONT VIEW**

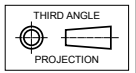


**SIDE VIEW**

OVERALL NOMINAL DIMENSION (H x W x L)  
 = 1330 x 1875 x 1575  
 SUPPLY DUCT (H x W) = 830 x 400  
 RETURN DUCT (H x W) = 850 x 900  
 USE M12 BOLT FOR FEET MOUNTING

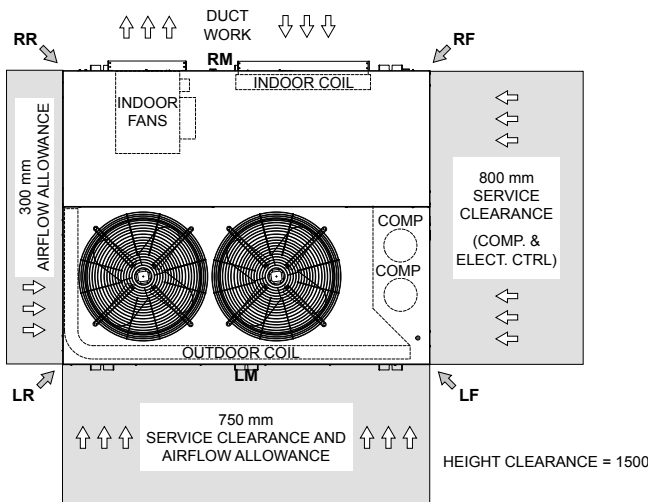
**NOTES:**

1. All dimensions are in mm unless specified.
2. Do not scale drawing.
3. Additional Full Coil Coat Protection option available on all units.
4. Suggested Service Clearance and Airflow Allowances are based on conditions that the spaces are free from obstructions and walkway passage of 1000mm is available.
5. Minimum service access areas are responsibilities of the installer.



UNIT MODEL NUMBER	UNIT WEIGHT (kg)	CORNER WEIGHTS (kg)					
		LF	RF	LR	RR	LM	RM
PCG340R	500	149.5	62.0	52.4	129.3	53.4	53.4

### MINIMUM SERVICE ACCESS CLEARANCES & AIRFLOW SPACE ALLOWANCES



PLEASE NOTE THAT UNDER ALL CIRCUMSTANCES, CONDENSER AIR MUST NOT RECIRCULATE BACK ONTO CONDENSER COIL. KEEP ALL CLEARANCES FREE OF ANY OBSTRUCTIONS

STACKING OF UNITS	
ONE IN FRONT OF THE OTHER (DISTANCE BET. LF & RF)	SIDE BY SIDE (DISTANCE BET. LF & LR)
1000 mm	1000 mm

**3 Phase**  
**2 Stage**  
**34.16 kW**



**Outdoor Radiated**

**Sound Power Level (SWL)**

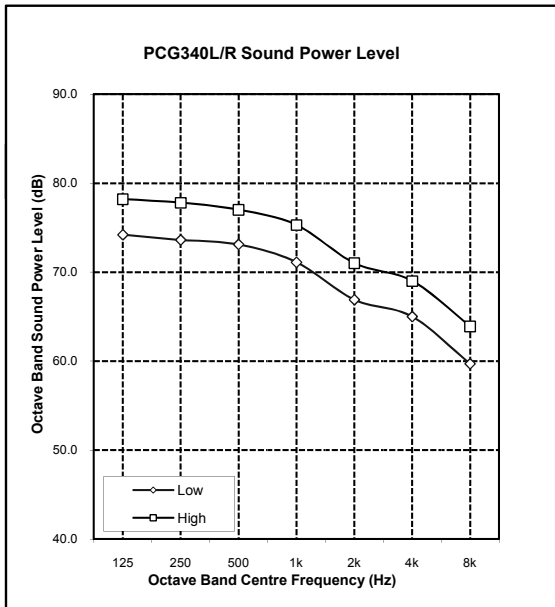
Fan Speed	Sound Power Level dB(A)	Octave Band Centre Frequency (Hz), dB						
		125	250	500	1k	2k	4k	8k
Low	75.8	75.2	73.6	73.1	71.1	66.9	65.0	59.7
High	79.8	78.2	77.8	77.0	75.3	71.0	69.0	63.9

**Indoor Outlet**

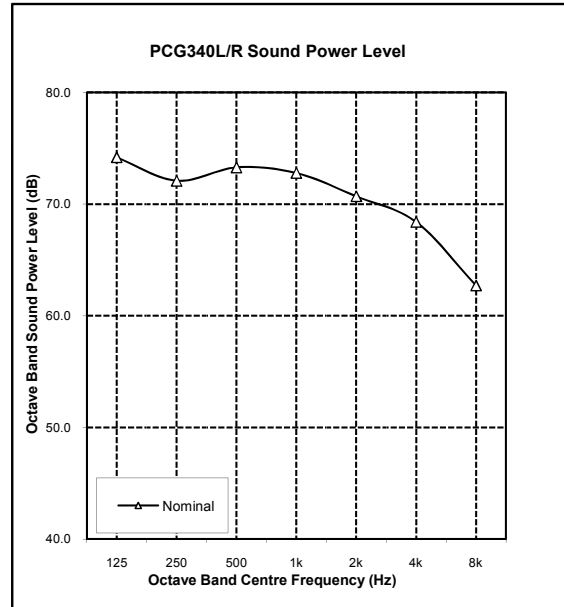
**Sound Power Level (SWL)**

Airflow Setting	Airflow Li/s	Sound Power Level dB(A)	Octave Band Centre Frequency (Hz), dB						
			125	250	500	1k	2k	4k	8k
Nominal	1720	77.6	74.2	72.1	73.3	72.8	70.7	68.4	62.7

**OUTDOOR RADIATED**



**INDOOR OUTLET**



**NOTES:**

1. Radiated sound power levels are based on ISO 3743-2.
2. Outlet sound power levels are based on ISO 13347-2.

**34.16 kW**  
**3 Phase** | **2 Stage**



# SPECIFICATIONS

# PCG340L/R

CONSTRUCTION	
CABINET BASE	1.9 mm Galvanised Steel
CABINET TOP AND SIDES	1.2 - 1.6 mm ZA & Galv. Steel
SURFACE FINISH	65 microns Baked Polyester Powder Coat

INSULATION	
TYPE	10 mm Foil Faced Polyethylene 20 mm Expanded Polystyrene

SOUND LEVEL * dB(A)	
SOUND PRESS. - Low / High	58.8 / 62.8 @ 3m Distance
SOUND POWER LEVEL - Low / High	75.8 / 79.8
* Sound data are based on outdoor fan's manufacturer sound level data.	

ELECTRICAL	
POWER SUPPLY - 50 Hz	400 Volts x 3 Phase + Neutral
VOLTAGE RANGE (min - max)	380V - 440V
FULL LOAD AMPS * - Phase 1	36.1
FULL LOAD AMPS * - Phase 2 & 3	21.3 & 22.4
RATED LOAD AMPS**	25.5
APPROX. STARTING AMPS	64.0
IP RATING	IP44

IMPORTANT - The local electricity authority may require limits on starting current and voltage drop, please check prior to purchase.

\* Full Load Amps are based on compressor and fan motor's maximum expected current.

\*\* Rated Load Amps are measured and tested in accordance with AS/NZS3823.1.2.

CABLE SIZE & CIRCUIT BREAKER SIZE	
Suggested minimum cable size should be used as a guide only, refer to AS/NZS 3000 "Australian/New Zealand Wiring Rules" for more details.	
CABLE SIZE (MAIN LINE)	10.0mm <sup>2</sup> (SUGGESTED MINIMUM)
CIRCUIT BREAKER SIZE - AMPS	40.0

OUTDOOR COIL	
TUBE TYPE	Copper - Rifle Bore
FIN TYPE	Aluminium - Wave
FACE AREA (m sqr)	2.50
FIN SPACING (per m)	472
COIL COATING	Blue Epoxy Coat Coil Fin Protection
ROWS	---

OUTDOOR FAN	
NUMBER OF FANS x TYPE	2 x Axial
NUMBER OF BLADES PER FAN	4
DIAMETER (mm)	560
OUTPUT kW	0.37
MOTOR TYPE / DRIVE TYPE	6 Pole External Rotor / Direct Drive
FAN SPEED CONTROL	2 Speed via Capacitor
The standard type outdoor fans fitted to this unit will accept up to 5Pa of external static resistance.	

INDOOR COIL	
TUBE TYPE	Copper - Rifle Bore
FIN TYPE	Aluminium - Louvre
FACE ARE (m sqr)	0.864
FIN SPACING (per m)	472
COIL COATING	Blue Epoxy Coat Coil Fin Protection
ROWS	---

INDOOR FAN	
NUMBER OF FANS x TYPE	2 x Centrifugal EC Fan
DIAMETER / WIDTH (mm)	270 x 270
OUTPUT kW / INPUT kW	1.12 / 1.16
MOTOR TYPE / DRIVE TYPE	Variable Speed EC Motor / Direct

COMPRESSOR	
NUMBER PER UNIT x TYPE	2 x Scroll (Hermetic)
FULL LOAD AMPS	21.8
LOCKED ROTOR AMPS	64.0
STARTING METHOD	D.O.L. (optional soft starter)

REFRIGERATION SYSTEM	
REFRIGERANT TYPE	R-410A
EXPANSION CONTROL	Direct Expansion Orifice
FACTORY CHARGE (grams)	6,000 per stage (per compressor)

FILTER DRIER	
CONNECTION SIZE & TYPE	15.9 mm (7/8") ODF Soldered Bi-Flow
FACTORY SUPPLIED / FITTED	No
See Installation Section for complete Filter Drier specifications.	

PROTECTION DEVICES	
HIGH PRESSURE CUTOFF SWITCH	Nonadjustable (Automatic Reset)
LOW PRESSURE CUTOFF SWITCH	Nonadjustable (Automatic Reset)
COMPRESSOR MOTOR TEMP.	Internal Thermal Cut-Out
INDOOR FAN OVERLOAD	Internal Thermal Cut-Out
OUTDOOR FAN OVERLOAD	Internal Thermal Cut-Out
SUMP HEATER WATTS	2 x 30W during Comp. Off Cycle

ELECTRIC CONTROLS	
DEFROST METHOD	Reverse Cycle
DEFROST TYPE	Adaptive Demand Defrost
CONTROL CIRCUIT BREAKER	16.0 Amps
C7-4 FIELD CONTROL WIRING	2 Core 14 / 0.20 Screened Cable

**OPERATING RANGE**  
It is essential that the unit is correctly sized for the application and operates within its recommended range of operating conditions as shown below.

MODE	RANGE	INDOOR AIR INTAKE TEMPERATURE	OUTDOOR AIR INTAKE TEMPERATURE
Cooling	Max.	30°C DB / 22°C WB	50°C DB
	Min.	20°C DB / 16°C WB	15°C DB
Heating	Max.	24°C DB	19.5°C DB / 18°C WB
	Min.	16°C DB	-10°C WB

IMPORTANT - For low ambient cooling use option S. Lower ambient available on request. Contact your nearest ActronAir office for more details.

Low Ambient Cooling	Option S	Max.	29°C DB / 19°C WB	50°C DB
		Min.	20°C DB / 15°C WB	5°C DB
	On Request	Max.	29°C DB / 19°C WB	50°C DB
		Min.	20°C DB / 15°C WB	-5°C DB

AIR FILTERS	
All return air including fresh air must have adequate filters supplied and fitted by the installing contractor. Filters must be located in accessible location between the return air grille and the unit.	
ActronAir® does not supply or make any provisions for return air filter.	

3 Phase  
2 Stage  
34.16 kW



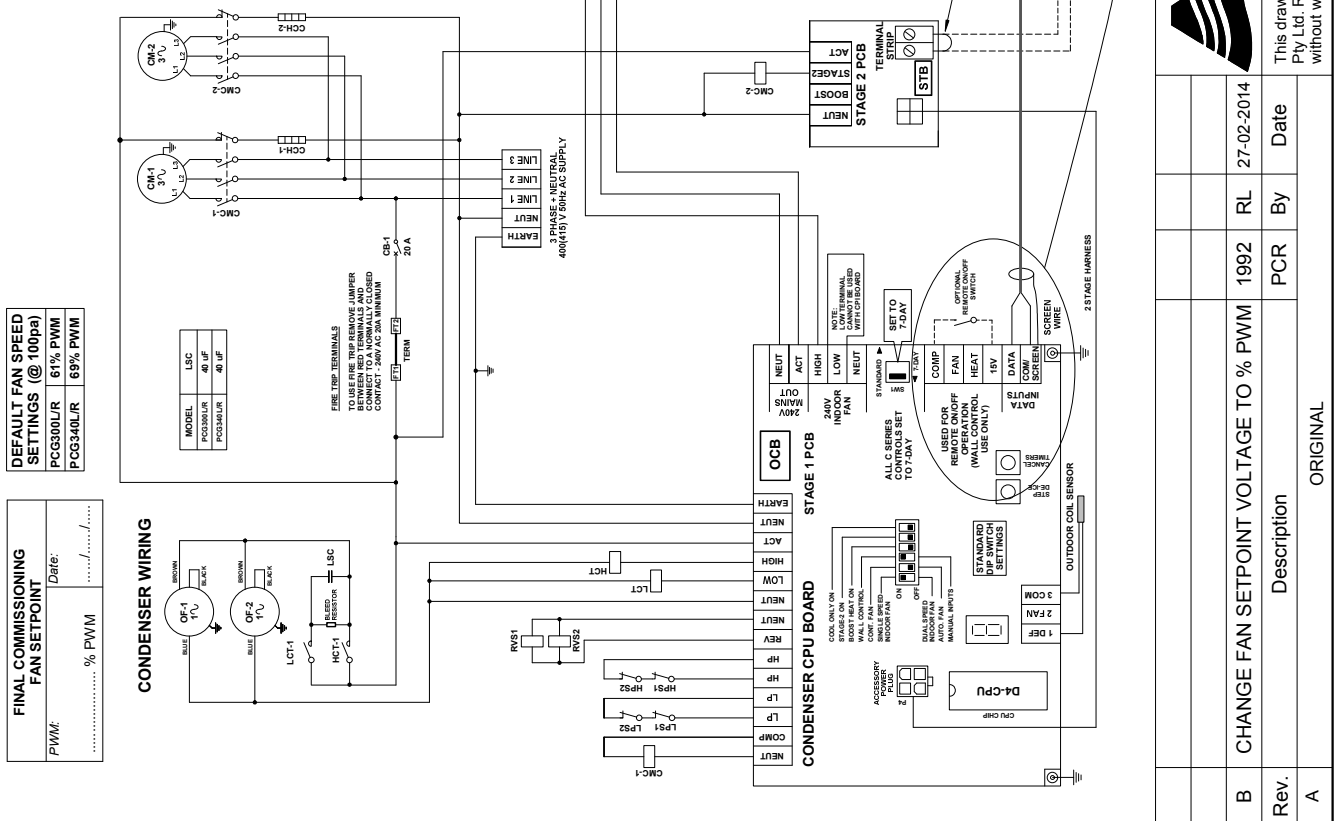
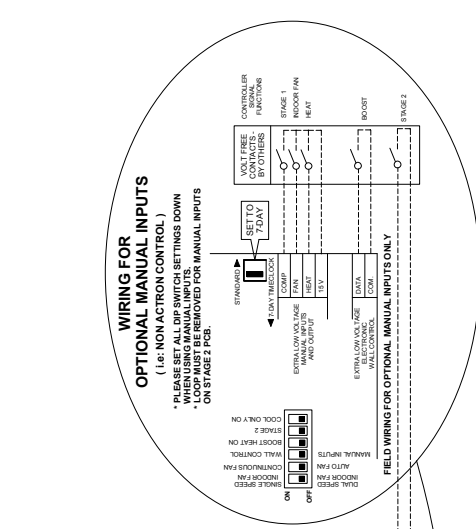
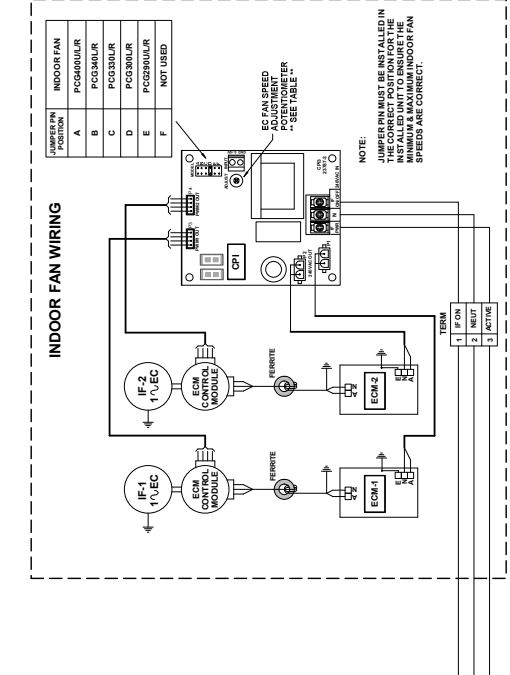
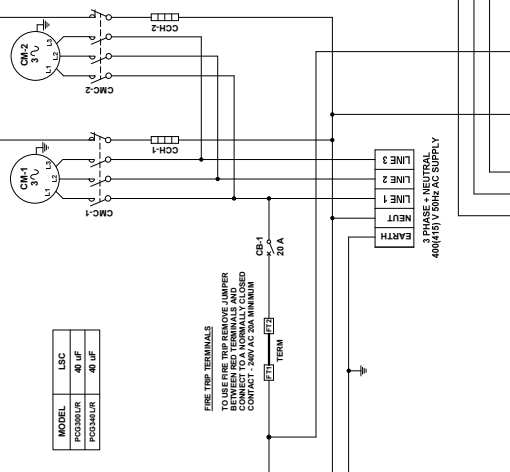
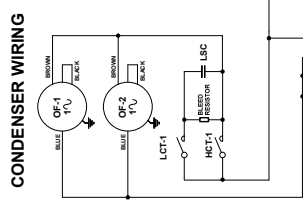
# WIRING DIAGRAM

# PCG340L/R

**34.16 kW**  
**3 Phase**    **2 Stage**

**FINAL COMMISSIONING FAN SETPOINT**  
Date: ...../...../.....  
PWM: .....% PWM

**DEFAULT FAN SPEED SETTINGS (@ 100pa)**  
PCG300L/R    61% PWM  
PCG340L/R    69% PWM



Base Model No:	PCG300L/R	PCG340L/R	Variation Code:	STANDARD
Description:	ACT-D4 CONTROL SYSTEM WIRING DIAGRAM WITH C SERIES WALL CONTROL & CPI VARIABLE SPEED INDOOR FAN CONTROL BOARD			
Rev. A	Rev. B	Rev. C	Rev. D	Rev. E
10-08-2011	10-08-2011	10-08-2011	10-08-2011	10-08-2011
MJH	MJH	MJH	MJH	MJH
27-02-2014	27-02-2014	27-02-2014	27-02-2014	27-02-2014
WD0760	WD0760	WD0760	WD0760	WD0760
10-08-2011	10-08-2011	10-08-2011	10-08-2011	10-08-2011
MJH	MJH	MJH	MJH	MJH
27-02-2014	27-02-2014	27-02-2014	27-02-2014	27-02-2014
WD0760	WD0760	WD0760	WD0760	WD0760



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