

# Where do they make the World's highest performance Active Chilled Beam?



The application of Dadanco's revolutionary Starline nozzle enables the Dadanco Active Chilled Beam to outperform all traditional induction based units in the market. Contact Dadanco for details and how Active Chilled Beam can be successfully applied to your projects.



'Proudly Australian Owned,  
Designed, Manufactured  
and Supported'



**DADANCO**

Breathing Life into Your Building



# Active Chilled Beams



Dadanco Active Chilled Beams incorporate new patented technologies to deliver a breakthrough for higher energy efficiency perimeter and centre zone air conditioning using lower air quantities.

Dadanco Active Chilled Beams provide efficient, effective and whisper-quiet air conditioning for almost all building types.



Dadanco Pty Ltd participates in the ECC programme for Active Chilled Beams.

Check ongoing validity of the certificate: [www.eurovent-certification.com](http://www.eurovent-certification.com)



## General Product Technical Data - ACB

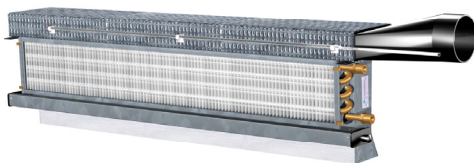
ACB40 600mm Wide 2-Way Discharge Active Chilled Beam			
MODEL	1/2 Tile ACB40-0450	Full Tile ACB40-1050	1-1/2 Tile ACB40-1650
Nominal Grille Face Size:	600 x 600mm	1200 x 600mm	1800 x 600mm
Nominal Active Coil Length:	450mm	1050mm	1650mm
Primary Air Range $\leq 125\text{Pa}$ :	10 ~ 25 L/s	20 ~ 48 L/s	30 ~ 79 L/s
Nominal Cooling Capacity Range:	397 ~ 715 Watts	861 ~ 1616 Watts	978 ~ 2353 Watts
Configuration:	2-Pipe only	2-Pipe or 4-Pipe	2-Pipe or 4-Pipe
ACB50 600mm Wide 1-Way Discharge Perimeter Active Chilled Beam			
MODEL		Full Tile ACB50-1050	1-1/2 Tile ACB50-1650
Nominal Grille Face Size:		1200 x 600mm	1800 x 600mm
Nominal Active Coil Length:		1050mm	1650mm
Primary Air Range $\leq 125\text{Pa}$ :		14 ~ 30 L/s	22 ~ 50 L/s
Nominal Cooling Capacity Range:		670 ~ 1210 Watts	912 ~ 2132 Watts
Configuration:		2-Pipe	2-Pipe
ACB60 300mm Wide 1-Way Discharge Perimeter Active Chilled Beam			
MODEL		ACB60-1100	ACB50-1400
Nominal Grille Face Size:		1200 x 300mm	1500 x 300mm
Nominal Active Coil Length:		1100mm	1400mm
Primary Air Range $\leq 125\text{Pa}$ :		16 ~ 32 L/s	22 ~ 42 L/s
Nominal Cooling Capacity Range:		557 ~ 986 Watts	787 ~ 1340 Watts
Configuration:		2-Pipe	2-Pipe

NOTE: Nominal cooling capacities @ 24°C room air, 12°C primary air, 14°C Entering Secondary Water Temperature & Water  $\Delta T$  of 3°C

For specific selections and designs at operating conditions other than the above, contact Dadanco for selection assistance

### The Benefits

- ✓ Fan power is dramatically reduced. The primary air is typically only 30% of the total air supplied by Dadanco Active Chilled Beams due to the use of efficient induction technology.
- ✓ Active Chilled Beams deliver more cooling capacity using less treated air than any all-air system.
- ✓ Active Chilled Beams offer 2-stage capacity control through control of secondary water flow separate from primary air control.
- ✓ Active Chilled Beams ensure continuous quality air diffusion in the conditioned space due to the constant air volume and air flow patterns created
- ✓ Low noise characteristic
- ✓ Active Chilled Beams require minimal maintenance (No Moving Parts).



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Dadanco CM10 Ceiling Mounted Induction Terminal Units are well suited to hidden active chilled beam applications where the ceiling void is available as a return air plenum.

Dadanco CM10 units provide efficient, effective and whisper-quiet air conditioning for almost all building types.

Equipped with condensate drain tray for high humidity and applications where condensation is a risk.

## General Product Technical Data - CM10

MODEL	Coil Finned Length (mm)	Air Plenum Length (mm)	H = Unit Height (mm)		Unit Width (mm)	Primary Air Flow Range ≤250Pa (L/s) *	Sensible Cooling Capacity Range (W) *
			4 Tube	6 Tube			
CM10.03-0700.--	700	800	305	365	185	10 ~ 29	466 ~ 1071
CM10.03-0800.--	800	900				12 ~ 33	548 ~ 1208
CM10.03-0900.--	900	1000				13 ~ 36	629 ~ 1340
CM10.03-1000.--	1000	1100				15 ~ 41	711 ~ 1503
CM10.03-1100.--	1100	1200				16 ~ 46	715 ~ 1650
CM10.03-1200.--	1200	1300				18 ~ 50	846 ~ 1780
CM10.03-1300.--	1300	1400				20 ~ 53	815 ~ 1905
CM10.03-1400.--	1400	1500				22 ~ 58	950 ~ 2036
CM10.03-1500.--	1500	1600				23 ~ 62	1031 ~ 2162

NOTE: Nominal cooling capacities @ 24°C room air, 12°C primary air, 13°C Secondary Water Temperatures & 0.09 L/s Water Flow  
 \* Minimum primary air & sensible capacity from 4TH unit at 100Pa. Maximum primary air & sensible capacity from 6TH unit ≤250Pa.

For specific selections and designs at operating conditions other than the above, contact Dadanco for selection assistance.

### The Benefits

- ✓ Fan power is dramatically reduced. The primary air is typically only 30% of the total air supplied by Dadanco Active Chilled Beams & Terminal Units due to the use of efficient induction technology.
- ✓ Terminal Units, like Active Chilled Beams deliver more cooling capacity using less treated air than any all-air system.
- ✓ Terminal units offer 2-stage capacity control through control of secondary water flow separate from primary air control.
- ✓ Terminal units are fitted with condensate drain trays for colder secondary water and humid condition applications
- ✓ Terminal units are smaller hideaway units using more conventional ceiling grilles
- ✓ Smaller unit heights fit neatly into tight spatial constraints
- ✓ Low noise characteristic
- ✓ Active Chilled Beams require minimal maintenance (No Moving Parts).

