



United Technologies
turn to the experts

42CETT/CEDD



42DC/DCD



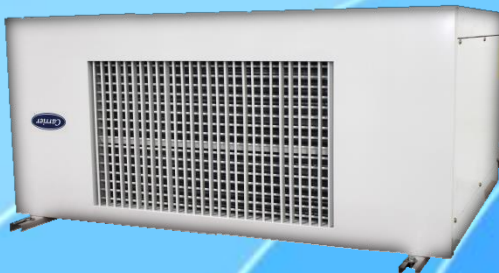
42DE/DED



42CGT/CGD



42DF/DFD



42C/D SERIES [300 to 2000 CFM]

Chilled Water Fan Coil Units for Chiller (Standard ΔT)
& District Cooling Application
Ducted/ Decorative



MS ISO 9001 REG. NO. AR 0239

ABOUT CARRIER

CARRIER: A WORLD LEADER IN HEATING, AIR-CONDITIONING AND REFRIGERATION SOLUTIONS.

MAKING THE WORLD A BETTER PLACE TO LIVE, WORK AND PLAY

Built on Willis Carrier's invention of modern air conditioning in 1902 and a part of UTC Climate, Control & Security, a unit of United Technologies Corp, Carrier is the world leader in heating, air-conditioning and refrigeration solutions. We constantly build upon our history of proven innovation with new products and services that improve global comfort and efficiency.

ABOUT CARRIER INTERNATIONAL SDN BHD (CISB)

Carrier established its first foothold in Malaysia in 1959 when Carrier International (Malaysia) Ltd was formed as a distributor for Carrier air-conditioning equipment and components. The company was subsequently renamed as Carrier International Sdn Bhd (CISB). Today, CISB is one of the largest manufacturers of HVAC products in South-East Asia with products ranges setting the standard for performance, energy efficiency and sustainability.

With state of the art manufacturing technologies, the CISB invests heavily in product design/ development with dedicated engineering team and in house testing laboratories to carry out continuous development in thermal performance and air flow. The factory is ISO 9001:2015 certified which is a guarantee for the quality of our product offering and services provided. The factory also complies with EH&S regulations and takes a responsible approach to environment, health and safety.

As part of UTC group, our products are manufactured with stringent sourcing, manufacturing and quality process that meets Carrier global QA/QC standard and control.

ABOUT 42C/D FAN COIL UNITS

42C/D series fan coil units are manufactured in ISO Certified Carrier Malaysia facility under Carrier Corporation USA. These units are produced and designed with technology transfer from Carrier USA. 42C/D single skin ducted units are EUROVENT CERTIFIED and all other units performance is rated in accordance to EUROVENT standards. Refer below Eurovent website link for details: <http://www.eurovent-certification.com>.

COMPUTER SELECTION

We have made available a computer program to finalize your selections. Please contact your Carrier representative for a computer selection based on your "Quick Selection" plus the design parameters of your application.



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PRODUCT FEATURES

42CETT/CEDD/DC/DCD 4 Row Ducted Unit are Eurovent Certified

If fan coil terminals are the answer to your job requirements, you can't afford to pass over Carrier's versatile and extensive range of fan coil units. With Carrier's 42 series fan coil units, you can select furred-in style, in capacities from 300 to 2,000 cfm. Units are ideal for installations in residential, hotels, motels, apartments, offices, hospitals, schools and other multi-room buildings.

Carrier room fan coil terminals provide unsurpassed year round comfort, with high cooling performance. Carrier 42 series terminal requires very little space and is easy to install. Piping, drain and wiring connections are readily accessible to save installation time and field labor expense.

Forget about expensive ductwork, forget about complex system controls, forget the aggravation and choose Carrier's easy to install room fan coil units – in pipe systems. Opt for quiet. Carrier room fan coil units operate at exceptionally low sound levels. Generous amount of insulation absorbs operating sound and rugged, rigid construction ensures vibration free operation at all fan speeds.

Carrier room fan coil units are economical. Three speed fans deliver just the right amount of conditioned air for your comfort needs at any load. And each individual unit can be shut off when not in use. Permanent Split Capacitor motors deliver peak operating efficiency. In choosing Carrier units, you can match your application with a wide range of custom-designed options and accessories. When you go for Carrier 42 series, the advantages to owner, installer and the room occupants are too great to ignore.

Carrier 42 series fan coils give you design and equipment location flexibility

- Wide range of popular capacities, 300 – 2000 cfm
- Available up to 16 sizes.
- Furred-in units
- Select 4 row coils (42CET/CETT/CED/CEDD)
- Accommodates 2 pipe systems
- Fully insulated and low fan speed means quiet operation
- Draw outside air for odor dilution
- Uses only minimal space

Select Carrier fan coils for easy, low cost installation

- Easy wiring, piping connections
- Mounting holes, slots speed hanging
- Requires no expensive ductwork
- Ideal for new construction or renovation

Save operating costs with Carrier fan coils

- Higher efficiency & reliability: Electronic Commutated Motor (42CET/CETT/CED/CEDD, DC/DCD) - optional
- Individual unit shut-off when not in use
- Efficient, 3 speed centrifugal fans
- Permanent Split Capacitor motors
- High efficiency heat transfer surface

Carrier fan coils save your service and maintenance expense

- Nationwide Carrier service
- Insulated drain pan
- Easy access to components
- Rugged construction
- Factory leak test for coil
- Cleanable filters
- Long life, heavy duty bearings
- Quick clip filter removal for rear side access
- Foldable filter media for larger length filter (rear-bottom removal type)
- Threaded in/ out – water connection



ISO 9001 Certificate



Eurovent Certificate



IQ Net Certificate

MODEL NUMBER NOMENCLATURE

MODEL 42CETT/CEDD

4 2 C E T T 0 3 4 - - 7 0 1 2 5

42 Series
Fan Coil Unit

Model
CET/ CED — Furred-in Ceiling
Model with Plenum

T — Standard Application
D — District Cooling Application

Unit Size (Airflow, cfm)
03 — 300
04 — 400
05 — 500
06 — 600
08 — 800
10 — 1000
12 — 1200
14 — 1400

CISB Code
25 — Standard (AC Motor)

Packing Method
1 — Standard Packing

Development Series
0 — 42CETT/CEDD (AC motor)

Electrical Characteristics
7 — 220/240V-1PH-50Hz

Piping Handling
- — Left
R — Right

- — Opposite End Connection
K — Same End Connection
S — SS304 Drain Pan

Coil
4 — 4 Row Coil

NOTE:

- For optional accessories (ie: Heater), refer factory for correct nomenclature.

MODEL NUMBER NOMENCLATURE

MODEL 42CET/CED (EC MOTOR)

4		2		C		E		T		0		0		3		3		-		-		7		2		1		E		5	
42 Series Fan Coil Unit																				CISB Code E5 — Stepless Thermostat EV — Modulating Thermostat											
Model CE — Furred-in Ceiling Model with Plenum																				Packing Method 1 — Standard Packing											
T — Standard Application D — District Cooling Application																				Development Series 2 — 42CET/CED (EC motor)											
																				Electrical Characteristics 7 — 220/240V-1PH-50Hz											
																				Piping Handling - — Left R — Right											
																				- — Opposite End Connection K — Same End Connection S — SS304 Drain Pan											
Unit Size (Airflow, cfm) 003 — 300 004 — 400 005 — 500 006 — 600 008 — 800 010 — 1000 012 — 1200 014 — 1400																				Coil 3 — 3 Row Coil 4 — 4 Row Coil											

NOTE:
 • For optional accessories (ie: Heater), refer factory for correct nomenclature.

MODEL NUMBER NOMENCLATURE

MODEL 42CGT/CGD

4 2 C G T 0 0 3 4 - - 7 0 1 2 5

42 Series
Fan Coil Unit

Model
CG — Cabinet Model

T — Standard Application
D — District Cooling Application

Unit Size (Airflow, cfm)

003 — 300
004 — 400
005 — 500
006 — 600
008 — 800
010 — 1000
012 — 1200

CISB Code
25 — AC Motor

Packing Method
1— Standard Packing

Development Series
0 — 42CGT/ 42CGD

Electrical Characteristics
7 — 220/240V-1Ph-50Hz

Piping Handling
- — Left
R — Right
- — Opposite End Connection
S — SS304 Drain Pan

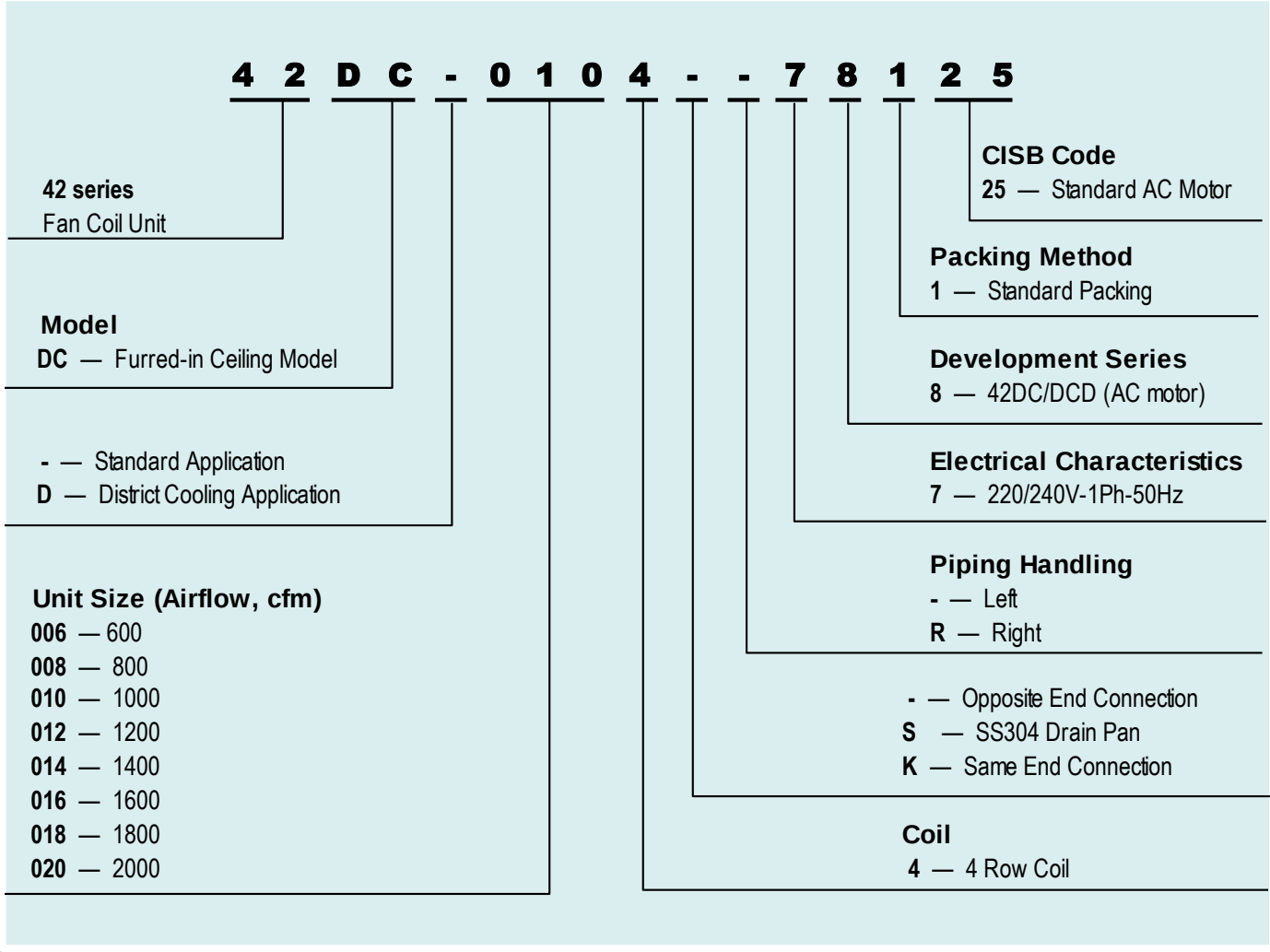
Coil
4 — 4 Row Coil

NOTE:

- For optional accessories (ie: Heater), refer factory for correct nomenclature.

MODEL NUMBER NOMENCLATURE

MODEL 42DC/DCD



NOTE:

- For optional accessories (ie: Heater), refer factory for correct nomenclature.

MODEL NUMBER NOMENCLATURE

MODEL 42DC/DCD (EC MOTOR)

4 2 D C - 0 1 0 4 - - 7 3 1 E 5

42 series
Fan Coil Unit

Model
DC — Furred-in Ceiling Model

- — Standard Application
D — District Cooling Application

Unit Size (Airflow, cfm)
006 — 600
008 — 800
010 — 1000
012 — 1200
014 — 1400
016 — 1600
018 — 1800
020 — 2000

CISB Code
E5 — Stepless Thermostat
EV — Modulating Thermostat

Packing Method
1 — Standard Packing

Development Series
3 — 42DC/DCD (EC motor)

Electrical Characteristics
7 — 220/240V-1Ph-50Hz

Piping Handling
- — Left
R — Right

- — Opposite End Connection
S — SS304 Drain Pan
K — Same End Connection

Coil
4 — 4 Row Coil

NOTE:
• For optional accessories (ie: Heater), refer factory for correct nomenclature.

MODEL NUMBER NOMENCLATURE

MODEL 42DE/DED/DF/DFD

4 2 D E - 0 1 0 4 - - 7 4 1 2 5											
42 series Fan Coil Unit								CISB Code 25 — Standard AC Motor			
Model								Packing Method 1 — Standard Packing			
DE — Ceiling Model with Painted Galvanized Full Casing DF — Exposed Ceiling Cabinet Model								Development Series 4 — 42DE/DED (AC motor) 42DF/DFD (AC motor)			
- — Standard Application D — District Cooling Application								Electrical Characteristics 7 — 220/240V-1Ph-50Hz			
Unit Size (Airflow, cfm)								Piping Handling - — Left R — Right			
006 — 600 008 — 800 010 — 1000 012 — 1200 014 — 1400 016 — 1600 018 — 1800 020 — 2000								- — Opposite End Connection S — SS304 Drain Pan			
								Coil 4 — 4 Row Coil			

NOTE:

- For optional accessories (ie: Heater), refer factory for correct nomenclature.

TECHNICAL DATA (cont')

42CETT Ceiling Suspended Ducted Unit with Plenum- Standard AT 4 Rows

PERFORMANCE			MODEL: 42CETT							
			003	004	005	006	008	010	012	014
Air Volume	High	CFM	247	316	438	506	685	811	905	1084
		ℓ/s	117	150	207	239	324	383	428	512
Cooling Capacity (Fluid)*		kW	2.2	2.6	3.8	4.7	5.6	6.8	7.9	10.3
		Btu/hr	7,506	8,872	12,967	16,038	19,108	23,203	26,956	35,146
Motor power output		W	28	35	48	60	40W(x2)	50W(x2)	63W(x2)	52W (x3)
Motor current		Amp	- Refer to page 38 -							
Sound Power at outlet**	High	dB(A)	36.7	38.9	39.6	40.5	42.1	42.3	42.5	44.0
	Med		35.1	37.7	37.5	38.4	40.1	40.3	40.8	42.0
	Low		33.3	36.1	35.6	36.5	38.4	38.4	39.4	39.9
Water Flow		ℓ/s	0.13	0.15	0.22	0.27	0.31	0.38	0.45	0.58
Water Pressure Drop		kPa	11.2	16.3	21.8	12.7	18.5	27.3	35.7	43.3
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Permanent Split Capacitor							
Coil	No. of Row		4							
	Working Pressure		1.72 MPa							
	Face Area (m²)		0.13	0.15	0.17	0.21	0.27	0.29	0.35	0.40
	Water Volume (ℓ)		0.9	1.0	1.1	1.4	1.7	1.9	2.2	2.6
Connections	Water In-Out/ Material		3/4" FPT (BSP)/ Brass (Threaded Connections)							
	Condensate Drain/ Material		3/4" MPT (BSP)/ GI Steel (Threaded Connections)							
Cabinet Size	Height	mm	242							
	Width	mm	558							
	Length	mm	789	909	989	1,189	1,429	1,549	1,789	2,027
Casing Material / Thickness			Galvanized Steel/ Up to 1.0mm							
Casing Treatment / External Finish			Galvanized Steel							
Net Weight		kg	17.8	20.5	21.7	23.7	33.0	36.7	42.0	49.1

NOTE:

- Based on motor at high speed, standard air and dry coil operation; 5.6°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 7.2°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

Performance Assurance
Eurovent Certified



TECHNICAL DATA (cont')

42CEDD Ceiling Suspended Ducted Unit with Plenum- District Cooling 4 Rows

PERFORMANCE			MODEL: 42CEDD (District Cooling Application)							
			003	004	005	006	008	010	012	014
Air Volume	High	CFM	248	316	438	506	685	811	905	1085
		ℓ/s	118	150	207	239	324	383	428	513
Cooling Capacity (Fluid)*		kW	2.0	2.4	2.8	3.3	5.0	6.8	7.2	7.9
		Btu/hr	6,830	8,196	9,563	11,270	17,076	23,223	24,589	26,980
Motor nominal power output		W	28	35	48	60	40W (x2)	50W (x2)	63W (x2)	52W (x3)
Motor current		Amp	- Refer to page 38 -							
Sound Pressure **	High	dB(A)	36.7	38.9	39.6	40.5	42.1	42.3	42.5	44.0
	Med		35.1	37.7	37.5	38.4	40.1	40.3	40.8	42.0
	Low		33.3	36.1	35.6	36.5	38.4	38.4	39.4	39.9
Water Flow		ℓ/s	0.05	0.07	0.07	0.09	0.13	0.18	0.19	0.21
Water Pressure Drop		kPa	4.2	6.1	4.8	5.1	11.5	18.9	5.4	11.9
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Permanent Split Capacitor							
Coil	No. of Row		4							
	Working Pressure		1.72 Mpa							
	Face Area (m²)		0.13	0.15	0.17	0.21	0.27	0.29	0.35	0.40
	Water Volume (ℓ)		0.9	1.0	1.1	1.4	1.7	1.9	2.2	2.6
Connections	Water In-Out/ Material		3/4" FPT (BSP)/ Brass (Threaded Connections)							
	Condensate Drain/ Material		3/4" MPT (BSP)/ GI Steel (Threaded Connections)							
Cabinet Size	Height	mm	242							
	Width	mm	558							
	Length	mm	789	909	989	1,189	1,429	1,549	1,789	2,027
Casing Material / Thickness			Galvanized Steel/ Up to 1.0mm							
Casing Treatment / External Finish			Galvanized Steel							
Net Weight		kg	17.8	20.5	21.7	23.7	33.0	36.7	42.0	49.1

NOTE:

* Based on motor at high speed, standard air and dry coil operation; 8.9°C water temperature rise; entering air temperature 24.4°C DB; 14.4°C WB; Entering water temperature 5.5°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

Performance Assurance
Eurovent Certified



TECHNICAL DATA (cont')

42CET Ceiling Suspended Ducted Unit with Plenum- Standard ΔT 3 Rows (EC Motor)

PERFORMANCE			MODEL: 42CET						
			003	004	005	006	008	010	012
Nominal Air Volume	High	CFM	260	333	432	500	729	815	1010
		ℓ/s	123	158	204	236	345	385	477
Cooling Capacity (Fluid)*		kW	2.2	2.9	3.2	3.8	5.4	6.0	7.3
		Btu/hr	7,507	9,896	10,919	12,967	18,426	20,473	24,909
Motor nominal power output		W	32	45	70	72	55 (x2)	70 (x2)	72 (x2)
Motor current		Amp	Refer to factory for EC motor data						
Sound Pressure **	High	dB(A)	37.4	37.9	39.8	41.7	42.2	43.5	44.9
	Med		34.9	35.8	37.4	38.9	40.1	41.7	43.0
	Low		33.4	33.9	35.2	37.2	37.4	39.2	39.6
Water Flow		ℓ/s	0.09	0.12	0.14	0.16	0.23	0.26	0.31
Water Pressure Drop		kPa	10.4	19.1	12.4	12.2	12.3	13.4	16.4
Fan Type			Centrifugal Forward-curved blades						
Motor Type			Electronically Commutated motor						
Coil	No. of Row		3						
	Working Pressure		1.72 MPa						
	Face Area (m²)		0.123	0.149	0.167	0.21	0.262	0.288	0.339
	Water Volume (ℓ)		0.9	1.0	1.1	1.4	1.7	1.9	2.2
Connections	Water In-Out/ Material		3/4" FPT (BSP)/ Brass (Threaded Connections)						
	Condensate Drain/ Material		3/4" MPT (BSP)/ GI Steel (Threaded Connections)						
Cabinet Size	Height	mm	242						
	Width	mm	558						
	Length	mm	789	909	989	1,189	1,429	1,549	1,789
Casing Material / Thickness			Galvanized Steel/ Up to 1.0mm						
Casing Treatment / External Finish			Galvanized Steel						
Net Weight		kg	17.8	20.5	21.7	23.7	33.0	36.7	42.0

NOTE:

* Based on motor at high speed, standard air and dry coil operation; 5.6°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 7.2°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

TECHNICAL DATA (cont')

42CET Ceiling Suspended Ducted Unit with Plenum- Standard ΔT 4 Rows (EC Motor)

PERFORMANCE			MODEL: 42CET						
			003	004	005	006	008	010	012
Nominal Air Volume	High	CFM	258	328	410	486	685	783	943
		ℓ/s	122	155	194	230	324	370	446
Cooling Capacity (Fluid)*		kW	2.2	2.9	3.3	3.8	5.6	6.4	8.5
		Btu/hr	7,507	9,896	11,261	12,967	19,791	21,838	29,004
Motor nominal power output		W	32	45	70	72	55 (x2)	70 (x2)	72 (x2)
Motor current		Amp	Refer to factory for EC motor data						
Sound Pressure **	High	dB(A)	37.1	37.4	39.1	40.4	41.3	43.1	43.4
	Med		34.6	34.9	35.7	38.8	38.8	40.8	39.9
	Low		33.0	32.1	32.4	35.4	34.6	37.2	37.6
Water Flow		ℓ/s	0.11	0.12	0.14	0.16	0.24	0.27	0.36
Water Pressure Drop		kPa	7.2	12.5	9.9	5.1	9.9	15.0	17.4
Fan Type			Centrifugal Forward-curved blades						
Motor Type			Electronically Commutated motor						
Coil	No. of Row		4						
	Working Pressure		1.72 MPa						
	Face Area (m²)		0.123	0.149	0.167	0.21	0.262	0.288	0.339
	Water Volume (ℓ)		0.9	1.0	1.1	1.4	1.7	1.9	2.2
Connections	Water In-Out/ Material		3/4" FPT (BSP)/ Brass (Threaded Connections)						
	Condensate Drain/ Material		3/4" MPT (BSP)/ GI Steel (Threaded Connections)						
Cabinet Size	Height	mm	242						
	Width	mm	558						
	Length	mm	789	909	989	1,189	1,429	1,549	1,789
Casing Material / Thickness			Galvanized Steel/ Up to 1.0mm						
Casing Treatment / External Finish			Galvanized Steel						
Net Weight		kg	17.8	20.5	21.7	23.7	33.0	36.7	42.0

NOTE:

* Based on motor at high speed, standard air and dry coil operation; 5.6°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 7.2°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

TECHNICAL DATA (cont')

42CED Ceiling Suspended Ducted Unit with Plenum- District Cooling 4 Rows (EC Motor)

PERFORMANCE			MODEL: 42CED (District Cooling Application)						
			003	004	005	006	008	010	012
Nominal Air Volume	High	CFM	258	328	410	486	716	783	943
		ℓ/s	121	155	194	230	338	370	446
Cooling Capacity (Fluid)*		kW	2.5	3.1	3.5	3.9	5.6	6.3	7.6
		Btu/hr	8,530	10,578	11,943	13,307	19,108	21,496	25,933
Motor nominal power output		W	32	45	70	72	55 (x2)	70 (x2)	72 (x2)
Motor current		Amp	Refer to factory for EC motor data						
Sound Pressure **	High	dB(A)	37.1	37.4	39.1	40.4	41.3	43.1	43.4
	Med		34.6	34.9	35.7	38.8	38.8	40.8	39.9
	Low		33.0	32.1	32.4	35.4	34.6	37.2	37.6
Water Flow		ℓ/s	0.07	0.08	0.09	0.10	0.15	0.17	0.20
Water Pressure Drop		kPa	5.9	11.4	6.8	8.0	20.2	28.1	9.9
Fan Type			Centrifugal Forward-curved blades						
Motor Type			Electronically Commutated motor						
Coil	No. of Row		4						
	Working Pressure		1.72 Mpa						
	Face Area (m²)		0.123	0.149	0.167	0.21	0.262	0.288	0.339
	Water Volume (ℓ)		0.9	1.0	1.1	1.4	1.7	1.9	2.2
Connections	Water In-Out/ Material		3/4” FPT (BSP)/ Brass (Threaded Connections)						
	Condensate Drain/ Material		3/4” MPT (BSP)/ GI Steel (Threaded Connections)						
Cabinet Size	Height	mm	242						
	Width	mm	558						
	Length	mm	789	909	989	1,189	1,429	1,549	1,789
Casing Material / Thickness			Galvanized Steel/ Up to 1.0mm						
Casing Treatment / External Finish			Galvanized Steel						
Net Weight		kg	17.8	20.5	21.7	23.7	33.0	36.7	42.0

NOTE:

* Based on motor at high speed, standard air and dry coil operation; 8.9°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 5.5°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

TECHNICAL DATA (cont')

42CGT Ceiling Suspended Decorative Cabinet Unit with Plenum- Standard AT 4 Rows

PERFORMANCE			MODEL: 42CGT						
			003	004	005	006	008	010	012
Air Volume	High	CFM	206	283	337	390	503	684	826
		ℓ/s	98	134	160	185	238	323	390
Cooling Capacity (Fluid)*		kW	1.8	2.7	3.3	3.4	4.7	6.6	7.8
		Btu/hr	6,142	9,213	11,261	11,602	16,038	22,521	26,615
Motor nominal power output		W	35	48	68	75	58 (x2)	75 (x2)	78 (x3)
Motor current		Amp	- Refer to page 39 -						
Sound Pressure **	High	dB(A)	44.3	43.6	44.5	46.0	49.1	49.5	50.1
	Med		42.3	41.5	41.7	41.0	45.5	45.6	48.4
	Low		40.2	39.0	38.6	35.5	41.8	40.2	44.3
Water Flow		ℓ/s	0.08	0.11	0.14	0.14	0.20	0.28	0.33
Water Pressure Drop		kPa	4.1	8.8	18.6	2.8	8.3	18.3	20.9
Fan Type			Centrifugal Forward-curved blades						
Motor Type			Permanent Split Capacitor						
Coil	No. of Row		4						
	Working Pressure		1.72 MPa						
	Face Area (m²)		0.123	0.149	0.167	0.21	0.262	0.288	0.339
	Water Volume (ℓ)		0.9	1.0	1.1	1.4	1.7	1.9	2.2
Connections	In-Out (Sweat)/ Material		3/4”/ Copper (Non-Threaded Connections)						
	Condensate Drain/ Material		7/8” PVC Flexible pipe (Non-Threaded Connections)						
Cabinet Size	Height	mm	310						
	Width	mm	582						
	Length	mm	1,030	1,150	1,230	1,350	1,670	2,030	2,270
Casing Material/ Thickness			Galvanized Steel/ Up to 1.0 mm						
Casing Treatment/ External Finish			Powder Painted/ Morning Mist Equivalent to RAL9010						
Net Weight		kg	40.0	45.0	47.0	51.0	65.0	80.0	91.0

NOTE:

* Based on motor at high speed, standard air and wet coil operation; 5.6°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 7.2°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

TECHNICAL DATA (cont')

42CGD Ceiling Suspended Decorative Cabinet Unit with Plenum- District Cooling 4 Rows

PERFORMANCE			MODEL: 42CGD (District Cooling Application)						
			003	004	005	006	008	010	012
Air Volume	High	CFM	206	283	337	390	503	684	826
		ℓ/s	98	134	160	185	238	323	390
Cooling Capacity (Fluid)*		kW	1.7	2.4	2.8	3.2	4.2	5.8	6.6
		Btu/hr	5,801	8,190	9,554	10,919	14,331	19,791	22,521
Motor nominal power output		W	35	48	68	75	58 (x2)	75 (x2)	78 (x3)
Motor current		Amp	- Refer to page 39 -						
Sound Pressure **	High	dB(A)	44.3	43.6	44.5	46.0	49.1	49.5	50.1
	Med		42.3	41.5	41.7	41.0	45.5	45.6	48.4
	Low		40.2	39.0	38.6	35.5	41.8	40.2	44.3
Water Flow		ℓ/s	0.09	0.12	0.15	0.17	0.22	0.30	0.35
Water Pressure Drop		kPa	21.4	41.5	59.5	20.4	51.9	43.8	43.8
Fan Type			Centrifugal Forward-curved blades						
Motor Type			Permanent Split Capacitor						
Coil	No. of Row		4						
	Working Pressure		1.72 Mpa						
	Face Area (m²)		0.123	0.149	0.167	0.21	0.262	0.288	0.339
	Water Volume (ℓ)		0.9	1.0	1.1	1.4	1.7	1.9	2.2
Connections	In-Out (Sweat)/ Material		3/4" / Copper (Non-Threaded Connections)						
	Condensate Drain/ Material		7/8" / PVC Flexible pipe (Non-Threaded Connections)						
Cabinet Size	Height	mm	310						
	Width	mm	582						
	Length	mm	1,030	1,150	1,230	1,350	1,670	2,030	2,270
Casing Material/ Thickness			Galvanized Steel/ Up to 1.0 mm						
Casing Treatment/ External Finish			Powder Painted/ Morning Mist Equivalent to RAL9010						
Net Weight		kg	40.0	45.0	47.0	51.0	65.0	80.0	91.0

NOTE:

* Based on motor at high speed, standard air and wet coil operation; 8.9°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 5.5°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

TECHNICAL DATA (cont')

42DC Ceiling Suspended Ducted Unit with Plenum- Standard AT 4 Rows

PERFORMANCE			MODEL: 42DC							
			006	008	010	012	014	016	018	020
Air Volume	High	CFM	674	792	1061	1209	1616	1787	1929	2028
		ℓ/s	319	374	501	571	763	844	911	958
Cooling Capacity (Fluid)*		kW	4.6	5.7	6.9	8.0	10.7	12.2	13.8	14.9
		Btu/hr	15,696	19,449	23,544	27,298	36,510	41,629	47,088	50,841
Motor nominal power output		W	120		200	120 (x2)	300	450		
Motor current		Amp	- Refer to page 40 -							
Sound Pressure **	High	dB(A)	40.3	42.0	48.4	47.2	49.2	48.6	48.9	49.7
	Med		38.3	38.9	44.8	43.1	46.4	46.9	47.6	48.1
	Low		35.5	36.5	38.6	39.8	44.6	44.8	44.7	45.6
Water Flow		ℓ/s	0.11	0.14	0.15	0.18	0.25	0.28	0.33	0.36
Water Pressure Drop		kPa	15.0	19.9	12.3	14.9	15.5	15.0	20.5	23.3
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Permanent Split Capacitor							
Coil	No. of Row		4							
	Working Pressure		1.72 MPa							
	Face Area (m²)		0.148	0.197	0.237	0.287	0.336	0.385	0.434	0.474
	Water Volume (ℓ)		1.1	1.4	1.6	2.0	2.3	2.6	2.9	3.2
Connections	In-Out (Female BSP)/ Material		3/4"/ Brass (Threaded Connections)				1"/ Brass (Threaded Connections)			
	Condensate Drain/ Material		7/8"/ GI Steel (Threaded Connections)							
Cabinet Size	Height	mm	420							
	Width	mm	764							
	Length	mm	587	714	817	942	1,070	1,197	1,323	1,425
Casing Material/ Thickness			Galvanized Steel/ Up to 1.0mm							
Casing Treatment/ External Finish			Galvanized Steel							
Net Weight		kg	29.0	35.0	39.0	51.0	52.0	58.0	61.0	63.0

NOTE:

* Based on motor at high speed, standard air and wet coil operation; 5.6°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 7.2°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

Performance Assurance
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TECHNICAL DATA (cont')

42DC Ceiling Suspended Ducted Unit with Plenum- Standard AT 4 Rows (EC Motor)

PERFORMANCE			MODEL: 42DC							
			006	008	010	012	014	016	018	020
Air Volume	High	CFM	707	788	1088	1206	1591	1800	1941	2019
		ℓ/s	334	372	514	570	751	850	917	953
Cooling Capacity (Fluid)*		kW	4.8	5.9	7.0	7.9	10.7	12.4	14.3	15.4
		Btu/hr	16,379	20,132	23,885	26,956	36,510	42,311	48,794	52,547
Motor nominal power output		W	120		200	120 (x2)	300	450		
Motor current		Amp	Refer to factory for EC motor data							
Sound Pressure **	High	dB(A)	40.3	42.0	48.4	47.2	49.2	48.6	48.9	49.7
	Med		38.3	38.9	44.8	43.1	46.4	46.9	47.6	48.1
	Low		35.5	36.5	38.6	39.8	44.6	44.8	44.7	45.6
Water Flow		ℓ/s	0.16	0.19	0.30	0.26	0.35	0.41	0.47	0.50
Water Pressure Drop		kPa	9.7	12.3	12.8	8.7	9.2	9.2	12.9	14.6
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Electronically Commutated motor							
Coil	No. of Row		4							
	Working Pressure		1.72 MPa							
	Face Area (m²)		0.148	0.197	0.237	0.287	0.336	0.385	0.434	0.474
	Water Volume (ℓ)		1.1	1.4	1.6	2.0	2.3	2.6	2.9	3.2
Connections	In-Out (Female BSP)/ Material		3/4"/ Brass (Threaded Connections)				1"/ Brass (Threaded Connections)			
	Condensate Drain/ Material		7/8"/ GI Steel (Threaded Connections)							
Cabinet Size	Height	mm	420							
	Width	mm	764							
	Length	mm	587	714	817	942	1,070	1,197	1,323	1,425
Casing Material/ Thickness			Galvanized Steel/ Up to 1.0mm							
Casing Treatment/ External Finish			Galvanized Steel							
Net Weight		kg	29.0	35.0	39.0	51.0	52.0	58.0	61.0	63.0

NOTE:

* Based on motor at high speed, standard air and wet coil operation; 5.6°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 7.2°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

TECHNICAL DATA (cont')

42DCD Ceiling Suspended Ducted Unit with Plenum- District Cooling 4 Rows

PERFORMANCE			MODEL: 42DCD (District Cooling Application)							
			006	008	010	012	014	016	018	020
Air Volume	High	CFM	674	792	1061	1209	1616	1787	1929	2028
		ℓ/s	319	375	501	571	763	844	911	958
Cooling Capacity (Fluid)*		kW	5.0	5.6	7.1	8.6	10.6	11.7	12.9	13.7
		Btu/hr	17,061	19,108	24,227	29,345	36,169	39,923	44,017	46,747
Motor nominal power output		W	120		200	120 (x2)	300	450		
Motor current		Amp	- Refer to page 40 -							
Sound Pressure **	High	dB(A)	40.3	42.0	48.4	47.2	49.2	48.6	48.9	49.7
	Med		38.3	38.9	44.8	43.1	46.4	46.9	47.6	48.1
	Low		35.5	36.5	38.6	39.8	44.6	44.8	44.7	45.6
Water Flow		ℓ/s	0.13	0.15	0.19	0.23	0.28	0.31	0.34	0.37
Water Pressure Drop		kPa	28.4	13.7	14.3	22.3	12.4	19.0	16.8	18.3
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Permanent Split Capacitor							
Coil	No. of Row		4							
	Working Pressure		1.72 MPa							
	Face Area (m²)		0.148	0.197	0.237	0.287	0.336	0.385	0.434	0.474
	Water Volume (ℓ)		1.1	1.4	1.6	2.0	2.3	2.6	2.9	3.2
Connections	In-Out (Female BSP)/ Material		3/4"/ Brass (Threaded Connections)				1"/ Brass (Threaded Connections)			
	Condensate Drain/ Material		7/8"/ GI Steel (Threaded Connections)							
Cabinet Size	Height	mm	420							
	Width	mm	764							
	Length	mm	587	714	817	942	1,070	1,197	1,323	1,425
Casing Material/ Thickness			Galvanized Steel/ Up to 1.0mm							
Casing Treatment/ External Finish			Galvanized Steel							
Net Weight		kg	29.0	35.0	39.0	51.0	52.0	58.0	61.0	63.0

NOTE:

* Based on motor at high speed, standard air and wet coil operation; 8.9°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 5.5°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

Performance Assurance
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TECHNICAL DATA (cont')

42DCD Ceiling Suspended Ducted Unit with Plenum- Standard ΔT 4 Rows (EC Motor)

PERFORMANCE			MODEL: 42DC							
			006	008	010	012	014	016	018	020
Air Volume	High	CFM	707	788	1088	1206	1591	1800	1941	2019
		ℓ/s	334	372	514	570	751	850	917	953
Cooling Capacity (Fluid)*		kW	5.1	5.6	7.2	8.6	10.5	12.9	14.1	13.7
		Btu/hr	17,402	19,108	24,568	29,345	35,828	44,017	48,112	46,747
Motor nominal power output		W	120	200		120 (x2)	300	450		
Motor current		Amp	Refer to factory for EC motor data							
Sound Pressure **	High	dB(A)	40.3	42.0	48.4	47.2	49.2	48.6	48.9	49.7
	Med		38.3	38.9	44.8	43.1	46.4	46.9	47.6	48.1
	Low		35.5	36.5	38.6	39.8	44.6	44.8	44.7	45.6
Water Flow		ℓ/s	0.14	0.15	0.19	0.23	0.28	0.35	0.60	0.37
Water Pressure Drop		kPa	30.2	13.6	14.7	22.2	12.1	16.9	47.0	18.2
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Electronically Communicated motor							
Coil	No. of Row		4							
	Working Pressure		1.72 MPa							
	Face Area (m²)		0.148	0.197	0.237	0.287	0.336	0.385	0.434	0.474
	Water Volume (ℓ)		1.1	1.4	1.6	2.0	2.3	2.6	2.9	3.2
Connections	In-Out (Female BSP)/ Material		3/4"/ Brass (Threaded Connections)				1"/ Brass (Threaded Connections)			
	Condensate Drain/ Material		7/8"/ GI Steel (Threaded Connections)							
Cabinet Size	Height	mm	420							
	Width	mm	764							
	Length	mm	587	714	817	942	1,070	1,197	1,323	1,425
Casing Material/ Thickness			Galvanized Steel/ Up to 1.0mm							
Casing Treatment/ External Finish			Galvanized Steel							
Net Weight		kg	29.0	35.0	39.0	51.0	52.0	58.0	61.0	63.0

NOTE:

* Based on motor at high speed, standard air and wet coil operation; 8.9°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 5.5°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

TECHNICAL DATA (cont')

42DF Ceiling Suspended Decorative Cabinet Unit with Plenum- Standard AT 4 Rows

PERFORMANCE			MODEL: 42DF							
			006	008	010	012	014	016	018	020
Air Volume	High	CFM	415	532	667	842	976	1116	1445	1710
		ℓ/s	196	252	315	398	461	527	682	808
Cooling Capacity (Fluid)*		kW	3.3	4.6	5.8	7.1	8.4	9.7	12.2	14.2
		Btu/hr	11,261	15,696	19,791	24,227	28,662	33,098	41,629	48,453
Motor nominal power output		W	80		120	80 (x2)		120 (x2)		200 (x2)
Motor current		Amp	- Refer to page 41 -							
Sound Pressure **	High	dB(A)	44.1	41.1	47.6	47.6	47.6	54.3	51.8	52.1
	Med		41.2	38.5	45.5	44.5	44.8	52.8	49.5	49.4
	Low		37.6	34.8	40.6	42.4	41.0	47.6	45.3	45.2
Water Flow		ℓ/s	0.14	0.19	0.24	0.30	0.36	0.41	0.52	0.61
Water Pressure Drop		kPa	2.5	5.9	10.7	18.3	18.4	26.1	16.5	23.1
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Permanent Split Capacitor							
Coil	No. of Row		4							
	Working Pressure		1.72 MPa							
	Face Area (m²)		0.148	0.197	0.237	0.287	0.336	0.385	0.434	0.474
	Water Volume (ℓ)		1.1	1.4	1.6	2.0	2.3	2.6	2.6	3.2
Connections	In-Out (Sweat)/ Material		5/8" / Copper		7/8" / Copper			1 1/8" / Copper		
	Condensate Drain/ Material		7/8" / PVC Flexible pipe (Non-Threaded Connections)							
Cabinet Size	Height	mm	460							
	Width	Mm	965							
	Length	mm	788	916	1,017	1,144	1,271	1,398	1,525	1,627
Casing Material/ Thickness			Galvanized Steel/ Up to 1.0mm							
Casing Treatment/ External Finish			Powder Painted/ Morning Mist Equivalent to RAL9010							
Net Weight		kg	50.0	58.0	62.0	75.0	80.0	87.0	93.0	100.0

NOTE:

* Based on motor at high speed, standard air and wet coil operation; 5.6°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 7.2°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

TECHNICAL DATA (cont')

42DFD Ceiling Suspended Decorative Cabinet Unit with Plenum- District Cooling 4 Rows

PERFORMANCE			MODEL: 42DFD (District Cooling Application)							
			006	008	010	012	014	016	018	020
Air Volume	High	CFM	509	651	824	1035	1186	1358	1643	1848
		ℓ/s	241	308	389	489	560	641	776	873
Cooling Capacity (Fluid)*		kW	4.5	6.1	7.4	8.9	10.4	12.1	14.3	15.7
		Btu/hr	15,355	20,815	25,250	30,369	35,487	41,287	48,794	53,571
Motor nominal power output		W	80		120	80 (x2)		120 (x2)		200 (x2)
Motor current		Amp	- Refer to page 41 -							
Sound Pressure **	High	dB(A)	44.1	41.1	47.6	47.6	47.6	54.3	51.8	52.1
	Med		41.2	38.5	45.5	44.5	44.8	52.8	49.5	49.4
	Low		37.6	34.8	40.6	42.4	41.0	47.6	45.3	45.2
Water Flow		ℓ/s	0.19	0.26	0.32	0.38	0.44	0.52	0.61	0.67
Water Pressure Drop		kPa	29.3	60.7	98.9	38.4	58.0	84.9	125.4	96.7
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Permanent Split Capacitor							
Coil	No. of Row		4							
	Working Pressure		1.72 Mpa							
	Face Area (m²)		0.148	0.197	0.237	0.287	0.336	0.385	0.434	0.474
	Water Volume (ℓ)		1.1	1.4	1.6	2.0	2.3	2.6	2.9	3.2
Connections	In-Out (Sweat)/ Material		5/8" / Copper		7/8" / Copper			1 1/8" / Copper		
	Condensate Drain/ Material		7/8" / PVC Flexible pipe (Non-Threaded Connections)							
Cabinet Size	Height	mm	460							
	Width	mm	965							
	Length	mm	788	916	1,017	1,144	1,271	1,398	1,525	1,627
Casing Material/ Thickness			Galvanized Steel/ Up to 1.0mm							
Casing Treatment/ External Finish			Powder Painted/ Morning Mist Equivalent to RAL9010							
Net Weight		kg	50.0	58.0	62.0	75.0	80.0	87.0	93.0	100.0

NOTE:

* Based on motor at high speed, standard air and wet coil operation; 8.9°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 5.5°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

TECHNICAL DATA (cont')

42DE Ceiling Suspended Ducted Double Skin Unit with Plenum- Standard AT 4 Rows

PERFORMANCE			MODEL: 42DE							
			006	008	010	012	014	016	018	020
Air Volume	High	CFM	642	742	964	1256	1579	1746	1971	1981
		ℓ/s	303	351	455	593	746	825	931	935
Cooling Capacity (Fluid)*		kW	4.4	5.9	7.5	9.2	11.7	13.1	15.1	15.7
		Btu/hr	15,014	20,132	25,592	31,392	39,923	44,700	51,523	53,571
Motor nominal power output		W	120		200	120 (x2)	300	450		
Motor current		Amp	- Refer to page 40 -							
Sound Pressure **	High	dB(A)	44.1	41.1	47.6	47.6	47.6	54.3	51.8	52.1
	Med		41.2	38.5	45.5	44.5	44.8	52.8	49.5	49.4
	Low		37.6	34.8	40.6	42.4	41.0	47.6	45.3	45.2
Water Flow		ℓ/s	0.19	0.25	0.32	0.39	0.50	0.56	0.64	0.67
Water Pressure Drop		kPa	4.6	10.3	17.9	30.3	33.9	46.5	25.0	28.7
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Permanent Split Capacitor							
Coil	No. of Row		4							
	Working Pressure		1.72 MPa							
	Face Area (m²)		0.148	0.197	0.237	0.287	0.336	0.385	0.434	0.474
	Water Volume (ℓ)		1.1	1.4	1.6	2.0	2.3	2.6	2.6	3.2
Connections	In-Out (Sweat)/ Material		5/8"/ Copper		7/8"/ Copper			1 1/8"/ Copper		
	Condensate Drain/ Material		7/8" / PVC Flexible pipe (Non-Threaded Connections)							
Cabinet Size	Height	mm	460							
	Width	mm	965							
	Length	mm	788	916	1,017	1,144	1,271	1,398	1,525	1,627
Casing Material/ Thickness			Galvanized Steel/ Up to 1.0mm							
Casing Treatment/ External Finish			Powder Painted/ Morning Mist Equivalent to RAL9010							
Net Weight		kg	67.0	71.0	79.0	92.0	100.0	105.0	114.0	122.0

NOTE:

* Based on motor at high speed, standard air and wet coil operation; 5.6°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 7.2°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

TECHNICAL DATA (cont')

42DED Ceiling Suspended Ducted Double Skin Unit with Plenum- District Cooling 4 Rows

PERFORMANCE			MODEL: 42DED (District Cooling Application)							
			006	008	010	012	014	016	018	020
Air Volume	High	CFM	642	742	964	1256	1579	1746	1971	1981
		ℓ/s	303	351	455	593	746	825	931	935
Cooling Capacity (Fluid)*		kW	4.4	6.5	8.0	9.5	12.1	13.8	15.1	15.9
		Btu/hr	15,014	22,179	27,298	32,416	41,287	47,088	51,524	54,254
Motor nominal power output		W	120		200	120 (x2)	300	450		
Motor current		Amp	- Refer to page 40 -							
Sound Pressure **	High	dB(A)	44.1	41.1	47.6	47.6	47.6	54.3	51.8	52.1
	Med		41.2	38.5	45.5	44.5	44.8	52.8	49.5	49.4
	Low		37.6	34.8	40.6	42.4	41.0	47.6	45.3	45.2
Water Flow		ℓ/s	0.12	0.18	0.22	0.25	0.32	0.37	0.40	0.43
Water Pressure Drop		kPa	12.1	30.6	50.6	19.2	33.6	47.5	61.4	43.8
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Permanent Split Capacitor							
Coil	No. of Row		4							
	Working Pressure		1.72 MPa							
	Face Area (m²)		0.148	0.197	0.237	0.287	0.336	0.385	0.434	0.474
	Water Volume (ℓ)		1.1	1.4	1.6	2.0	2.3	2.6	2.9	3.2
Connections	In-Out (Sweat)/ Material		5/8" Copper		7/8" Copper			1 1/8" Copper		
	Condensate Drain/ Material		7/8" / PVC Flexible pipe (Non-Threaded Connections)							
Cabinet Size	Height	mm	460							
	Width	mm	965							
	Length	mm	788	916	1,017	1,144	1,271	1,398	1,525	1,627
Casing Material/ Thickness			Galvanized Steel/ Up to 1.0mm							
Casing Treatment/ External Finish			Powder Painted/ Morning Mist Equivalent to RAL9010							
Net Weight		kg	67.0	71.0	79.0	92.0	100.0	105.0	114.0	122.0

NOTE:

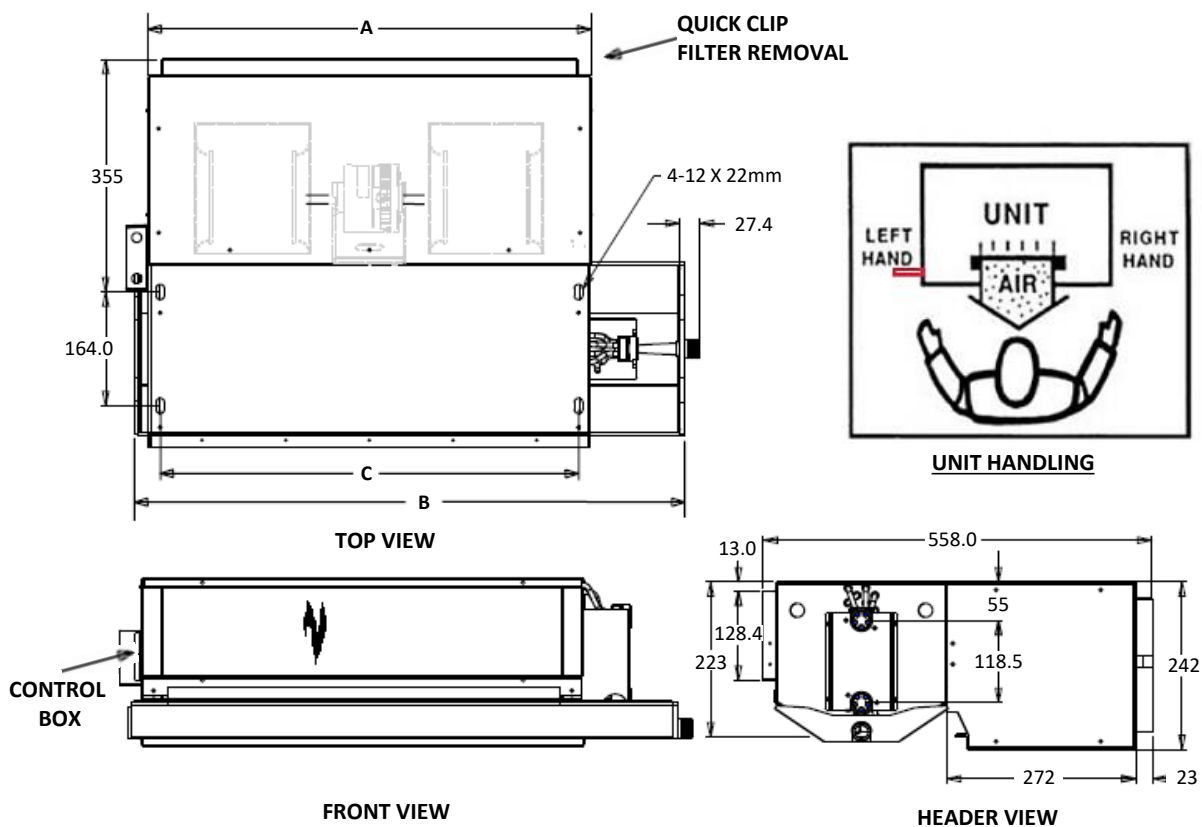
* Based on motor at high speed, standard air and wet coil operation; 8.9°C water temperature rise; entering air temperature 24.4°C DB; 17.2°C WB; Entering water temperature 5.5°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

- - For other design conditions, please apply the selection program to finalize your applications - -

UNIT DIMENSIONS AND WEIGHT

42CET/CETT/CED/CEDD Furred-In Ceiling FCU with Plenum

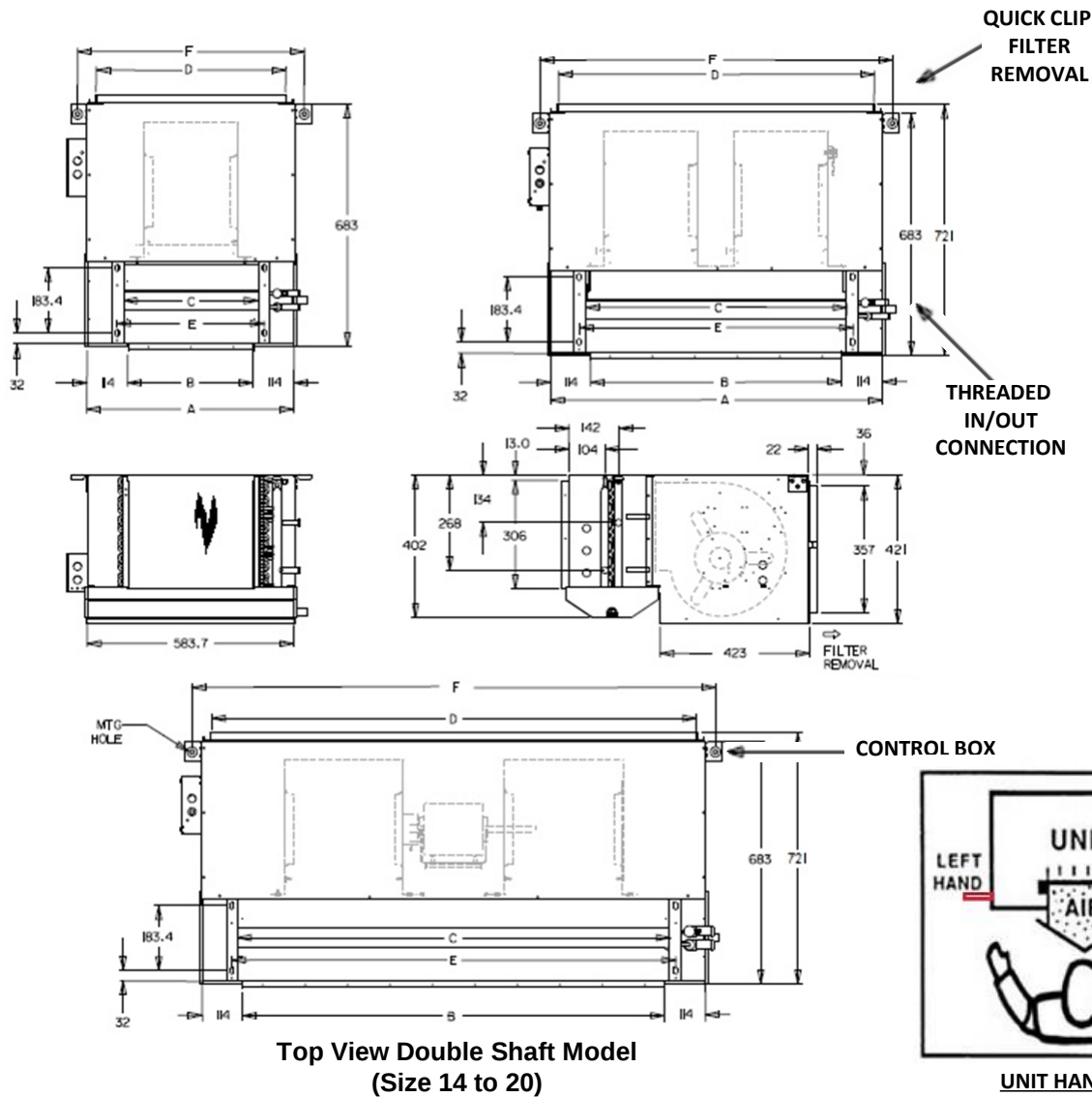


MODEL 42CET/CETT/CED/CEDD	DIMENSIONS (mm)			NET WEIGHT (kg)
	A	B	C	4 Rows
003	636	789	600	18.0
004	756	909	720	21.0
005	836	989	800	22.0
006	956	1189	1000	24.0
008	1276	1429	1240	33.0
010	1396	1549	1360	37.0
012	1636	1789	1600	42.0
014	1876	2027	1840	49.0

* Applicable for 42CET/42CED ECM option.

UNIT DIMENSIONS AND WEIGHT (cont')

42DC/DCD Furred-in Ceiling FCU with Plenum

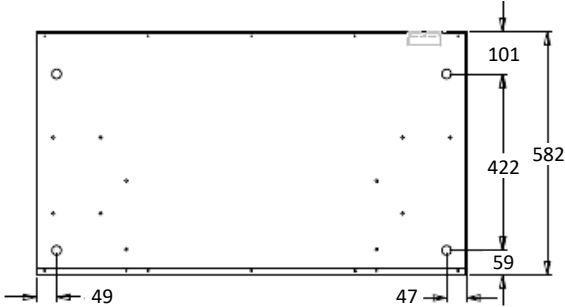


UNIT SIZE 42DC/DCD	DIMENSION (mm)						NET WEIGHT (kg)
	A	B	C	D	E	F	
006	597	356	381	536	417	641	29.0
008	724	483	508	663	544	768	35.0
010	826	584	610	765	646	870	39.0
012	953	711	737	892	773	997	51.0
014	1080	838	864	1019	900	1124	52.0
016	1206	965	991	1146	1027	1251	58.0
018	1333	1092	1178	1273	1214	1378	61.0
020	1435	1194	1219	1374	1255	1479	63.0

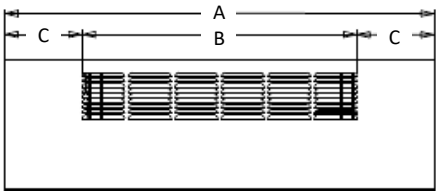
* Applicable for 42DC/42DCD ECM option.

UNIT DIMENSIONS AND WEIGHT

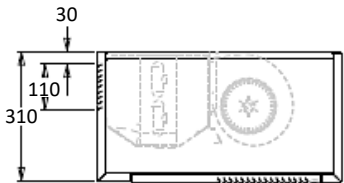
42CGT/CGD Horizontal Cabinet Unit



TOP PANEL



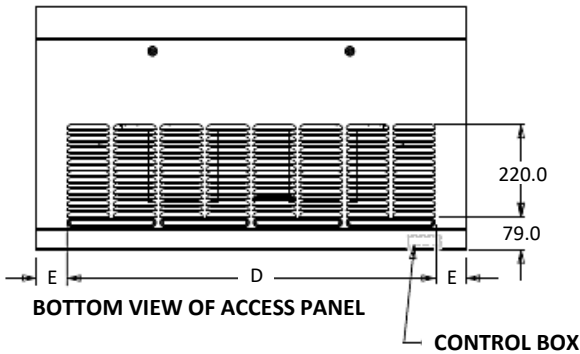
FRONT VIEW



RIGHT SIDE VIEW

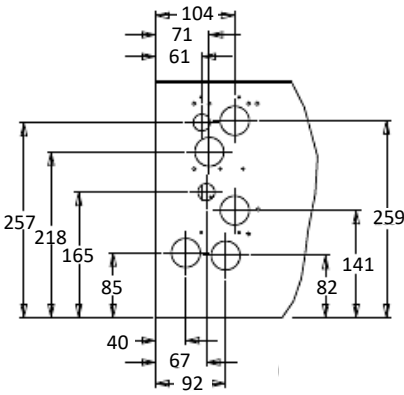


BACK VIEW



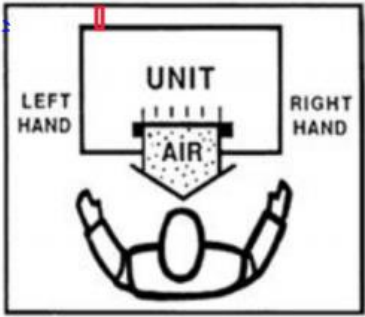
BOTTOM VIEW OF ACCESS PANEL

CONTROL BOX



BACK PANEL DETAIL
(TYPICAL BOTH SIDES)

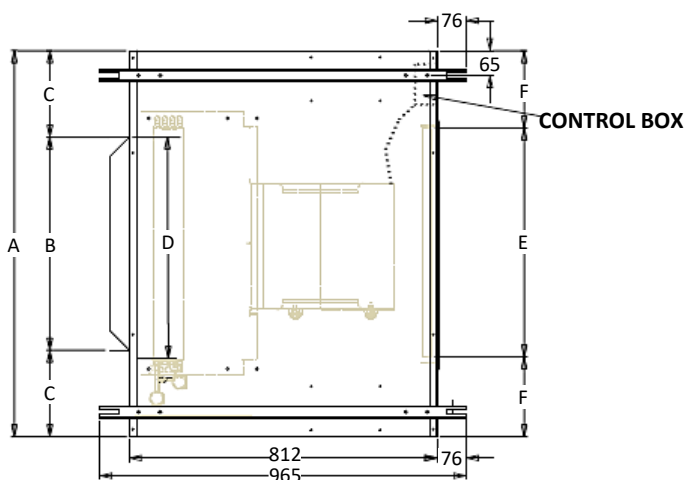
UNIT HANDLING



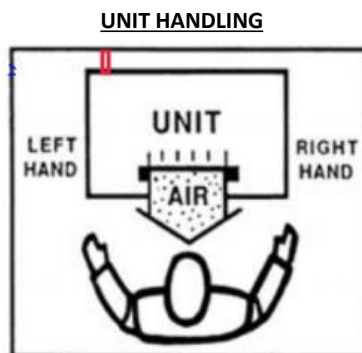
UNIT SIZE 42CGT	DIMENSIONS (mm)					NET WEIGHT (kg)
	A	B	C	D	G	
003	1030	658	186	881	74	40.0
004	1150	769	190	881	134	45.0
005	1230	880	175	881	174	47.0
006	1350	992	179	1102	123	51.0
008	1670	1325	172	1325	172	65.0
010	2030	1659	185	1325	352	80.0
012	2270	1882	193	1548	360	91.0

UNIT DIMENSIONS AND WEIGHT (cont')

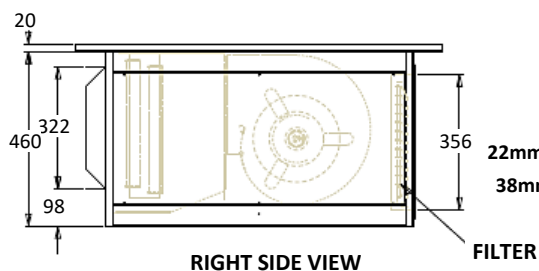
42DF/DFD Furred-In Ceiling FCU with Plenum



TOP VIEW

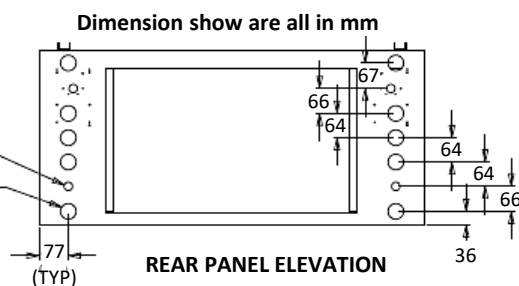


UNIT HANDLING



RIGHT SIDE VIEW

FILTER

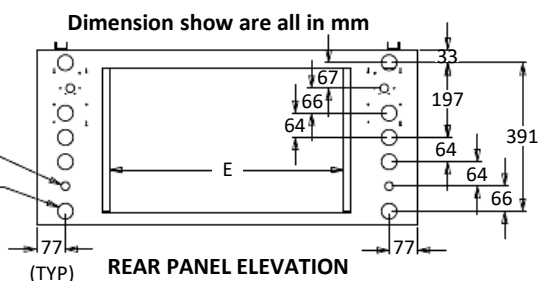
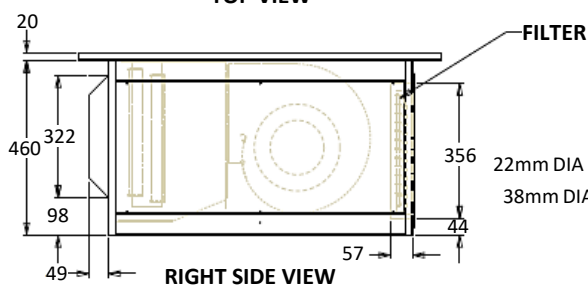
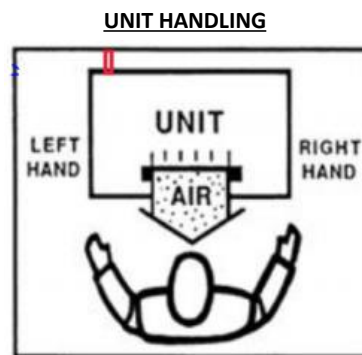
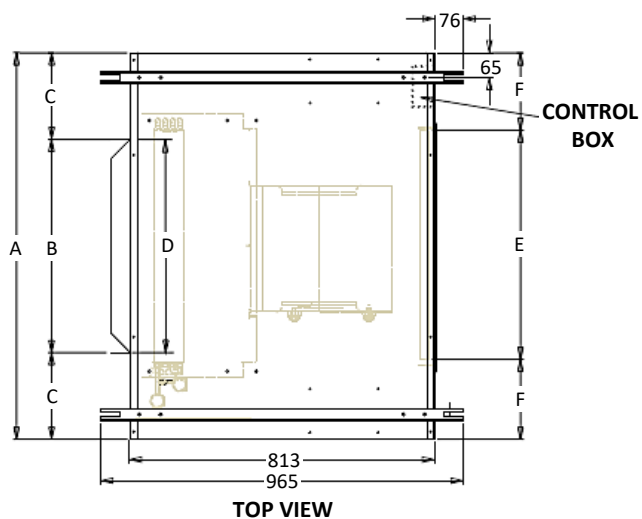


REAR PANEL ELEVATION

UNIT SIZE 42DF/DFD	DIMENSIONS (mm)						NET WEIGHT (kg)
	A	B	C	D	E	F	
006	787	343	222	381	356	216	50.0
007	914	470	222	508	508	203	58.0
010	1016	572	222	610	610	203	62.0
012	1143	699	222	737	737	216	75.0
014	1270	826	222	864	864	203	80.0
016	1397	953	222	991	991	216	87.0
018	1524	1078	222	1118	1118	203	93.0
020	1626	1181	222	1219	1219	203	100.0

UNIT DIMENSIONS AND WEIGHT (cont')

42DE/DED Furred-in Ceiling FCU with Plenum



UNIT SIZE 42DE/DED	DIMENSIONS (mm)						NET WEIGHT (kg)
	A	B	C	D	E	F	
006	787	381	203	381	381	203	61.0
008	914	508	203	508	508	203	71.0
010	1016	610	203	610	610	203	79.0
012	1143	737	203	737	737	203	92.0
014	1270	837	203	837	837	203	100.0
016	1397	991	203	991	991	203	105.0
018	1524	1118	203	1118	1118	203	114.0
020	1626	1219	203	1219	1219	203	122.0

PERFORMANCE RATING

42CETT Ceiling Suspended Ducted Unit with Plenum (4 Rows)

Model 42CETT	Speed	ESP (Pa)	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU (°C)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
003	High	50	247	2.2	1.6	13.4	12.8	0.13	11.2
	Medium		177	1.7	1.2	12.8	12.2	0.10	6.6
	Low		108	1.1	0.8	12.2	11.6	0.06	2.9
004	High	50	316	2.6	2.0	13.2	12.4	0.11	8.8
	Medium		238	2.1	1.6	12.8	12.0	0.09	5.7
	Low		163	1.6	1.1	12.3	11.6	0.07	3.1
005	High	50	438	3.8	2.9	12.9	12.2	0.16	12.1
	Medium		335	3.1	2.2	12.6	11.9	0.13	7.8
	Low		250	2.4	1.7	12.3	11.6	0.10	4.8
006	High	50	506	4.7	3.5	12.2	11.8	0.20	7.2
	Medium		386	3.7	2.8	11.8	11.5	0.16	4.6
	Low		284	2.8	2.1	11.6	11.3	0.12	2.8
008	High	50	685	5.6	4.2	13.5	12.5	0.24	10.8
	Medium		535	4.6	3.4	13.1	12.2	0.19	7.4
	Low		397	3.6	2.7	12.7	11.9	0.15	4.6
010	High	50	811	6.8	5.1	13.3	12.3	0.29	16.4
	Medium		653	5.8	4.3	12.9	12.1	0.25	12.0
	Low		467	4.4	3.2	12.4	11.7	0.19	7.1
012	High	50	905	7.9	5.9	13.0	12.2	0.34	20.9
	Medium		733	6.7	4.9	12.6	11.9	0.29	15.3
	Low		524	5.1	3.7	12.1	11.4	0.22	9.0
014	High	50	1084	10.3	7.4	12.4	11.6	0.44	26.3
	Medium		865	8.7	6.1	12.0	11.3	0.37	19.0
	Low		634	6.7	4.7	11.5	10.9	0.29	11.7

NOTE: Air Conditions: EDB/EWB 24.4/17.2°C *

Water Conditions: EWT/LWT 7.2/12.8°C

ΔT: 5.6°C

42CEDD Ceiling Suspended Ducted Unit with Plenum- District Cooling (4 Rows)

Model 42CEDD	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU (°C)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
003	High	50	247	2.0	1.5	13.7	12.7	0.05	4.2
	Medium		177	1.5	1.1	13.2	12.3	0.04	2.8
	Low		108	1.0	0.7	12.4	11.7	0.03	1.9
004	High	50	316	2.4	1.9	13.9	12.8	0.07	6.1
	Medium		238	2.0	1.5	13.4	12.5	0.05	4.0
	Low		163	1.4	1.1	12.9	12.1	0.04	2.6
005	High	50	438	2.8	2.3	15.2	13.6	0.07	4.8
	Medium		335	2.3	1.9	14.7	13.3	0.06	3.3
	Low		250	1.8	1.5	14.2	13.0	0.05	2.5
006	High	50	506	3.3	2.7	14.9	13.5	0.09	5.1
	Medium		386	2.7	2.2	14.5	13.2	0.07	3.4
	Low		284	2.1	2.1	14.1	13.0	0.06	2.5
008	High	50	685	5.0	4.0	14.3	13.1	0.13	11.5
	Medium		535	4.1	3.2	13.9	12.8	0.11	7.8
	Low		397	3.2	2.5	13.4	12.6	0.09	4.8
010	High	50	811	6.8	5.2	13.2	12.3	0.18	18.9
	Medium		653	5.7	4.3	12.9	12.1	0.15	13.3
	Low		467	4.3	3.2	12.5	11.6	0.11	7.6
012	High	50	905	7.2	5.4	13.9	12.6	0.19	5.4
	Medium		733	6.1	4.5	13.5	12.4	0.16	3.9
	Low		524	4.6	3.4	13.0	12.0	0.12	2.3
014	High	50	1084	7.9	6.1	14.6	13.1	0.21	11.9
	Medium		865	6.7	5.1	14.1	12.8	0.18	8.6
	Low		634	5.3	3.9	13.6	12.4	0.14	5.3

NOTE: Air Conditions: EDB/EWB 24.4/17.2°C

Water Conditions: EWT/LWT 5.5/14.4°C

ΔT: 8.9°C

-- For other design conditions, please apply the selection program to finalize your applications --

PERFORMANCE RATING

42CET Ceiling Suspended Ducted Unit with Plenum (3 Rows) – EC Motor

Model 42CET	Speed	ESP (Pa)	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU (°C)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
003	High	50	260	2.2	1.7	13.1	12.3	0.09	10.4
	Medium		199	1.8	1.3	12.7	12.0	0.08	6.8
	Low		135	1.3	0.9	12.2	11.6	0.06	3.6
004	High	50	333	2.9	2.2	13.1	12.2	0.12	19.1
	Medium		239	2.2	1.6	12.6	11.9	0.09	11.4
	Low		168	1.6	1.2	12.2	11.5	0.07	6.4
005	High	50	432	3.2	2.5	14.1	12.9	0.14	12.4
	Medium		338	2.7	2.1	13.6	12.6	0.11	8.7
	Low		241	2.1	1.6	13.1	12.2	0.09	5.1
006	High	50	500	3.7	2.9	14.2	12.9	0.16	12.2
	Medium		403	3.2	2.5	13.7	12.6	0.14	3.7
	Low		330	2.8	2.1	13.3	12.3	0.12	2.4
008	High	50	729	5.4	4.4	13.8	13.0	0.23	12.3
	Medium		527	4.3	3.4	13.1	12.5	0.18	7.8
	Low		409	3.6	2.7	12.6	12.2	0.15	5.4
010	High	50	815	6.0	4.9	13.9	13.0	0.26	13.4
	Medium		615	5.0	3.9	13.3	12.6	0.21	9.2
	Low		425	3.8	2.9	12.5	12.0	0.16	5.3
012	High	50	1010	7.3	5.9	14.1	13.1	0.31	16.4
	Medium		825	6.4	5.1	13.6	12.8	0.27	12.7
	Low		660	5.5	4.3	13.1	12.4	0.23	9.5

NOTE: Air Conditions: EDB/EWB 24.4/17.2°C *

Water Conditions: EWT/LWT 7.2/12.8°C

ΔT: 5.6°C

42CET Ceiling Suspended Ducted Unit with Plenum (4 Rows) – EC Motor

Model 42CET	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU (°C)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
003	High	50	258	2.5	1.8	12.2	11.5	0.11	7.2
	Medium		190	1.9	1.4	11.8	11.2	0.08	4.4
	Low		127	1.4	0.9	11.5	10.8	0.06	2.2
004	High	50	328	2.9	2.2	12.8	12.0	0.12	12.5
	Medium		240	2.3	1.7	12.3	11.6	0.10	7.7
	Low		169	1.7	1.2	11.9	11.2	0.07	4.3
005	High	50	410	3.3	2.5	13.5	12.6	0.14	9.9
	Medium		345	2.9	2.2	13.2	12.4	0.12	7.5
	Low		238	2.1	1.6	12.7	12.0	0.09	4.1
006	High	50	486	3.8	3.0	13.4	12.7	0.16	5.1
	Medium		400	3.3	2.6	13.1	12.5	0.14	3.7
	Low		300	2.5	2.0	12.8	12.3	0.11	2.4
008	High	50	685	5.6	4.3	13.8	12.7	0.24	9.9
	Medium		535	4.4	3.3	13.2	12.3	0.19	6.1
	Low		397	3.6	2.7	12.8	12.0	0.15	4.1
010	High	50	783	6.4	4.9	13.4	12.4	0.27	15.0
	Medium		622	5.4	4.0	13.0	12.1	0.23	10.9
	Low		418	3.9	2.9	12.4	11.7	0.17	5.7
012	High	50	943	8.5	6.3	12.8	11.9	0.36	17.4
	Medium		783	7.4	5.4	12.4	11.7	0.32	13.4
	Low		632	6.3	4.4	12.1	11.4	0.27	9.5

NOTE: Air Conditions: EDB/EWB 24.4/17.2°C *

Water Conditions: EWT/LWT 7.2/12.8°C

ΔT: 5.6°C

-- For other design conditions, please apply the selection program to finalize your applications --

PERFORMANCE RATING

42CED Ceiling Suspended Ducted Unit with Plenum- District Cooling (4 Rows) – EC Motor

Model 42CET	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU (°C)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
003	High	50	258	2.5	1.8	12.0	11.4	0.07	5.9
	Medium		190	2.0	1.4	11.7	11.1	0.05	3.5
	Low		127	1.4	0.9	11.3	10.7	0.04	2.1
004	High	50	328	3.1	2.2	12.5	11.7	0.08	11.4
	Medium		240	2.4	1.7	12.0	11.3	0.06	6.9
	Low		169	1.8	1.2	11.6	11.0	0.05	3.9
005	High	50	410	3.5	2.6	13.1	12.3	0.09	6.8
	Medium		345	3.0	2.3	12.9	12.1	0.08	5.2
	Low		238	2.3	1.6	12.3	11.7	0.06	2.9
006	High	50	486	3.9	3.0	13.5	12.6	0.10	8.0
	Medium		400	3.3	2.6	13.3	12.4	0.09	5.8
	Low		300	2.6	2.0	13.0	12.2	0.07	3.6
008	High	50	716	5.6	4.4	13.7	12.7	0.15	20.2
	Medium		518	4.3	3.3	13.2	12.4	0.11	12.0
	Low		404	3.5	2.6	13.0	12.2	0.09	7.9
010	High	50	783	6.3	4.9	13.5	12.6	0.17	28.1
	Medium		622	5.2	4.0	13.2	12.3	0.14	19.4
	Low		418	3.8	2.8	12.7	12.0	0.10	10.0
012	High	50	943	7.6	5.7	13.8	13.5	0.20	9.9
	Medium		783	6.6	4.9	12.6	12.3	0.18	7.5
	Low		632	5.5	4.1	13.1	12.1	0.15	5.3

NOTE: Air Conditions: EDB/EWB 24.4/17.2°C

Water Conditions: EWT/LWT 5.5/14.4°C

ΔT: 8.9°C

PERFORMANCE RATING (cont')

42CGT Ceiling Suspended Decorative Cabinet Unit with Plenum- Standard ΔT (4 Rows)

Model 42CGT	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU ($^{\circ}C$)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
003	High	50	206	1.8	1.4	12.7	12.0	0.08	4.1
	Medium		176	1.6	1.2	12.5	11.8	0.07	3.2
	Low		137	1.3	0.9	12.3	11.6	0.06	2.1
004	High	50	283	2.7	1.9	12.4	11.7	0.11	8.8
	Medium		233	2.3	1.6	12.1	11.5	0.10	6.4
	Low		175	1.8	1.3	11.8	11.2	0.08	3.9
005	High	50	337	3.3	2.4	12.1	11.5	0.14	18.6
	Medium		258	2.6	1.9	11.8	11.2	0.11	12.1
	Low		196	2.1	1.4	11.5	10.9	0.09	7.6
006	High	50	390	3.4	2.5	12.9	12.2	0.14	2.8
	Medium		284	2.6	1.9	12.6	11.9	0.11	1.7
	Low		216	2.0	1.5	12.3	11.7	0.09	1.0
008	High	50	503	4.7	3.4	12.4	11.7	0.20	8.3
	Medium		398	3.9	2.8	12.2	11.5	0.16	5.6
	Low		279	2.8	2.0	11.9	11.2	0.12	3.0
010	High	50	684	6.6	4.8	12.2	11.5	0.28	18.3
	Medium		553	5.5	4.2	12.0	11.3	0.23	13.0
	Low		411	3.9	3.0	11.7	11.1	0.18	7.7
012	High	50	826	7.8	5.7	12.4	11.7	0.33	20.9
	Medium		665	6.5	4.7	12.1	11.5	0.28	15.2
	Low		598	5.9	4.2	12.0	11.4	0.25	12.9

NOTE: Air Conditions: EDB/EWB 24.4/17.2 $^{\circ}C$

Water Conditions: EWT/LWT 7.2/12.8 $^{\circ}C$
 ΔT : 5.6 $^{\circ}C$

42CGD Ceiling Suspended Decorative Cabinet Unit with Plenum- District Cooling (4 Rows)

Model 42CGD	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU ($^{\circ}C$)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
003	High	0	206	2.1	1.5	11.8	11.2	0.09	21.4
	Medium		176	1.8	1.3	11.7	11.0	0.08	16.5
	Low		137	1.5	1.0	11.4	10.8	0.06	10.7
004	High	0	283	2.9	2.0	11.8	11.2	0.12	41.5
	Medium		233	2.5	1.7	11.5	10.9	0.10	31.5
	Low		175	1.9	1.3	11.3	10.6	0.08	20.1
005	High	0	337	3.5	2.4	11.8	11.1	0.15	59.5
	Medium		258	2.8	1.9	11.4	10.8	0.12	40.6
	Low		196	2.2	1.5	11.1	10.5	0.09	27.3
006	High	0	390	3.9	2.8	12.0	11.3	0.17	20.4
	Medium		284	3.0	2.1	11.6	11.0	0.13	12.9
	Low		216	2.4	1.6	11.3	10.7	0.10	8.0
008	High	0	503	5.2	3.6	11.7	11.1	0.22	51.9
	Medium		398	4.3	2.9	11.5	10.8	0.18	37.0
	Low		279	3.1	2.1	11.0	10.5	0.13	21.9
010	High	0	684	7.1	5.0	11.7	11.0	0.30	43.8
	Medium		553	6.0	4.1	11.4	10.8	0.25	32.4
	Low		411	4.7	3.1	11.0	10.4	0.20	21.2
012	High	0	826	8.1	5.8	12.1	11.4	0.35	43.8
	Medium		665	6.8	4.8	11.9	11.2	0.29	32.1
	Low		598	6.2	4.3	11.7	11.1	0.26	27.5

NOTE: Air Conditions: EDB/EWB 24.4/17.2 $^{\circ}C$

Water Conditions: EWT/LWT 5.5/14.4 $^{\circ}C$
 ΔT : 8.9 $^{\circ}C$

PERFORMANCE RATING

42DC Ceiling Suspended Ducted Unit with Plenum- Standard ΔT (4 Rows)

Model 42DC	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU ($^{\circ}C$)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
006	High	50	674	4.6	3.8	14.5	13.4	0.19	15.0
	Medium		563	4.1	3.3	14.1	13.1	0.17	11.9
	Low		442	3.4	2.7	13.5	12.7	0.15	8.6
008	High	50	792	5.7	4.7	14.1	13.1	0.24	19.9
	Medium		619	4.9	3.9	13.5	12.7	0.21	14.3
	Low		440	3.8	2.9	12.7	12.2	0.16	8.9
010	High	50	1061	6.9	5.8	14.7	13.5	0.29	12.3
	Medium		913	6.2	5.2	14.4	13.3	0.27	10.1
	Low		677	5.0	4.1	13.7	12.9	0.21	6.6
012	High	50	1209	8.0	6.7	14.6	13.5	0.34	14.9
	Medium		1047	7.2	6.0	15.7	13.3	0.31	12.3
	Low		838	6.2	5.1	15.2	13.0	0.26	9.1
014	High	50	1616	10.7	9.0	14.7	13.4	0.46	15.5
	Medium		1295	9.3	7.6	14.1	13.1	0.39	11.6
	Low		1177	8.7	7.0	13.9	13.0	0.37	10.2
016	High	50	1787	12.2	10.1	14.4	13.3	0.52	15.0
	Medium		1597	11.3	9.3	14.2	13.2	0.48	12.9
	Low		1432	10.5	8.6	13.9	13.0	0.45	11.2
018	High	50	1929	13.8	11.3	14.1	13.1	0.59	20.5
	Medium		1801	13.2	10.7	14.0	13.0	0.56	18.8
	Low		1423	11.3	8.9	13.4	12.6	0.48	13.7
020	High	50	2028	14.9	12.0	14.0	13.0	0.64	23.3
	Medium		1863	14.1	11.3	13.8	12.9	0.60	20.9
	Low		1449	11.9	9.3	13.1	12.4	0.51	14.9

NOTE: Air Conditions: EDB/EWB 24.4/17.2 $^{\circ}C$

Water Conditions: EWT/LWT 5.5/12.8 $^{\circ}C$

ΔT : 5.6 $^{\circ}C$

42DCD Ceiling Suspended Ducted Unit with Plenum- District Cooling (4 Rows)

Model 42DCD	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU ($^{\circ}C$)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
006	High	50	674	5.0	3.9	14.4	13.0	0.13	28.4
	Medium		565	4.4	3.4	13.9	12.7	0.12	22.7
	Low		442	3.8	3.8	13.3	12.3	0.10	16.5
008	High	50	792	5.6	4.4	14.6	13.2	0.15	13.7
	Medium		619	4.8	3.7	14.0	12.8	0.13	9.9
	Low		440	3.8	2.8	13.2	12.2	0.10	6.3
010	High	50	1061	7.1	5.9	14.6	13.4	0.19	14.3
	Medium		913	6.5	5.3	14.3	13.2	0.17	11.8
	Low		677	5.3	4.2	13.5	12.7	0.14	7.9
012	High	50	1209	8.6	7.0	14.3	13.1	0.23	22.3
	Medium		1047	7.9	6.3	13.9	12.9	0.21	18.5
	Low		838	6.8	5.3	13.3	12.5	0.18	13.7
014	High	50	1616	10.6	8.8	14.8	13.5	0.28	12.4
	Medium		1295	9.2	7.5	14.3	13.2	0.25	9.3
	Low		1177	8.6	7.0	14.0	13.0	0.23	8.2
016	High	50	1787	11.7	9.7	14.8	13.5	0.31	19.0
	Medium		1597	10.9	9.0	14.6	13.3	0.29	16.4
	Low		1432	10.1	8.3	14.3	13.2	0.27	14.2
018	High	50	1929	12.9	10.6	14.7	13.4	0.34	16.8
	Medium		1801	12.3	10.1	14.5	13.3	0.33	15.4
	Low		1423	10.5	8.5	14.0	13.0	0.28	11.2
020	High	50	2028	13.7	11.3	14.6	13.4	0.37	18.3
	Medium		1863	13.0	10.6	14.4	13.2	0.35	16.4
	Low		1449	11.0	8.8	13.8	12.9	0.29	11.7

NOTE: Air Conditions: EDB/EWB 24.4/17.2 $^{\circ}C$

Water Conditions: EWT/LWT 5.5/14.4 $^{\circ}C$

ΔT : 8.9 $^{\circ}C$

-- For other design conditions, please apply the selection program to finalize your applications --

PERFORMANCE RATING

42DC Ceiling Suspended Ducted Unit with Plenum- Standard ΔT (4 Rows) – EC Motor

Model 42DC	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU ($^{\circ}C$)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
006	High	50	707	4.8	4.0	14.6	13.4	0.16	9.7
	Medium		562	4.1	3.3	14.0	13.0	0.13	7.2
	Low		446	3.5	2.8	13.4	12.7	0.12	5.4
008	High	50	788	5.9	4.7	14.0	12.9	0.19	12.3
	Medium		621	5.0	3.9	13.4	12.5	0.16	9.0
	Low		428	3.9	2.9	12.5	11.9	0.13	5.4
010	High	50	1088	7.0	6.0	14.8	13.6	0.30	12.8
	Medium		933	6.3	5.3	14.4	13.4	0.27	10.4
	Low		715	5.3	4.3	13.8	13.0	0.22	7.2
012	High	50	1206	7.9	6.7	14.7	13.5	0.26	8.7
	Medium		1061	7.3	6.0	14.4	13.3	0.24	7.4
	Low		816	6.1	4.9	13.8	12.9	0.20	5.2
014	High	50	1591	10.7	8.9	14.6	13.4	0.35	9.2
	Medium		1261	9.2	7.4	14.0	13.0	0.30	6.8
	Low		1189	8.9	7.1	13.9	12.9	0.29	6.3
016	High	50	1800	12.4	10.2	14.4	13.3	0.41	9.2
	Medium		1595	11.5	9.4	14.1	13.1	0.38	7.9
	Low		1400	10.6	8.5	13.8	12.9	0.35	6.7
018	High	50	1941	14.3	11.5	14.0	13.0	0.47	12.9
	Medium		1839	13.8	11.0	13.9	12.9	0.45	12.0
	Low		1422	11.7	9.0	13.2	12.5	0.38	8.6
020	High	50	2019	15.4	12.2	13.8	12.8	0.50	14.6
	Medium		1894	14.8	11.6	13.6	12.7	0.48	13.5
	Low		1481	12.6	9.6	13.0	12.3	0.41	9.8

NOTE: Air Conditions: EDB/EWB 24.4/17.2 $^{\circ}C$

Water Conditions: EWT/LWT 5.5/12.8 $^{\circ}C$
 ΔT : 5.6 $^{\circ}C$

42DCD Ceiling Suspended Ducted Unit with Plenum- District Cooling (4 Rows) – EC Motor

Model 42DCD	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU ($^{\circ}C$)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
006	High	50	707	5.1	4.1	14.2	13.1	0.14	30.2
	Medium		562	4.4	3.5	13.6	12.7	0.12	22.6
	Low		446	3.8	2.9	13.0	12.3	0.10	16.7
008	High	50	788	5.6	4.4	14.6	13.2	0.15	13.6
	Medium		621	4.8	3.7	14.0	12.8	0.13	10.0
	Low		428	3.7	2.8	13.1	12.2	0.10	6.0
010	High	50	1088	7.2	6.0	14.7	13.4	0.19	14.7
	Medium		933	6.5	5.4	14.3	13.2	0.18	12.1
	Low		715	5.5	4.4	13.5	12.8	0.15	8.5
012	High	50	1206	8.6	6.8	14.6	13.1	0.23	22.2
	Medium		1061	7.9	6.1	14.2	12.9	0.21	18.8
	Low		816	6.6	5.0	13.6	12.5	0.18	13.3
014	High	50	1591	10.5	8.7	14.8	13.5	0.28	12.1
	Medium		1261	9.0	7.3	14.2	13.1	0.24	9.0
	Low		1189	8.7	7.0	14.0	13.0	0.23	8.3
016	High	50	1800	12.9	10.7	14.7	13.4	0.35	16.9
	Medium		1595	12.5	10.3	14.6	13.4	0.33	15.8
	Low		1400	10.5	8.5	14.0	13.0	0.28	11.2
018	High	50	1941	14.1	11.4	14.1	13.0	0.60	47.0
	Medium		1839	13.6	11.0	13.9	13.0	0.58	44.2
	Low		1422	11.5	9.0	13.3	12.5	0.49	33.0
020	High	50	2019	13.7	11.3	14.6	13.3	0.37	18.2
	Medium		1894	13.2	10.7	14.4	13.3	0.35	16.8
	Low		1481	11.2	8.9	13.8	12.9	0.30	12.1

NOTE: Air Conditions: EDB/EWB 24.4/17.2 $^{\circ}C$

Water Conditions: EWT/LWT 5.5/14.4 $^{\circ}C$
 ΔT : 8.9 $^{\circ}C$

-- For other design conditions, please apply the selection program to finalize your applications --

PERFORMANCE RATING (cont')

42DE Ceiling Suspended Ducted Double Skin Unit with Plenum- Standard ΔT (4 Rows)

Model 42DE	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU (°C)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
006	High	50	642	4.4	3.7	14.2	13.3	0.19	4.6
	Medium		505	3.7	3.1	13.8	13.1	0.16	3.2
	Low		378	2.9	2.4	13.3	12.7	0.13	2.1
008	High	50	742	5.9	4.6	13.5	12.6	0.25	10.3
	Medium		563	4.8	3.7	13.0	12.2	0.21	6.9
	Low		404	3.8	2.7	12.5	11.8	0.16	4.2
010	High	50	964	7.5	6.0	13.5	12.8	0.32	17.9
	Medium		823	6.7	5.3	13.1	12.5	0.28	15.1
	Low		568	5.1	3.9	12.4	12.0	0.22	8.8
012	High	50	1256	9.2	7.5	13.9	13.0	0.39	30.3
	Medium		1023	8.1	6.4	13.4	12.7	0.34	24.1
	Low		723	6.3	4.9	12.6	12.1	0.27	15.8
014	High	50	1579	11.7	9.5	13.8	13.0	0.50	33.9
	Medium		1268	10.1	8.0	13.3	12.6	0.43	26.5
	Low		1246	10.0	7.9	13.2	13.0	0.43	25.9
016	High	50	1746	13.1	10.6	13.7	12.9	0.56	46.5
	Medium		1542	12.1	9.6	13.4	12.7	0.52	40.5
	Low		1387	11.3	8.9	13.2	12.5	0.48	35.9
018	High	50	1971	15.1	12.2	13.5	12.8	0.64	25.0
	Medium		1740	13.9	11.1	13.2	12.6	0.59	21.7
	Low		1393	12.0	9.3	12.7	12.2	0.51	16.7
020	High	50	1981	15.7	12.1	13.7	12.7	0.67	28.7
	Medium		1793	14.7	11.2	13.4	12.5	0.62	25.6
	Low		1395	12.3	9.2	12.9	12.1	0.53	19.0

NOTE: Air Conditions: EDB/EWB 24.4/17.2°C

Water Conditions: EWT/LWT 7.2/12.8°C

ΔT: 5.6°C

42DED Ceiling Suspended Ducted Double Skin Unit with Plenum- District Cooling (4 Rows)

Model 42DED	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU (°C)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
006	High	50	642	4.4	3.7	14.3	13.3	0.12	12.1
	Medium		505	3.7	3.1	13.8	13.0	0.10	8.8
	Low		378	3.0	2.4	13.2	12.6	0.08	5.9
008	High	50	742	6.5	4.8	13.0	12.1	0.18	30.6
	Medium		563	5.4	3.9	12.3	11.6	0.14	22.3
	Low		404	4.2	2.9	11.7	11.0	0.11	13.6
010	High	50	964	8.0	6.0	13.4	12.4	0.22	50.6
	Medium		823	7.3	5.3	13.0	12.1	0.19	42.2
	Low		568	5.6	4.0	12.2	11.4	0.15	26.9
012	High	50	1256	9.5	7.4	14.0	12.8	0.25	19.2
	Medium		1023	8.3	6.3	13.5	12.5	0.22	15.1
	Low		723	6.5	4.8	12.8	12.0	0.17	9.3
014	High	50	1579	12.1	9.4	12.1	9.4	0.32	33.6
	Medium		1268	10.5	8.0	10.5	8.0	0.28	26.4
	Low		1246	10.4	7.8	10.4	7.8	0.28	25.9
016	High	50	1746	13.8	10.6	13.8	12.6	0.37	47.5
	Medium		1542	12.8	9.6	13.4	12.4	0.34	41.4
	Low		1387	11.9	8.9	13.2	12.2	0.32	36.8
018	High	50	1971	15.1	11.7	14.0	12.8	0.40	61.4
	Medium		1740	14.0	10.6	13.7	12.6	0.37	53.6
	Low		1393	12.1	8.9	13.1	12.2	0.32	41.8
020	High	50	1981	15.9	12.1	13.7	12.6	0.43	43.8
	Medium		1793	14.9	11.2	13.4	12.4	0.40	39.2
	Low		1395	12.6	9.2	12.8	11.9	0.34	29.4

NOTE: Air Conditions: EDB/EWB 24.4/17.2°C

Water Conditions: EWT/LWT 5.5/14.4°C

ΔT: 8.9°C

-- For other design conditions, please apply the selection program to finalize your applications --

PERFORMANCE RATING (cont')

42DF Ceiling Suspended Decorative Cabinet Unit with Plenum- Standard AT (4 Rows)

Model 42DF	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU (°C)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
006	High	50	415	3.3	2.6	13.2	12.7	0.14	2.5
	Medium		355	2.9	2.3	13.0	12.5	0.12	2.0
	Low		283	2.4	1.9	12.6	12.2	0.10	1.4
008	High	50	532	4.6	3.4	13.0	12.2	0.19	5.9
	Medium		440	4.0	2.9	12.7	12.0	0.17	4.5
	Low		320	3.1	2.2	12.3	11.6	0.13	2.7
010	High	50	667	5.8	4.3	13.1	12.2	0.24	10.7
	Medium		523	4.8	3.5	12.6	11.9	0.20	7.5
	Low		373	3.7	2.6	12.1	11.4	0.16	4.4
012	High	50	842	7.1	5.4	13.2	12.3	0.30	18.3
	Medium		703	6.2	4.6	12.9	12.1	0.26	14.5
	Low		607	5.6	4.1	12.6	11.8	0.24	11.7
014	High	50	976	8.4	6.3	13.1	12.2	0.36	18.4
	Medium		769	7.1	5.2	12.6	11.8	0.30	13.4
	Low		679	6.4	4.7	12.4	11.7	0.27	11.1
016	High	50	1116	9.7	7.2	13.1	12.2	0.41	26.1
	Medium		929	8.5	6.2	12.7	11.9	0.36	20.9
	Low		746	7.2	5.2	12.2	11.5	0.31	15.7
018	High	50	1445	12.2	9.2	13.2	12.3	0.52	16.5
	Medium		1228	10.9	8.1	12.9	12.1	0.46	13.6
	Low		970	9.1	6.6	12.5	11.7	0.39	9.5
020	High	50	1710	14.2	10.8	13.3	12.4	0.61	23.1
	Medium		1489	12.9	9.6	13.0	12.2	0.55	19.6
	Low		1089	10.3	7.4	12.4	11.7	0.44	13.1

NOTE: Air Conditions: EDB/EWB 24.4/17.2°C *

Water Conditions: EWT/LWT 7.2/12.8°C

ΔT: 5.6°C

42DFD Ceiling Suspended Decorative Cabinet Unit with Plenum- District Cooling (4 Rows)

Model 42DFD	Speed	ESP Pa	Air Flow (ℓ/s)	Capacity (kW)		Air off FCU (°C)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
006	High	0	509	4.5	3.3	12.9	12.0	0.19	29.3
	Medium		460	4.2	3.1	12.7	11.9	0.18	25.8
	Low		383	3.7	2.6	12.3	11.6	0.16	20.4
008	High	0	651	6.1	4.4	12.5	11.7	0.26	60.7
	Medium		551	5.4	3.8	12.2	11.4	0.23	49.2
	Low		441	4.6	3.2	11.7	11.0	0.20	37.0
010	High	0	824	7.4	5.4	12.8	12.0	0.32	98.9
	Medium		643	6.2	4.4	12.3	11.5	0.26	72.7
	Low		482	5.1	3.5	11.7	11.0	0.21	50.4
012	High	0	1035	8.9	6.6	13.1	12.2	0.38	38.4
	Medium		881	7.9	5.8	12.8	11.9	0.34	31.6
	Low		780	7.3	5.3	12.5	11.7	0.31	27.2
014	High	0	1186	10.4	7.7	13.0	12.1	0.44	58.0
	Medium		1006	9.3	6.7	12.6	11.8	0.40	47.4
	Low		886	8.5	6.7	12.4	11.6	0.36	40.4
016	High	0	1358	12.1	8.9	12.9	12.0	0.52	84.9
	Medium		1086	10.4	7.4	12.4	11.6	0.44	64.5
	Low		926	9.2	6.5	12.1	11.3	0.39	52.8
018	High	0	1643	14.3	10.6	13.1	12.2	0.61	125.4
	Medium		1397	12.8	9.3	12.7	11.9	0.54	103.1
	Low		1103	10.8	7.7	12.2	11.4	0.46	77.1
020	High	0	1848	15.7	11.7	13.2	12.3	0.67	96.7
	Medium		1561	14.0	10.3	12.8	12.0	0.60	79.1
	Low		1223	11.8	8.4	12.3	11.5	0.50	58.6

NOTE: Air Conditions: EDB/EWB 24.4/17.2°C

Water Conditions: EWT/LWT 5.5/14.4°C

ΔT: 8.9°C

-- For other design conditions, please apply the selection program to finalize your applications --

ELECTRICAL DATA (cont')

42CETT/ CEDD MOTOR DATA

Model	Unit Size	Power Supply (V-Ph-Hz)	Fan Speed	Fan Speed (rpm)	Nominal Power Output (W)	Power Input (W)	Motor Pole	Running Amps		Remarks
								CETT 4 rows	CEDD 4 rows	
42CETT 42CEDD	003	220~240-1-50	Hi	1,100	28	68	4	0.27	0.27	* Total motor amps and watts shown for units with 2 motors (size 008 to 012). ** Total motor amps and watts shown for units with 3 motors (size 014). ***Based on wet coil (standard condition)
			Med	870		57		0.24	0.24	
			Low	650		46		0.20	0.20	
	004		Hi	1,120	35	81	4	0.31	0.33	
			Med	885		69		0.27	0.28	
			Low	670		58		0.24	0.25	
	005		Hi	1,160	48	104	4	0.35	0.38	
			Med	900		91		0.31	0.33	
			Low	650		76		0.29	0.30	
	006		Hi	1,210	60	112	4	0.44	0.45	
			Med	930		99		0.36	0.37	
			Low	700		81		0.33	0.33	
	008 *		Hi	1,190	40 (x2)	179	4	0.67	0.62	
			Med	900		160		0.62	0.57	
			Low	680		140		0.66	0.61	
	010 *		Hi	1,290	50 (x2)	208	4	0.78	0.75	
			Med	1,030		186		0.65	0.63	
			Low	775		144		0.57	0.55	
	012 *		Hi	1,235	63 (x2)	248	4	0.88	0.91	
			Med	1,000		205		0.73	0.77	
			Low	745		185		0.66	0.7	
	014 **		Hi	1,270	52 (x3)	300	4	1.05	1.11	
			Med	1,050		261		0.93	0.98	
			Low	800		219		0.85	0.86	

Based on 50PA

Air condition For standard Delta T – EDB/EWB: 24.4/17.2 °C, EWT/LWT: 7.2/12.8 °C, ΔT : 5.6°C

Air condition For District Cooling/ High Delta T – EDB/EWB: 24.4/17.2°C, EWT/LWT: 5.5/14.4 °C, ΔT : 8.9°C

ELECTRICAL DATA

42C MOTOR DATA

Model	Unit Size	Power Supply (V-Ph-Hz)	Fan Speed	Fan Speed (rpm)	Nominal Power Output (W)	Power Input (W)	Motor Pole	Running Amps	Remarks
42CGT 42CGD	003	220~240-1-50	Hi	1,320	35	62	4	0.32	* Total motor amps and watts shown for units with 2 motors (size 008 to 010). ** Total motor amps and watts shown for units with 3 motors (size 012).
			Med	1,190		54		0.26	
			Low	1,080		49		0.20	
	004		Hi	1,320	48	77	4	0.36	
			Med	1,190		68		0.34	
			Low	1,080		61		0.30	
	005		Hi	1,320	68	93	4	0.41	
			Med	1,190		75		0.37	
			Low	1,080		67		0.35	
	006		Hi	1,320	75	109	4	0.51	
			Med	1,190		81		0.45	
			Low	1,080		73		0.43	
	008 *		Hi	1,320	58 (x2)	161	4	0.71	
			Med	1,190		134		0.61	
			Low	1,080		112		0.53	
	010 *		Hi	1,320	75 (x2)	218	4	1.05	
			Med	1,190		164		0.94	
			Low	1,080		150		0.88	
	012 **		Hi	1,320	78 (x3)	299	4	1.57	
			Med	1,190		221		1.09	
			Low	1,080		205		0.99	

Note: Motor nameplate amps may vary.

ELECTRICAL DATA (cont')

42DC/DCD/DE/DED MOTOR DATA

Model	Unit Size	Power Supply (V / Ph / Hz)	Fan Speed	Fan Speed (rpm)	Nominal Power Output (W)	Power Input (W)	Motor Pole	Running Amps	Remarks
42DC/DCD	006	220~240/1/50	Hi	1,000	120	239	4	1.13	* Total motor amps and watts shown for units with 2 motors (size 012).
			Med	870		150		0.68	
			Low	750		116		0.52	
	008		Hi	1,000	120	257	4	1.21	
			Med	870		170		0.75	
			Low	750		127		0.57	
	010		Hi	1,000	200	480	6	2.02	
			Med	870		399		1.65	
			Low	750		254		1.14	
	012 *		Hi	1,000	120 (x2)	484	4	2.27	
			Med	870		435		1.33	
			Low	750		298		1.04	
	014		Hi	1,000	300	638	4	2.96	
			Med	870		467		2.14	
			Low	750		410		1.88	
	016		Hi	1,000	450	723	4	3.29	
			Med	870		610		2.77	
			Low	750		516		2.36	
	018		Hi	1,000	450	819	4	3.68	
			Med	870		719		3.29	
			Low	750		519		2.35	
	020		Hi	1,000	450	836	4	3.69	
			Med	870		729		3.27	
			Low	750		523		2.36	
42DE/DED	006	220~240/1/50	Hi	1,000	120	220	4	1.13	* Total motor amps and watts shown for units with 2 motors (size 012).
			Med	870		138		0.68	
			Low	750		108		0.52	
	008		Hi	1,000	120	241	4	1.21	
			Med	870		153		0.75	
			Low	750		110		0.57	
	010		Hi	1,000	200	432	6	2.02	
			Med	870		266		1.65	
			Low	750		207		1.14	
	012 *		Hi	1,000	120 (x2)	444	4	2.27	
			Med	870		361		1.33	
			Low	750		243		1.04	
	014		Hi	1,000	300	654	4	2.96	
			Med	870		436		2.14	
			Low	750		359		1.88	
	016		Hi	1,000	450	664	4	3.29	
			Med	870		534		2.77	
			Low	750		443		2.36	
	018		Hi	1,000	450	780	4	3.68	
			Med	870		662		3.29	
			Low	750		449		2.35	
	020		Hi	1,000	450	791	4	3.69	
			Med	870		677		3.27	
			Low	750		464		2.36	

Note: Motor nameplate amps may vary.

ELECTRICAL DATA (cont')

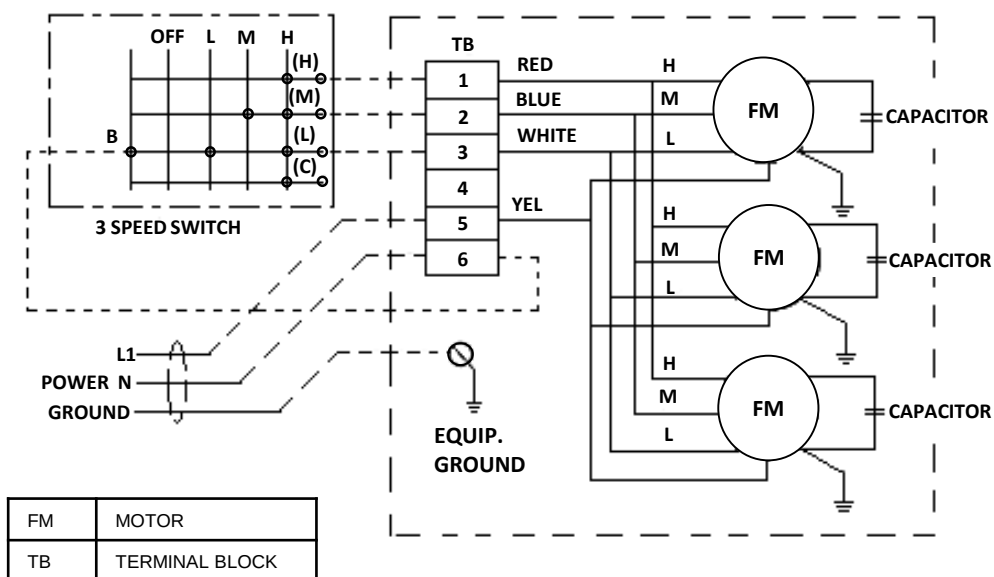
42DF/DFD MOTOR DATA

Model	Unit Size	Power Supply (V / Ph / Hz)	Fan Speed	Fan Speed (rpm)	Nominal Power Output (W)	Power Input (W)	Motor Pole	Running Amps	Remarks
42DF/DFD	006	220~240/1/50	Hi	1,000	80	149	6	0.77	* Total motor amps and watts shown for units with 2 motors (size 012 to 020).
			Med	870		108		0.57	
			Low	750		83		0.42	
	008		Hi	1,000	80	160	6	0.78	
			Med	870		116		0.56	
			Low	750		88		0.42	
	010		Hi	865	120	231	4	1.22	
			Med	750		146		0.84	
			Low	640		113		0.65	
	012 *		Hi	865	80 (x2)	296	6	1.43	
			Med	750		217		1.04	
			Low	640		167		0.82	
	014 *		Hi	865	80 (x2)	302	6	1.43	
			Med	750		220		1.05	
			Low	640		168		0.82	
	016 *		Hi	865	120 (x2)	433	4	1.82	
			Med	750		272		1.60	
			Low	640		211		1.13	
	018 *		Hi	865	120 (x2)	442	4	2.38	
			Med	750		286		1.63	
			Low	640		218		1.12	
	020 *		Hi	865	200 (x2)	853	6	4.30	
			Med	750		707		2.26	
			Low	640		486		1.44	

Note: Motor nameplate amps may vary.

WIRING DIAGRAM

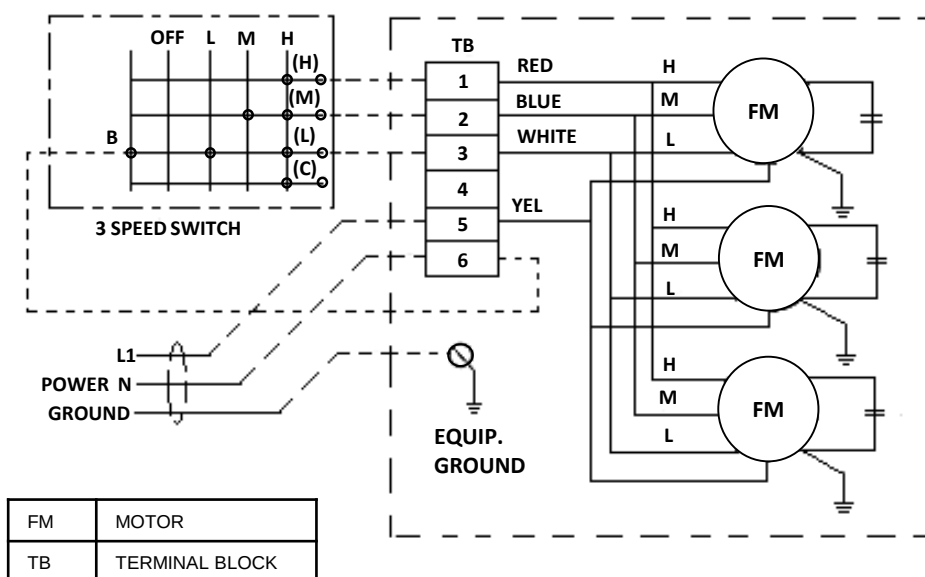
42CETT/CEDD Series Wiring Diagram (AC Motor)



NOTE:

1. Caution – Disconnect power before servicing.
2. Use 14 AWG, 75°C MIN, copper conductor.
3. Motor(s) thermally protected.
4. Provide disconnect means and over current protection as required.
5. 42CETT/CEDD 003 to 006 are single motor; 42CETT/CEDD 008 to 012 are double motors & 014 is three fan motors.
6. Snap apart carefully at hinge to separate cover from the control box.

42CGT/CGD Series Wiring Diagram (AC Motor)

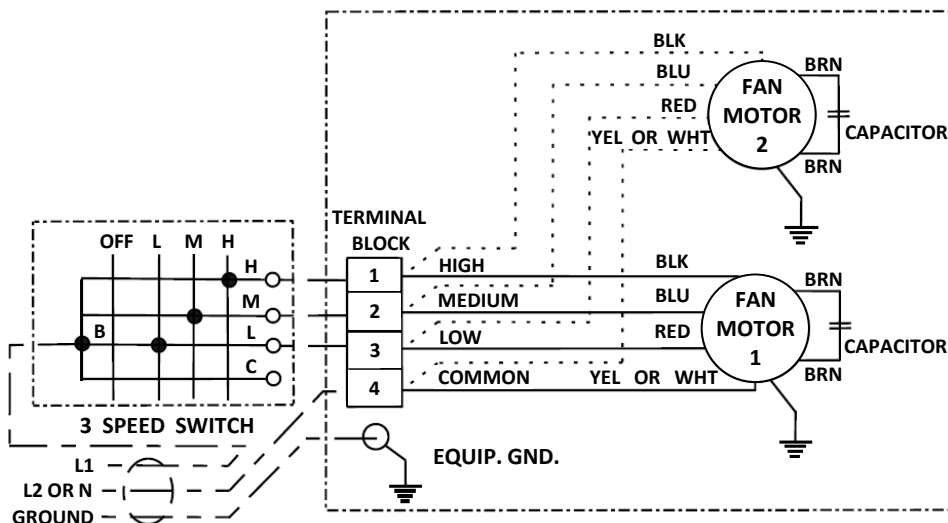


NOTE:

1. Caution – Disconnect power before servicing.
2. Use 14 AWG, 75°C MIN, copper conductor.
3. Motor(s) thermally protected.
4. Provide disconnect means and over current protection as required.
5. 42CGT/CGD 003 to 006 are single motor; 42CGT/CGD 008 to 010 are double motors & 012 is three fan motors.
6. Snap apart carefully at hinge to separate cover from the control box.

WIRING DIAGRAM

42DC/DCD/DE/DED 006~012 and 42DF/DFD Wiring Diagram (AC Motor)



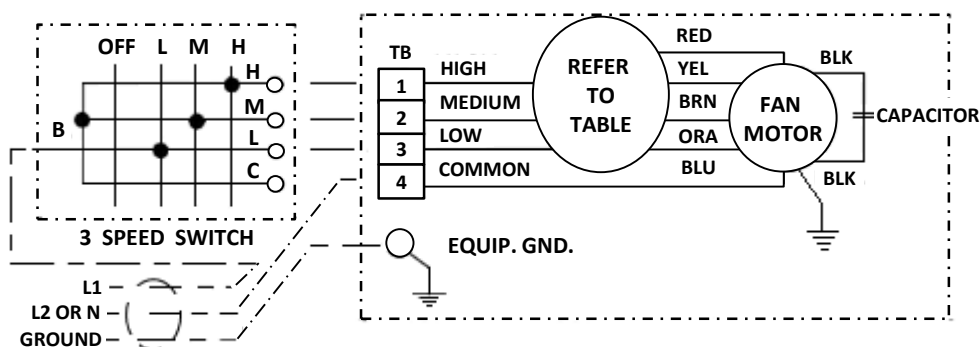
NOTE:

1. Caution – disconnect power before servicing.
2. Use 14 AWG, 75°C MIN, copper conductor.
3. Motor(s) thermally protected.
4. Provide disconnect means & over current protection as required.
5. Unit 42DC/DCD 012 has 2 fan motors, the rest are single motor.
6. Unit 42DF/DFD 006-010 has 1 Fan motor, the rest are with 2 Fan motors.

LEGEND:

- — — — — FIELD WIRING
 FACTORY WIRING IF REQUIRED
 _____ FACTORY WIRING

42DC/DCD, 42DE/DED & 42DF/DFD 014~020 Wiring Diagram (AC Motor)



MODEL	FAN MOTOR SPEED USED / COLOR			
	HI	MED	LOW	UNUSED
42DC/DCD014 & 42DE/DED014	RED	BROWN	ORANGE	YELLOW
42DC/DCD016 & 42DE/DED016	YELLOW	BROWN	ORANGE	RED
42DC/DCD018 & 42DE/DED018	RED	YELLOW	ORANGE	BROWN
42DC/DCD020 & 42DE/DED020	RED	YELLOW	ORANGE	BROWN

NOTE:

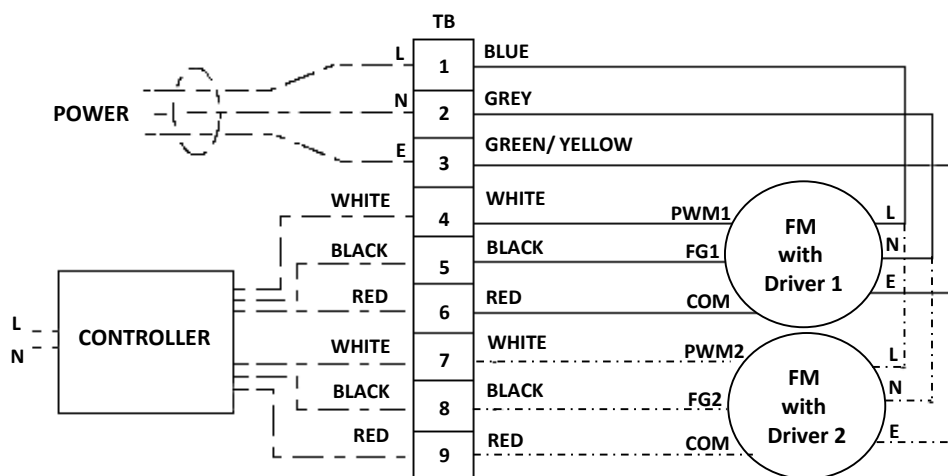
1. Caution – disconnect power before servicing.
2. Use 14 AWG, 75°C MIN, copper conductor.
3. Motor(s) thermally protected.
4. Provide disconnect means & over current protection as required.

LEGEND:

- — — — — FIELD WIRING
 FACTORY WIRING IF REQUIRED
 _____ FACTORY WIRING

WIRING DIAGRAM

42CET/CED003~012 Wiring Diagram (EC Motor)



FM	MOTOR
TB	TERMINAL BLOCK

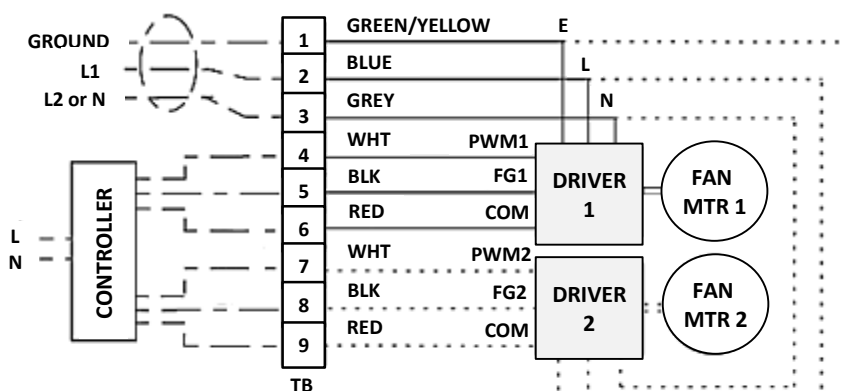
NOTE:

1. Caution – Disconnect power before servicing.
2. 42CET/CED 002~006 – single motor; 008~012 – double motors.
3. Single motor use 6 pole terminal block, double motors use 9 pole terminal block.
4. Snap apart carefully at hinge to separate cover from the control box.

LEGEND:

— — — — — FIELD WIRING
 - - - - - FACTORY WIRING IF REQUIRED
 — — — — — FACTORY WIRING

42DC/DCD006~020 Wiring Diagram (EC Motor)



LEGEND:
 — — — — — FIELD WIRING
 - - - - - FACTORY WIRING IF REQUIRED
 — — — — — FACTORY WIRING

LEGEND:

— — — — — FIELD WIRING
 - - - - - FACTORY WIRING IF REQUIRED
 — — — — — FACTORY WIRING

NOTE:

1. Caution – disconnect power before servicing, wait for at least 20 sec to allow current completely drain off from driver.
2. Use 14 AWG, 75°C MIN, copper conductor.
3. Motor(s) thermally protected.
4. Provide disconnect means & over-current protection as required.
5. All models use 6 pole terminal block except 42DC-012 with 2 fan motors uses 9 pole terminal block.
6. Use cable wire "UL2464" specification to ensure transmission reliability for motor to FCU controller.

GUIDE SPECIFICATIONS

HVAC GUIDE SPECIFICATIONS

Size Range: 300 to 2000 Nominal Cfm

PART 1 – GENERAL

1.1 System Description

Horizontal, room fan coil unit with furred-in, above ceiling for ducting, or with cabinet for exposed ceiling installations.

1.2 Quality Assurance

- A. Carrier fan coil units are tested in accordance with Eurovent standard. (Refer page no. 2 for Eurovent website link).
- B. Unit insulation to be MVSS 302 compliance and drain pan insulation to be UL94 compliance.
- C. Carrier fan coil unit is completely insulated in fan section as well as coil section.
- D. Unit cabinet material to be galvanized steel sheet complying to ASTM A653 standard.
- E. Each coils are tested with Nitrogen (N₂) under water at 400 psig while submerged in water.
- F. Factory shall be ISO-9001:2015 certified.

1.3 Delivery Storage and Handling

Each unit shall be individually packaged from point of manufacture. Unit shall be handled and stored in accordance with the manufacturer's instructions.

PART 2 - PRODUCTS

EQUIPMENT

2.1 General

Factory assembled, horizontal, blow-thru type fan coil for furred-in, exposed ceiling or ducted installations. Unit shall be complete with water coil(s), fan(s), motor(s), drain pan, filters and all required wiring, collars for ducted units. Carrier fan coil unit casing is manufacturer from heavy gauge galvanized steel sheet as per ASTM A653 standard. Unit inner surfaces for the cooling coil section and entire return air plenum section are insulated for better thermal & sound performance.

2.2 42CET/42CETT, 42CED/CEDD Ceiling Suspended Ducted Unit with Plenum

Base 42CET/42CETT, 42CED /CEDD unit with factory installed plenum section and cleanable filter as shown on equipment drawings. The plenum shall be rear air return. Shall enclose the fan/motor assemblies, and shall be lined with 10mm thick PU insulation 20kg/m³ density and 6.0mm PE insulation 28.6kg/m³ density on the drain pan. Unit shall have a removable bottom panel to provide access to fan/motor assemblies and unit identification label. Filter track with quick clip permanent aluminium filter and 18 mm supply collar for duct connection.

2.3 42CGT/CGD Horizontal Cabinet Unit for Exposed Installation

Unit shall be constructed of galvanized steel with morning mist baked enamel finish. Units are with stamped supply grille, removable bottom access panel with stamped return air grille, filter track and filter. The panel shall be fastened with slotted head, positive-locking quarter-turn fasteners. Units have 12.7mm PU insulation on chassis and 10mm PU insulation on coil top panel with 20kg/m³, and 6.0mm PE insulation 28.6kg/m³ density on the drain pan. Both supply and return grille are galvanized powder painted.

GUIDE SPECIFICATIONS

2.4 42DC/DCD Horizontal Base Unit with Plenum for Concealed Installation

Unit have a factory installed, galvanized steel plenum section and one-in permanent filter. The plenum shall be rear return, lined with 12.7mm PU insulation 20kg/m³ density and plenum box and 6.0mm PE insulation 28.6kg/m³ density on the drain pan, and include a removable bottom panel to provide access to the fan/motor assembly. Filter track with quick clip permanent aluminium filter and 18 mm supply collar for duct connection.

2.5 42DE/DED Horizontal Painted Cabinet Unit for Concealed Installation

Unit shall be double skin construction for ducted application with removable panels for access to internal components. The outer panel is constructed of galvanized steel with morning mist baked enamel finish and inner panel is with galvanized steel finish. Units have 12.7mm PU insulation 20kg/m³ density on chassis and plenum box and 6.0mm PE insulation 28.6kg/m³ density on the drain pan. Filter track with one-in permanent filter and 50 mm supply collar for duct connection.

2.6 42DF/DFD Horizontal Cabinet Unit for Exposed Installation

Unit shall be constructed of steel with morning mist baked enamel finish. Cabinet shall be lined with 12.7mm PU insulation 20kg/m³ density on chassis and plenum box and 6.0mm PE insulation 28.6kg/m³ density on the drain pan and have removable bottom access panel. Unit shall include hinged bar type return air grille on rear of unit with one-in permanent filter and integral double deflection supply grille. The return grille is made of aluminum and the supply grill is galvanized powder painted.

2.7 Fan

Direct driven, double width fan wheels with forward curved blades shall be statically and dynamically balanced. Fan scrolls and wheels shall be constructed of galvanized steel.

2.8 Coils

Standard base unit shall be equipped with a 4-row coil for installation in a 2 pipe system. All coils shall have 7mm (42CETT/CEDD/DC/DCD) and 9.5mm (42CGT/CGD/DE/DED/DF/DFD) seamless copper tubes and “dual sine wave” corrugated aluminum fin plates. Coil fins are mechanically bonded to tube joints. All coils are tested with Nitrogen (N₂) underwater at 400psi while submerged in water. Coils performance shall be rated in accordance to Eurovent Standard (refer to Technical Data for more detail information). Working pressure 1.72 MPa, 0.105 mm fin thickness and 0.24 mm tube wall thickness for 7 mm tube or 0.28 mm tube wall thickness for 3/8” tube.

2.9 Drain Pan

Galvanized drain pan covers entire length & width of coil till the headers. Drain pan is powder coated and is insulated with 1/4” closed cell PE insulation on the outside. The drain pan is with 3/4” and 7/8” male pipe thread connection for 42C series and 42D series respectively.

GUIDE SPECIFICATIONS

3.0 Operating Characteristics

A one coil unit installed in a 2-pipe system shall be capable of providing cooling as determined by the operating mode of the central water supply system.

3.1 Electrical Requirements

Standard unit shall operate on 220/240v, single phase, 50Hz electric power. All internal wiring shall be in flexible metal conduit.

3.2 Motor(s)

Fan motors shall be 3-speed, 220~240v, single phase, 50Hz, permanent split capacitor type, with ball type bearings and oversized oil reservoirs to ensure lubrication. The fan motor(s) shall be equipped with integral automatic temperature reset for thermal overload protection.

Model	Type	Unit Size	Motor Insulation Class	End Closure Type
42CET/CED	ECM	All	E	Open Drip Proof
42CETT/CEDD	AC	All	B	
42CGT/CGD	AC	All	B	
42DC/DCD	ECM	All	E	Open
	AC	All	E	
42DE/DED	AC	All	E	
42DF/DFD	AC	All	E	



LT101
Controller

* EC Motor is available as option (42CET/CED, 42DC/DCD), refer to factory for EC motor data.

3.3 Filter

Permanent washable aluminum filters with 21mm thick and 70% gravimetric efficiency as per EN779 Standard.

Arrestance or Dust Spot Efficiency	US Ashrae 52.2	European Union EN779 Class	
AFI 65% - 70%	MERV 2	G2	65% ≤ Am ≤ 85%

* Refer to factory for MERV 2, G2 efficiency of synthetic fiber filter option.

* Filter access by rear bottom removal.



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42CETT&DD/EUROVENT

NIL

JULY

2019

42CETT&DD/EUROVENT-C19-2PD