

### Benefits

The CD3 close control system is suitable for computer rooms, laboratories and standards rooms where the close control of temperature and humidity is extremely important. The units are designed to give the specifier maximum flexibility, the engineer easy access for installation and maintenance and the end user ease of operation. The CD3 units offer large duties from a small footprint and meet the majority of today's close control needs providing air conditioning in both upflow and downflow models using R407C refrigerant. Single or twin circuit indoor units can be attached to the appropriate outdoor condensing unit(s). CD3 upflow package units are manufactured to a pre-determined specification incorporating cooling, heating, humidification and dehumidification facilities.

The units are available in four capacities and three cabinet sizes, manufactured in a powder-painted steel construction with an easy-clean corrosion resistant drain tray and have a washable filter, a de-ice thermostat and a totally enclosed electrical panel.

CD3 configurable units offer the addition of specifically listed options onto a cooling only base unit with a choice of airflow configurations.

For chilled water options in the CD series please contact TEV Limited technical services.



### CD3

### Specification for packaged units

- Microprocessor controls:  
Control tolerance +/- 1°C, +/- 5%RH
- Top air discharge in upflow configuration (front discharge option).
- Class 'O' thermal and acoustic insulation
- Direct drive, double inlet forward curved centrifugal fans available in 2 fan speeds
- Discharge plenum and grille (adjustable deflection grilles are available with plenum options)
- Twin circuit coil option
- Electronically controlled fan speeds
- Two stage electric heating
- Humidification/Dehumidification with electronic control
- Four pole mains isolator
- Alarms: temperature/humidity out of limits, fan fail, CU fail
- Dirty filter indication
- 3 phase - 400volts 50Hz supply voltage (some 1Ph options available)
- Matching condensing units factory charged with R407C



# Technical Information

Direct Expansion Cooling Capacities - kW					
CD3 model	Ambient °C	32°C			
	Room Conditions	22°C/50% RH		24°C/50% RH	
	MCU+/DCU+	Total	Sensible	Total	Sensible
008/1	1x80	7.14	7.14	7.26	7.26
	1x100	9.50	8.68	10.10	8.88
008/2	2x30	7.28	7.28	7.52	7.52
	2x50	10.00	8.88	10.56	9.08
010/1	1x100	10.30	10.30	10.84	10.72
	1x130	11.34	10.88	12.00	11.18
010/2	2x50	10.80	10.68	11.36	10.88
	2x60	11.50	10.98	12.14	11.22
015/1	1x165	13.24	13.16	13.84	13.62
	1x180	15.52	14.26	16.38	14.62
015/2	2x80	13.48	13.36	13.98	13.68
	2x100	18.26	15.46	19.40	15.86
020/1	1x180	16.32	16.24	17.12	16.76
	1x200	18.36	17.26	19.42	17.66
020/2	2x90	17.56	16.92	18.50	17.26
	2x130	21.30	18.56	22.50	18.96

Weights and dimensions (unpacked)							
Model	Height mm	Width mm	Depth mm	Weight kg	Additional Plenum* Height mm	Additional Plenum* Weight kg	Additional Floor Plinth Height mm
008	1165	1230	430	124	430	18	75
010	1165	1380	430	142	430	20	75
015	1165	1380	430	151	430	20	75
020	1165	1580	430	160	430	22	75

\*Plenums supplied as standard with upflow models

Sound pressure levels (dBA)								
Model	Top discharge and front return		Front discharge with plenum and front return		Front discharge and front return		Downflow	
	Min	Max	Min	Max	Min	Max	Min	Max
008	52	67	52	59	47	67	41	53
010	55	67	53	59	50	65	46	54
015	56	65	56	57	50	65	46	54
020	57	68	59	58	52	67	48	56

Sound Pressure Levels (SPL) at 3m distance from the front of the unit in an office installation

Electrical Data and Pipe Sizes						
Model	Circuits	Fan motor rating	Electric Heating Max(at 240V)kW	Connection sizes (DX)		Condensate mm od
				Suction ins od	Liquid ins od	
008/1	single	1 x 0.55	8	1 x 1/2	1 x 3/8	1 x 15
008/2	twin	1 x 0.55	8	2 x 3/8	2 x 3/8	1 x 15
010/1	single	2 x 0.55	10	1 x 3/8	1 x 3/8	1 x 15
010/2	twin	2 x 0.55	10	2 x 1/2	2 x 3/8	1 x 15
015/1	single	2 x 0.55	16	1 x 7/8	1 x 1/2	1 x 15
015/2	twin	2 x 0.55	16	2 x 5/8	2 x 3/8	1 x 15
020/1	single	2 x 0.55	20	1 x 7/8	1 x 1/2	1 x 15
020/2	twin	2 x 0.55	20	2 x 5/8	2 x 3/8	1 x 15

## Options for Configurable Units

- Condensate pump (5m head with high water alarm)
- Fresh air spigot, fan and filter
- Floor Plinth (recommended for floor mounted applications)
- High efficiency filters (BS EN 779 F7)
- Disposable filters (BS EN 779 G3)
- Top ducting spigot
- Sound attenuator section
- Double deflection grille
- Four pole mains isolator
- Auto-change over on alarm and/or time
- Master/Slave configuration
- Thermal Expansion Valve(s)
- Single phase conversion kit (for use when the condensing unit is MCU+ 90 or smaller and electric heating is 8kW or less)

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For full design or technical information on all systems, please refer to the relevant technical manual or contact TEV technical department. We reserve the right to alter designs and specifications at any time without notification.

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Approved to BS EN ISO 14001:2004



Certificate No. EMS 91502

