

AIR CONDITIONING

GENERAL SPECIFICATIONS AND PRODUCT DESCRIPTION

Effective 1 February 2013

PRODUCT DESCRIPTION - ALL MODELS

FAN

Direct drive, high efficiency, low noise. All polymer with taper lock quick coupling attachment. Statically and dynamically balanced. The Powerflow fan used on the larger systems features a 'golf ball' like dimpled surface to improve efficiency and lower noise.

FAN CURVE CHARACTERISICS

Superior static pressure handling ability (fan curve) reflected as a percentage air flow at resistance points in pascals:

Static Pressure Pascals	600w Motor (%)	750w Motor (%)	1000w Motor (%)
0	100	100	100
20	98	98	98
40	95	94	95
60	93	92	91
80	88	88	88
100	86	86	85
120	82	78	82
140	78	71	77
160	73		71
180			65

FAN MOTOR

Manufactured by Teco Australia. The motors feature quality Japanese bearings with ultra high temperature grease and have a projected bearing life in excess of 30,000 hours. The overall motor service life is projected to be in excess of 10 years, based on average annual usage in domestic installations.

Mounting the motor after the fan blade ensures the highest air velocity over the motor. This maximizes cooling and prevents moisture forming.

WATER CIRCULATION PUMP

The heavy duty pump incorporates the best quality components and has been manufactured for an extended service life. A fully sealed basket enclosure prevents debris from entering the water circulation system.

WATER MANAGEMENT & CONTROL SYSTEM

Electronic regulation of water level by measurement of 'magnetic hall effect'. Consistent water level accurate to within 1 mm. No adjustment required.

The inlet water is controlled by switching on and off a 24v inlet water solenoid valve which is only powered during fill times.

Our patented drain valve features a simple mechanical-only operation based on a 'weight of water' counterweight principle.

FILTER PADS

The cellulose pads are manufactured to rigorous standards - flute size 5090.

CASING

Thermoformed and extruded polymer. Manufactured by BASF under the LURAN-S brand name. Especially formulated for structural integrity and resistance to weathering and UV. Ten year casing warranty on polymer.

ELECTRONIC CONTROLS

Designed and manufactured by Air Group Australia. C-Tick and RoHS approved to Australian standards, as well as the European CE standard. Circuit board independently fuse protected.

FLOOR AREA CAPACITY

Model number denotes floor area to be cooled in m² i.e. D125 = 125m² floor area at 2.4 ceilings. See COMCOOL 2.

CONTROLLER SPECIFICATIONS - ALL MODELS

CONTR	OLLER FEATURES	QM	QA
Electrical C	onnection - age control cable	Х	Х
Cool Mode		Х	Х
Fan-Only M	lode	Х	X
Exhaust Mo	ode	Х	Х
Pump only	Mode (Bushfire mode)		Х
Fan Speeds	S	10	100
Countdown	Timer - Start/Stop		Х
Display	LED indicators	Х	
	LED text display		Х
Temperatui	re Display		Х
Thermostat	Control		X
Wash Cycle starting	e - Pads wet prior to fan	Х	Х
Periodic Dr Adjustable		X 2.5, 5	X 5-99
Rinse Cycle with fresh w	e - end of day rinses pads vater	Х	Х
Auto Drain not in use	Function - Dry sump when	Х	Х
Drain After	Flush Cycle Option	Х	Х
Control Cal	ole Length - Metres	15	15



QA



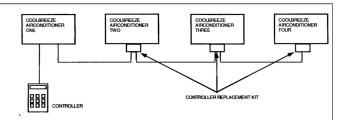


QM

MOBILE

ACCESSORIES AVAILABLE:

- 4 Seasons Weather Seal suits 550mm square dropper
- Controller Replacement Kit suits QM & QA
 Consists of PCB which is plugged into the controller header on the second and each subsequent air conditioning unit, which are then linked together by an interconnecting 12m controller cable.



NOTE 1:

Minimum KW capacities have been calculated according to AS2910-2000 under standardized conditions. Inlet dry bulb temperature 38 degrees, inlet wet bulb temperature 21 degrees and comfort dry bulb temperature 27.4 degrees. Calculations are based on air flow as per CSIRO report. 00/228 and Celdek saturation efficiency test as per CSIRO report 90/16m.

NOTE 2:

An indicative airflow to compare systems rated under the old 'air flow' and 'air change' method of sizing. The old ratings which are no longer applicable, were based on 'design' or nominal air flow output.

Specifications are subject to change without notice.

AIR GROUP AUSTRALIA

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SPECIFICATIONS - HERITAGE "D" SERIES DOWN DISCHARGE

Model		ALL	D 095	D 125	D160	D195	D230	D 255
Motor	Voltage (50 Hz)	220-240						
	Thermal Overload	Yes						
	Insulation	'F' Class						
	Capacitor - uf		25	25	30	30	30	30
	Resistance - Windings Main/Aux at 20°C		5.01/6.65	5.01/6.65	4.03/5.36	2.34/4.43	2.34/4.43	2.34/4.43
	Watts - Model TACEVA - VS -		600	600	750	1000	1000	1000
	Amp Draw - low/high		2.65/3.6	2.65/3.6	2.7/3.85	2.9/5.6	2.9/5.6	2.9/5.6
	RPM - low/high		600- 750/1370	600- 750/1370	600- 750/1350	850/1400	850/1400	850/1400
Fan	Auswing II 35°		Х	Х				
	Auswing II 40°				Х			
	Powerflow Fixed Pitch					Х	Х	Х
	Diameter mm	524						
Pump	Voltage (50 Hz)	220-240						
	Thermal Overload - UL certified	Yes						
	Insulation	'C' Class						
	Performance - litres per minute to pads	26						
	Power at 1m head - Amps/Watts	.37/66						
	RPM at 1m head	2550						
Water	Inlet Connection	½ inch BSP						
	Drain (DVW)	40mm						
	Drain Optional	19mm Barb						
	Tank Capacity (litres)	10-12						
	Drain Valve	Yes						
	Provision for Bleed-off & drain valve	Yes						
	Water Level	Magna Sensor						
	*Max. water consumption per hour (litres)		21.5	27	36	42	51	60
Filter Media	Number of Filter Pads	4						
Wieula	Size mm		830 x 370	830 x 460	830 x 460	830 x 535	830 x 650	830 x 770
	Width mm		75	75	100	100	100	100
Performa	nce capacity kw (see note 1)		7	9	11	13	15	17
Cooling (Capacity m3 (Comcool Zone 2)		228	300	384	468	552	612
Design Air Flow	cmh		7500	10000	12500	15000	18000	19500
(see	cfm		4400	5900	7400	8900	10700	11600
note 2)	Lit/sec		2000	2800	3500	4200	5000	5400
DBA - Me	easured at 1m - High/Low		64/52	64/52	66/53	65/53	65/53	65/53
Depth/Wi	dth mm	1090x1090						
Height m	m		570	660	660	735	850	970
Height Al	bove Dropper		310	400	400	475	590	710
Dropper \$	Size	550x550						
Shipping	Weight kg		44.5	46	48	54	56.5	58.5
Ship Vol m3 -	Within Australia		.645	.72	.73	.765	.81	.865
Operating	g Weight kg		55	57.5	60	66.5	69	71.5

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^{*} At 600 kpa the RPE barbed solenoid fills the sump at 4.5 lt per minute

SPECIFICATIONS - CASCADE - "C" SERIES DOWN DISCHARGE

Model		ALL	C 125	C160	C205`	C240
Motor	Voltage	220-240 (50 Hz)				
	Thermal Overload	Yes				
	Insulation	'F' Class				
	Capacitor - uf		25	30	30	30
	Resistance - Windings Main/Aux at 20°C		5.01/6.65	4.03/5.36	2.34/4.43	2.34/4.43
	Watts - Model TACEVA - VS -		600	750	1000	1000
	Amp Draw - low/high		2.65/3.6	2.7/3.85	2.9/5.6	2.9/5.6
	RPM - low/high		600-750/1370	600-750/1350	850/1410	850/1410
Fan	Auswing II 35°		Х			
	Auswing II 40°			X		
	Powerflow Fixed Pitch				X	Х
	Diameter mm	524				
Pump	Voltage	220-240 (50 Hz)				
-	Thermal Overload - UL certified	Yes				
	Insulation	'C' Class				
	Performance - litres per minute to pads	26				
	Power at 1m head - Amps/Watts	.37/66				
	RPM at 1m head	2550				
Water	Inlet Connection	½ inch BSP				
water	Drain (DVW)	40mm				
	Drain Optional	19mm Barb 10-12				
	Tank Capacity (litres)					
	Drain Valve	Yes				
	Provision for Bleed-off & drain valve	No				
	Water Level	Magna Sensor				
	*Max. water consumption per hour (litres)		28	37	46	54
Filter Media	Number of Filter Pads	4				
	Size mm		830 x 1 x 275 1 x 640	830 x 1 x 265 1 x 635	830 x 1 x 385 1 x 755	830 x 1 x 495 1 x 863
	NAG-HIL		2 x 640/300	2 x 635/295	2 x 755/415	2 x 865/525
Df	Width mm		75	100	100	100
	ance capacity kw (see note 1)		9	11	14.5	16.5
Cooling	Capacity m3 (Comcool Zone 2)		300	384	492	576
Design Air Flow	cmh		10000	12500	16000	18500
(see	cfm		5900	7400	9500	10700
note 2)	Lit/sec		2800	3500	4400	5100
DBA - Me	easured at 1m - High/Low		65/53	65/53	64/52	64/52
Depth/Wi	idth mm	1090x1090				
Height m	ım		825	825	945	1056
Height A	bove Dropper		565	565	685	795
Dropper	Size	550x550				
Shipping	ı Weight kg		47	49	56.5	59
Ship Vol m3 -	Within Australia		.8	.85	.91	.975
Operatin	g Weight kg		58	60.5	68.5	72

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SPECIFICATIONS - TWIN FAN "D" SERIES DOWN DISCHARGE

Model		ALL	D500
Motor	Voltage (50 Hz)	220-240	
	Thermal Overload		
	Insulation		
	Capacitor - uf	30	
	Resistance Winding Main/Aux at 20°C		2.34/4.43
	Watts - Model TACEVA - VS -		2X1000
	Amp Draw low/high PER MOTOR x 2		2.9/5.6
	RPM - low/high		850/1410
-an	Auswing II 40°		
	Powerflow Fixed Pitch		X
	Diameter mm	524	
Pump	Voltage (50 Hz)	2X220-240	
	Thermal Overload - UL certified	Yes	
	Insulation	'C' Class	
	tor Voltage (50 Hz) Thermal Overload Insulation Capacitor - uf Resistance Winding Main/Aux at 20°C Watts - Model TACEVA - VS - Amp Draw low/high PER MOTOR x 2 RPM - low/high Auswing II 40° Powerflow Fixed Pitch Diameter mm Voltage (50 Hz) Thermal Overload - UL certified Insulation Performance - litres per minute to pads Power at 1m head - Amps/Watts RPM at 1m head Inlet Connection Drain (DVW) Drain Optional Tank Capacity (litres) Drain Valve Provision for Bleed-off & Drain Valve Water Level *Max. water consumption per hour (litres) er Media Number of Pads Size mm Width mm Unity Composity m3 (Comcool Zone 2) Sign Air w (see note A - Measured at 1m - High/Low Poth/Width mm Ight Above Dropper mm Ipping Weight kg	26	
	Power at 1m head - Amps/Watts	.37/66	
	RPM at 1m head	220-240 Yes 'F' Class 30 524 2X220-240 Yes 'C' Class 26 .37/66 2550 ½ inch BSP 40 mm 19 mm Barb 18-20 Yes Yes Yes Magna Sensor	
Nater	age (50 Hz) rmal Overload Yes Ilation acitor - uf istance Winding Main/Aux at 20°C ts - Model TACEVA - VS - D Draw low/high PER MOTOR x 2 A - low/high wing II 40° rerflow Fixed Pitch meter mm 524 age (50 Hz) 2X220-240 Yes lation 'C' Class ormance - litres per minute to pads rer at 1m head - Amps/Watts At 1m head 2550 At 1 meter on (DVW) n Optional to Connection n (DVW) 40 mm 19 mm Bar k Capacity (litres) n Valve yes er Level Magna Sens x. water consumption per hour (litres) sicher of Pads rmm th mm (Comcool Zone 2) arm Mustralia	½ inch BSP	
Vater	Drain (DVW)	40 mm	
	Drain Optional	19 mm Barb	
	Tank Capacity (litres)	18-20	
	Drain Valve	Yes	
	Provision for Bleed-off & Drain Valve	Yes	
	Water Level	Magna Sensor	
	*Max. water consumption per hour (litres)		100
Filter Media	Powerflow Fixed Pitch Diameter mm 524		6
	Size mm		2 x 960H X 928W 4 X 960H X 645W
	Width mm		100
Cooling Capacit	ry m3 (Comcool Zone 2)		1200
Design Air	cmh		36000
Flow (see note 2)	cfm		21300
	Lit/sec		10000
DBA - Measured	at 1m - High/Low		83/63
Depth/Width mn	1	1630 x 1200	1630 x 1200
Height mm			1160
	ropper mm		910
			101 kg
Ship Vol m3 -	_		1.6 m3
	ht ka		114 kg

 $^{^{\}star}$ At 600 kpa the RPE barbed solenoid fills the sump at 4.5 lt per minute

SPECIFICATIONS - TOP DISCHARGE

Model		ALL	T095	T125	T160	T195	T230	T255
Motor	Voltage (50 Hz)	220-240						
	Thermal Overload	Yes						
	Insulation	'F' Class						
	Capacitor - uf		25	25	30	30	30	30
	Resistance Windings Main/Aux at 20°C		5.01/6.65	5.01/6.65	4.03/5.36	2.34/4.43	2.34/4.43	2.34/4.43
	Watts - Model TACEVA - VS -		600	600	750	1000	1000	1000
	Amp Draw - low/high		2.65/3.6	2.65/3.6	2.7/3.85	2.9/5.6	2.9/5.6	2.9/5.6
	RPM - low/high		600- 750/1370	600- 750/1370	600- 750/1350	850/1400	850/1400	850/1400
Fan	Auswing II 35°		Х	Х				
	Auswing II 40°				Х			
	Powerflow Fixed Pitch					Х	Х	Х
	Diameter mm	524						
Pump	Voltage (50 Hz)	220-240						
	Thermal Overload - UL certified	Yes						
	Insulation	'C' Class						
	Performance - litres per minute to pads	26						
	Power at 1m head - Amps/Watts	.37/66						
	RPM at 1m head	2550						
Water	Inlet Connection	½ inch BSP						
	Drain (DVW)	40 mm						
	Drain Optional	19 mm Barb						
	Tank Capacity (litres)	10-12						
	Drain Valve	Yes						
	Provision for Bleed-off & Drain Valve	Yes						
	Water Level	Magna Sensor						
	*Max. water consumption per hour (litres)		21.5	27	36	42	51	60
Filter	Number of Pads	4						
Media	Size mm		830 x 370	830x460	830x460	830x535	830x650	830x770
	Density mm		75	75	100	100	100	100
Performar	nce capacity kw (see note 1)		7	9	11	13	15	17
Cooling C	apacity m3 (Comcool Zone 2)		228	300	384	468	552	612
Design	cmh		7500	10000	12500	15000	18000	19500
Air Flow (see note	cfm		4400	5900	7400	8900	10700	11600
2)	Lit/sec		2000	2800	3500	4200	5000	5400
DBA - Mea	asured at 1m - High/Low		64/52	66/53	66/53	65/53	65/53	65/53
Depth/Wic	ith mm	1090x1090						
Height mn	n		815	905	905	980	1095	1215
Height Ab	ove Mounting Base mm		655	745	745	820	935	1055
Flexible C	onnector - Outlet size mm	550-700						
Shipping \	Weight kg		70.5	72.0	74	80	82.5	84.5
Ship Vol m3 -	Within Australia		1.05	1.125	1.13	1.16	1.21	1.26
	Weight kg		82	84.5	86	92.5	94.0	97.5

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SPECIFICATIONS - SIDE DISCHARGE/MOBILE

Model		ALL	M240 - MOBILE	S100	S240
Motor	Voltage (V) (50 Hz)	220-240			
	Thermal Overload	Yes			
	Insulation	'F' Class			
	Capacitor - uf (uF)		30	15	30
	Resistance (OHMS) - Windings Main/Aux at 20°C		2.3/4.4	10.7/39.3	2.34/4.43/
	Watts - Model TACEVA - VS - Power (WATTS)		1000	315	1000
	Amp Draw - low/high current (AMPS)		2.9/5.6	2.0/3.3	2.9/5.6
	RPM - low/high SPEED (RPM)		850/1410	600/1230	850/1410
Fan	Auswing II 35°			Х	
	Powerflow Fixed Pitch		X		Х
	Diameter mm	524			
Pump	Voltage (50 Hz)	220-240			
	Thermal Overload - UL certified	Yes			
	Insulation	'C' Class			
	Performance - litres per minute to pads	26			
	Power at 1m head - Amps/Watts	.37/66			
	RPM at 1m head	2550			
Water	Inlet Connection ½ inch BSP				
Water	Drain (DVW)		N/A	40 mm	40 mm
	Drain Optional		N/A	19 mm Barb	19 mm Barb
	Tank Capacity (litres)		100	8-10	10-12
	Drain Valve		No	Yes	Yes
	Provision for extra Bleed-off		No	Yes	Yes
V	Water Level		Manual	Magna Sensor	Magna Sensor
	*Max. water consumption per hour (litres)		55	23	55
Filter Media	Number of Pads	3			
	Size mm		3 x 830 x 950	1 x 830 x 930 2 x 270 x 930	3 x 830 x 950
	Width mm		100	75	100
Cooling Capa	city m3 (Comcool Zone 2)		576	240	576
Design Air	cmh		18500	8000	18500
Flow	cfm		11600	4800	10700
	Lit/sec		5400	2200	5100
DBA - Measur	ed at 1m - High/Low		65/53	64/52	66/53
Depth/Width	mm		1130 x 1220	1090 x 470	1090 x 1090
Height mm			1540	1090	1320
Height Above	Mounting Base mm		N/A	1065	1090
Flexible Conr	nector - Outlet size mm		N/A	N/A	550-700
Shipping Wei	ght kg		95	57.5	80
Ship Vol m3 -	Within Australia		1.9	.925	1.17
Operating We	iaht ka	1	195	67.5	92

 $^{^{\}star}$ At 600 kpa the RPE barbed solenoid fills the sump at 4.5 lt per minute

GENERAL SPECIFICATIONS AND PRODUCT DESCRIPTION ALL MODELS



DOWN DISCHARGE D95 - D255



CASCADE DOWN DISCHARGE C125 - C240



SIDE DISCHARGE \$100



SIDE DISCHARGE \$240



TOP DISCHARGE T095-T255



TWIN FAN D400 - D500





WARRANTY WITHIN AUSTRALIA				
TYPE OF INSTALLATION	PARTS	LABOUR		
Residential Installation	5 Years	3 Years		
Commercial installation (includes Mobiles)	2 Years	2 Years		

*In areas not covered by Airgroup Australia technicians, please refer to service warranty contract agreement for further details.

NOTES