

# COMMERCIAL-INDUSTRIAL SERIES : FANCOILS

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## TEC / TEC-ECM - FLOOR/CEILING FANCOIL (WITH OR WITHOUT HOUSING)

### Features



### Optional



### Main Features

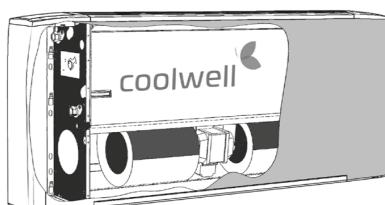
#### DC Inverter Motors

The Coolwell TEC-ECM floor/ceiling fancoils are made with synchronous brushless DC motors with permanent magnets and with efficiency up to 90%. These motors are much more durable than AC motors because they do not have any kind of friction. The TEC-ECM model incorporates a last generation electronic motor controlled by an inverter board. Thanks to this technology we reduce consumption up to 50% comparing with another motor of the same power.



#### High Heat Exchange Coil

The Coolwell coils are made from drawn copper tube and aluminum fins are mechanically attached to the tube by an expansion process.



#### Elegance And Quality

The Coolwell TEC floor/ceiling fancoils have an elegant design as well as unmatched quality, being the perfect solution for conditioning rooms of any type. The housing is made of galvanized steel and has plastic louvers, they are capable of distributing the air in two different directions.



#### A Wide Range Of Possibilities

We have 5 TEC models, with or without ECM motor:  
TEC-CV / EMC: Vertical fancoil with housing.  
TEC-CVB / EMC: Vertical floor fancoil with housing.  
TEC-CH / EMC: Horizontal fancoil with housing.  
TEC-NCV / EMC: Vertical fancoil without housing.  
TEC-NCH / EMC: Horizontal fancoil without housing.

# TOP LINE - FLOOR/CEILING FANCOIL (WITH OR WITHOUT HOUSING)

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Unit code			TEC 1.3	TEC 1.4	TEC 2.3	TEC 2.4	TEC 3.3	TEC 3.4
Power supply		F-V-Hz	Monophase 220-240V 50Hz					
Water flow		l / s	0.49	0.06	0.07	0.08	0.11	0.13
Refrigeration	Capacity	KW	1.0	1.2	1.5	1.8	2.4	2.6
	Sensible capacity	KW	0.78	0.89	1.13	1.3	1.69	1.8
	Dp ( pressure drop )	kPa	2.4	5.8	6.7	14.8	21.1	12.7
Heating	Capacity	KW	1.4	1.57	2.05	2.2	2.9	3.1
	Dp ( pressure drop )	kPa	2	4.9	5.6	12.3	17.5	10.5
Fan	Type		GMV					
	Input power	W	33	33	32	32	41	41
Unit	Dimensions of the models NVC, NHC (L-P-A)	mm	374x511x218		474x511x218		689x511x218	
	Dimensions of the models CV, CVB, CH (L-P-A)	mm	670x225x530		775x225x530		990x225x530	
Sound power Lw	max	dB	45	45	47	47	49	49
Sound pressure Lp	max	dB	36	36	38	38	40	40

Unit code			TEC 4.3	TEC 4.4	TEC 5.3	TEC 5.4	TEC 6.3	TEC 6.4
Power supply		F-V-Hz	Monophase 220-240V 50Hz					
Water flow		l / s	0.13	0.15	0.17	0.2	0.19	0.23
Refrigeration	Capacity	KW	2.88	3.23	3.59	4.15	3.98	4.87
	Sensible capacity	KW	2.04	2.25	2.59	2.89	2.9	3.39
	Dp ( pressure drop )	kPa	0.139	0.15	0.17	0.20	0.19	0.23
Heating	Capacity	KW	3.6	3.84	4.55	4.89	5.16	5.96
	Dp ( pressure drop )	kPa	23.8	14.1	13.7	27.4	16.5	32.3
Fan	Type		GMV					
	Input power	W	44	44	61	61	78	78
Unit	Dimensions of the models NVC, NHC (L-P-A)	mm	689x511x218		904x511x218		904x511x218	
	Dimensions of the models CV, CVB, CH (L-P-A)	mm	990x225x530		1205x225x530		1205x225x530	
Sound power Lw	max	dB	38	38	39	39	43	43
Sound pressure Lp	max	dB	47	47	48	48	52	52

Unit code			TEC 7.3	TEC 7.4	TEC 8.3	TEC 8.4	TEC 9.3	TEC 9.4
Power supply		F-V-Hz	Monophase 220-240V 50Hz					
Water flow		l / s	0.24	0.27	0.27	0.31	0.31	0.36
Refrigeration	Capacity	KW	4.97	5.58	5.6	6.3	6.39	7.38
	Sensible capacity	KW	3.59	3.93	4.2	4.6	4.9	5.44
	Dp ( pressure drop )	kPa	34.4	28.7	18.9	31	24.1	22.8
Heating	Capacity	KW	6.35	6.8	7.84	8.5	9.27	10.17
	Dp ( pressure drop )	kPa	28.6	23.9	15.7	30.7	20.1	19
Fan	Type		GMV					
	Input power	W	103	103	130	130	176	176
Unit	Dimensions of the models NVC, NHC (L-P-A)	mm	689x511x218		904x511x218		904x511x218	
	Dimensions of the models CV, CVB, CH (L-P-A)	mm	990x225x530		1205x225x530		1205x225x530	
Sound power Lw	max	dB	56	56	60	60	64	64
Sound pressure Lp	max	dB	47	47	51	51	55	55

Based on conditions:

Cooling mode: Outdoor air temperature: 27 °C DB / 19 °C WB; Water inlet: 7 °C, Water outlet: 12 °C.

Heating mode ( with 2 tubes ): Outdoor air temperature: 20 °C DB; Water temperature: 50 °C.

# TOP LINE ECM - FLOOR/CEILING FANCOIL (WITH OR WITHOUT HOUSING)

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Unit code			TEC-ECM-2.3	TEC-ECM-2.4	TEC-ECM-4.3	TEC-ECM-4.4	TEC-ECM-6.3
Power supply		F-V-Hz	Monophase 220-240V 50Hz				
Water flow		l/s	0.08	0.09	0.14	0.16	0.19
Refrigeration	Capacity	kW	1.56	1.89	2.98	3.31	3.93
	Sensible capacity	kW	1.17	1.35	2.13	2.32	2.88
	Dp ( pressure drop )	kPa	6.8	15.3	30.1	17.6	19.1
Heating	Capacity	kW	1.94	2.16	3.4	3.59	4.53
	Dp ( pressure drop )	kPa	2.4	4.6	9.2	4.8	5.8
Fan	Type		ECM				
	Input power	W	20	20	25	25	32
Unit	Dimension of the models NVC, NHC (L-P-A)	mm	474x511x218		689x511x218		904x511x218
	Dimensions of the models CV, CVB, CH (L-P-A)	mm	775x225x530		990x225x530		1205x225x530
Sound power Lw	max	dB	51	51	51	51	54
Sound pressure Lp	max	dB	42	42	42	42	45

Unit code			TEC-ECM-6.4	TEC-ECM-7.3	TEC-ECM-7.4	TEC-ECM-9.3	TEC-ECM-9.4
Power supply		F-V-Hz	Monophase 220-240V 50Hz				
Water flow		l/s	0.23	0.24	0.26	0.3	0.34
Refrigeration	Capacity	kW	4.67	4.92	5.42	6.1	7.03
	Sensible capacity	kW	3.26	3.56	3.82	4.66	5.16
	Dp ( pressure drop )	kPa	35.5	33	26.7	21.7	20.5
Heating	Capacity	kW	5.13	5.59	5.95	8.05	8.6
	Dp ( pressure drop )	kPa	10	9.8	7.5	8.4	6.9
Fan	Type		ECM				
	Input power	W	32	41	41	99	99
Unit	Dimensions of the models NVC, NHC (L-P-A)	mm	904x511x218	1119x511x218		1119x511x248	
	Dimensions of the models CV, CVB, CH (L-P-A)	mm	1205x225x530	1420x225x530		1420x255x530	
Sound power Lw	max	dB	54	57	57	64	64
Sound pressure Lp	max	dB	45	48	48	55	55

Based on conditions:

Cooling mode: Outdoor air temperature: 27 °C DB / 19 °C WB; Water inlet: 7°C, Water outlet: 12 °C.

Heating mode ( with 2 tubes ): Outdoor air temperature: 20 °C DB; Water temperature: 50°C.