



Benson

Ducted Systems











Benson Enviro 3



Fans Speeds	FA	Fan Auto operation (recommended in Summer)
	F3	High Fan Speed
	F2	Medium Fan Speed
	F1	Low Fan Speed (recommended in Winter)
Timer Control	Can be set as a countdown or count up timer up to 16 hours, eg leave at 9 am arrive home at 4pm set for 5 hours to turn on so the house is cooler when returning home.	
Power Failure	Following a power failure, units have an automatic restart function. This can be switched to manual if required	
Low Noise	The outdoor units have been designed with the lowest noise level outdoor fan blades currently available	
Modes	Heating	Used to heat and the recommended temperature setting is 21°C
	Cooling	Used to cool and the recommended temperature setting is 24°C
	Auto	Auto mode is with both Heating and Cooling LEDs lit this will give both heating and cooling as required. Generally not used.
Pre-heat Heating	During the off cycle, the indoor fan runs at a super-low speed to give accurate temperature control; when the system sensors indicate that it needs to warm, the fan will stay on the super-low setting until the coil temperature has risen enough for the fan to speed up and heat the room.	
Sleep / Night Economy	Night set back function during sleeping hours will adjust the set point temperature by one degree per hour to a maximum of two degrees to compensate for the human body metabolic rate reduction during sleep. This will reduce costs during the night-time cycle.	
Over Heat Protection	The unit will automatically cycle the condenser fan to reduce the head pressure and allow the system to heat in high ambient conditions 7°CDB and above. Please remember these units have been designed to heat from 15°CDB to -5°CDB ambient conditions.	
Compressor Anti Cycle	A random delay has been incorporated in all of our systems of between three and five minutes for compressor protection. This also allows all the compressors to start at random times if all are switched on at once.	

Benson Plasma Air Stream is available as an optional extra.
Please ask your dealer for more information.

Technical Specifications

	Models				
	BENDX-1T-D-104R / RC	BENDX-1T-D-123R / RC	BENDX-1T-D-163R / RC	BENDX-1T-D-128R / RC3	BENDX-1T-D-175R / RC3
	BEN 36 HID / HCU	BEN 42 HID / HCU	BEN 56 HID / HCU	BEN 44 HID / HCU	BEN 60 HID / HCU
	Single Phase			Three Phase	
Cooling Capacity	10.4 kW	12.3 kW	16.4 kW	12.8 kW	17.5 kW
Heating Capacity	10.7 kW	12.4 kW	16.4 kW	13.4 kW	17.8 kW
Energy Efficiency Minimum Energy Performance (MEPs)					
MEPs requirements set by Australian Government	2.5	2.5	2.5	2.75	2.75
Cooling EER (MEPs)	2.63	3.25	3.06	3.14	3.06
Heating COP	2.97	3.56	3.33	3.36	3.52
Star Ratings					
Cooling					
Heating					
Power Consumption Watts					
Cooling	3860	3680	5470	3960	5100
Heating	3290	3420	4660	3680	4700
Normal Running Amps 35C	17	16	22.5	6.9	9.5
Air Circulation l / s	680	790	890	790	960
Operation temperatures	Minus 3°C to 52°C				
Static pressure	76 plus filter static				
Minimum room size*	45m ²	55m ²	55m ²	55m ²	55m ²
Indoor Dimensions W x H x D mm	1180 x 305 x 537	1480 x 305 x 537	1480 x 305 x 537	1480 x 305 x 537	1480 x 305 x 537
Outdoor Dimensions W x H x D mm	970 x 676 x 387	1156 x 970 x 360	1156 x 970 x 360	1156 x 970 x 360	1156 x 970 x 360
Noise Levels (dBa)	56	59	60	59	60
Pipe Sizes					
Discharge	3 / 8	3 / 8	3 / 8	3 / 8	3 / 8
Suction	5 / 8	3 / 4	3 / 4	3 / 4	3 / 4

* Capacities are to Australian Standards AS 3823.2(2007)

* 2.6m Ceilings smallest room sizes to comply to AS 1677 part 1 and 2 1998. Units can be used in smaller rooms - ask your Benson Dealer for more information

Benson Airconditioning

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