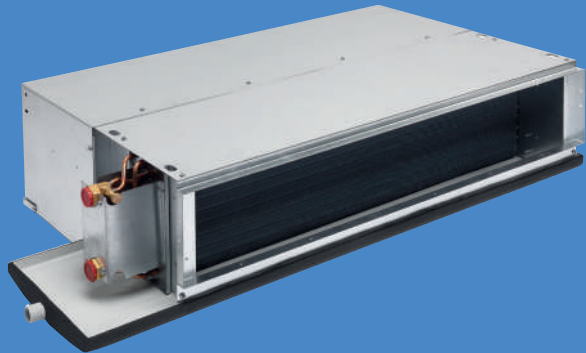




PRODUCT SELECTION DATA

DUCTABLE FAN COIL UNIT



- Ductable unit for horizontal concealed ceiling applications
- Air flow 222 m³/h - 2660 m³/h
- Wide range of operation
- Easy installation & maintenance
- CE & Eurovent certified

DUCTABLE FAN COIL UNITS 42CT

The Carrier 42CT is available in different sizes with 2-pipe or 4-pipe coils, with an air flow range from 222 m³/h to 2660 m³/h, a total cooling capacity range from 1,2 kW to 14,5 kW and a heating capacity range from 1,6 kW to 16,2 kW.



CARRIER participates in the ECP programme for FC/CFP
Check ongoing validity of certificate:
www.eurovent-certification.com



1. GENERAL

- Ductable fan coil units for horizontal concealed ceiling applications
- Reliable and economical solution for buildings, hotels, hospitals, offices or any other required commercial or residential applications
- Compact design with hydrophilic blue fin coil
- Low height for all sizes with rear plenum
- 3-speed AC fan motors for the right amount of conditioned air
- Washable standard filters with easy access
- Standard supply flange
- Standard rear plenum
- Optional extra extended drain pan with stainless steel alternative
- Optional ISO Coarse %40 filter
- Factory installed electrical box
- Certified performance
- User friendly cloud base selection software for quick selections



2. MODEL NUMBER NOMENCLATURE

42CT is easy to configure with its standard features to speed up the ordering process. Standard washable filter, factory installed rear plenum and rectangular supply flange gives the advantage to create and track the coding easily.

Model Code	Description	Detail
42	Fan Coil	42: Fan Coil
CT	Model Name	CT: Horizontal Concealed Type
02	Model Size	02, 03, 04, 05, 06, 08, 10, 12, 14
30	Coil Row	30: 2 pipe 3 row 40: 2 pipe 4 row 31: 4 pipe 3 +1 row
S	Standard Motor	S: Standard AC Motor
1	Power Supply	1: 220/240V-1Ph-50Hz
SP	Drain Pan	SP: Standard Painted EP: Extended Painted SS: Standard Stainless Steel ES: Extended Stainless Steel
RR	Plenum	RR: Rear Return BR: Bottom Return
1	Filter	1: Standard Filter 2: ISO Coarse %40 Filter
L	Connection	L: Left R: Right
F	Fresh Air Intake	F: Yes N: No
0	Version	0: Version

3. TECHNICAL DESCRIPTION

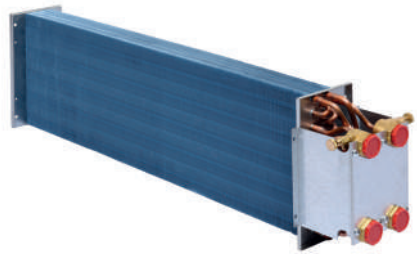
3.1. Casing

The casing is made of galvanised sheet steel with high-efficiency internal lining for optimised thermal and sound insulation of the unit.

The fan coil unit is available with Euroclass level B-s2-d0 insulation (in compliance with EN13501-1). To minimize the dimensions, the units are equipped with high-efficiency heat exchangers with very high cooling capacity. The condensate drain pan height is optimised. Mounting holes and slots quickens hanging operations.

3.2. Coil

Unit coil using the latest developed wide seam blue hydrophilic aluminum fin, advanced mechanical tube expanding process, ensure copper tube optimally contacts with aluminium fin. Wide seam hydrophilic aluminium fin provide sufficient heat transfer channel for heat exchanger, wide impeller provide uniformly air velocity environment for heat transfer.



It makes the heat transfer more complete, which ensures the cooling capacity per input power of 42CT outperforms other similar products. Metal sheet casing prevents any damage on header and coil connections.

- Aluminium fins mechanically bonded by expansion onto copper tubes
- With 7 mm copper tubes and special coil design, unit can supply high cooling and heating capacity with minimized dimensions even in bigger size models
- $\frac{3}{4}$ " threaded female water inlet and outlet connections for all sizes
- Operating pressure of 16 bar

Maximum hot water inlet temperature:

- 4-pipe application: 90°C
- 2-pipe application: 90°C

3.3. Fan

42CT unit equipped with newly designed wide and large diameter impeller, low speed forward multi-blade. The fan casing is strengthened with reinforcing ribs for additional strength.

It adopts NSK bearings, ensuring small vibration and low noise in operation. One to four wheel fans depending on the unit size.



3.4. Electric Motor

The 42CT has 3 speed fan motor with totally enclosed casing structure and it has great advantages in efficiency, noise and energy saving.

Fan motors of all types are;

- Asynchronous motors, 4 poles with internal overload protection
- Permanent split capacitor
- Power supply: 220V-240V/1Ph/50Hz
- Level of Protection: IP20
- Class B insulation

3.5. Electrical Box

Electrical Box is standard in 42CT for all models. The unit is factory-fitted with an electrical box with the 3 standard speeds connected to a terminal strip. With the electrical box, the installer can connect the unit to a terminal board. The electrical box can be opened with a screw driver. Electrical box can be mounted to both sides of the units thanks to its long wiring.

3.6. Condensate Drain Pan

Condensate drain pan is cold roll steel with powder coating and drain pan has its own angled surface so that condensate can be drain out smoothly. Drain pan design enhance the strength of drain pan, avoid drain pan deformation in transportation.



- Drain connection diameter is 3/4" threaded nipple
- 6 mm flexible elastomeric rubber foam insulation
- Fire rating B-s2-d0 incompliance with EN13501-1
- Stainless steel and extended length drain pans are optional

3.7. Plenums

Factory mounted rear air plenum is standard in all sizes and models of the unit for a better quality and appearance. Along with the air plenum box, filter is also supplied in standard and ISO Coarse %40 filter (in compliance with ISO 16890) is optional for a better indoor air quality. Unit can also be supplied with bottom plenum option.

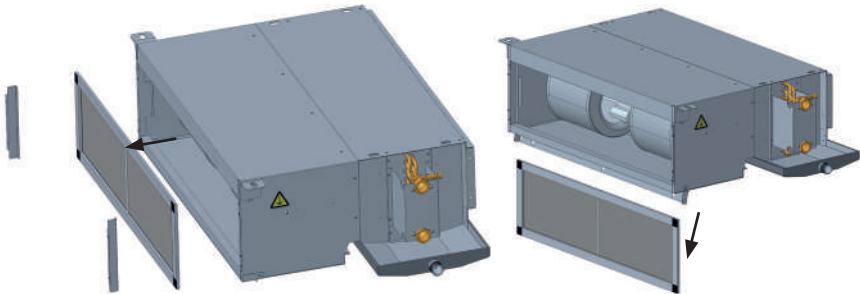
3.8. Air Filter

All the models are supplied with standard factory installed washable nylon mesh filter with aluminium frame. With its special design, filters can be removed on both rear or bottom side of the unit easily. The unit can also be supplied with ISO Coarse %40 filter (in compliance with ISO 16890) for a better air quality as an optional.

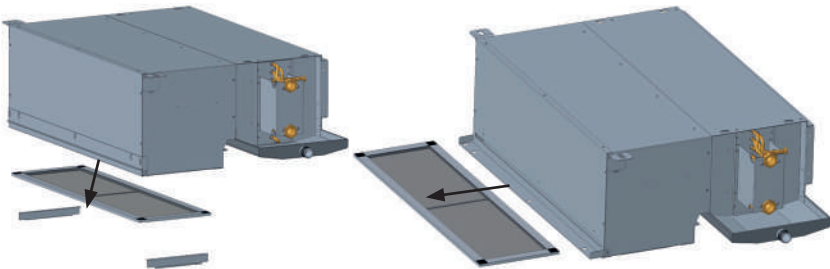
3.8.1. Filter Access

Filters can be easily removed from both the back and the bottom side of the unit without any necessity of extra equipment thanks to the clamps.

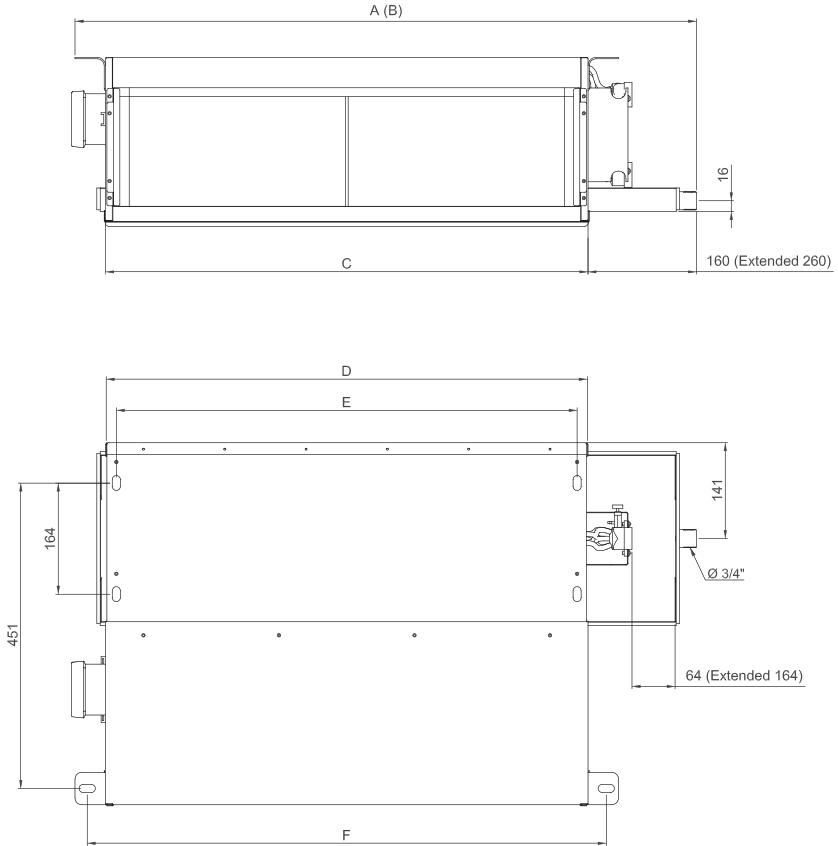
Unit with rear plenum



Unit with bottom plenum

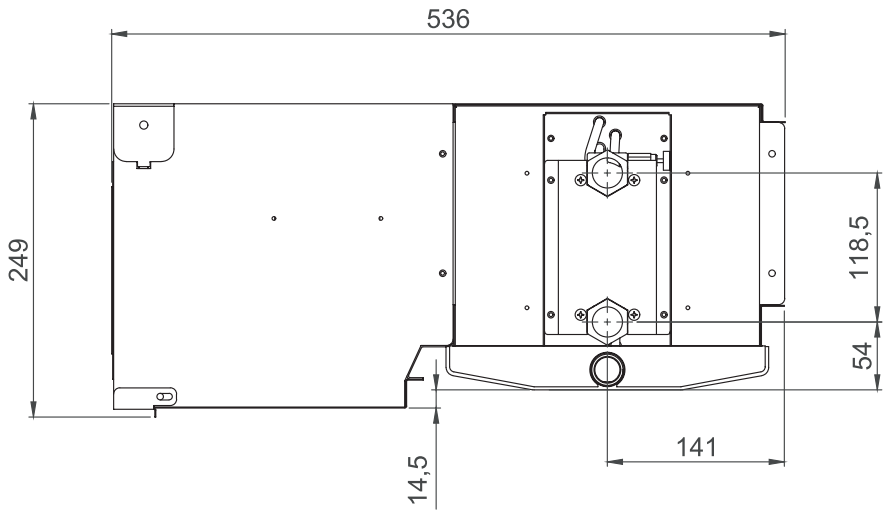


4. DIMENSIONS & WATER COIL CONNECTIONS

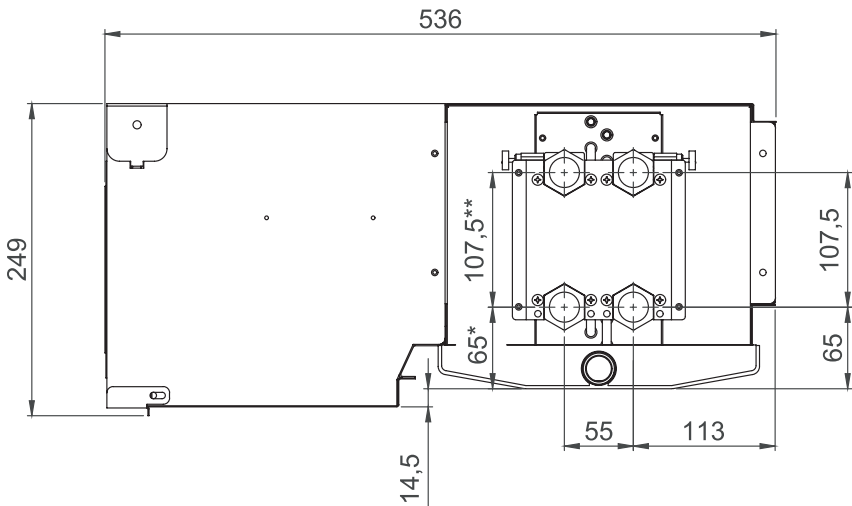


SIZE	A (Standard)	B (Extended)	C	D	E	F
02	703	803	492	490	460	546
03	843	943	632	630	600	686
04	923	1023	712	710	680	766
05	1003	1103	792	790	760	846
06	1163	1263	952	950	920	1006
08	1483	1583	1272	1270	1240	1326
10	1533	1633	1322	1320	1290	1376
12	1733	1833	1522	1520	1490	1576
14	2103	2203	1892	1890	1860	1946

Standard 2 pipe unit with rear plenum

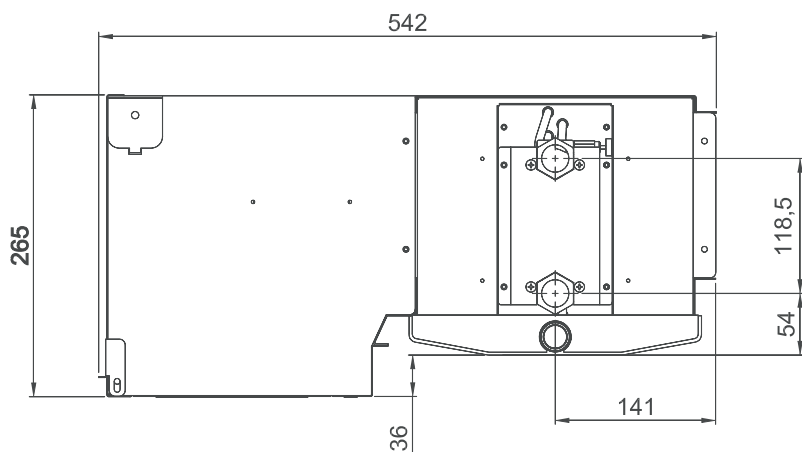
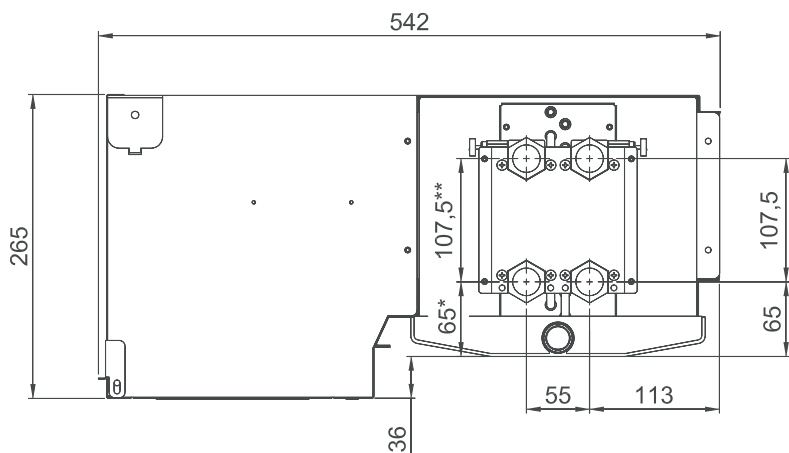


Standard 4 pipe unit with rear plenum



* For the unit size 14, dimension is 54 mm

** For the unit size 14, dimension is 118,5 mm

Standard 2 pipe unit with bottom plenum*Standard 4 pipe unit with bottom plenum*

* For the unit size 14, dimension is 54 mm

** For the unit size 14, dimension is 118,5 mm

5. PERFORMANCE DATA

42CT	0230			0240			0231			
Fan speed (Eurovent certified speeds)		H	M	L	H	M	L	H	M	L
Coil type		2 Pipe*			2 Pipe*			4 Pipe**		
Air flow	l/s	133	105	62	127	102	62	128	103	63
	m ³ /h	480	379	222	459	368	225	461	372	227
Available static pressure		0	0	0	0	0	0	0	0	0
Cooling mode										
Total cooling capacity	kW	2,49	2,06	1,28	2,55	2,12	1,38	2,52	2,15	1,44
Sensible cooling capacity	kW	1,87	1,53	0,94	1,88	1,55	0,99	2,52	2,15	1,44
Water flow	l/s	0,12	0,10	0,06	0,12	0,10	0,07	0,12	0,10	0,07
	l/h	431	360	225	450	371	243	438	377	253
Water pressure drop	kPa	28,9	21,6	10,6	23,6	17,6	9,6	34,4	26,8	13,8
Heating mode										
Heating capacity	kW	3,03	2,52	1,64	3,08	2,57	1,71	3,04	2,66	1,94
Water flow	l/s	0,14	0,12	0,08	0,15	0,12	0,08	0,07	0,06	0,05
	l/h	517	436	275	523	444	287	263	231	169
Water pressure drop	kPa	28,8	21,9	10,8	22,4	17,4	9,3	17,5	14,2	8,6
Sound levels										
Sound power level	dB(A)	55	51	37	55	51	37	55	51	37
Electrical data, motor										
Power input	W	51	42	32	51	42	32	50	42	32
Input current	A	0,22	0,18	0,14	0,22	0,18	0,14	0,22	0,18	0,14
Eurovent FCEER/FCCOP data class		E	E	E	E	E	E	E	E	E

Fan speed: L = Low, M = Medium, H = High

*Eurovent standard cooling conditions: air inlet temperature 27°C dry bulb/19°C wet bulb, water inlet/outlet temperature 7°C/12°C.

**Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 45°C/40°C.

***Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 65°C/60°C.

42CT	0330			0340			0331			
Fan speed (Eurovent certified speeds)		H	M	L	H	M	L	H	M	L
Coil type		2 Pipe*			2 Pipe*			4 Pipe**		
Air flow	l/s	208	161	105	194	154	102	193	155	104
	m ³ /h	750	581	377	699	555	367	696	558	375
Available static pressure		0	0	0	0	0	0	0	0	0
Cooling mode										
Total cooling capacity	kW	4,05	3,36	2,39	4,10	3,43	2,44	3,64	3,10	2,28
Sensible cooling capacity	kW	2,97	2,42	1,67	2,93	2,41	1,68	2,97	2,49	1,78
Water flow	l/s	0,20	0,16	0,12	0,20	0,17	0,12	0,18	0,15	0,11
	l/h	709	584	423	719	607	427	638	548	400
Water pressure drop	kPa	35,0	25,2	14,8	25,2	19,0	10,8	25,9	20,1	12,0
Heating mode										
Heating capacity	kW	4,62	3,80	2,69	4,60	3,83	2,73	4,46	3,90	3,04
Water flow	l/s	0,22	0,18	0,13	0,22	0,18	0,13	0,11	0,09	0,07
	l/h	785	651	463	791	657	467	384	334	263
Water pressure drop	kPa	30,7	22,4	12,8	22,0	16,2	9,3	21,5	17,1	11,4
Sound levels										
Sound power level	dB(A)	57	51	41	56	51	40	56	51	41
Electrical data, motor										
Power input	W	81	71	58	79	70	57	79	70	57
Input current	A	0,35	0,31	0,25	0,35	0,30	0,25	0,35	0,30	0,25
Eurovent FCEER/FCCOP data class		E	E	E	E	E	E	E	E	E

Fan speed: L = Low, M = Medium, H = High

*Eurovent standard cooling conditions: air inlet temperature 27°C dry bulb/19°C wet bulb, water inlet/outlet temperature 7°C/12°C.

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***Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 65°C/60°C.

42CT	0430			0440			0431			
Fan speed (Eurovent certified speeds)	H	M	L	H	M	L	H	M	L	
Coil type	2 Pipe*			2 Pipe*			4 Pipe**			
Air flow	l/s	232	190	130	231	188	129	219	183	129
	m ³ /h	836	685	468	831	676	465	790	659	465
Available static pressure		0	0	0	0	0	0	0	0	0
Cooling mode										
Total cooling capacity	kW	4,37	3,78	2,80	4,69	4,01	2,95	3,97	3,48	2,65
Sensible cooling capacity	kW	3,25	2,77	2,00	3,40	2,87	2,07	3,30	2,85	2,12
Water flow	l/s	0,21	0,18	0,14	0,23	0,19	0,14	0,19	0,17	0,13
	l/h	763	663	495	822	701	513	696	607	461
Water pressure drop	kPa	24,2	19,2	12,0	21,7	16,7	10,2	18,5	14,7	9,5
Heating mode										
Heating capacity	kW	5,10	4,39	3,25	5,36	4,56	3,37	5,03	4,51	3,63
Water flow	l/s	0,24	0,21	0,15	0,26	0,22	0,16	0,12	0,11	0,09
	l/h	870	747	556	923	775	573	433	388	312
Water pressure drop	kPa	22,4	17,4	10,8	19,6	14,7	9,2	28,6	23,8	16,4
Sound levels										
Sound power level	dB(A)	61	57	48	61	57	48	61	56	48
Electrical data, motor										
Power input	W	87	77	65	86	76	65	85	76	65
Input current	A	0,38	0,33	0,28	0,38	0,33	0,28	0,37	0,33	0,28
Eurovent FCEER/FCCOP data class		E	E	E	E	E	E	E	E	E

Fan speed: L = Low, M = Medium, H = High

*Eurovent standard cooling conditions: air inlet temperature 27°C dry bulb/19°C wet bulb, water inlet/outlet temperature 7°C/12°C.

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***Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 65°C/60°C.

42CT	0530			0540			0531			
Fan speed (Eurovent certified speeds)	H	M	L	H	M	L	H	M	L	
Coil type	2 Pipe*			2 Pipe*			4 Pipe**			
Air flow	l/s	298	218	162	295	219	162	288	217	162
	m ³ /h	1.072	785	584	1.062	787	583	1037	782	582
Available static pressure		0	0	0	0	0	0	0	0	0
Cooling mode										
Total cooling capacity	kW	5,63	4,49	3,58	5,83	4,64	3,63	5,21	4,26	3,41
Sensible cooling capacity	kW	4,38	3,41	2,66	4,49	3,50	2,69	4,30	3,43	2,69
Water flow	l/s	0,27	0,22	0,17	0,28	0,23	0,18	0,25	0,21	0,17
	l/h	976	786	629	1021	818	645	909	752	595
Water pressure drop	kPa	41,0	28,5	19,7	24,0	16,8	11,6	32,2	23,5	16,0
Heating mode										
Heating capacity	kW	6,42	5,08	4,03	6,70	5,32	4,17	6,33	5,36	4,46
Water flow	l/s	0,30	0,24	0,19	0,32	0,25	0,20	0,15	0,13	0,11
	l/h	1.094	870	691	1.139	904	716	545	460	384
Water pressure drop	kPa	36,8	25,0	17,1	21,5	14,8	10,3	47,8	35,8	26,3
Sound levels										
Sound power level	dB(A)	63	57	51	62	57	51	62	57	51
Electrical data, motor										
Power input	W	114	99	90	113	99	90	112	99	90
Input current	A	0,49	0,43	0,39	0,49	0,43	0,39	0,49	0,43	0,39
Eurovent FCEER/FCCOP data class		E	E	E	E	E	E	E	E	E

Fan speed: L = Low, M = Medium, H = High

*Eurovent standard cooling conditions: air inlet temperature 27°C dry bulb/19°C wet bulb, water inlet/outlet temperature 7°C/12°C.

**Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 45°C/40°C.

***Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 65°C/60°C.

42CT	0630			0640			0631			
Fan speed (Eurovent certified speeds)	H	M	L	H	M	L	H	M	L	
Coil type	2 Pipe*			2 Pipe*			4 Pipe**			
Air flow	I/s	327	259	168	323	254	169	304	245	165
	m ³ /h	1.176	934	604	1.164	914	608	1.095	882	594
Available static pressure		0	0	0	0	0	0	0	0	0
Cooling mode										
Total cooling capacity	kW	6,17	5,22	3,72	6,44	5,36	3,84	5,55	4,75	3,50
Sensible cooling capacity	kW	5,06	4,20	2,90	5,21	4,26	2,98	4,58	3,85	2,76
Water flow	I/s	0,30	0,25	0,18	0,31	0,26	0,19	0,27	0,23	0,17
	l/h	1,077	916	661	1.132	935	675	983	835	620
Water pressure drop	kPa	33,9	25,9	15,2	23,0	17,0	10,3	25,9	19,8	12,3
Heating mode										
Heating capacity	kW	7,09	5,97	4,24	7,41	6,14	4,42	6,77	5,95	4,66
Water flow	I/s	0,34	0,28	0,20	0,35	0,29	0,21	0,16	0,14	0,11
	l/h	1,218	1,017	721	1,266	1,051	747	582	515	401
Water pressure drop	kPa	31,0	23,0	13,2	20,8	15,4	9,1	20,3	16,5	10,9
Sound levels										
Sound power level	dB(A)	64	58	49	64	58	49	63	58	49
Electrical data, motor										
Power input	W	125	117	97	124	115	97	121	112	97
Input current	A	0,54	0,51	0,42	0,54	0,50	0,42	0,53	0,49	0,42
Eurovent FCEER/FCCOP data class		E	E	E	E	E	E	E	E	E

Fan speed: L = Low, M = Medium, H = High

*Eurovent standard cooling conditions: air inlet temperature 27°C dry bulb/19°C wet bulb, water inlet/outlet temperature 7°C/12°C.

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***Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 65°C/60°C.

42CT	0830			0840			0831			
Fan speed (Eurovent certified speeds)	H	M	L	H	M	L	H	M	L	
Coil type	2 Pipe*			2 Pipe*			4 Pipe**			
Air flow	I/s	486	371	239	461	355	236	467	356	235
	m ³ /h	1.750	1.337	862	1.660	1.280	850	1.680	1.283	847
Available static pressure		0	0	0	0	0	0	0	0	0
Cooling mode										
Total cooling capacity	kW	9,15	7,55	5,38	9,56	7,87	5,66	8,55	7,06	5,14
Sensible cooling capacity	kW	7,46	6,02	4,17	7,59	6,12	4,30	7,36	5,94	4,21
Water flow	I/s	0,44	0,37	0,26	0,47	0,38	0,27	0,41	0,34	0,25
	l/h	1,597	1,329	953	1,683	1,370	989	1,490	1,239	899
Water pressure drop	kPa	44,3	32,6	19,0	35,7	25,5	15,3	35,3	26,0	15,5
Heating mode										
Heating capacity	kW	10,54	8,62	6,10	10,67	8,71	6,25	10,23	8,72	6,74
Water flow	I/s	0,50	0,41	0,29	0,51	0,41	0,30	0,25	0,21	0,16
	l/h	1,804	1,463	1,033	1,829	1,493	1,068	884	749	579
Water pressure drop	kPa	40,5	28,6	16,3	30,8	22,2	13,1	25,5	19,4	12,7
Sound levels										
Sound power level	dB(A)	63	58	48	63	58	48	63	58	48
Electrical data, motor										
Power input	W	192	172	142	183	166	141	185	166	141
Input current	A	0,83	0,75	0,62	0,80	0,72	0,61	0,80	0,72	0,61
Eurovent FCEER/FCCOP data class		E	E	E	E	E	E	E	E	E

Fan speed: L = Low, M = Medium, H = High

*Eurovent standard cooling conditions: air inlet temperature 27°C dry bulb/19°C wet bulb, water inlet/outlet temperature 7°C/12°C.

**Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 45°C/40°C.

***Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 65°C/60°C.

42CT	1030			1040			1031			
Fan speed (Eurovent certified speeds)	H	M	L	H	M	L	H	M	L	
Coil type	2 Pipe*			2 Pipe*			4 Pipe**			
Air flow	I/s	553	413	296	515	401	296	529	409	297
	m ³ /h	1.992	1.487	1.067	1.854	1.445	1.064	1.906	1.473	1.070
Available static pressure		0	0	0	0	0	0	0	0	0
Cooling mode										
Total cooling capacity	kW	10,20	8,31	6,49	10,55	8,77	6,91	9,50	7,94	6,27
Sensible cooling capacity	kW	8,36	6,63	5,05	8,39	6,84	5,28	8,22	6,71	5,17
Water flow	I/s	0,49	0,40	0,31	0,52	0,43	0,34	0,46	0,39	0,31
	l/h	1.777	1.454	1.132	1.862	1.549	1.213	1.669	1.400	1.114
Water pressure drop	kPa	45,9	32,9	21,8	38,8	28,6	19,3	53,5	41,0	29,5
Heating mode										
Heating capacity	kW	11,75	9,46	7,31	11,76	9,71	7,60	10,90	9,38	7,73
Water flow	I/s	0,56	0,45	0,35	0,56	0,46	0,36	0,26	0,22	0,18
	l/h	2.001	1.606	1.248	2.008	1.650	1.291	938	803	660
Water pressure drop	kPa	41,9	29,0	19,2	33,0	23,9	16,2	29,2	22,5	16,3
Sound levels										
Sound power level	dB(A)	68	61	54	67	61	54	68	61	54
Electrical data, motor										
Power input	W	217	197	173	208	192	173	212	195	173
Input current	A	0,95	0,86	0,75	0,91	0,83	0,75	0,92	0,85	0,75
Eurovent FCEER/FCCOP data class		E	E	E	E	E	E	E	E	E

Fan speed: L = Low, M = Medium, H = High

*Eurovent standard cooling conditions: air inlet temperature 27°C dry bulb/19°C wet bulb, water inlet/outlet temperature 7°C/12°C.

**Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 45°C/40°C.

***Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 65°C/60°C.

42CT	1230			1240			1231			
Fan speed (Eurovent certified speeds)	H	M	L	H	M	L	H	M	L	
Coil type	2 Pipe*			2 Pipe*			4 Pipe**			
Air flow	I/s	700	558	417	655	535	408	626	526	407
	m ³ /h	2.521	2.007	1.500	2.357	1.926	1.469	2.254	1.893	1.464
Available static pressure		0	0	0	0	0	0	0	0	0
Cooling mode										
Total cooling capacity	kW	12,59	10,79	8,74	12,95	11,21	9,12	11,22	9,95	8,28
Sensible cooling capacity	kW	10,39	8,70	6,88	10,42	8,86	7,07	9,69	8,46	6,89
Water flow	I/s	0,61	0,52	0,43	0,64	0,55	0,44	0,54	0,49	0,40
	l/h	2.200	1.878	1.535	2.289	1.966	1.590	1.958	1.757	1.455
Water pressure drop	kPa	56,5	43,3	31,0	41,9	32,6	23,2	49,3	41,1	30,1
Heating mode										
Heating capacity	kW	14,53	12,31	9,87	14,30	12,29	9,97	12,89	11,65	10,00
Water flow	I/s	0,69	0,58	0,47	0,68	0,58	0,47	0,31	0,28	0,24
	l/h	2.472	2.089	1.686	2.437	2.087	1.684	1.108	1.000	857
Water pressure drop	kPa	51,4	38,8	27,2	35,1	27,3	19,4	44,0	37,0	28,6
Sound levels										
Sound power level	dB(A)	68	64	58	68	63	58	68	63	58
Electrical data, motor										
Power input	W	269	247	224	260	239	219	254	236	219
Input current	A	1,17	1,07	0,97	1,13	1,04	0,95	1,11	1,02	0,95
Eurovent FCEER/FCCOP data class		E	E	E	E	E	E	E	E	E

Fan speed: L = Low, M = Medium, H = High

*Eurovent standard cooling conditions: air inlet temperature 27°C dry bulb/19°C wet bulb, water inlet/outlet temperature 7°C/12°C.

**Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 45°C/40°C.

***Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 65°C/60°C.

42CT	1430			1440			1431			
Fan speed (Eurovent certified speeds)	H	M	L	H	M	L	H	M	L	
Coil type	2 Pipe*			2 Pipe*			4 Pipe**			
Air flow	l/s	745	613	392	739	605	393	677	554	383
	m ³ /h	2.683	2.206	1.411	2.660	2.178	1.415	2.439	1.994	1.380
Available static pressure		0	0	0	0	0	0	0	0	0
Cooling mode										
Total cooling capacity	kW	13,50	11,81	8,50	14,54	12,59	9,05	12,49	10,89	8,29
Sensible cooling capacity	kW	11,08	9,52	6,60	11,61	9,89	6,89	10,73	9,17	6,77
Water flow	l/s	0,67	0,58	0,42	0,71	0,62	0,45	0,62	0,53	0,41
	l/h	2.400	2.086	1.504	2.557	2.235	1.617	2.221	1.907	1.459
Water pressure drop	kPa	56,2	44,5	26,0	54,1	43,2	25,5	52,3	40,6	26,2
Heating mode										
Heating capacity	kW	15,70	13,62	9,69	16,20	13,95	9,97	14,25	12,67	10,15
Water flow	l/s	0,74	0,64	0,45	0,77	0,65	0,47	0,34	0,30	0,24
	l/h	2.680	2.299	1.627	2.759	2.356	1.684	1.224	1.081	866
Water pressure drop	kPa	50,8	39,3	22,3	46,3	35,7	20,7	57,3	46,3	31,9
Sound levels										
Sound power level	dB(A)	70	65	55	70	65	55	69	64	55
Electrical data, motor										
Power input	W	362	332	289	360	329	290	346	309	280
Input current	A	1,57	1,44	1,26	1,57	1,43	1,26	1,50	1,34	1,22
Eurovent FCER/FCCOP data class		E	E	E	E	E	E	E	E	E

Fan speed: L = Low, M = Medium, H = High

*Eurovent standard cooling conditions: air inlet temperature 27°C dry bulb/19°C wet bulb, water inlet/outlet temperature 7°C/12°C.

**Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 45°C/40°C.

**Eurovent standard heating conditions: air inlet temperature 20°C dry bulb/15°C wet bulb, water inlet/outlet temperature 65°C/60°C.

6. ELECTRICAL DATA

Fan operation 230V/1ph/50Hz and values are given for units with standard filter.

42CT 2 Pipe 3 Rows Models

42CT0230S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,14	31,80	222	0
	0,14	31,15	196	10
	0,13	30,74	180	15
	0,13	29,55	142	25
	0,12	28,51	114	30
Medium Speed	0,12	27,30	88	40
	0,18	41,94	379	0
	0,18	41,31	351	10
	0,18	40,97	336	15
	0,17	39,76	288	30
High Speed	0,17	38,75	253	40
	0,16	37,49	214	50
	0,22	50,69	480	0
	0,22	50,08	451	10
	0,22	49,73	436	15
	0,21	48,53	390	30
	0,20	46,56	326	50
	0,20	45,39	294	60

42CT 2 Pipe 4 Rows Models

42CT0240S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,14	31,86	225	0
	0,14	31,29	201	10
	0,13	30,94	188	15
	0,13	30,03	156	25
	0,13	29,39	137	30
Medium Speed	0,12	27,08	83	40
	0,18	41,70	368	0
	0,18	41,11	342	10
	0,18	40,79	329	15
	0,17	39,67	285	30
High Speed	0,17	38,77	254	40
	0,16	37,67	219	50
	0,22	50,25	459	0
	0,22	49,64	432	10
	0,21	49,30	418	15
	0,21	48,15	376	30
	0,20	46,32	319	50
	0,20	45,25	290	60

42CT 4 Pipe 3+1 Rows Models

42CT0231S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,14	31,91	227	0
	0,14	31,34	203	10
	0,13	30,98	189	15
	0,13	30,02	156	25
	0,13	29,31	135	30
Medium Speed	0,12	27,26	87	40
	0,18	41,79	372	0
	0,18	41,21	347	10
	0,18	40,90	333	15
	0,17	39,79	290	30
High Speed	0,17	38,89	258	40
	0,16	37,79	223	50
	0,22	50,31	461	0
	0,22	49,72	435	10
	0,21	49,39	422	15
	0,21	48,28	381	30
	0,20	46,48	324	50
	0,20	45,42	295	60

42CT0330S

	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,25	57,54	377	0
	0,24	55,59	310	10
	0,24	54,75	284	15
	0,23	53,26	240	25
	0,23	52,59	220	30
Medium Speed	0,22	51,31	184	40
	0,31	70,60	581	0
	0,30	69,48	544	10
	0,30	68,77	523	15
	0,29	65,86	450	30
High Speed	0,27	62,69	384	40
	0,24	56,24	274	50
	0,35	81,25	750	0
	0,35	79,78	708	10
	0,34	79,01	686	15
	0,33	76,51	616	30
	0,31	72,40	508	50
	0,30	69,72	443	60

42CT0340S

	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,25	57,27	367	0
	0,24	55,65	312	10
	0,24	54,91	289	15
	0,23	53,56	248	25
	0,23	52,93	230	30
Medium Speed	0,23	51,75	196	40
	0,30	69,58	555	0
	0,30	68,63	519	10
	0,30	67,90	499	15
	0,28	65,02	431	30
High Speed	0,27	62,09	372	40
	0,25	56,63	280	50
	0,35	79,46	699	0
	0,34	78,10	661	10
	0,34	77,39	640	15
	0,33	75,04	576	30
	0,31	71,23	479	50
	0,30	68,82	423	60

42CT0331S

	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,25	57,49	375	0
	0,24	55,79	317	10
	0,24	55,02	292	15
	0,23	53,60	250	25
	0,23	52,95	231	30
Medium Speed	0,22	51,71	195	40
	0,30	69,94	558	0
	0,30	68,78	523	10
	0,30	68,08	504	15
	0,28	65,33	438	30
High Speed	0,27	62,54	381	40
	0,25	57,27	290	50
	0,35	79,36	696	0
	0,34	78,07	660	10
	0,34	77,39	641	15
	0,33	75,16	579	30
	0,31	71,50	486	50
	0,30	69,17	431	60

42CT0430S

	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,28	64,58	468	0
	0,28	63,60	433	10
	0,27	62,88	415	15
	0,27	61,01	375	25
	0,26	59,83	353	30
Medium Speed	0,25	56,83	302	40
	0,33	76,79	685	0
	0,33	74,90	646	10
	0,32	73,95	626	15
	0,31	70,86	558	30
High Speed	0,30	68,48	507	40
	0,29	65,61	447	50
	0,38	86,64	836	0
	0,37	84,90	798	10
	0,37	84,03	778	15
	0,35	81,36	714	30
	0,34	77,28	612	50
	0,32	74,74	550	60

42CT0440S

	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,28	64,51	465	0
	0,28	63,53	432	10
	0,27	62,85	414	15
	0,27	61,14	377	25
	0,26	60,10	357	30
Medium Speed	0,25	57,57	314	40
	0,33	76,33	676	0
	0,32	74,44	636	10
	0,32	73,48	616	15
	0,31	70,41	548	30
High Speed	0,30	68,09	499	40
	0,28	65,39	443	50
	0,38	86,43	831	0
	0,37	84,60	791	10
	0,36	83,70	770	15
	0,35	80,92	703	30
	0,33	76,73	599	50
	0,32	74,19	537	60

42CT0431S

	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,28	64,52	465	0
	0,28	63,57	433	10
	0,27	62,90	416	15
	0,27	61,21	379	25
	0,26	60,16	358	30
Medium Speed	0,25	57,54	314	40
	0,33	75,50	659	0
	0,32	73,83	623	10
	0,32	72,97	604	15
	0,31	70,17	543	30
High Speed	0,30	68,01	497	40
	0,28	65,46	444	50
	0,37	84,54	790	0
	0,36	83,06	755	10
	0,36	82,30	737	15
	0,35	79,92	678	30
	0,33	76,23	586	50
	0,32	73,94	531	60

42CT 2 Pipe 3 Rows Models

		42CT0530S			
		Current	Power Consumption	Air Flow	ESP
		A	W	m ³ /h	Pa
Low Speed	0,39	89,68	584	0	
	0,38	87,80	556	10	
	0,38	86,76	542	15	
	0,37	84,47	510	25	
	0,36	83,19	493	30	
Medium Speed	0,35	80,26	455	40	
	0,43	99,35	785	0	
	0,42	96,23	741	10	
	0,41	94,68	719	15	
	0,39	90,05	653	30	
High Speed	0,38	86,91	607	40	
	0,36	83,68	562	50	
	0,49	113,64	1072	0	
	0,48	110,13	996	10	
	0,47	108,36	960	15	
0,45	102,99	854	30		
0,42	95,61	722	50		
0,40	91,78	660	60		

42CT 2 Pipe 4 Rows Models

		42CT0540S			
		Current	Power Consumption	Air Flow	ESP
		A	W	m ³ /h	Pa
Low Speed	0,39	89,58	583	0	
	0,38	87,62	554	10	
	0,38	86,53	538	15	
	0,37	84,10	505	25	
	0,36	82,71	487	30	
Medium Speed	0,35	79,46	445	40	
	0,43	99,49	787	0	
	0,42	96,35	743	10	
	0,41	94,79	721	15	
	0,39	90,05	653	30	
High Speed	0,38	86,79	606	40	
	0,36	83,40	558	50	
	0,49	113,17	1062	0	
	0,48	109,93	992	10	
	0,47	108,27	958	15	
0,45	103,12	857	30		
0,42	95,74	725	50		
0,40	91,80	660	60		

42CT 4 Pipe 3+1 Rows Models

		42CT0531S			
		Current	Power Consumption	Air Flow	ESP
		A	W	m ³ /h	Pa
Low Speed	0,39	89,52	582	0	
	0,38	87,47	552	10	
	0,38	86,33	535	15	
	0,36	83,72	500	25	
	0,36	82,21	480	30	
Medium Speed	0,34	78,54	434	40	
	0,43	99,13	782	0	
	0,42	95,86	736	10	
	0,41	94,22	713	15	
	0,39	89,22	641	30	
High Speed	0,37	85,73	591	40	
	0,36	82,05	539	50	
	0,49	112,03	1037	0	
	0,47	108,65	966	10	
	0,46	106,90	930	15	
0,44	101,41	825	30		
0,41	93,36	685	50		
0,39	88,97	616	60		

42CT0630S

		42CT0630S			
		Current	Power Consumption	Air Flow	ESP
		A	W	m ³ /h	Pa
Low Speed	0,42	97,07	604	0	
	0,41	95,36	564	10	
	0,41	93,97	544	15	
	0,39	90,62	508	25	
	0,39	88,77	490	30	
Medium Speed	0,37	84,85	456	40	
	0,51	116,55	934	0	
	0,49	112,79	889	10	
	0,48	110,85	866	15	
	0,45	104,61	792	30	
High Speed	0,43	99,99	738	40	
	0,41	94,87	679	50	
	0,54	124,72	1176	0	
	0,53	120,83	1083	10	
	0,52	118,62	1037	15	
0,48	111,01	900	30		
0,43	98,55	720	50		
0,40	91,33	632	60		

42CT0640S

		42CT0640S			
		Current	Power Consumption	Air Flow	ESP
		A	W	m ³ /h	Pa
Low Speed	0,42	97,11	608	0	
	0,42	95,67	569	10	
	0,41	94,37	550	15	
	0,40	91,16	513	25	
	0,39	89,35	495	30	
Medium Speed	0,37	85,47	461	40	
	0,50	114,88	914	0	
	0,48	111,46	873	10	
	0,48	109,68	852	15	
	0,45	103,96	784	30	
High Speed	0,43	99,71	735	40	
	0,41	94,98	681	50	
	0,54	124,26	1164	0	
	0,53	121,44	1097	10	
	0,52	119,86	1062	15	
0,50	114,38	957	30		
0,46	105,12	810	50		
0,43	99,53	733	60		

42CT0631S

		42CT0631S			
		Current	Power Consumption	Air Flow	ESP
		A	W	m ³ /h	Pa
Low Speed	0,42	96,85	594	0	
	0,41	94,96	558	10	
	0,41	93,63	540	15	
	0,39	90,51	507	25	
	0,39	88,79	490	30	
Medium Speed	0,37	85,13	458	40	
	0,49	112,15	882	0	
	0,47	108,77	841	10	
	0,47	107,01	820	15	
	0,44	101,36	754	30	
High Speed	0,42	97,19	706	40	
	0,40	92,59	654	50	
	0,53	121,35	1095	0	
	0,51	118,27	1030	10	
	0,51	116,57	997	15	
0,48	110,86	897	30		
0,44	101,65	761	50		
0,42	96,31	692	60		

42CT0830S

		42CT0830S			
		Current	Power Consumption	Air Flow	ESP
		A	W	m ³ /h	Pa
Low Speed	0,62	142,24	862	0	
	0,59	135,19	789	10	
	0,58	132,52	760	15	
	0,56	128,30	709	25	
	0,55	126,60	686	30	
Medium Speed	0,54	123,78	644	40	
	0,75	172,31	1337	0	
	0,71	163,17	1253	10	
	0,69	159,33	1215	15	
	0,65	149,97	1108	30	
High Speed	0,63	145,11	1042	40	
	0,61	141,06	981	50	
	0,83	191,98	1750	0	
	0,80	184,57	1674	10	
	0,79	181,19	1635	15	
0,75	171,97	1513	30		
0,70	161,01	1332	50		
0,68	155,76	1233	60		

42CT0840S

		42CT0840S			
		Current	Power Consumption	Air Flow	ESP
		A	W	m ³ /h	Pa
Low Speed	0,61	141,11	850	0	
	0,59	134,84	785	10	
	0,58	132,38	758	15	
	0,56	128,41	710	25	
	0,55	126,78	688	30	
Medium Speed	0,54	124,04	648	40	
	0,72	165,90	1280	0	
	0,69	158,72	1208	10	
	0,68	155,61	1175	15	
	0,64	147,81	1080	30	
High Speed	0,62	143,62	1021	40	
	0,61	140,06	965	50	
	0,80	183,31	1660	0	
	0,77	177,45	1589	10	
	0,76	174,70	1552	15	
0,73	167,02	1436	30		
0,68	157,54	1267	50		
0,66	152,92	1176	60		

42CT0831S

		42CT0831S			
		Current	Power Consumption	Air Flow	ESP
		A	W	m ³ /h	Pa
Low Speed	0,61	140,82	847	0	
	0,59	134,66	783	10	
	0,57	132,23	756	15	
	0,56	128,32	709	25	
	0,55	126,71	687	30	
Medium Speed	0,54	124,00	648	40	
	0,72	166,27	1283	0	
	0,69	158,84	1210	10	
	0,68	155,66	1175	15	
	0,64	147,73	1079	30	
High Speed	0,62	143,51	1019	40	
	0,61	139,95	963	50	
	0,80	185,11	1680	0	
	0,78	178,75	1605	10	
	0,76	175,81	1567	15	
0,73	167,64	1446	30		
0,69	157,73	1271	50		
0,67	152,96	1176	60		

42CT 2 Pipe 3 Rows Models

42CT1030S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,75	173,02	1067	0
	0,74	169,10	1034	10
	0,73	167,30	1016	15
	0,71	163,76	976	25
	0,70	161,94	953	30
Medium Speed	0,69	157,90	900	40
	0,86	196,72	1487	0
	0,83	190,53	1434	10
	0,82	187,53	1406	15
	0,78	178,54	1314	30
High Speed	0,75	172,23	1245	40
	0,72	165,32	1166	50
	0,95	217,38	1992	0
	0,92	211,72	1907	10
	0,91	208,96	1863	15
	0,87	200,83	1733	30
	0,83	190,13	1555	50
	0,80	184,74	1465	60

42CT 2 Pipe 4 Rows Models

42CT1040S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,75	172,64	1064	0
	0,73	168,99	1033	10
	0,73	167,30	1016	15
	0,71	164,00	979	25
	0,71	162,32	958	30
Medium Speed	0,69	158,72	911	40
	0,83	191,74	1445	0
	0,81	186,32	1394	10
	0,80	183,65	1368	15
	0,76	175,50	1282	30
High Speed	0,74	169,77	1217	40
	0,71	163,54	1146	50
	0,91	208,35	1854	0
	0,89	203,73	1780	10
	0,88	201,44	1743	15
	0,85	194,62	1630	30
	0,81	185,48	1477	50
	0,79	180,84	1400	60

42CT 4 Pipe 3+1 Rows Models

42CT1031S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,75	173,39	1070	0
	0,74	169,48	1037	10
	0,73	167,69	1020	15
	0,71	164,21	981	25
	0,71	162,43	959	30
Medium Speed	0,69	158,54	908	40
	0,85	194,97	1473	0
	0,82	189,24	1422	10
	0,81	186,44	1395	15
	0,77	177,98	1308	30
High Speed	0,75	172,02	1243	40
	0,72	165,51	1168	50
	0,92	211,68	1906	0
	0,90	207,00	1832	10
	0,89	204,67	1795	15
	0,86	197,70	1681	30
	0,82	188,28	1524	50
	0,80	183,44	1443	60

42CT1230S

42CT1230S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,97	223,66	1500	0
	0,94	216,08	1444	10
	0,92	212,52	1415	15
	0,89	205,49	1352	25
	0,88	201,93	1318	30
Medium Speed	0,85	194,46	1242	40
	1,07	246,74	2007	0
	1,04	238,90	1929	10
	1,02	235,17	1890	15
	0,98	224,43	1769	30
High Speed	0,95	217,50	1687	40
	0,92	210,64	1604	50
	1,17	268,69	2521	0
	1,14	262,42	2405	10
	1,13	259,28	2347	15
	1,09	249,79	2172	30
	1,03	236,84	1937	50
	1,00	230,17	1818	60

42CT1240S

42CT1240S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,95	219,33	1469	0
	0,92	212,55	1415	10
	0,91	209,27	1387	15
	0,88	202,73	1325	25
	0,87	199,39	1292	30
Medium Speed	0,84	192,37	1220	40
	1,04	238,61	1926	0
	1,01	231,77	1852	10
	0,99	228,45	1815	15
	0,95	218,78	1703	30
High Speed	0,92	212,48	1626	40
	0,90	206,21	1549	50
	1,13	259,82	2357	0
	1,10	254,06	2250	10
	1,09	251,17	2197	15
	1,05	242,45	2037	30
	1,00	230,57	1826	50
	0,98	224,49	1720	60

42CT1231S

42CT1231S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	0,95	218,59	1464	0
	0,92	211,99	1410	10
	0,91	208,79	1382	15
	0,88	202,35	1322	25
	0,87	199,04	1289	30
Medium Speed	0,84	192,06	1217	40
	1,02	235,51	1893	0
	1,00	229,29	1825	10
	0,98	226,24	1790	15
	0,94	217,24	1684	30
High Speed	0,92	211,28	1612	40
	0,89	205,31	1538	50
	1,11	254,27	2254	0
	1,08	249,35	2164	10
	1,07	246,86	2118	15
	1,04	239,21	1979	30
	0,99	228,53	1790	50
	0,97	222,94	1693	60

42CT1430S

42CT1430S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	1,26	288,68	1411	0
	1,20	276,59	1364	10
	1,18	271,27	1339	15
	1,14	261,29	1287	25
	1,11	256,45	1259	30
Medium Speed	1,07	246,69	1198	40
	1,44	332,10	2206	0
	1,38	318,10	2080	10
	1,35	311,41	2018	15
	1,27	292,17	1831	30
High Speed	1,22	279,86	1708	40
	1,16	267,79	1584	50
	1,57	361,85	2683	0
	1,54	355,11	2584	10
	1,53	351,83	2533	15
	1,49	342,15	2370	30
	1,43	328,96	2126	50
	1,40	321,87	1987	60

42CT1440S

42CT1440S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	1,26	290,06	1415	0
	1,21	278,05	1370	10
	1,19	272,82	1347	15
	1,14	263,10	1297	25
	1,12	258,43	1270	30
Medium Speed	1,08	249,16	1214	40
	1,43	328,89	2178	0
	1,37	315,44	2056	10
	1,34	309,03	1995	15
	1,26	290,71	1817	30
High Speed	1,21	279,07	1700	40
	1,16	267,74	1584	50
	1,57	360,27	2660	0
	1,54	353,52	2560	10
	1,52	350,24	2507	15
	1,48	340,59	2343	30
	1,42	327,53	2098	50
	1,39	320,60	1962	60

42CT1431S

42CT1431S				
	Current	Power Consumption	Air Flow	ESP
	A	W	m ³ /h Pa	
Low Speed	1,22	280,40	1380	0
	1,18	270,40	1335	10
	1,16	265,78	1311	15
	1,12	256,88	1261	25
	1,10	252,50	1235	30
Medium Speed	1,06	243,61	1178	40
	1,34	308,91	1994	0
	1,30	298,19	1891	10
	1,27	292,96	1839	15
	1,21	277,64	1685	30
High Speed	1,16	267,66	1583	40
	1,12	257,78	1482	50
	1,50	346,10	2439	0
	1,48	340,61	2343	10
	1,47	337,86	2293	15
	1,43	329,53	2137	30
	1,38	317,74	1905	50
	1,35	311,28	1775	60

7. OPERATING LIMITS

	Cooling mode	Heating mode
Water circuit	Min. inlet temperature > 5°C	Max. inlet temperature < 90°C
	< 50% ethylene / propylene glycol	< 50% ethylene / propylene glycol
	Water side pressure < 16 bar	Water side pressure < 16 bar
Ambient temperature and humidity	T < 30°C / 60% relative humidity	T < 30°C
Supply air temperature	T > 12°C with maximum ambient humidity conditions (14.7 g/kg dry air)	T < 60°C
AC motor - Electrical input	220V - 240V/1ph/50Hz	220V - 240V/1ph/50Hz

GUIDE SPECIFICATION

1. General

1.1. System Description

The Carrier 42CT is a new hydraulic ductable fan coil unit suitable for all kind of applications with horizontal installation and available in 2 and 4 pipe versions.

Unit should be factory assembled, horizontal type fan coil for suspended ceiling or/and ducted installations. Unit shall be complete with water coil, fan(s), motor(s), drain pan and all required electrical wiring.

1.2. Quality Assurance

The unit must be designed, manufactured and tested in a facility with an ISO 9001 certified quality assurance system, an ISO 14001 certified environmental management system and an ISO 45001 occupational health and safety management system.

The unit must be certified by Eurovent and the ongoing validity of the certificate can be checked in Eurovent website. The unit must comply with the requirements of European regulations and must bear the CE mark.

The unit must be tested in operation at the factory before shipment

1.3. Performance

Unit can supply the air flow from 222 m³/h to 2660 m³/h and a total cooling capacity range from 1,2 kW to 14,5 kW and a heating capacity range from 1,6 kW to 16,2 kW.

Sound power levels of the units shall be tested in accordance with the requirements of ISO 3741 and shall not exceed 65 dB(A) in medium speed.

1.4. 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.

2. Technical Details

2.1. Casing

Galvanised sheet steel casing with high efficiency insulation. The insulation used in the fan coil unit should comply with EN13501-1, Euroclass level B-s2-d0.

Condensing drain pan is cold roll steel with powder coating with angled surface. Drain connection diameter is ¾" threaded nipple and the insulation is 6 mm flexible elastomeric rubber foam with fire rating B-s2-d0 in compliance with EN13501-1.

2.2. Fan and Motor

Unit is equipped with wide diameter impeller with low speed forward multi-blade and strengthened fan casing. Unit can contain one to four wheel fans depending on size.

Unit has asynchronous 3 speed fan motors, 4 poles with internal overload protection and permanent split capacitor. Power supply 220-240V/1Ph/50 Hz. Motor insulation grade is class B, level of protection is IP20.

The fan motor assembly must meet the requirements up to 50 Pa of operating pressure in medium speed with standard filter.

2.3. Coil

Units coil made of 7 mm copper pipes and wide seam aluminium blue hydrophilic fins that ensures the maximum capacity within the compact design.

Metal sheet casing for the protection of header and coil connections. ¾" threaded female water inlet and outlet connections for all sizes. Operating pressure of 16 bar. Maximum hot water inlet temperature is 90°C for both 2 and 4 pipe applications.

2.4. Filter

Factory installed washable nylon mesh filter with aluminium frame with standard rear air plenum. Filters can be removed on both rear or bottom side of the unit easily.

ISO Coarse %40 filter is optional.

2.5. Electrical Box

Factory fitted electrical box is standard with 3 standard speed connection to a terminal strip. The electric box can be connected to the terminal board and it is easy to mount on both side of the unit with its long wiring.

The protection class of the electrical box should not be lower than IP67.



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The manufacturer reserves the right to make changes to the product specifications without notice.
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The manufacturer reserves the right to change the design at any time without notice.



Manufactured by: Alarko-Carrier, Gebze, Turkey