

ASK[®]

SMART
FANCOIL

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ISO 9001:2008 / ISO 14001:2004



OHSAAS 18001

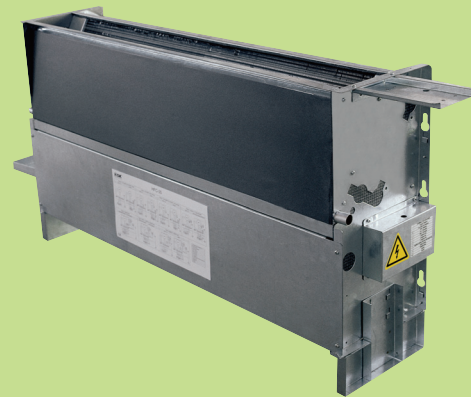
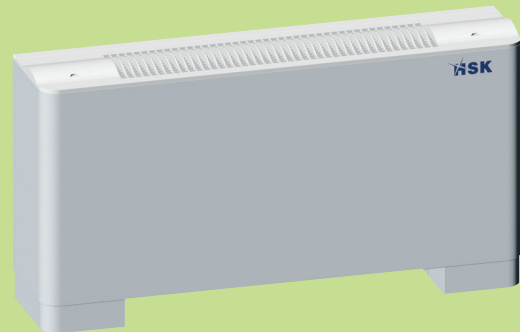


FANCOIL

HSK Fancoils take care of the heating, cooling, and ventilation requirements of residences, hotels, restaurants, shops, and offices economically and safely due to their superior performance.

GENERAL SPECIFICATIONS

- Produced as 5 different models with various flow capacities.
- Availability for vertical and horizontal usage of the same fancoil.
- Decorative types Fancoils, designed by HSK have an aesthetic appearance due to their rounded corners.
- Easy connection to the grilles with flanged outlet face.
- Low noise level and less vibration at maximum speed due to the sliding bearings and the diameter of 146 mm.
- The motors with 3 speed phases and support with speed control.
- Removable and washable filters with a long service life, which can be removed and replaced easily during maintenance works done by the operator.
- Easily accessible purger layout.
- The pipe connection side can be changed easily in jobsite whenever it is needed.
- Fan-motor couple has its own condensation pan with the design that does not prevent air suction
- The electrical connection diagram and connection box (plastic / metal) are placed on the body as a standard feature.
- All models have a vertical and horizontal condensation pans as standard and drop pan which is placed under the coil header and valve.

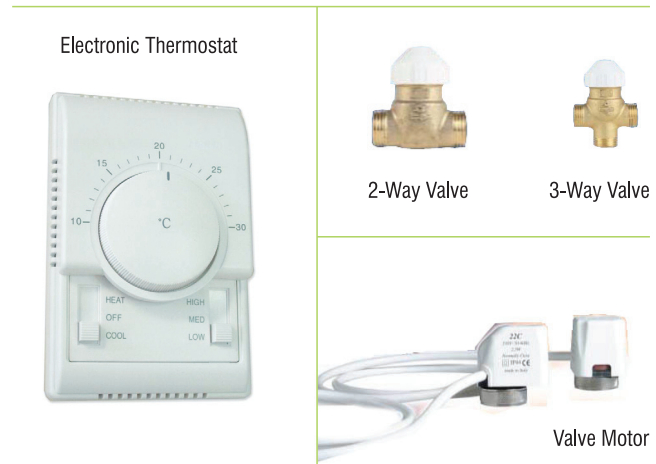


Dimensions



Accessories

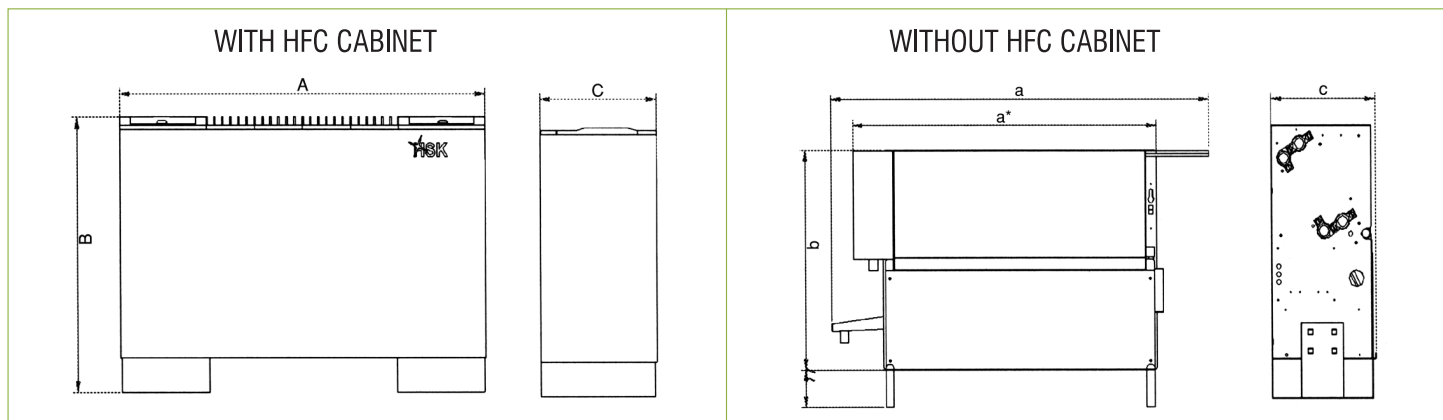
- Controls suitable for wall installation or on unit installation.
- Easily attachable as optional metal sheet stand.
- Hanging diagram for easy assembly
- Control panel with thermostat control
- 2 or 3 way valves with On/Off and temperature control
- Valve motor
- Speed adjustment switch with 3 speed option,



DIMENSIONS FOR WITH CABINET TYPE (mm)					
MODEL	HFC 25	HFC 35	HFC 45	HFC 65	HFC 85
A	860	1060	1260	1460	1460
B	582	582	582	582	662
C	240	240	240	240	295

DIMENSIONS FOR WITHOUT CABINET TYPE (mm)					
MODEL	HFC 25	HFC 35	HFC 45	HFC 65	HFC 85
a	790	991	1190	1391	1391
b	451	451	451	451	531
c	229	229	229	229	284
a*	645	846	1045	1246	1246

* Dimensions of Ceiling Type Fancoil Unit without cabinet



“HSK is entitled to make changes on the technical specifications of the products due to continuous product development studies”

Heating Capacity

2 PIPE FANCOIL TECHNICAL SPECIFICATIONS			MODEL				
			HFC 25	HFC 35	HFC 45	HFC 65	HFC 85
AIR FLOW (m ³ / h)	LOW SPEED	(m ³ /h)	210	300	420	580	800
	MEDIUM SPEED		275	425	520	760	900
	HIGH SPEED		370	550	690	1050	1320
HEATING CAPACITY (70 – 50 °C)	LOW SPEED	(Kcal/h)	2062	3075	4329	5772	8272
	MEDIUM SPEED		2568	4380	5137	7147	9097
	HIGH SPEED		3230	4965	6408	9157	12284
	LOW SPEED	(Kw)	2,4	3,6	5,0	6,7	9,6
	MEDIUM SPEED		3,0	5,1	6,0	8,3	10,6
	HIGH SPEED		3,8	5,8	7,5	10,7	14,3
HEATING CAPACITY (80 – 60 °C)	LOW SPEED	(Kcal/h)	2620	3857	5403	7241	10299
	MEDIUM SPEED		3264	5490	6425	8985	11330
	HIGH SPEED		4115	6254	8032	11536	15359
	LOW SPEED	(Kw)	3,1	4,5	6,3	8,4	12,0
	MEDIUM SPEED		3,8	6,4	7,5	10,5	13,2
	HIGH SPEED		4,8	7,3	9,4	13,4	17,9
HEATING CAPACITY (90 – 70 °C)	LOW SPEED	(Kcal/h)	3170	4621	6460	8684	12301
	MEDIUM SPEED		3943	6571	7697	10798	13546
	HIGH SPEED		4982	7525	9638	13890	18400
	LOW SPEED	(Kw)	3,7	5,4	7,5	10,1	14,3
	MEDIUM SPEED		4,6	7,6	9,0	12,6	15,8
	HIGH SPEED		5,8	8,8	11,2	16,2	21,4

Winter Operation condition: The air temperature of room is 20 °C. 3 row coils is used in a 2 pipe system

2 PIPE FANCOIL TECHNICAL SPECIFICATIONS			MODEL				
			HFC 25	HFC 35	HFC 45	HFC 65	HFC 85
AIR FLOW (m ³ / h)	LOW SPEED	(m ³ /h)	210	300	420	580	800
	MEDIUM SPEED		275	425	520	760	900
	HIGH SPEED		370	550	690	1050	1320
HEATING WATER FLOW (70 – 50 °C)	LOW SPEED	(l/h)	105	157	221	295	422
	MEDIUM SPEED		131	223	262	365	463
	HIGH SPEED		165	253	327	467	626
	LOW SPEED	(kg/h)	107	161	226	302	432
	MEDIUM SPEED		134	227	268	373	474
	HIGH SPEED		169	259	334	478	640
HEATING WATER FLOW (80 – 60 °C)	LOW SPEED	(l/h)	135	197	276	371	527
	MEDIUM SPEED		168	280	329	460	580
	HIGH SPEED		212	320	411	590	786
	LOW SPEED	(kg/h)	138	201	282	379	539
	MEDIUM SPEED		172	285	336	470	593
	HIGH SPEED		217	327	420	603	804
HEATING WATER FLOW (90 – 70 °C)	LOW SPEED	(l/h)	163	238	332	447	632
	MEDIUM SPEED		203	337	396	555	697
	HIGH SPEED		257	387	496	714	946
	LOW SPEED	(kg/h)	167	243	340	457	646
	MEDIUM SPEED		208	344	405	568	713
	HIGH SPEED		263	396	507	730	967
HEATING WATER SIDE PRESSURE DROP (70 – 50 °C)	LOW SPEED	(kPa)	0,92	2,38	5,32	3,36	9,56
	MEDIUM SPEED		1,34	5,6	7,19	4,89	11,30
	HIGH SPEED		2,02	5,54	10,61	7,55	19,17
	LOW SPEED	(mSS)	0,09	0,24	0,54	0,34	0,98
	MEDIUM SPEED		0,14	0,57	0,73	0,50	1,15
	HIGH SPEED		0,21	0,57	1,08	0,77	1,96
HEATING WATER SIDE PRESSURE DROP (80 – 60 °C)	LOW SPEED	(kPa)	1,45	3,45	7,64	4,86	13,68
	MEDIUM SPEED		2,14	8,00	10,37	7,11	16,20
	HIGH SPEED		3,24	8,10	15,38	11,03	27,67
	LOW SPEED	(mSS)	0,15	0,35	0,78	0,50	1,40
	MEDIUM SPEED		0,22	0,82	1,06	0,73	1,65
	HIGH SPEED		0,33	0,83	1,57	1,13	2,82
HEATING WATER SIDE PRESSURE DROP (90 – 70 °C)	LOW SPEED	(kPa)	2,0	4,6	10,2	6,5	18,1
	MEDIUM SPEED		2,9	10,7	13,8	9,5	21,5
	HIGH SPEED		4,4	10,9	20,6	14,8	36,9
	LOW SPEED	(mSS)	0,2	0,5	1,0	0,7	1,8
	MEDIUM SPEED		0,3	1,1	1,4	1,0	2,2
	HIGH SPEED		0,4	1,1	2,1	1,5	3,8

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Cooling Capacity



2 PIPE FANCOIL TECHNICAL SPECIFICATIONS			MODEL				
			HFC 25	HFC 35	HFC 45	HFC 65	HFC 85
AIR FLOW (m ³ / h)	LOW SPEED	(m ³ /h)	210	300	420	580	800
	MEDIUM SPEED		275	425	520	760	900
	HIGH SPEED		370	550	690	1050	1320
COOLING CAPACITY (7 – 12 °C)	TOTAL	LOW SPEED	1168	1847	2654	3462	5120
		MEDIUM SPEED	1452	2233	3110	4261	5601
		HIGH SPEED	1821	2921	3857	5395	7456
		LOW SPEED	1,4	2,2	3,1	4,0	6,0
		MEDIUM SPEED	1,7	2,6	3,6	5,0	6,5
		HIGH SPEED	2,1	3,4	4,5	6,3	8,7
	SENSIBLE	LOW SPEED	787	1221	1750	2295	3364
		MEDIUM SPEED	988	1632	2060	2864	3693
		HIGH SPEED	1257	1985	2595	3693	5005
		LOW SPEED	0,9	1,4	2,0	2,7	3,9
		MEDIUM SPEED	1,2	1,9	2,4	3,3	4,3
		HIGH SPEED	1,5	2,3	3,0	4,3	5,8
COOLING CAPACITY (9 – 14 °C)	TOTAL	LOW SPEED	876	1469	2130	2775	4140
		MEDIUM SPEED	1108	1752	2508	3393	4527
		HIGH SPEED	1400	2319	3092	4278	6013
		LOW SPEED	1,02	1,71	2,48	3,23	4,82
		MEDIUM SPEED	1,29	2,04	2,92	3,95	5,27
		HIGH SPEED	1,63	2,70	3,60	4,98	7,00
	SENSIBLE	LOW SPEED	645	1045	1503	1985	2909
		MEDIUM SPEED	823	1391	1790	2464	3201
		HIGH SPEED	1054	1706	2244	3169	4348
		LOW SPEED	0,8	1,2	1,8	2,3	3,4
		MEDIUM SPEED	1,0	1,62	2,1	2,9	3,7
		HIGH SPEED	1,2	2,0	2,6	3,7	5,1
COOLING CAPACITY (11 – 15 °C)	TOTAL	LOW SPEED	782	1263	1821	2379	3522
		MEDIUM SPEED	979	1486	2148	2912	3857
		HIGH SPEED	1228	1993	2646	3677	5128
		LOW SPEED	0,91	1,47	2,12	2,77	4,10
		MEDIUM SPEED	1,14	1,73	2,50	3,39	4,49
		HIGH SPEED	1,43	2,32	3,08	4,28	5,97
	SENSIBLE	LOW SPEED	617	968	1385	1835	2667
		MEDIUM SPEED	782	1290	1653	2283	2941
		HIGH SPEED	998	1584	2074	2947	4008
		LOW SPEED	0,7	1,1	1,6	2,1	3,1
		MEDIUM SPEED	0,9	1,5	1,9	2,7	3,4
		HIGH SPEED	1,2	1,8	2,4	3,4	4,7

Summer Operation condition : The air temperature of room is 27 °C and 50% relative humidity. Cooling capacities are same both for 2 pipes and 4 pipes.

2 PIPE FANCOIL TECHNICAL SPECIFICATIONS			MODEL				
			HFC 25	HFC 35	HFC 45	HFC 65	HFC 85
AIR FLOW (m ³ / h)	LOW SPEED	(m ³ /h)	210	300	420	580	800
	MEDIUM SPEED		275	425	520	760	900
	HIGH SPEED		370	550	690	1050	1320
COOLING WATER FLOW (7 – 12 °C)	TOTAL	LOW SPEED	233	369	531	692	1020
		MEDIUM SPEED	290	451	622	852	1120
		HIGH SPEED	364	584	771	1080	1490
	SENSIBLE	LOW SPEED	238	377	543	708	1043
		MEDIUM SPEED	297	460	636	871	1145
		HIGH SPEED	372	597	789	1105	1524
COOLING WATER FLOW (9 – 14 °C)	TOTAL	LOW SPEED	176	293	427	555	828
		MEDIUM SPEED	222	351	503	679	906
		HIGH SPEED	280	464	619	856	1200
	SENSIBLE	LOW SPEED	180	300	437	568	847
		MEDIUM SPEED	227	358	514	694	927
		HIGH SPEED	286	475	633	875	1227
COOLING WATER FLOW (11 – 15 °C)	TOTAL	LOW SPEED	196	316	456	595	882
		MEDIUM SPEED	245	372	537	729	966
		HIGH SPEED	306	499	662	919	1280
	SENSIBLE	LOW SPEED	200	323	466	609	902
		MEDIUM SPEED	251	380	549	746	988
		HIGH SPEED	313	510	677	940	1309
COOLING WATER SIDE PRESSURE DROP (7 – 12 °C)	TOTAL	LOW SPEED	5,4	16,3	37,6	24,2	48,0
		MEDIUM SPEED	7,9	22,2	49,8	35,1	56,3
		HIGH SPEED	11,8	36,7	56,0	53,2	61,2
	SENSIBLE	LOW SPEED	0,5	1,7	3,8	2,5	4,9
		MEDIUM SPEED	0,8	2,28	5,1	3,6	5,7
		HIGH SPEED	1,2	3,7	5,7	5,4	6,2
COOLING WATER SIDE PRESSURE DROP (9 – 14 °C)	TOTAL	LOW SPEED	3,2	10,7	25,2	16,2	48,5
		MEDIUM SPEED	4,9	14,1	33,7	23,2	57,0
		HIGH SPEED	7,4	24,1	48,7	35,0	61,0
	SENSIBLE	LOW SPEED	0,3	1,1	2,6	1,7	4,9
		MEDIUM SPEED	0,5	1,4	3,4	2,4	5,8
		HIGH SPEED	0,8	2,5	5,0	3,6	6,2
COOLING WATER SIDE PRESSURE DROP (11 – 15 °C)	TOTAL	LOW SPEED	3,9	12,0	28,1	18,2	41,0
		MEDIUM SPEED	5,7	15,5	37,5	26,1	48,0
		HIGH SPEED	8,5	27,1	54,3	39,3	59,6
	SENSIBLE	LOW SPEED	0,4	1,2	2,9	1,9	4,2
		MEDIUM SPEED	0,6	1,59	3,8	2,7	4,9
		HIGH SPEED	0,9	2,8	5,5	4,0	6,1

2 PIPE FANCOIL TECHNICAL SPECIFICATIONS			MODEL				
			HFC 25	HFC 35	HFC 45	HFC 65	HFC 85
AIR FLOW (m ³ / h)	LOW SPEED	(m ³ /h)	210	300	420	580	800
	MEDIUM SPEED		275	425	520	760	900
	HIGH SPEED		370	550	690	1050	1320
MOTOR POWER	—	(W)	55	65	85	130	310
SOUND POWER LEVEL	MEDIUM SPEED	(dBA)	45	47	46	55	59
SOUND PRESSURE LEVEL	MEDIUM SPEED	(dBA)	33,5	35,5	34,5	43,5	47,5
VOLTAGE	—	(v)	220	220	220	220	220
FREQUENCY	—	(Hz)	50	50	50	50	50
WEIGHT	—	(Kg)	14	18	21	24	33

Sound pressure level calculated for 1, 5 m distance and location factor as 2.

HSK is entitled to make changes on the technical specifications of the products due to continuous product development studies.

Heating Capacity

4 PIPE FANCOIL TECHNICAL SPECIFICATIONS			MODEL				
			HFC 25	HFC 35	HFC 45	HFC 65	HFC 85
AIR FLOW (m ³ / h)	LOW SPEED	(m ³ /h)	210	300	420	580	800
	MEDIUM SPEED		275	425	520	760	900
	HIGH SPEED		370	550	690	1050	1320
HEATING CAPACITY (70 – 50 °C)	LOW SPEED	(Kcal/h)	988	1520	1941	2697	4037
	MEDIUM SPEED		1185	1915	2251	3221	4364
	HIGH SPEED		1443	2268	2706	3960	5592
	LOW SPEED	(kW)	1,15	1,77	2,26	3,14	4,70
	MEDIUM SPEED		1,38	2,23	2,62	3,75	5,08
	HIGH SPEED		1,68	2,64	3,15	4,61	6,51
HEATING CAPACITY (80 – 60 °C)	LOW SPEED	(Kcal/h)	1306	1967	2577	3513	5171
	MEDIUM SPEED		1563	2551	2972	4201	5592
	HIGH SPEED		1898	2929	3573	5163	7181
	LOW SPEED	(kW)	1,52	2,29	3,00	4,09	6,02
	MEDIUM SPEED		1,82	2,97	3,46	4,89	6,51
	HIGH SPEED		2,21	3,41	4,16	6,01	8,36
HEATING CAPACITY (90 – 70 °C)	LOW SPEED	(Kcal/h)	1615	2405	3195	4321	6296
	MEDIUM SPEED		1933	3170	3685	5163	6812
	HIGH SPEED		2345	3582	4424	6348	8753
	LOW SPEED	(kW)	1,88	2,80	3,72	5,03	7,33
	MEDIUM SPEED		2,25	3,69	4,29	6,01	7,93
	HIGH SPEED		2,73	4,17	5,15	7,39	10,19

Winter Operation Condition : The air temperature of room is 20 °C. 3 row coil is used in a 2 pipe system and 1 row coil is used in a 4 pipe system.

4 PIPE FANCOIL TECHNICAL SPECIFICATIONS			MODEL				
			HFC 25	HFC 35	HFC 45	HFC 65	HFC 85
AIR FLOW (m ³ / h)	LOW SPEED	(m ³ /h)	210	300	420	580	800
	MEDIUM SPEED		275	425	520	760	900
	HIGH SPEED		370	550	690	1050	1320
HEATING WATER FLOW (70 – 50 °C)	LOW SPEED	(l/h)	51	78	99	138	205
	MEDIUM SPEED		61	97	115	164	222
	HIGH SPEED		74	116	138	202	285
	LOW SPEED	(kg/h)	52	80	101	141	210
	MEDIUM SPEED		62	99	118	168	227
	HIGH SPEED		76	119	141	207	291
HEATING WATER FLOW (80 – 60 °C)	LOW SPEED	(l/h)	67	101	132	180	265
	MEDIUM SPEED		80	130	152	215	286
	HIGH SPEED		97	150	183	264	368
	LOW SPEED	(kg/h)	69	103	135	184	271
	MEDIUM SPEED		82	133	155	220	292
	HIGH SPEED		99	153	187	270	376
HEATING WATER FLOW (90 – 70 °C)	LOW SPEED	(l/h)	83	124	164	222	324
	MEDIUM SPEED		100	163	189	266	350
	HIGH SPEED		121	184	228	327	450
	LOW SPEED	(kg/h)	85	127	168	227	331
	MEDIUM SPEED		102	166	193	272	358
	HIGH SPEED		124	188	233	334	460
HEATING WATER SIDE PRESSURE DROP (70 – 50 °C)	LOW SPEED	(kPa)	0,56	0,38	0,42	0,87	2,70
	MEDIUM SPEED		0,77	0,41	0,54	1,19	3,10
	HIGH SPEED		1,10	0,55	0,74	1,71	4,80
	LOW SPEED	(mSS)	0,06	0,04	0,04	0,09	0,28
	MEDIUM SPEED		0,08	0,05	0,06	0,12	0,32
	HIGH SPEED		0,11	0,06	0,08	0,17	0,49
HEATING WATER SIDE PRESSURE DROP (80 – 60 °C)	LOW SPEED	(kPa)	0,89	0,48	0,66	1,35	4,07
	MEDIUM SPEED		1,22	0,66	0,85	1,85	4,68
	HIGH SPEED		1,71	0,72	1,18	2,66	7,26
	LOW SPEED	(mSS)	0,09	0,05	0,07	0,14	0,42
	MEDIUM SPEED		0,12	0,07	0,09	0,19	0,48
	HIGH SPEED		0,17	0,08	0,12	0,27	0,74
HEATING WATER SIDE PRESSURE DROP (90 – 70 °C)	LOW SPEED	(kPa)	1,25	0,75	0,94	1,88	5,59
	MEDIUM SPEED		1,72	0,95	1,20	2,58	6,42
	HIGH SPEED		2,41	1,1	1,66	3,71	9,98
	LOW SPEED	(mSS)	0,1	0,08	0,1	0,2	0,6
	MEDIUM SPEED		0,2	0,1	0,1	0,3	0,7
	HIGH SPEED		0,2	0,12	0,2	0,4	1,0

4 PIPE FANCOIL TECHNICAL SPECIFICATIONS			MODEL				
			HFC 25	HFC 35	HFC 45	HFC 65	HFC 85
AIR FLOW (m ³ / h)	LOW SPEED	(m ³ /h)	210	300	420	580	800
	MEDIUM SPEED		275	425	520	760	900
	HIGH SPEED		370	550	690	1050	1320
MOTOR POWER	—	(W)	55	65	85	130	310
SOUND POWER LEVEL	MEDIUM SPEED	(dBA)	45	47	46	55	59
SOUND PRESSURE LEVEL	MEDIUM SPEED	(dBA)	33,5	35,5	34,5	43,5	47,5
VOLTAGE	—	(v)	220	220	220	220	220
FREQUENCY	—	(Hz)	50	50	50	50	50
WEIGHT	—	(Kg)	16	20	24	27	38

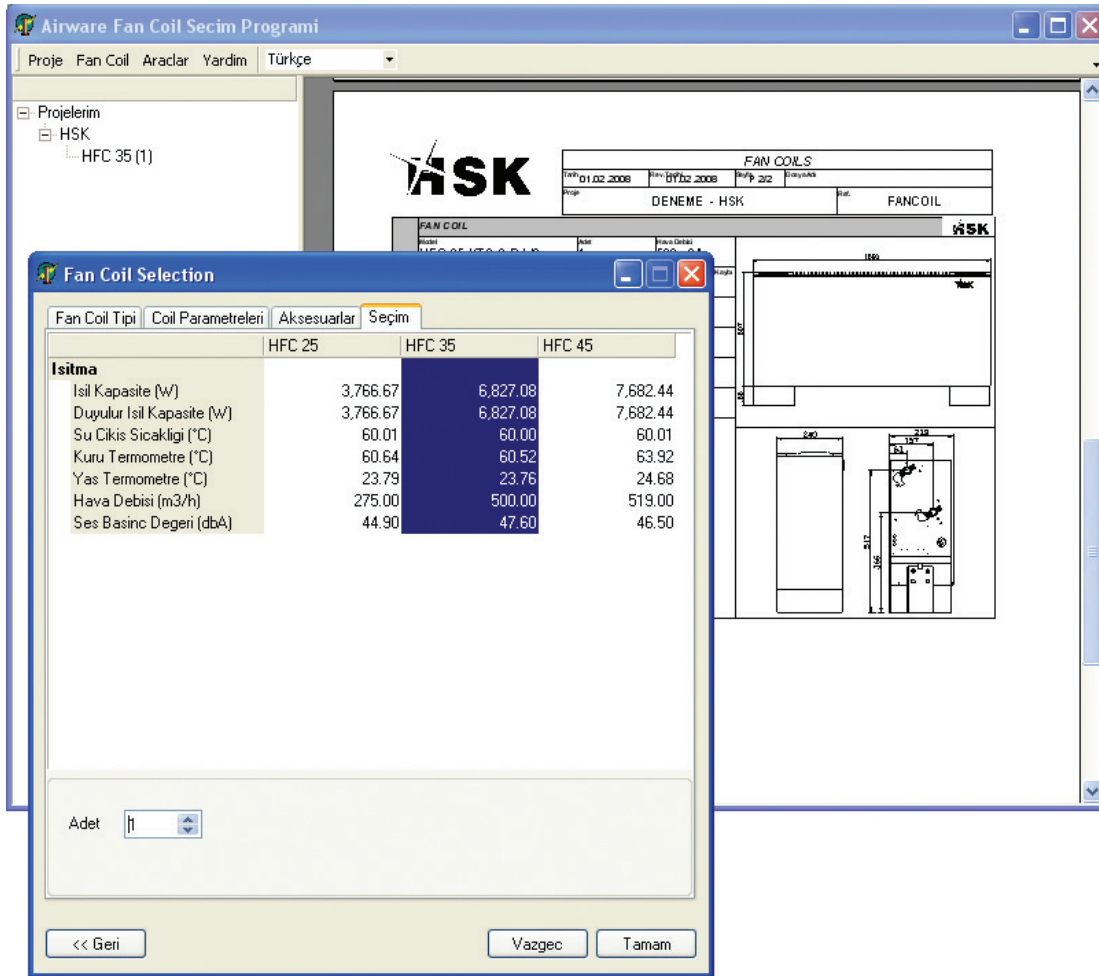
Sound pressure level calculated for 1,5 m distance and location factor as 2.

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HSK AIRWARE FANCOIL SELECTION PROGRAM



HSK has developed the "AIRWARE" software family to determine the air conditioning conditions required for each project correctly. This program includes all the Air Handling Units and Fancoil selections with its properties of user friendly, fast and correct selection.



The screenshot shows the "Airware Fan Coil Seçim Programı" window. The main window displays a project tree on the left with "HFC 35 (1)" selected. The main area shows a technical drawing of a fan coil unit. A "Fan Coil Selection" dialog box is open, showing a table of parameters for HFC 25, HFC 35, and HFC 45 models. The HFC 35 model is highlighted in blue. The dialog also includes an "Adet" (Quantity) field set to 1 and buttons for "<< Geri", "Vazgeç", and "Tamam".

Fan Coil Tipi	HFC 25	HFC 35	HFC 45
Isıtma			
Isıl Kapasite (W)	3,766.67	6,827.08	7,682.44
Duyulur Isıl Kapasite (W)	3,766.67	6,827.08	7,682.44
Su Çıkış Sıcaklığı (°C)	60.01	60.00	60.01
Kuru Termometre (°C)	60.64	60.52	63.92
Yas Termometre (°C)	23.79	23.76	24.68
Hava Debisi (m ³ /h)	275.00	500.00	519.00
Ses Basıncı Değeri (dbA)	44.90	47.60	46.50



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Havalandırma Endüstri San. ve Tic. Ltd. Şti.

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