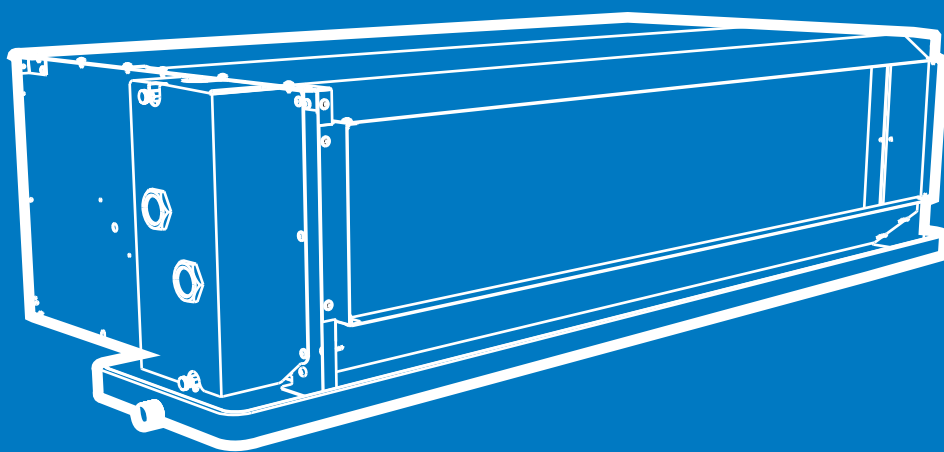
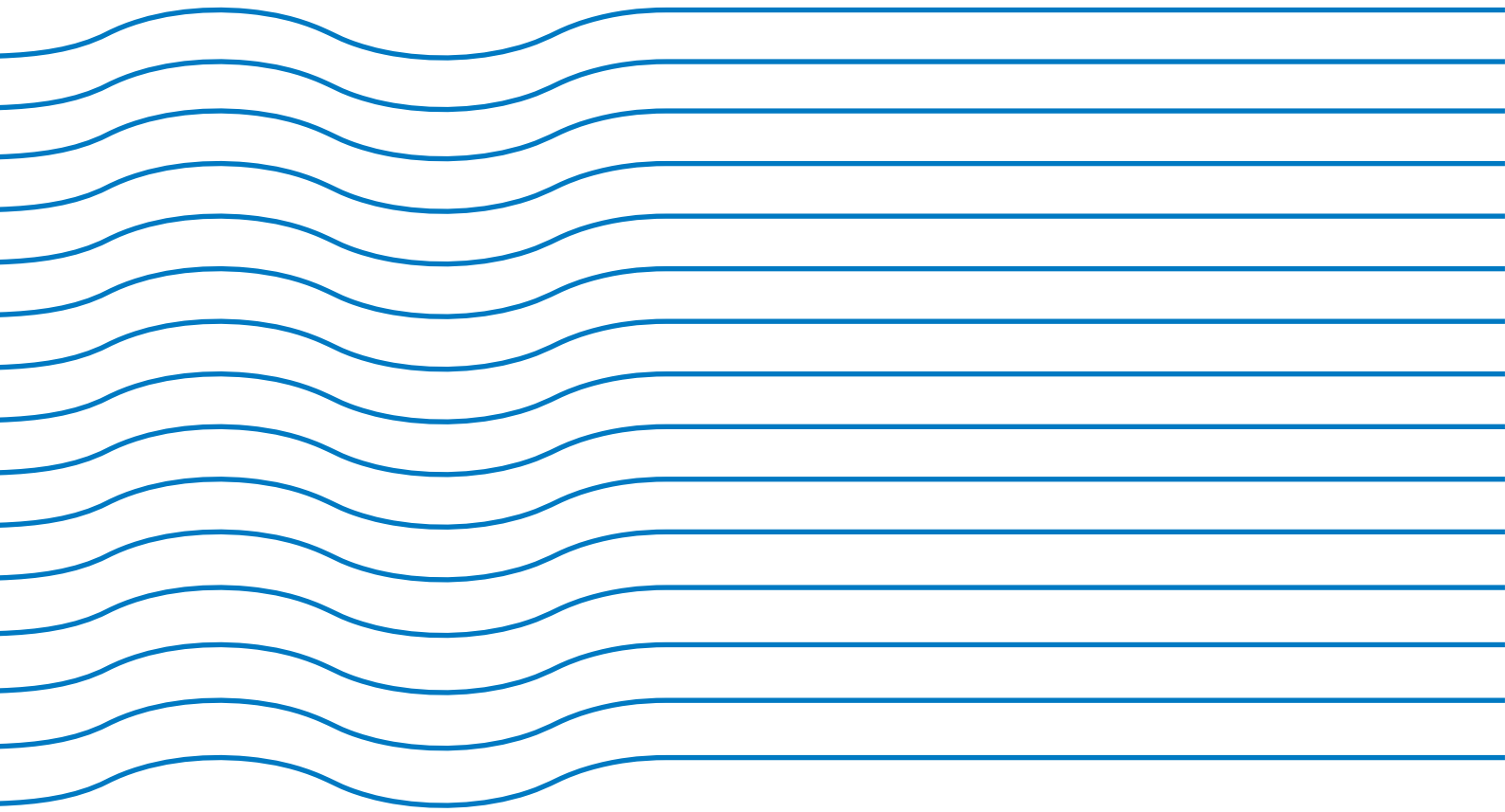


TECHNICAL CATALOGUE



Ducted Fan Coil

CT-02-42/02



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ARVAND fan coil units are designed and manufactured in a wide range to meet today's requirements of performance and comfortability. These Fan coils have four major types including ceiling mounted, floor mounted, Floor-standing fan coils are available only in the SABA series. cassette type and ducted fan coils. Concealed and exposed ceiling mounted fan coils are available in two version; SABA & NASIM. Fan coils have the air flow range from 340 to 4080 m³/hr. (200 - 2400 cfm) and features qualified construction, good performance and easy installation. SABA series is manufactured in 2Pipe system while NASIM series is available in 2 pipe & 4 pipe. in 4Pipe fan coils cooling and heating coils are separated. The most important feature in SABA series is space-saving and a slim body in comparison with NASIM series. ARVAND fan coils are engineered to have quiet operation and are one of the extremely quiet fan coils in market.

The ADFN series of Ducted fan coils have been released to the market with air flow range of 1020 to 4080 m³/hr. (600 to 2400 CFM). This series of ducted fan coils is suitable for external pressure drops up to 100 pascal which can provide long path ducting and is available in 2-pipe and 4-pipe design.

4way cassette fan coils are available in 2-pipe and 4-pipe with air flow range from 510 to 1360 m³/hr. (300-800cfm). quiet operation and beautiful design make them a good choice for any space.

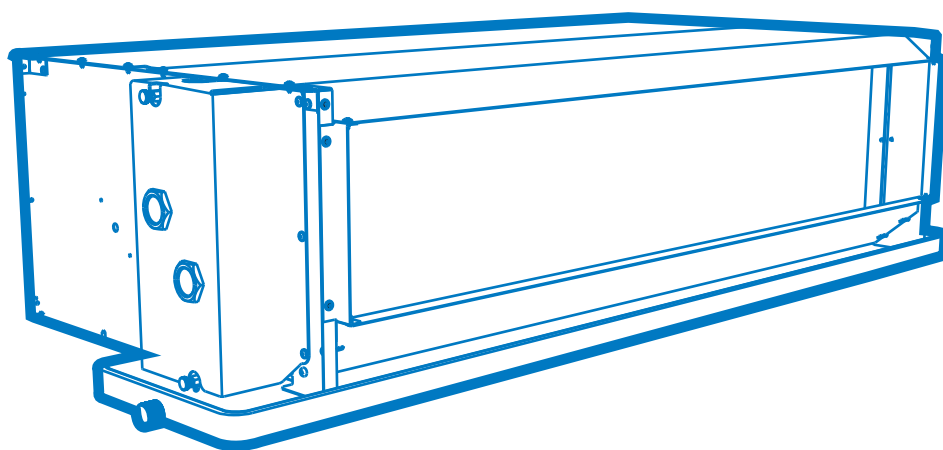
All models are constructed of high resistance galvanized steel within low noise electro motors and centrifugal fan. On request it is possible to provide fin with hydrophilic coating, the performance is improved and the condensed water can be collected easily. Furthermore, all the units can be equipped with advanced electronic control options for more comfortability and energy saving.

شرکت یکتا تهویه اروند فن کویل های متنوعی را جهت پاسخ به نیازهای عملکردی و راحتی امروز طراحی و تولید کرده است. این فن کویل ها در چهار گروه شامل: فن کویل های سقفی، زمینی، کاستی و کانالی ساخته می شوند. فن کویل های سقفی روکار و توکار در دو سری نسیم و صبا، و فن کویل های زمینی در سری صبا عرضه می شوند. هوادهی فن کویل ها در محدوده ی ۲۴۰۰-۲۰۰ cfm معادل ۴۰۸۰-۳۴۰ m³/hr بوده و دارای ساختار با کیفیت، عملکرد مناسب و نصب آسان هستند. فن کویل های سری صبا به صورت دولوله ای و سری نسیم در دو نوع دو لوله ای و چهار لوله ای طراحی و ساخته شده اند که در مدل های چهار لوله ای، کویل گرمایش و سرمایش از هم مجزا می باشد مهمترین ویژگی فن کویل های سری صبا که آن را از بقیه متمایز می کند ابعاد کوچک آن است که سبب می شود برای کاربری ها با فضای محدود نیز مناسب باشد. یکی از اهداف شرکت اروند در راستای فراهم کردن آسایش بیشتر، کاهش سطح صدا بوده که با تلاش، به این مهم دست یافته و یکی از کم صداترین فن کویل های موجود در بازار را ارائه کرده است.

فن کویل های کانالی سری ADFN شرکت یکتا تهویه اروند با قابلیت هوادهی ۶۰۰ الی ۲۴۰۰ ft³/min به بازار عرضه شده است. این سری از داکت فن کویل ها برای افت فشار خارجی ۱۰۰ پاسکال مناسب بوده و قابلیت کانال کشی جهت توزیع متناسب هوا در فضاهای مختلف را دارد و در مدل دو لوله ای و چهار لوله ای عرضه می گردد.

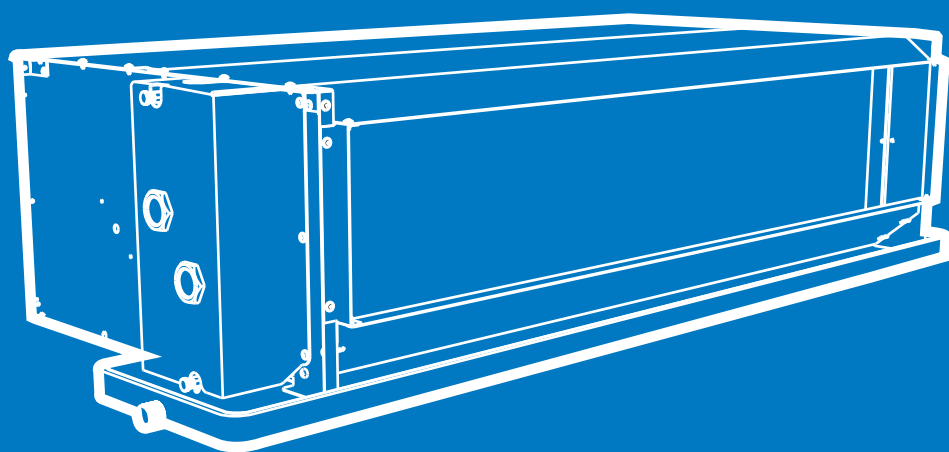
در شرکت یکتا تهویه اروند، فن کویل های کاستی از نوع چهار طرفه بوده و به صورت دولوله و چهار لوله ساخته می شوند. هوادهی این سری از فن کویل ها ۸۰۰-۳۰۰ cfm معادل ۵۱۰-۱۳۶۰ m³/hr می باشد. ظاهری زیبا و عملکردی کم صدا و نصب آسان از ویژگی های قابل توجه این سری از فن کویل های شرکت اروند می باشد.

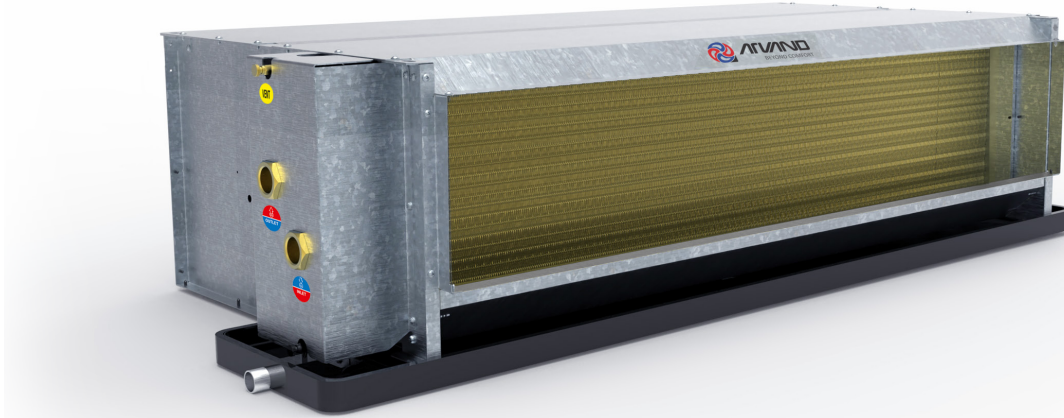
تمامی فن کویل های شرکت اروند از ورق گالوانیزه با استحکام بالا ساخته شده و مجهز به الکتروموتور و فن سانتریفیوژ کم صدا هستند. در صورت درخواست امکان ارائه فین ها با روکش هیدروفیلیک وجود دارد. که سبب بهبود عملکرد دستگاه و جمع آوری بهتر آب کندانس می گردد. علاوه بر این در تمامی فن کویل ها قابلیت نصب تجهیزات کنترلی به جهت فراهم کردن راحتی بیشتر و کاهش مصرف انرژی وجود دارد.



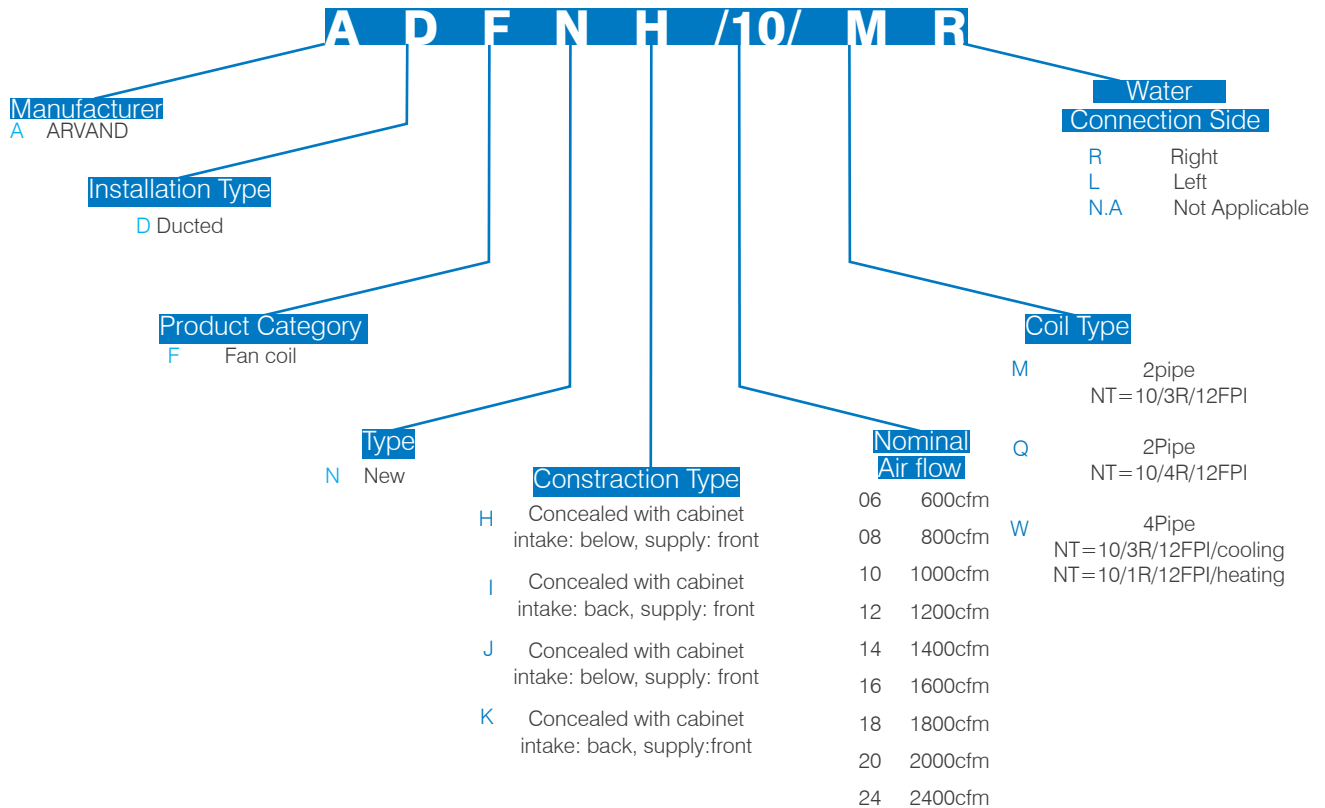
DUCTED FANCOIL

فن کویل کانالی





NOMENCLATURE



Casing

ARVAND ADFN series casing are constructed of high resistance galvanized steel. It is insulated by Elastomeric insulation for energy saving and reducing the sound level. Using high tech machineries in manufacturing procedure guarantees the quality of casing.

Fan assembly

ARVAND uses High quality forward curved centrifugal fan. it is made of galvanized steel and is statically and dynamically balanced.

Electric motor

Electromotors are single phase. Four speed types with the capability to operate at three different speeds. Motors are available with single or double shaft and offers IP20 level of protection. They are High quality electrical motors with low noise bearing that do not require lubrication and Equipped with Thermal Protection. High electrical efficiency, low energy consumption and long service life are the special features of these electro motors.

Filter

in this series of ducted fancoil units, a dual layer aluminum filter with G2 efficiency class is used. These heat and corrosion resistant air filters are washable and easy to remove for cleaning. Filter frame is made of galvanized steel.

Coil

in Arvand ADFN series, coils are constructed of 1/2-inch copper tubes. So, coils meet less pressure drop and higher heat transfer efficiency. Using sinusoidal corrugated fins help the flow to be improve to reduce the bypass factor. Arvand improves coil durability on request by using hydrophilic coated fins, which also helps to drain the condensed water off the coil. Leakage test is done at 12 barg and is suitable for up to 8 barg working pressure. coils can be manufactured for working pressure up to 20bar Due to the customer demand.

Water connections can be located on the left or right of the fan coil body and are equipped with air vent and water drain valve.

بدنه

بدنه کلیه فن کویل های کانالی سری ADFN شرکت اروند، از ورق گالوانیزه با مقاومت بالا ساخته شده است. تمامی جداره های داخلی دستگاه برای جلوگیری از اتلاف انرژی و همچنین کاهش سطح صدا با عایق الاستومری با ضخامت مناسب پوشانده شده است. استفاده از ماشین آلات پیشرفته در فرایند تولید، کیفیت بالای بدنه را تضمین می کند.

فن

شرکت اروند از فن های سانترفیوژ فوروارد با کیفیت بالا در فن کویل های خود استفاده میکند. که به صورت استاتیکی و دینامیکی بالانس شده اند.

الکتروموتور

الکتروموتورهای مورد استفاده از نوع تک فاز بوده و در مدل های چهار سرعته عرضه میشوند که قابلیت کارکرد در سه سرعت متفاوت را دارند. این موتورها در مدل های تک شفت و دوشفت موجود بوده و دارای سطح حفاظت IP20 میباشند. الکتروموتورها از نوع با کیفیت، دارای بلبرینگ کم صدا بوده و نیازی به روغنکاری ندارند. همچنین مجهز به سیستم محافظت حرارتی میباشند. از ویژگی های خاص این موتورها میتوان به راندمان الکتریکی بالا، مصرف انرژی کم و عمر طولانی اشاره کرد.

فیلتر

در این سری از فن کویل های کانالی، فیلتر آلومینیومی دولایه با کلاس راندمان G2 به کار رفته است. این فیلترهای هوا در برابر حرارت و خوردگی مقاوم بوده، قابل شستشو هستند و به راحتی برای تمیزکاری از دستگاه خارج میشوند. قاب فیلتر از ورق گالوانیزه ساخته شده است.

کویل

در این سری از فن کویل های کانالی شرکت تهویه اروند، در ساخت کویل ها از لوله مسی با قطر ۱/۲ اینچ استفاده می شود. به همین سبب کویل ها افت فشار کمتر و راندمان حرارتی بیشتری دارند. فن های مورد استفاده دارای موج سینوسی بوده که موجب آشفته گی جریان بهتر و کاهش ضریب کنار گذر می شوند و در صورت درخواست امکان ارائه فن ها با روکش هیدروفیلک وجود دارد که سبب افزایش ماندگاری کویل و جمع آوری بهتر آب میعان یافته می گردد. کلیه کویل ها پس از ساخت در فشار ۱۶ بار تحت تست نشتی قرار می گیرند و برای فشار کاری تا ۱۲ بار مناسب هستند. در شرایط خاص امکان تامین کویل با فشار کاری تا ۲۰ بار نیز فراهم است. در تمامی مدل ها امکان اتصال لوله در هر دو جهت چپ و راست کویل امکان پذیر می باشد و تمامی کویل ها مجهز به شیر هواگیری و شیر تخلیه آب می باشند.

Drain pan

The drain pan in the ducted fan coils covers the entire coil length. It is made of high-quality galvanized steel and is coated with electrostatic paint, while the external surface is covered with Elastomeric insulation.

Cabinet

In exposed ducted fan coils, cabinets are constructed of galvanized steel and are covered with an electrostatically powder coating with attractive white color to suit any decoration. Cabinet can be easily removed for service.

Options

2-way/3-way motorized valve

The 2- or 3-way valves are used to control the flow of water to reach the desired temperature when a control system is considered for the fan coil. Upon customer request, these valves will be installed on Arvand fan coils.

Stainless steel drain pan

The drain pan in all Arvand fan coils is made of galvanized steel. However, upon customer request, stainless steel can be used for manufacturing the drain pan.

Connections

In all models, left- or right-hand piping connection is available based on customer requirements.

Fresh air

The units have the ability to take in fresh air through the designated inlet if needed.

سینی تخلیه

سینی تخلیه در فن کویل های کانالی سری، تمام طول کویل را پوشش می دهد. این سینی از ورق گالوانیزه با کیفیت بالا و پوشش رنگ شده الکترو استاتیک ساخته شده و جدار خارجی آن توسط عایق الاستومری پوشانده شده است.

کابینت

در فنکویل های کانالی روکار شرکت اروند، کابینت ها از ورق گالوانیزه ساخته شده و با پوشش رنگ پودری الکترواستاتیک به رنگ سفید جذاب پوشانده شده اند که برای هر نوع دکوراسیونی مناسب است. این کابینت ها به راحتی برای سرویس دهی قابل جدا شدن هستند.

شیر دوراhe / سه راهه برقی

در صورت در نظر گرفتن سیستم کنترلی برای فن کویل، از شیرهای دوراhe یا سه راهه برقی جهت کنترل میزان جریان آب استفاده می شود. در صورت درخواست مشتری، این شیرها بر روی فن کویل های شرکت اروند نصب خواهند شد.

سینی تخلیه استیل

سینی تخلیه در تمامی فن کویل ها از ورق گالوانیزه ساخته می شود. در صورت درخواست مشتری از استنلس استیل برای ساخت سینی استفاده خواهد شد.

اتصالات

در تمامی مدل ها امکان اتصال لوله های کویل در هر دو جهت چپ و راست بر حسب نیاز مشتری وجود دارد.

هوای تازه

در صورت نیاز دستگاه ها قابلیت ورود هوای تازه از دریچه مربوطه را دارند.

New Series Ducted Fan Coil 2 Pipe ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Model		*06 (600 CFM)			*08 (800 CFM)			*10 (1000 CFM)			*12 (1200 CFM)			*14 (1400 CFM)			
		Fan Speed			Fan Speed			Fan Speed			Fan Speed			Fan Speed			
Air Delivery	ESP (Pa) @High Speed	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	
	0	1697	1326	1136	1790	1606	1326	2259	2045	1647	3128	2530	2220	3333	2705	2368	
	25	1583	1240	1064	1680	1508	1243	2140	1940	1566	2937	2378	2078	3143	2551	2229	
	50	1458	1140	983	1552	1407	1162	2019	1842	1479	2738	2206	1939	2924	2355	2073	
	75	1318	1034	892	1407	1288	1054	1896	1731	1392	2508	2014	1776	2681	2161	1898	
	100	1154	908	781	1238	1135	941	1762	1600	1289	2243	1802	1580	2421	1942	1695	
Cooling	Total Capacity (kW)	0	7.26	6.66	6.27	7.51	7.25	6.77	10.00	9.67	8.91	11.89	11.15	10.65	13.60	12.69	12.07
		25	7.10	6.49	6.09	7.36	7.10	6.60	9.82	9.49	8.73	11.68	10.92	10.39	13.35	12.42	11.78
		50	6.91	6.28	5.88	7.17	6.92	6.41	9.63	9.31	8.52	11.44	10.63	10.11	13.04	12.05	11.43
		75	6.65	6.02	5.61	6.93	6.69	6.14	9.42	9.09	8.29	11.14	10.27	9.75	12.66	11.64	11.00
		100	6.31	5.66	5.24	6.59	6.35	5.83	9.16	8.81	7.99	10.69	9.81	9.26	12.18	11.11	10.43
	Sensible Capacity (kW)	0	5.34	4.77	4.41	5.55	5.29	4.83	7.32	7.00	6.30	8.93	8.17	7.69	10.09	9.20	8.62
		25	5.18	4.62	4.26	5.40	5.14	4.68	7.15	6.83	6.13	8.71	7.94	7.45	9.84	8.95	8.36
		50	5.00	4.42	4.08	5.21	4.98	4.52	6.96	6.66	5.95	8.45	7.67	7.19	9.53	8.60	8.05
		75	4.76	4.20	3.86	4.98	4.76	4.28	6.76	6.46	5.75	8.14	7.33	6.87	9.17	8.23	7.67
		100	4.45	3.90	3.56	4.67	4.46	4.02	6.52	6.20	5.51	7.73	6.93	6.45	8.72	7.77	7.20
	Water Flow Rate (l/min)		19.04			19.81			26.94			31.88			36.23		
	Water Pressure Drop (kPa)		14.7			15.75			8.76			11.75			16.22		
Heating	Capacity (kW)	0	21.05	18.08	16.33	21.86	20.50	18.18	29.00	27.28	23.70	36.06	31.90	29.43	39.76	35.10	32.27
		25	20.19	17.31	15.61	21.06	19.72	17.42	28.06	26.39	22.91	34.81	30.72	28.22	38.43	33.84	31.01
		50	19.20	16.37	14.77	20.07	18.88	16.65	27.06	25.52	22.02	33.43	29.32	26.98	36.81	32.15	29.55
		75	18.01	15.31	13.78	18.88	17.84	15.58	26.00	24.50	21.10	31.73	27.65	25.44	34.91	30.38	27.82
		100	16.50	13.96	12.49	17.38	16.39	14.38	24.79	23.24	19.97	29.63	25.69	23.47	32.73	28.26	25.69
	Water Flow Rate (l/min)		19.04			19.81			26.94			31.88			36.23		
Water Pressure Drop (kPa)		10.71			11.52			6.4			8.61			11.88			
Fan & Motor	Motor Quantity		1			1			1			1			1		
	Fan Quantity		1			1			1			2			2		
	Operating Current (A)		1.9			2.0			2.5			4.0			4.0		
	Operating Power (W)		130			148			175			250			260		
	max Current (A)		2.5			2.5			2.5			4.5			4.5		
	max Power (W)		180			180			180			450			450		
	Power Supply (V/PH/Hz)		220/1/50			220/1/50			220/1/50			220/1/50			220/1/50		
Sound Pressure Level [dB(A)]		56			57			62			58			59			
Weight (kg)		40			40			50			52			56			

Model		*16 (1600 CFM)			*18 (1800 CFM)			*20 (2000 CFM)			*24 (2400 CFM)			
		Fan Speed			Fan Speed			Fan Speed			Fan Speed			
Air Delivery	ESP (Pa) @High Speed	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	
	0	3606	3299	2498	3766	3462	2839	3984	3647	2990	4812	4403	3624	
	25	3423	3131	2368	3593	3301	2704	3793	3479	2847	4591	4204	3448	
	50	3217	2956	2229	3413	3126	2551	3606	3301	2692	4372	3984	3248	
	75	2989	2758	2067	3222	2943	2402	3398	3110	2530	4114	3743	3059	
	100	2715	2516	1878	3018	2747	2231	3177	2894	2349	3842	3488	2830	
Cooling	Total Capacity (kW)	0	16.80	16.26	14.49	17.35	16.83	15.54	19.32	18.68	17.17	21.53	20.85	19.30
		25	16.49	15.94	14.13	17.06	16.52	15.21	18.97	18.33	16.78	21.17	20.49	18.89
		50	16.11	15.58	13.73	16.74	16.17	14.82	18.59	17.93	16.34	20.80	20.06	18.39
		75	15.64	15.13	12.57	16.37	15.78	14.41	18.14	17.47	15.98	20.33	19.52	17.89
	Sensible Capacity (kW)	100	15.03	14.53	13.47	15.94	15.32	13.90	17.64	16.91	15.26	19.77	18.99	17.24
		0	12.19	11.69	10.11	12.61	12.12	10.96	13.92	13.33	12.00	15.73	15.09	13.68
		25	11.90	11.39	9.81	12.34	11.84	10.67	13.59	13.01	11.68	15.39	14.75	13.32
		50	11.54	11.06	9.47	12.04	11.52	10.34	13.25	12.66	11.31	15.04	14.36	12.89
		75	11.12	10.67	9.06	11.70	11.17	9.99	12.86	12.26	10.93	14.60	13.91	12.47
		100	10.58	10.15	8.54	11.31	10.77	9.57	12.40	11.78	10.43	14.10	13.40	11.92
	Water Flow Rate (l/min)		43.20			46.83			51.88			58.16		
	Water Pressure Drop (kPa)		26.53			30.78			40.38			49.73		
Heating	Capacity (kW)	0	46.05	43.58	31.82	47.60	45.19	39.75	51.70	48.89	42.87	58.95	55.85	49.34
		25	44.60	42.15	30.69	46.25	43.85	38.47	50.13	47.42	41.45	57.30	54.27	47.75
		50	42.89	40.61	29.45	44.79	42.35	36.97	48.54	45.82	39.86	55.61	52.46	45.87
		75	40.90	38.79	27.94	43.18	40.71	35.45	46.70	44.03	38.14	53.54	50.40	44.03
	100	38.38	36.45	26.11	41.39	38.88	33.65	44.66	41.92	36.15	51.25	48.11	41.70	
	Water Flow Rate (l/min)		43.20			46.83			51.88			58.16		
Water Pressure Drop (kPa)		19.34			22.46			29.45			36.32			
Fan & Motor	Motor Quantity		1			1			1			2		
	Fan Quantity		2			2			2			3		
	Operating Current (A)		4.5			4.5			4.5			7.0		
	Operating Power (W)		310			350			370			510		
	max Current (A)		4.5			4.5			4.5			7.0		
	max Power (W)		450			450			450			630		
	Power Supply (V/PH/Hz)		220/1/50			220/1/50			220/1/50			220/1/50		
	Sound Pressure Level [dB(A)]		60			63			64			64		
Weight (kg)		64			66			70			74			

New Series Ducted Fan Coil 4 Pipe ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

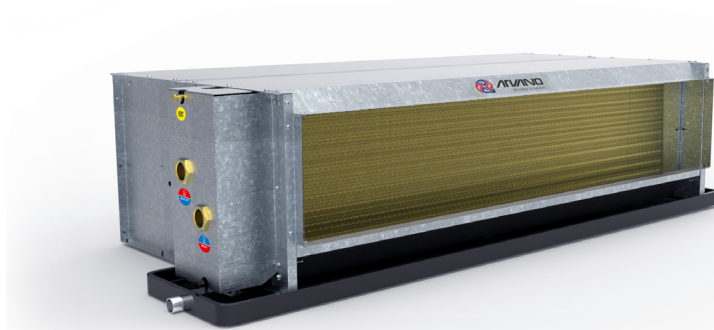
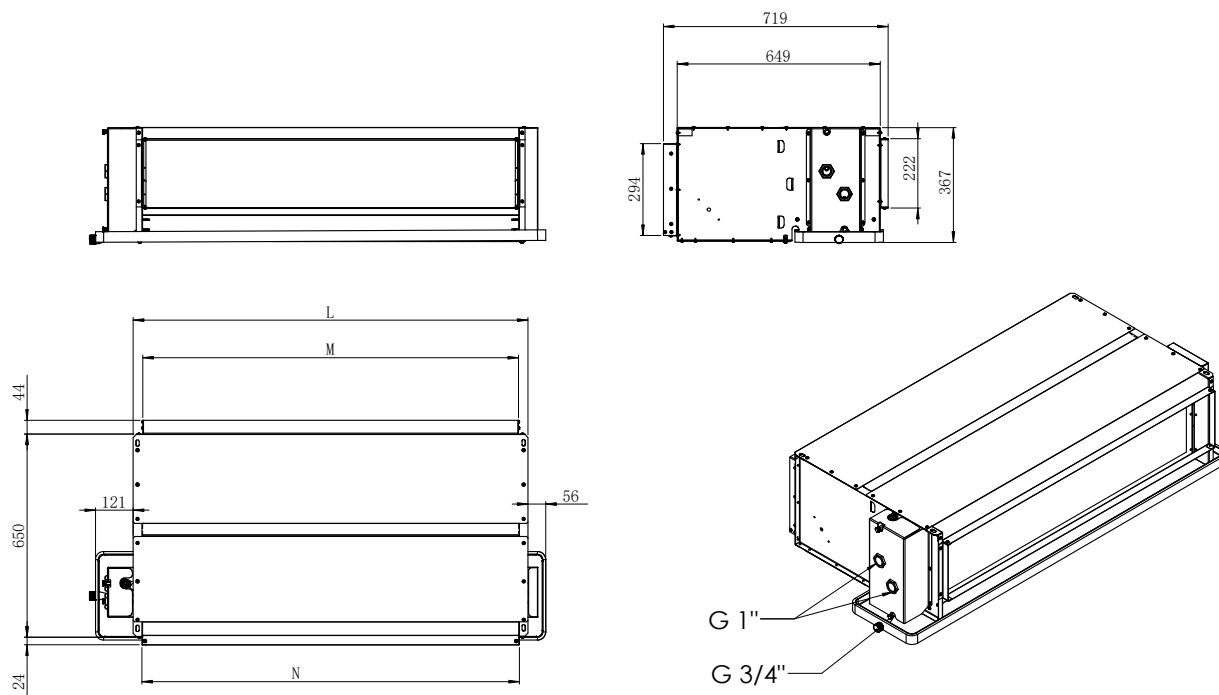
Model		*06 (600 CFM)			*08 (800 CFM)			*10 (1000 CFM)			*12 (1200 CFM)			*14 (1400 CFM)			
		Fan Speed			Fan Speed			Fan Speed			Fan Speed			Fan Speed			
Air Delivery	ESP (Pa) @High Speed	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	
	0	1613	1257	1073	1696	1531	1258	2184	1983	1593	2935	2372	2080	3158	2540	2215	
	25	1510	1170	1001	1585	1434	1188	2070	1888	1519	2750	2206	1943	2972	2390	2080	
	50	1373	1074	928	1463	1333	1100	1955	1782	1428	2555	2054	1800	2745	2207	1933	
	75	1261	976	847	1354	1214	1006	1836	1671	1346	2336	1864	1630	2523	2020	1760	
	100	1083	847	728	1136	1054	867	1706	1550	1249	2056	1640	1428	2241	1784	1560	
Cooling	Total Capacity (kW)	0	7.06	6.47	6.06	7.31	7.07	6.57	9.81	9.49	8.73	11.46	10.73	10.24	13.17	12.26	11.60
		25	6.90	6.31	5.58	7.15	6.91	6.42	9.63	9.32	8.55	11.25	10.46	9.97	12.92	11.96	11.31
		50	6.69	6.06	5.67	6.96	6.72	6.22	9.44	9.12	8.33	10.99	10.19	9.69	12.58	11.59	10.96
		75	6.47	5.81	5.43	6.77	6.48	5.97	9.23	8.90	8.11	10.69	9.81	9.27	12.22	11.18	10.51
		100	6.09	5.43	5.01	6.31	6.10	5.56	8.97	8.63	7.82	10.19	9.29	8.72	11.67	10.57	9.91
	Sensible Capacity (kW)	0	5.18	4.61	4.25	5.38	5.14	4.67	7.16	6.86	6.15	8.57	7.82	7.36	9.74	8.85	8.24
		25	5.03	4.47	4.09	5.22	4.98	4.54	6.99	5.70	6.00	8.34	7.57	7.11	9.49	8.57	7.99
		50	4.81	4.25	3.92	5.03	4.81	4.36	6.81	6.51	5.80	8.09	7.31	6.80	9.16	8.24	7.68
		75	4.62	4.03	3.72	4.85	4.59	4.15	6.61	6.31	5.82	7.78	6.97	6.49	8.81	7.87	7.29
		100	4.27	3.72	3.39	4.44	4.26	3.81	6.37	6.07	5.38	7.32	6.51	6.03	8.30	7.35	6.80
	Water Flow Rate (l/min)		18.52			19.35			26.40			30.58			34.95		
	Water Pressure Drop (kPa)		13.98			15.11			8.45			10.95			15.22		
	Heating	Capacity (kW)	0	8.80	7.82	7.22	9.08	8.66	7.88	13.06	12.46	11.13	15.42	13.92	13.02	17.07	15.37
25			8.52	7.58	6.96	8.48	8.11	7.36	12.73	12.15	10.84	14.94	13.42	12.57	16.60	14.90	13.93
50			8.16	7.22	6.69	8.48	8.11	7.36	12.37	11.80	10.48	14.43	12.94	12.08	15.97	14.30	13.33
75			7.86	6.87	6.37	8.2	7.74	7.02	12.01	11.41	10.14	13.81	12.30	11.45	15.34	13.65	12.66
100			7.26	6.37	5.85	7.48	7.20	6.48	11.53	10.92	9.73	12.95	11.49	10.65	14.41	12.76	11.80
Water Flow Rate (l/min)		11.54			12.04			17.63			20.32			21.93			
Water Pressure Drop (kPa)		4.33			4.67			12.44			16.45			21.1			
Fan & Motor	Motor Quantity		1			1			1			1			1		
	Fan Quantity		1			1			1			2			2		
	Operating Current (A)		1.9			2.0			2.5			4.0			4.0		
	Operating Power (W)		125			140			170			240			250		
	max Current (A)		2.5			2.5			2.5			4.5			4.5		
	max Power (W)		180			180			180			450			450		
	Power Supply (V/PH/Hz)		220/1/50			220/1/50			220/1/50			220/1/50			220/1/50		
	Sound Pressure Level [dB(A)]		55			56			61			57			58		
Weight (kg)		42			42			53			55			60			

Model		*16 (1600 CFM)			*18 (1800 CFM)			*20 (2000 CFM)			*24 (2400 CFM)			
		Fan Speed			Fan Speed			Fan Speed			Fan Speed			
Air Delivery	ESP (Pa) @High Speed	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	High (m³/hr)	Med (m³/hr)	Low (m³/hr)	
	0	3460	3168	2385	3620	3332	2714	3845	3521	2873	4591	4182	3424	
	25	3283	3015	2250	3462	3160	2570	3664	3350	2730	4377	3985	3248	
	50	3076	2830	2123	3283	3000	2431	3470	3175	2575	4150	3776	3068	
	75	2848	2642	1967	3099	2821	2291	3283	3000	2434	3916	3543	2870	
Cooling	100	2573	2387	1860	2896	2630	2125	3059	2770	2372	3624	3290	2730	
	Total Capacity (kW)	0	16.37	15.85	14.06	16.96	16.45	15.13	18.93	18.29	16.76	20.97	20.26	18.68
		25	16.06	15.55	13.68	16.69	16.12	14.77	18.58	17.92	16.36	20.60	19.88	18.25
		50	15.67	15.15	13.13	16.36	15.78	14.39	18.18	17.51	15.91	20.20	19.46	17.78
		75	15.19	14.72	12.79	15.99	15.38	13.99	17.76	17.09	15.47	19.75	18.97	17.23
		100	14.55	14.07	12.42	15.56	14.92	13.48	17.24	16.47	15.26	19.13	18.35	16.83
	Sensible Capacity (kW)	0	11.85	11.36	9.78	12.30	11.82	10.63	13.60	13.02	11.68	15.27	14.60	13.18
		25	11.56	11.08	9.46	12.04	11.51	10.32	13.28	12.69	11.35	14.92	14.26	12.81
		50	11.19	10.73	9.15	11.73	11.21	10.01	12.92	12.33	10.97	14.55	13.87	12.41
		75	10.76	10.35	8.74	11.40	10.86	9.67	12.56	11.96	10.61	14.13	13.44	11.95
		100	10.20	9.79	8.44	11.01	10.45	9.25	12.09	11.44	10.45	13.58	12.90	11.61
	Water Flow Rate (l/min)		43.44			45.75			50.79			56.50		
	Water Pressure Drop (kPa)		26.79			29.26			38.84			46.94		
Heating	Capacity (kW)	0	20.14	19.27	16.61	20.74	19.90	17.90	22.69	21.70	19.50	25.12	24.00	21.67
		25	19.62	18.79	16.09	20.28	19.37	17.39	22.14	21.15	18.97	24.55	23.42	21.08
		50	18.98	18.19	15.52	19.75	18.86	16.87	21.54	20.57	18.37	23.91	22.80	20.44
		75	18.27	17.54	14.92	19.21	18.27	16.27	20.86	19.96	17.81	23.25	22.08	19.72
		100	17.30	16.61	14.45	18.52	17.60	15.66	20.17	19.12	17.55	22.32	21.22	19.18
	Water Flow Rate (l/min)		26.83			28.20			30.62			34.14		
Water Pressure Drop (kPa)		34.43			38.59			47.97			58.1			
Fan & Motor	Motor Quantity		1			1			1			2		
	Fan Quantity		2			2			2			3		
	Operating Current (A)		4.5			4.5			4.5			7.0		
	Operating Power (W)		300			340			355			480		
	max Current (A)		4.5			4.5			4.5			7.0		
	max Power (W)		450			450			450			630		
	Power Supply (V/PH/Hz)		220/1/50			220/1/50			220/1/50			220/1/50		
	Sound Pressure Level [dB(A)]		59			62			63			63		
Weight (kg)		69			71			76			80			

New Series Ducted Fan Coil 2 Pipe ADFN-*/M

فن کویل کانالی دو لوله و چهار لوله سری جدید- مکش از پشت

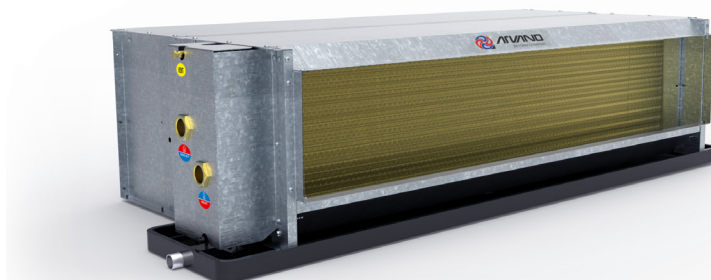
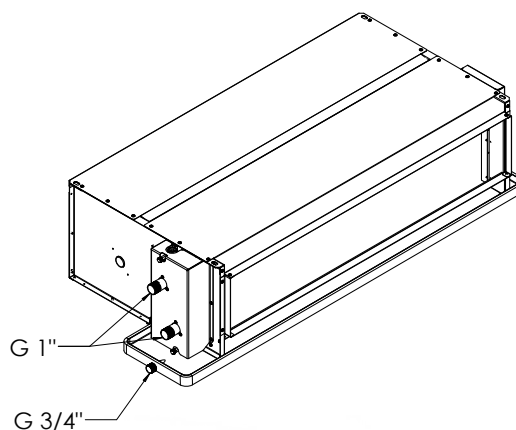
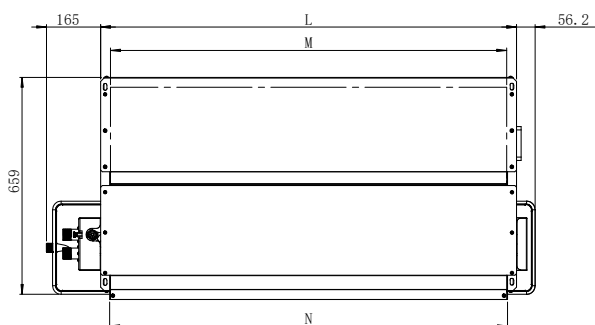
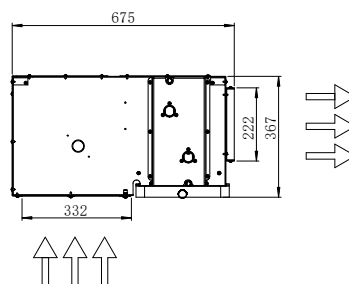
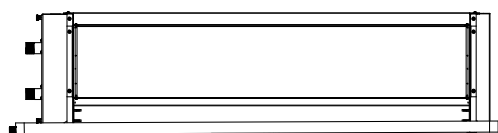
Model	L	M	N
*06 (600 CFM)	623	562	568
*08 (800 CFM)	623	562	568
*10 (1000 CFM)	913	852	858
*12 (1200 CFM)	913	852	858
*14 (1400 CFM)	1023	962	968
*16 (1600 CFM)	1263	1202	1208
*18 (1800 CFM)	1263	1202	1208
*20 (2000 CFM)	1413	1352	1358
*24 (2400 CFM)	1413	1352	1358



New Series Ducted Fan Coil 2 Pipe ADFN-*/M

فن کویل کانالی دو لوله و چهار لوله سری جدید- مکش از زیر

Model	L	M	N
*06 (600 CFM)	623	562	568
*08 (800 CFM)	623	562	568
*10 (1000 CFM)	913	852	858
*12 (1200 CFM)	913	852	858
*14 (1400 CFM)	1023	962	968
*16 (1600 CFM)	1263	1202	1208
*18 (1800 CFM)	1263	1202	1208
*20 (2000 CFM)	1413	1352	1358
*24 (2400 CFM)	1413	1352	1358



New Series Ducted Fan Coil 2 Pipe ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*06 (600 CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa			
High	5	4	4.92	6.51	23.25	21.25	5.25	7.26	25.91	25.7	5.57	8.02	28.64	30.64	5.88	8.81	31.45	36.23	6.19	9.61	34.32	42.2
		5	4.47	5.78	16.51	11.6	4.82	6.54	18.69	14.41	5.17	7.32	20.93	17.62	5.49	8.11	23.19	21.09	5.81	8.92	25.51	24.91
		6	3.94	4.94	11.77	6.37	4.34	5.75	13.70	8.31	4.71	6.56	15.63	10.5	5.07	7.37	17.55	12.86	5.41	8.19	19.52	15.49
		7	3.59	4.38	8.95	3.91	3.75	4.83	9.86	4.65	4.19	5.69	11.63	6.21	4.59	6.55	13.38	7.95	4.96	7.4	15.11	9.84
	7	4	4.17	5.08	18.15	13.55	4.52	5.84	20.88	17.36	4.86	6.61	23.62	21.55	5.19	7.39	26.43	26.24	5.51	8.2	29.31	31.46
		5	3.74	4.41	12.61	7.1	4.03	5.05	14.45	9.04	4.41	5.85	16.74	11.72	4.76	6.65	19.04	14.67	5.11	7.48	21.39	18.06
		6	3.55	4.07	9.70	4.46	3.64	4.43	10.57	5.19	3.87	4.99	11.91	6.4	4.27	5.84	13.92	8.44	4.65	6.69	15.95	10.74
		7	3.31	3.68	7.52	2.84	3.43	4.06	8.31	3.38	3.53	4.44	9.07	3.95	3.69	4.9	10.01	4.71	4.13	5.8	11.86	6.34
	9	4	3.73	4.04	14.47	8.95	3.77	4.39	15.71	10.36	4.09	5.09	18.22	13.45	4.45	5.89	21.09	17.44	4.79	6.7	23.98	21.84
		5	3.56	3.73	10.68	5.24	3.62	4.08	11.70	6.15	3.68	4.43	12.69	7.08	3.94	5.08	14.53	9	4.33	5.92	16.94	11.81
		6	3.33	3.37	8.03	3.15	3.42	3.74	8.94	3.81	3.5	4.11	9.81	4.49	3.57	4.47	10.67	5.2	3.78	5.03	12.00	6.41
		7	2.93	2.93	5.99	1.87	3.16	3.35	6.85	2.37	3.28	3.74	7.66	2.89	3.38	4.12	8.43	3.42	3.46	4.49	9.19	3.98
Medium	5	4	4.13	5.55	19.83	16.04	4.41	6.19	22.11	19.5	4.68	6.84	24.42	23.2	4.94	7.5	26.79	27.28	5.2	8.18	29.22	31.76
		5	3.76	4.94	14.11	8.79	4.06	5.6	16.00	10.98	4.35	6.26	17.88	13.35	4.63	6.93	19.81	15.97	4.9	7.62	21.78	18.86
		6	3.31	4.22	10.04	4.81	3.65	4.92	11.71	6.31	3.98	5.61	13.37	7.98	4.28	6.31	15.03	9.78	4.57	7.02	16.73	11.83
		7	2.93	3.62	7.39	2.8	3.14	4.09	8.35	3.46	3.53	4.86	9.93	4.71	3.88	5.61	11.46	6.05	4.2	6.35	12.97	7.54
	7	4	3.5	4.34	15.53	10.28	3.8	4.99	17.85	13.16	4.09	5.65	20.19	16.33	4.37	6.32	22.58	19.88	4.65	7	25.04	23.9
		5	3.06	3.66	10.48	5.13	3.39	4.33	12.38	6.88	3.71	5.01	14.34	8.92	4.02	5.7	16.31	11.17	4.31	6.4	18.32	13.73
		6	2.91	3.37	8.04	3.21	2.98	3.68	8.77	3.73	3.26	4.27	10.19	4.87	3.61	5.01	11.95	6.44	3.93	5.74	13.69	8.2
		7	2.69	3.01	6.16	2	2.8	3.35	6.86	2.41	2.9	3.68	7.51	2.84	3.11	4.18	8.55	3.56	3.49	4.98	10.17	4.84
	9	4	3.05	3.36	12.04	6.47	3.12	3.69	13.22	7.66	3.44	4.37	15.62	10.25	3.75	5.05	18.07	13.27	4.04	5.74	20.54	16.61
		5	2.91	3.1	8.88	3.78	2.97	3.4	9.73	4.45	3.02	3.69	10.57	5.14	3.33	4.36	12.48	6.89	3.66	5.08	14.56	9.03
		6	2.72	2.78	6.64	2.25	2.8	3.1	7.41	2.74	2.87	3.41	8.14	3.23	2.93	3.71	8.86	3.75	3.2	4.32	10.31	4.9
		7	2.34	2.34	4.79	1.27	2.57	2.74	5.60	1.67	2.68	3.09	6.31	2.06	2.77	3.41	6.98	2.45	2.84	3.72	7.62	2.87
Low	5	4	3.7	5.02	17.91	13.41	3.95	5.59	19.97	16.28	4.19	6.17	22.05	19.36	4.43	6.77	24.18	22.76	4.66	7.38	26.37	26.49
		5	3.37	4.46	12.76	7.36	3.64	5.06	14.47	9.19	3.9	5.66	16.18	11.18	4.15	6.27	17.92	13.37	4.4	6.9	19.71	15.86
		6	2.96	3.8	9.05	4.01	3.27	4.45	10.59	5.28	3.57	5.08	12.10	6.69	3.84	5.71	13.61	8.21	4.11	3.36	15.14	9.92
		7	2.58	3.19	6.52	2.24	2.79	3.67	7.49	2.86	3.16	4.39	8.97	3.93	3.48	5.07	10.36	5.07	3.77	5.75	11.75	6.33
	7	4	3.13	3.93	14.06	8.62	3.4	4.52	16.15	11.03	3.66	5.11	18.26	13.68	3.92	5.72	20.43	16.72	4.16	6.33	22.63	19.99
		5	2.72	3.29	9.40	4.24	3.04	3.92	11.21	5.77	3.33	4.54	12.99	7.49	3.61	5.17	14.79	9.43	3.87	5.8	16.59	11.53
		6	2.56	2.99	7.14	2.6	2.64	3.27	7.80	3.04	2.92	3.87	9.22	4.08	3.24	4.54	10.82	5.41	3.54	5.2	12.41	6.89
		7	2.35	2.64	5.40	1.59	2.46	2.96	6.06	1.94	2.55	3.25	6.65	2.29	2.77	3.76	7.68	2.95	3.13	4.5	9.21	4.06
	9	4	2.69	3	10.73	5.28	2.8	3.35	11.98	6.43	3.09	3.96	14.16	8.62	3.36	4.58	16.37	11.15	3.62	5.2	18.61	13.95
		5	2.57	2.76	7.90	3.08	2.62	3.02	8.66	3.62	2.67	3.29	9.42	4.2	2.99	3.95	11.32	5.8	3.29	4.61	13.21	7.6
		6	2.39	2.46	5.86	1.81	2.47	2.75	6.57	2.22	2.54	3.03	7.20	2.63	2.59	3.3	7.88	3.05	2.88	3.92	9.35	4.13
		7	1.92	1.92	3.92	0.89	2.23	2.38	4.88	1.31	2.35	2.72	5.56	1.64	2.44	3.02	6.18	1.98	2.51	3.31	6.77	2.33

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 2 Pipe

ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature °C	Entering/Leaving Water Temperature Difference °C	*08 (800 CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa		
High	5	4	5.15	6.78	24.22	22.86	5.49	7.56	27.01	27.65	5.83	8.36	29.85	32.96	6.16	9.18	32.79	39	6.48	10.02	35.78	45.43
		5	4.68	6.02	17.19	12.46	5.04	6.81	19.47	15.48	5.4	7.63	21.80	18.94	5.75	8.45	24.15	22.66	6.08	9.3	26.57	26.77
		6	4.12	5.15	12.26	6.84	4.54	5.99	14.26	8.93	4.93	6.83	16.27	11.27	5.3	7.67	18.27	13.81	5.65	8.53	20.31	16.63
		7	3.78	4.6	9.40	4.26	3.93	5.03	10.28	5	4.38	5.93	12.11	6.67	4.79	6.82	13.92	8.53	5.18	7.7	15.72	10.55
	7	4	4.36	5.29	18.90	14.55	4.73	6.08	21.74	18.66	5.09	6.88	24.60	23.16	5.43	7.7	27.53	28.2	5.76	8.54	30.54	33.81
		5	3.94	4.63	13.23	7.73	4.21	5.26	15.04	9.7	4.61	6.09	17.42	12.57	4.98	6.93	19.81	15.75	5.34	7.78	22.27	19.39
		6	3.74	4.27	10.19	4.86	3.84	4.65	11.09	5.65	4.04	5.2	12.39	6.87	4.47	6.07	14.48	9.05	4.86	6.96	16.59	11.51
		7	3.49	3.87	7.91	3.11	3.61	4.27	8.73	3.69	3.72	4.66	9.53	4.31	3.85	5.1	10.42	5.05	4.31	6.03	12.33	6.79
	9	4	3.93	4.24	15.19	9.75	3.98	4.61	16.49	11.28	4.28	5.3	18.96	14.43	4.65	6.13	21.92	18.61	5.01	6.98	24.97	23.44
		5	3.75	3.91	11.21	5.7	3.81	4.29	12.27	6.7	3.87	4.65	13.32	7.71	4.12	5.28	15.11	9.65	4.52	6.15	17.62	12.66
		6	3.51	3.54	8.44	3.44	3.6	3.93	9.38	4.15	3.69	4.31	10.29	4.89	3.76	4.69	11.19	5.67	3.95	5.23	12.48	6.86
		7	3.09	3.09	6.33	2.07	3.34	3.53	7.22	2.61	3.46	3.93	8.05	3.16	3.56	4.33	8.85	3.73	3.65	4.71	9.64	4.34
Medium	5	4	4.84	6.41	22.91	20.71	5.16	7.15	25.53	25.04	5.48	7.91	28.24	30	5.79	8.68	30.99	35.29	6.09	9.47	33.81	41.11
		5	4.4	5.69	16.27	11.3	4.75	6.45	18.42	14.05	5.08	7.22	20.63	17.18	5.41	8	22.86	20.55	5.72	8.8	25.14	24.28
		6	3.87	4.87	11.60	6.21	4.27	5.67	13.50	8.11	4.64	6.47	15.40	10.24	4.99	7.26	17.30	12.54	5.32	8.08	19.23	15.1
		7	3.52	4.3	8.79	3.79	3.69	4.76	9.71	4.53	4.12	5.61	11.46	6.05	4.52	6.46	13.19	7.75	4.88	7.29	14.90	9.6
	7	4	4.1	5.01	17.89	13.21	4.45	5.76	20.58	16.93	4.78	6.51	23.28	21.01	5.11	7.29	26.05	25.58	5.42	8.08	28.89	30.66
		5	3.67	4.33	12.39	6.89	3.96	4.98	14.25	8.81	4.34	5.77	16.50	11.43	4.69	6.56	18.77	14.31	5.03	7.37	21.09	17.61
		6	3.48	4	9.53	4.33	3.57	4.36	10.38	5.04	3.81	4.92	11.74	6.25	4.24	5.76	13.73	8.23	4.58	6.6	15.73	10.47
		7	3.24	3.61	7.39	2.75	3.36	3.99	8.16	3.28	3.47	4.36	8.92	3.83	3.63	4.83	9.87	4.59	4.06	5.72	11.69	6.18
	9	4	3.66	3.97	14.22	8.69	3.7	4.32	15.44	10.06	4.02	5.02	17.96	13.12	4.38	5.81	20.79	17	4.72	6.61	23.64	21.29
		5	3.49	3.67	10.50	5.08	3.55	4.02	11.50	5.97	3.61	4.36	12.48	6.87	3.88	5	14.33	8.78	4.26	5.83	16.71	11.52
		6	3.26	3.31	7.89	3.06	3.36	3.68	8.78	3.7	3.44	4.04	9.64	4.35	3.51	4.39	10.48	5.05	3.72	4.96	11.83	6.25
		7	2.87	2.87	5.87	1.81	3.1	3.29	6.72	2.3	3.22	3.68	7.52	2.8	3.32	4.05	8.28	3.32	3.4	4.41	9.03	3.86
Low	5	4	4.19	5.62	20.08	16.41	4.47	6.27	22.38	19.84	4.75	6.93	24.74	23.74	5.01	7.6	27.14	27.91	5.28	8.29	29.60	32.5
		5	3.81	5	14.29	8.99	4.12	5.67	16.20	11.23	4.41	6.34	18.11	13.65	4.69	7.02	20.07	16.33	4.97	7.72	22.06	19.29
		6	3.35	4.27	10.17	4.92	3.7	4.98	11.86	6.45	4.03	5.69	13.55	8.16	4.34	6.39	15.22	10	4.63	7.11	16.94	12.1
		7	2.98	3.67	7.51	2.87	3.18	4.15	8.47	3.55	3.58	4.93	10.06	4.81	3.93	5.68	11.60	6.18	4.26	6.43	13.14	7.71
	7	4	3.55	4.4	15.73	10.52	3.85	5.06	18.08	13.46	4.14	5.72	20.45	16.7	4.43	6.4	22.87	20.33	4.7	7.09	25.36	24.45
		5	3.11	3.72	10.64	5.26	3.44	4.38	12.54	7.03	3.77	5.08	14.53	9.12	4.07	5.77	16.52	11.42	4.37	6.49	18.55	14.04
		6	2.95	3.42	8.17	3.3	3.03	3.73	8.90	3.83	3.31	4.33	10.32	4.98	3.66	5.07	12.10	6.58	3.99	5.81	13.86	8.38
		7	2.73	3.06	6.26	2.06	2.85	3.41	6.97	2.48	2.94	3.73	7.63	2.92	3.15	4.23	8.66	3.65	3.54	5.04	10.30	4.95
	9	4	3.1	3.41	12.22	6.65	3.16	3.74	13.38	7.83	3.49	4.42	15.82	10.48	3.8	5.11	18.30	13.57	4.09	5.81	20.80	16.98
		5	2.96	3.15	9.01	3.88	3.01	3.45	9.87	4.56	3.06	3.74	10.72	5.27	3.38	4.41	12.64	7.04	3.71	5.15	14.74	9.23
		6	2.76	2.82	6.74	2.32	2.85	3.15	7.52	2.81	2.92	3.46	8.27	3.32	2.98	3.77	8.99	3.85	3.24	4.37	10.44	5.01
		7	2.39	2.39	4.88	1.31	2.61	2.78	5.69	1.72	2.72	3.13	6.41	2.12	2.81	3.46	7.09	2.52	2.89	3.78	7.74	2.95

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 2 Pipe

ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature °C	Entering/Leaving Water Temperature Difference °C	*10 (1000 CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	7.03	9.28	33.14	12.84	7.51	10.38	37.05	15.62	7.99	11.5	41.06	18.69	8.45	12.65	45.18	22.2	8.9	13.83	49.37	25.92
		5	6.3	8.11	23.17	6.8	6.84	9.25	26.42	8.58	7.35	10.39	29.70	10.53	7.84	11.57	33.05	12.74	8.32	12.76	36.45	15.12
		6	5.41	6.73	16.02	3.54	6.04	7.96	18.95	4.76	6.62	9.17	21.84	6.11	7.16	10.38	24.74	7.62	7.67	11.6	27.63	9.25
		7	5.02	6.07	12.40	2.24	5.21	6.64	13.56	2.63	5.74	7.73	15.80	3.45	6.37	9.04	18.46	4.53	6.95	10.33	21.09	5.73
	7	4	5.91	7.17	25.65	8.06	6.44	8.29	29.63	10.38	6.95	9.43	33.70	13.05	7.44	10.58	37.83	15.97	7.91	11.76	42.05	19.22
		5	5.34	6.26	17.92	4.26	5.65	7.04	20.14	5.25	6.22	8.22	23.52	6.89	6.76	9.42	26.94	8.76	7.27	10.62	30.39	10.81
		6	5.01	5.7	13.59	2.61	5.17	6.24	14.89	3.06	5.33	6.82	16.26	3.59	5.97	8.1	19.32	4.85	6.54	9.37	22.34	6.27
		7	4.57	5.01	10.25	1.59	4.79	5.62	11.48	1.93	4.97	6.2	12.67	2.3	5.13	6.75	13.79	2.67	5.68	7.92	16.20	3.54
	9	4	5.35	5.78	20.68	5.43	5.42	6.29	22.49	6.31	5.8	7.2	25.75	8.01	6.34	8.37	29.95	10.43	6.85	9.57	34.24	13.23
		5	5.06	5.27	15.08	3.1	5.16	5.79	16.59	3.67	5.26	6.31	18.07	4.27	5.53	7.07	20.25	5.22	6.11	8.32	23.83	6.95
		6	4.66	4.66	11.12	1.81	4.82	5.23	12.48	2.22	4.97	5.79	13.81	2.65	5.09	6.32	15.09	3.1	5.22	6.88	16.43	3.6
		7	3.76	3.76	7.68	0.94	4.33	4.52	9.24	1.3	4.56	5.15	10.54	1.64	4.75	5.74	11.74	1.99	4.89	6.3	12.88	2.34
Medium	5	4	6.58	8.75	31.24	11.57	7.04	9.78	34.92	14.06	7.48	10.83	38.69	16.83	7.92	11.92	42.57	19.97	8.35	13.02	46.51	23.32
		5	5.91	7.65	21.87	6.16	6.41	8.72	24.92	7.74	6.89	9.8	28.01	9.5	7.36	10.91	31.17	11.49	7.8	12.03	34.38	13.63
		6	5.06	6.32	15.06	3.18	5.66	7.5	17.86	4.29	6.21	8.65	20.60	5.52	6.73	9.8	23.34	6.88	7.21	10.95	26.08	8.35
		7	4.65	5.63	11.51	1.97	4.83	6.18	12.62	2.32	5.38	7.28	14.86	3.09	5.98	8.52	17.41	4.09	6.53	9.75	19.91	5.18
	7	4	5.54	6.77	24.20	7.27	6.03	7.82	27.95	9.36	6.51	8.89	31.79	11.77	6.97	9.98	35.67	14.4	7.42	11.09	39.65	17.33
		5	4.95	5.84	16.72	3.77	5.29	6.64	19.00	4.74	5.83	7.76	22.20	6.22	6.34	8.89	25.44	7.91	6.82	10.03	28.69	9.77
		6	4.65	5.3	12.65	2.3	4.79	5.82	13.87	2.71	5	6.42	15.32	3.23	5.6	7.65	18.23	4.38	6.15	8.85	21.10	5.67
		7	4.2	4.62	9.44	1.37	4.43	5.21	10.65	1.69	4.61	5.76	11.78	2.03	4.76	6.29	12.85	2.36	5.33	7.46	15.26	3.2
	9	4	4.96	5.39	19.30	4.81	5.03	5.87	21.00	5.59	5.44	6.8	24.32	7.24	5.94	7.9	28.28	9.43	6.43	9.03	32.33	11.95
		5	4.69	4.91	14.06	2.74	4.79	5.4	15.48	3.25	4.88	5.89	16.87	3.78	5.2	6.69	19.15	4.74	5.74	7.86	22.52	6.29
		6	4.32	4.32	10.30	1.58	4.47	4.87	11.61	1.95	4.61	5.39	12.87	2.34	4.72	5.89	14.07	2.74	4.9	6.5	15.51	3.25
		7	2.94	2.94	6.02	0.61	3.97	4.15	8.48	1.12	4.22	4.77	9.76	1.44	4.4	5.34	10.92	1.75	4.54	5.86	12.00	2.06
Low	5	4	5.6	7.55	26.96	8.92	6	8.44	30.13	10.84	6.38	9.35	33.39	13.02	6.75	10.28	36.70	15.36	7.12	11.23	40.09	17.95
		5	5.03	6.6	18.88	4.75	5.47	7.53	21.53	5.98	5.89	8.48	24.23	7.38	6.28	9.43	26.94	8.88	6.67	10.4	29.71	10.54
		6	4.27	5.4	12.86	2.41	4.82	6.46	15.38	3.29	5.3	7.47	17.80	4.26	5.75	8.48	20.19	5.33	6.17	9.48	22.58	6.47
		7	3.82	4.64	9.48	1.4	4	5.14	10.50	1.68	4.54	6.21	12.67	2.34	5.1	7.35	15.00	1.14	5.59	8.43	17.22	4.01
	7	4	4.71	5.85	20.92	5.63	5.15	6.77	24.20	7.28	5.55	7.69	27.49	9.1	5.95	8.63	30.84	11.13	6.33	9.59	34.28	13.45
		5	4.13	4.92	14.09	2.79	4.51	5.74	16.41	3.66	4.98	6.73	19.24	4.85	5.42	7.7	22.03	6.14	5.84	8.69	24.87	7.61
		6	3.85	4.43	10.57	1.68	3.99	4.88	11.64	1.99	4.24	5.52	13.16	2.47	4.78	6.61	15.76	3.39	5.26	7.67	18.28	4.4
		7	3.04	3.24	6.62	0.73	3.63	4.28	8.75	1.2	3.81	4.79	9.79	1.46	3.95	5.26	10.75	1.72	4.54	6.42	13.13	2.45
	9	4	4.13	4.55	16.29	3.57	4.19	4.95	17.72	4.14	4.64	5.89	21.08	5.62	5.08	6.86	24.54	7.36	5.49	7.83	28.01	9.28
		5	3.9	4.13	11.82	2.02	3.99	4.55	13.04	2.4	4.07	4.97	14.23	2.8	4.44	5.8	16.60	3.68	4.92	6.83	19.57	4.92
		6	3.54	3.56	8.49	1.13	3.7	4.06	9.68	1.42	3.83	4.51	10.77	1.71	3.93	4.95	11.82	2.01	4.18	5.61	13.39	2.51
		7	2.66	2.66	5.45	0.51	2.9	2.94	6.03	0.61	3.44	3.9	7.98	1.01	3.63	4.42	9.05	1.26	3.77	4.9	10.02	1.5

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 2 Pipe

ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*12 (1200 CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	8.53	11.04	39.43	17.46	9.12	12.35	44.01	21.23	9.68	13.68	48.87	25.42	10.23	15.06	53.77	30.05	10.77	16.46	58.79	35.15
		5	7.63	9.62	27.50	9.2	8.27	10.97	31.30	11.61	8.88	12.33	35.23	14.24	9.47	13.73	39.23	17.25	10.04	15.14	43.27	20.48
		6	6.74	8.25	19.65	5.07	7.31	9.45	22.46	6.44	7.99	10.86	25.88	8.25	8.62	12.28	29.26	10.22	9.24	13.73	32.71	12.46
		7	6.31	7.54	15.39	3.29	6.52	8.21	16.73	3.83	6.95	9.21	18.80	4.68	7.69	10.73	21.91	6.13	8.37	12.23	24.99	7.73
	7	4	7.17	8.51	30.42	10.9	7.8	9.83	35.08	14.03	8.42	11.19	40.00	17.66	9	12.56	44.91	21.61	9.57	13.97	49.94	26.03
		5	6.67	7.69	22.01	6.12	6.82	8.33	23.78	7.05	7.51	9.73	27.83	9.27	8.15	11.14	31.88	11.79	8.76	12.57	35.96	14.55
		6	6.28	7.04	16.78	3.8	6.46	7.69	18.30	4.44	6.62	8.33	19.87	5.1	7.17	9.58	22.84	6.52	7.87	11.06	26.38	8.41
		7	5.77	6.27	12.83	2.35	6.02	6.98	14.24	2.84	6.22	7.66	15.66	3.34	6.41	8.32	17.01	3.87	6.85	9.39	19.20	4.79
	9	4	6.7	7.09	25.54	7.8	6.79	7.72	27.56	9.05	7.01	8.51	30.45	10.77	7.66	9.9	35.42	14.03	8.27	11.31	40.49	17.73
		5	6.33	6.48	18.54	4.47	6.45	7.12	20.33	5.27	6.57	7.75	22.19	6.13	6.68	8.38	24.00	7.04	7.35	9.82	28.10	9.3
		6	5.78	5.78	13.79	2.65	6.04	6.46	15.37	3.21	6.2	7.12	17.00	3.83	6.34	7.77	18.54	4.46	6.47	8.41	20.06	5.11
		7	4.91	4.91	10.05	1.51	5.5	5.69	11.62	1.96	5.74	6.41	13.12	2.42	5.94	7.1	14.52	2.89	6.11	7.76	15.88	3.38
Medium	5	4	7.34	9.64	34.44	13.75	7.84	10.78	42.94	16.72	8.33	11.95	42.67	20.01	8.81	13.14	46.94	23.65	9.29	14.38	51.34	27.77
		5	6.57	8.42	24.07	7.27	7.13	9.6	30.55	9.18	7.66	10.79	30.85	11.26	8.18	12.02	34.34	13.63	8.67	13.25	37.87	16.18
		6	5.66	7.02	16.72	3.83	6.3	8.27	21.92	5.09	6.9	9.52	22.68	6.54	7.47	10.78	25.69	8.15	8	12.04	28.69	9.88
		7	5.29	6.38	13.03	2.45	5.48	6.96	16.24	2.86	5.99	8.04	16.43	3.69	6.64	9.39	19.18	4.85	7.24	10.72	21.90	6.13
	7	4	6.17	7.45	26.64	8.62	6.72	8.61	34.24	11.1	7.25	9.79	35.01	13.95	7.76	10.99	39.30	17.08	8.25	12.22	43.68	20.56
		5	5.61	6.55	18.75	4.62	5.89	7.31	23.26	5.62	6.48	8.54	24.42	7.36	7.04	9.78	27.97	9.36	7.57	11.03	31.55	11.55
		6	5.27	5.97	14.24	2.83	5.43	6.54	17.77	3.34	5.57	7.09	16.91	3.84	6.22	8.41	20.05	5.18	6.82	9.72	23.18	6.7
		7	4.81	5.27	10.78	1.73	5.04	5.9	13.81	2.11	5.23	6.5	13.28	2.5	5.38	7.07	14.45	2.9	5.93	8.24	16.84	3.8
	9	4	5.62	6.05	21.63	5.88	5.7	6.58	26.76	6.83	6.05	7.47	26.73	8.56	6.61	8.69	31.08	11.14	7.14	9.93	35.55	14.14
		5	5.31	5.51	15.78	3.36	5.42	6.06	19.74	3.98	5.52	6.6	18.91	4.62	5.76	7.34	21.01	5.57	6.37	8.63	24.72	7.42
		6	4.89	4.89	11.67	1.97	5.07	5.48	14.92	2.41	5.21	6.06	14.46	3.62	5.34	6.62	15.79	3.36	5.45	7.16	17.08	3.85
		7	4.02	4.02	8.22	1.06	4.57	4.76	11.26	1.43	4.8	15.41	11.07	1.79	4.99	6.02	12.31	2.16	5.14	6.6	13.50	2.54
Low	5	4	6.71	8.89	31.77	11.92	7.17	9.94	38.51	14.49	7.62	11.02	39.35	17.34	8.07	12.12	43.29	20.58	8.5	13.25	47.31	24.03
		5	6.01	7.77	22.21	6.31	6.53	8.87	27.45	7.97	7.02	9.97	28.48	9.78	7.49	11.09	31.70	11.83	7.95	12.23	34.96	14.04
		6	5.16	6.44	15.33	3.28	5.77	7.63	19.70	4.42	6.33	8.79	20.95	5.68	6.85	9.96	23.73	7.08	7.34	11.13	26.51	8.6
		7	4.75	5.75	11.75	2.04	4.94	6.31	14.21	2.4	5.48	7.4	15.12	3.19	6.09	8.67	17.70	4.21	6.65	9.91	20.24	5.33
	7	4	5.64	6.88	24.60	7.49	6.15	7.95	30.78	9.64	6.63	9.04	32.32	12.12	7.1	10.15	36.27	14.83	7.55	11.28	40.32	17.84
		5	5.06	5.96	17.05	3.91	5.39	6.75	20.92	4.88	5.94	7.89	22.57	6.4	6.46	9.04	25.86	8.14	6.95	10.19	29.16	10.05
		6	4.75	5.41	12.91	2.38	4.9	5.94	15.60	2.8	5.09	6.53	15.58	3.33	5.7	7.77	18.53	4.51	6.26	8.99	21.44	5.84
		7	4.3	4.72	9.66	1.43	4.53	5.32	12.05	1.76	4.71	5.88	12.03	2.1	4.86	6.41	13.11	2.45	5.42	7.59	15.52	3.29
	9	4	5.07	5.5	19.68	4.98	5.14	5.98	23.53	5.78	5.54	6.91	24.71	7.45	6.05	8.03	28.74	9.7	6.54	9.18	32.86	12.3
		5	4.79	5.01	14.34	2.84	4.89	5.51	17.36	3.36	4.99	6.01	17.20	3.91	5.29	6.8	19.47	4.88	5.84	7.99	22.88	6.47
		6	4.42	4.42	10.54	1.65	4.57	4.97	13.08	2.02	4.71	5.5	13.13	2.43	4.82	6.01	14.35	2.84	4.99	6.6	15.76	3.35
		7	2.97	2.97	6.08	0.62	4.08	4.26	9.74	1.17	4.32	4.88	9.98	1.49	4.5	5.45	11.15	1.81	4.64	5.98	12.24	2.14

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. - RH: relative humidity

Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 2 Pipe

ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*14 (1400 CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa		
High	5	4	9.51	12.43	44.38	23.62	10.14	13.85	49.47	28.57	10.75	15.31	54.69	34.06	11.35	16.82	60.08	40.32	11.94	18.36	65.56	46.97
		5	8.63	11.02	31.49	12.87	9.3	12.47	35.64	15.98	9.96	13.96	39.90	19.55	10.58	15.47	44.21	23.39	11.19	17.02	48.63	27.62
		6	7.61	9.45	22.50	7.09	8.37	10.97	26.12	9.22	9.07	12.48	29.73	11.57	9.75	14.03	33.43	14.24	10.4	15.6	37.16	17.13
		7	7.06	8.56	17.47	4.52	7.27	9.27	18.93	5.2	8.08	10.87	22.20	6.9	8.83	12.48	25.48	8.8	9.53	14.08	28.76	10.87
	7	4	8.05	9.68	34.60	15.01	8.73	11.12	39.75	19.15	9.39	12.6	45.03	23.89	10.01	14.1	50.39	29.09	10.62	15.63	55.89	34.89
		5	7.35	8.57	24.53	8.15	7.77	9.62	27.53	10	8.49	11.14	31.87	12.96	9.17	12.66	36.23	16.22	9.83	14.24	40.72	19.98
		6	6.98	7.93	18.91	5.14	7.15	8.63	20.58	5.97	7.46	9.52	22.69	7.1	8.22	11.11	26.49	9.32	8.93	12.7	30.29	11.79
		7	6.53	7.21	14.74	3.31	6.75	7.94	16.24	3.92	6.95	8.66	17.70	4.56	7.12	9.36	19.14	5.23	7.95	11.06	22.61	7.02
	9	4	7.34	7.86	28.14	10.28	7.43	8.54	30.55	11.89	7.89	9.68	34.66	14.86	8.57	11.2	40.08	19.16	9.23	12.76	45.65	24.14
		5	6.99	7.26	20.78	6.02	7.11	7.95	22.75	7.06	7.23	8.62	24.69	8.13	7.59	9.65	27.62	9.93	8.32	11.24	32.19	13.02
		6	6.56	6.58	15.71	3.67	6.73	7.3	17.42	4.39	6.88	8	19.10	5.16	7.02	8.7	20.75	5.98	7.27	9.56	22.81	7.07
		7	5.8	5.8	11.86	2.23	6.24	6.58	13.46	2.78	6.46	7.32	14.97	3.35	6.64	8.04	16.45	3.95	6.81	8.75	17.90	4.58
Medium	5	4	8.18	10.86	38.78	18.61	8.73	12.1	43.21	22.5	9.26	13.38	53.22	26.95	9.78	14.68	52.43	31.69	10.29	16.02	57.20	36.9
		5	7.44	9.65	27.58	10.18	8.03	10.92	31.21	12.64	8.6	12.22	22.19	15.45	9.14	13.54	38.70	18.48	9.67	14.89	42.55	21.82
		6	6.56	8.27	19.71	5.61	7.23	9.62	22.91	7.31	7.85	10.96	29.00	9.23	8.44	12.31	29.32	11.3	9	13.68	32.59	13.6
		7	5.95	7.28	14.87	3.4	6.27	8.09	16.53	4.1	6.99	9.53	21.62	5.47	7.65	10.96	22.38	7	8.27	12.37	25.27	8.65
	7	4	6.93	8.48	30.32	11.89	7.52	9.75	34.84	15.22	8.09	11.03	43.84	18.89	8.63	12.33	44.09	22.99	9.17	13.68	48.92	27.69
		5	6.18	7.32	20.94	6.17	6.71	8.45	24.16	7.95	7.34	9.78	31.04	10.29	7.93	11.11	31.79	12.88	8.5	12.49	35.72	15.84
		6	5.88	6.76	16.12	3.88	6.03	7.36	17.56	4.52	6.45	8.36	22.11	5.65	7.13	9.77	23.29	7.43	7.75	11.18	26.67	9.44
		7	5.48	6.12	12.51	2.48	5.68	6.76	13.81	2.95	5.86	7.38	17.14	3.44	6.16	8.21	16.78	4.16	6.89	9.71	19.86	5.59
	9	4	6.16	6.71	24.02	7.77	6.24	7.29	26.08	9.01	6.8	8.5	33.76	11.81	7.41	9.84	35.21	15.3	7.97	11.19	40.03	19.15
		5	5.89	6.19	17.74	4.56	5.99	6.78	19.42	5.35	6.09	7.36	23.91	6.16	6.57	8.49	24.31	7.92	7.21	9.89	28.32	10.38
		6	5.51	5.6	13.36	2.75	5.67	6.22	14.85	3.32	5.8	6.83	18.50	3.9	5.92	7.42	17.72	4.53	6.31	8.42	20.10	5.65
		7	4.87	4.87	9.97	1.64	5.24	5.57	11.39	2.07	5.44	6.22	14.49	2.52	5.6	6.85	14.01	2.98	5.74	7.46	15.26	3.47
Low	5	4	7.45	9.97	35.62	16.02	7.95	11.11	39.69	19.37	8.44	12.28	47.77	23.17	8.91	13.48	48.13	27.24	9.38	14.7	52.50	31.71
		5	6.78	8.88	25.37	8.79	7.32	10.05	28.71	10.91	7.84	11.24	34.92	13.32	8.34	12.45	35.58	15.93	8.83	13.69	39.12	18.82
		6	5.98	7.6	18.11	4.84	6.6	8.85	21.08	6.32	7.17	10.09	26.11	7.97	7.71	11.33	27.00	9.76	8.24	12.61	30.04	11.81
		7	5.34	6.58	13.44	2.85	5.71	7.42	15.16	3.53	6.38	8.77	19.47	4.73	7	10.09	20.61	6.05	7.57	11.41	23.31	7.53
	7	4	6.31	7.8	27.90	10.27	6.86	8.97	32.05	13.13	7.37	10.14	39.41	16.29	7.87	11.34	40.54	19.82	8.36	12.58	44.96	23.85
		5	5.56	6.64	18.99	5.2	6.12	7.78	22.26	6.87	6.7	9.01	27.96	8.9	7.24	10.24	29.28	11.14	7.76	11.5	32.89	13.69
		6	5.28	6.12	14.59	3.26	5.42	6.66	15.89	3.78	5.89	7.7	19.93	4.88	6.51	9	21.47	6.43	7.09	10.31	24.58	8.18
		7	4.92	5.51	11.27	2.06	5.11	6.1	12.48	2.46	5.27	6.68	15.08	2.89	5.63	7.55	15.44	3.59	6.3	8.96	18.31	4.84
	9	4	5.54	6.09	21.78	6.54	5.63	6.63	23.74	7.64	6.21	7.84	30.42	10.22	6.76	9.06	32.43	13.23	7.27	10.3	36.86	16.55
		5	5.29	5.61	16.08	3.83	5.39	6.15	17.61	4.5	5.47	6.67	21.07	5.19	6.01	7.83	22.42	6.87	6.59	9.12	26.12	9
		6	4.95	5.06	12.07	2.3	5.1	5.63	13.44	2.78	5.22	6.19	16.29	3.28	5.33	6.73	16.06	3.81	5.78	7.77	18.54	4.9
		7	4.35	4.35	8.90	1.34	4.7	5.01	10.25	1.72	4.89	5.62	12.73	2.11	5.04	6.2	12.68	2.5	5.17	6.76	13.82	2.91

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. - RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 2 Pipe

ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*1600 (CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	11.38	15.12	54.01	39.93	12.1	16.79	59.97	48.16	12.8	18.49	66.03	56.98	13.49	20.23	72.25	66.7	14.16	22.02	78.63	77.38
		5	10.51	13.7	39.16	22.59	11.27	15.4	44.00	27.79	12.01	17.11	48.90	33.42	12.72	18.86	53.91	39.66	13.42	20.66	59.06	46.53
		6	9.53	12.15	28.94	13.22	10.36	13.89	33.08	16.75	11.14	15.63	37.24	20.61	11.9	17.43	41.52	25.02	12.63	19.24	45.84	29.75
		7	8.44	10.46	21.37	7.71	9.31	12.2	24.93	10.13	10.18	14.03	28.64	12.95	11	15.86	32.40	16.11	11.77	17.71	36.17	19.53
	7	4	9.74	11.97	42.78	26.18	10.5	13.64	48.75	32.89	11.24	15.34	54.84	40.44	11.96	17.1	61.13	49.12	12.66	18.89	67.53	58.44
		5	8.71	10.39	29.73	13.72	9.56	12.12	34.68	18.01	10.35	13.86	39.65	22.77	11.12	15.54	44.75	28.23	11.86	17.45	49.92	34.18
		6	8.26	9.61	22.92	8.64	8.46	10.42	24.85	9.98	9.35	12.24	29.18	13.24	10.19	14.07	33.55	16.94	10.98	15.91	37.94	21.01
		7	7.88	8.93	18.26	5.78	8.09	9.74	19.92	6.74	8.28	10.54	21.56	7.74	9.13	12.32	25.18	10.17	10	14.24	29.10	13.13
	9	4	8.52	9.33	33.38	16.63	8.74	10.25	36.69	19.68	9.56	12	42.92	25.99	10.33	13.75	49.22	33	11.07	15.55	55.65	40.93
		5	8.21	8.73	24.98	9.96	8.33	9.51	27.22	11.59	8.5	10.35	29.63	13.46	9.36	12.17	34.84	17.93	10.16	14	40.09	22.91
		6	7.83	8.07	19.26	6.28	7.99	8.87	21.18	7.41	8.13	9.66	23.07	8.62	8.27	10.45	24.94	9.9	9.14	12.3	29.37	13.21
		7	7.35	7.35	15.03	4.04	7.58	8.19	16.76	4.91	7.76	9.01	18.44	5.8	7.93	9.81	20.08	6.74	8.09	10.61	21.71	7.73
Medium	5	4	10.75	14.37	51.31	36.48	11.43	15.95	56.96	43.96	12.1	17.56	62.70	52	12.74	19.21	68.60	60.87	13.38	20.9	74.65	70.6
		5	9.95	13.05	37.28	20.79	10.66	14.64	41.83	25.42	11.36	16.27	46.48	30.57	12.03	17.93	51.25	36.27	12.7	19.65	56.16	42.75
		6	9.02	11.56	27.54	12.12	9.81	13.22	31.48	15.35	10.55	14.88	35.44	18.89	11.27	16.58	39.50	22.92	11.96	18.31	43.61	27.24
		7	7.93	9.88	20.19	6.99	8.83	11.64	23.77	9.34	9.64	13.36	27.28	11.88	10.42	15.11	30.85	14.77	11.16	16.86	34.44	17.91
	7	4	9.2	11.38	40.69	23.96	9.92	12.97	46.35	30.09	10.62	14.58	52.14	36.99	11.31	16.21	58.10	44.88	11.97	17.95	64.17	53.29
		5	8.24	9.9	28.31	12.59	9.04	11.54	33.01	16.51	9.8	13.19	37.74	20.87	10.52	14.89	42.58	25.86	11.22	16.6	47.49	31.3
		6	7.75	9.06	21.60	7.78	8.01	9.93	23.68	9.16	8.86	11.66	27.80	12.15	9.65	13.4	31.96	15.55	10.4	15.15	36.13	19.27
		7	7.39	8.42	17.21	5.21	7.59	9.19	18.78	6.07	7.77	9.94	20.32	6.98	8.65	11.74	24.01	9.35	9.48	13.57	27.74	12.07
	9	4	7.98	8.79	31.45	14.97	8.26	9.76	34.94	18.05	9.04	11.42	40.85	23.82	9.77	13.09	46.83	30.23	10.47	14.79	52.94	37.48
		5	7.7	8.23	23.55	8.98	7.81	8.96	25.66	10.44	8.05	9.86	28.23	12.36	8.86	11.59	33.20	16.46	9.63	13.34	38.19	21.03
		6	7.35	7.61	18.16	5.66	7.49	8.36	19.96	6.68	7.63	9.11	21.75	7.77	7.8	9.91	23.64	9.02	8.66	11.73	28.00	12.15
		7	6.9	6.92	14.16	3.64	7.11	7.72	15.80	4.42	7.29	8.49	17.38	5.22	7.45	9.25	18.93	6.08	7.59	10	20.46	6.95
Low	5	4	9.57	12.93	46.18	30.41	10.17	14.34	51.21	36.41	10.77	15.78	56.35	43.06	11.35	17.26	61.63	50.38	11.92	18.78	67.05	58.41
		5	8.87	11.76	33.60	17.3	9.51	13.19	37.69	21.15	10.13	14.65	41.87	25.42	10.74	16.16	46.18	30.29	11.33	17.69	50.55	35.47
		6	8.05	10.44	24.87	10.12	8.76	11.93	28.42	12.81	9.42	13.43	31.98	15.76	10.07	14.96	35.63	19.1	10.69	16.51	39.33	22.7
		7	7.09	8.92	18.22	5.83	7.9	10.52	21.48	7.81	8.63	12.07	24.66	9.93	9.33	13.65	27.88	12.35	9.99	15.24	31.12	14.97
	7	4	8.19	10.26	36.68	19.95	8.84	11.68	41.77	25.04	9.47	13.14	46.99	30.91	10.07	14.63	52.30	37.26	10.66	16.15	57.73	44.3
		5	7.35	8.94	25.58	10.52	8.07	10.42	29.82	13.79	8.75	11.92	34.10	17.51	9.39	13.43	38.42	21.57	10.02	14.97	42.84	26.09
		6	6.8	8.03	19.14	6.29	7.16	8.98	21.41	7.67	7.92	10.55	25.15	10.18	8.64	12.12	28.89	13.01	9.31	13.7	32.66	16.12
		7	6.49	7.45	15.24	4.2	6.66	8.14	16.63	4.91	6.94	8.97	18.33	5.82	7.76	10.65	21.77	7.89	8.5	12.29	25.12	10.12
	9	4	6.98	7.78	27.85	12.08	7.37	8.82	31.57	15.09	8.06	10.31	36.89	19.88	8.71	11.81	42.26	25.22	9.34	13.34	47.75	31.23
		5	6.75	7.29	20.87	7.25	6.84	7.94	22.73	8.44	7.19	8.93	25.56	10.37	7.92	10.49	30.03	13.79	8.61	12.07	34.57	17.7
		6	6.45	6.74	16.09	4.57	6.57	7.41	17.69	5.4	6.7	8.07	19.27	6.28	6.99	8.98	21.43	7.58	7.76	10.63	25.37	10.21
		7	6.05	6.12	12.52	2.93	6.24	6.83	13.98	3.57	6.4	7.52	15.40	4.22	6.54	8.2	16.78	4.91	6.75	8.98	18.37	5.76

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 2 Pipe

ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*1800 (CFM)															
			Entering Air Temperature															
			DB24°C				DB25°C				DB26°C				DB27°C			
			RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	11.99	15.85	56.60	43.37	12.75	17.59	62.82	52.07	13.49	19.38	69.23	61.95	14.2	21.21	75.75	72.53
		5	11.06	14.35	41.00	24.5	11.87	16.12	46.07	30.14	12.64	17.92	51.21	36.27	13.39	19.76	56.47	43.04
		6	10.03	12.71	30.27	14.32	10.9	14.53	34.61	18.15	11.72	16.36	38.96	22.33	12.52	18.24	43.45	27.12
		7	8.95	11.05	22.57	8.51	9.79	12.76	26.06	10.96	10.7	14.66	29.95	14.01	11.56	16.59	33.88	17.43
	7	4	10.26	12.53	44.79	28.4	11.06	14.28	51.05	35.68	11.84	16.07	57.44	43.88	12.59	17.9	64.00	53.04
		5	9.17	10.87	31.10	14.85	10.06	12.68	36.27	19.5	10.89	14.5	41.48	24.66	11.7	16.37	46.83	30.6
		6	8.77	10.15	24.20	9.5	8.96	10.98	26.18	10.92	9.83	12.79	30.50	14.32	10.71	14.71	35.07	18.33
		7	8.35	9.43	19.28	6.36	8.58	10.29	21.03	7.41	8.78	11.13	22.75	8.51	9.58	12.87	26.31	10.99
	9	4	9.06	9.85	35.26	18.31	9.2	10.72	38.38	21.3	10.05	12.54	44.86	28	10.87	14.39	51.51	35.76
		5	8.72	9.21	26.38	10.97	8.84	10.04	28.75	12.76	8.97	10.86	31.10	14.67	9.84	12.72	36.42	19.39
		6	8.31	8.52	20.33	6.91	8.47	9.37	22.36	8.16	8.63	10.2	24.36	9.48	8.78	11.04	26.35	10.93
		7	7.76	7.76	15.88	4.45	8.03	8.65	17.70	5.4	8.23	9.51	19.46	6.38	8.41	10.36	21.20	7.41
Medium	5	4	11.26	14.98	53.48	39.24	11.97	16.63	59.38	47.33	12.66	18.31	65.38	55.99	13.34	20.03	71.54	65.54
		5	10.4	13.57	38.79	22.21	11.15	15.25	43.57	27.32	11.88	16.95	48.43	32.86	12.59	18.68	53.39	38.99
		6	9.43	12.03	28.66	13	10.25	13.75	32.76	16.48	11.03	15.48	36.89	20.27	11.78	17.26	41.12	24.61
		7	8.34	10.35	21.13	7.56	9.22	12.09	24.70	9.96	10.07	13.89	28.38	12.73	10.89	15.72	32.10	15.84
	7	4	9.63	11.85	42.37	25.74	10.39	13.5	48.28	32.34	11.12	15.19	54.32	39.75	11.83	16.93	60.54	48.28
		5	8.62	10.3	29.46	13.5	9.46	12.01	34.35	17.71	10.24	13.73	39.28	22.4	11	15.5	44.33	27.76
		6	8.16	9.5	22.66	8.47	8.37	10.33	24.62	9.81	9.26	12.13	28.91	13.02	10.09	13.94	33.24	16.67
		7	7.78	8.83	18.05	5.67	7.99	9.63	19.70	6.6	8.18	10.43	21.32	7.6	9.03	12.21	24.95	10.01
	9	4	8.41	9.22	33.00	16.3	8.65	10.16	36.35	19.36	9.46	11.88	42.52	25.56	10.22	13.62	48.75	32.46
		5	8.11	8.63	24.70	9.76	8.23	9.4	26.91	11.36	8.41	10.25	29.35	13.24	9.26	12.06	34.52	17.64
		6	7.74	7.98	19.04	6.15	7.89	8.77	20.94	7.27	8.03	9.56	22.81	8.45	8.17	10.33	24.67	9.72
		7	7.26	7.26	14.86	3.96	7.48	8.1	16.57	4.81	7.67	8.91	18.23	5.68	7.84	9.7	19.86	6.61
Low	5	4	9.73	13.13	46.91	31.25	10.35	14.56	52.01	37.43	10.95	16.03	57.24	44.26	11.54	17.53	62.60	51.79
		5	9.01	11.94	34.12	17.77	9.67	13.39	38.27	21.72	10.3	14.88	42.50	26.11	10.92	16.41	46.89	31.13
		6	8.19	10.6	25.24	10.39	8.9	12.11	28.85	13.16	9.58	13.63	32.47	16.18	10.24	15.19	36.17	19.61
		7	7.2	9.05	18.49	5.99	8.03	10.67	21.80	8.02	8.77	12.25	25.02	10.2	9.48	13.86	28.30	12.68
	7	4	8.33	10.42	37.24	20.49	8.99	11.86	42.41	25.72	9.62	13.34	47.68	31.59	10.24	14.85	53.10	38.28
		5	7.48	9.08	25.96	10.8	8.21	10.58	30.26	14.16	8.9	12.1	34.62	17.98	9.55	13.63	39.00	22.14
		6	6.93	8.17	19.48	6.49	7.28	9.11	21.73	7.87	8.05	10.7	25.52	10.45	8.78	12.3	29.32	13.36
		7	6.61	7.59	15.51	4.34	6.79	8.28	16.93	5.06	7.05	9.1	18.60	5.97	7.88	10.79	22.05	8.05
	9	4	7.12	7.92	28.34	12.47	7.49	8.95	32.04	15.49	8.19	10.46	37.44	20.41	8.86	11.99	42.90	25.89
		5	6.88	7.42	21.24	7.48	6.97	8.08	23.14	8.7	7.31	9.06	25.93	10.64	8.05	10.64	30.48	14.15
		6	6.57	6.86	16.37	4.71	6.7	7.54	18.01	5.57	6.82	8.22	19.61	6.48	7.1	9.11	21.74	7.77
		7	6.17	6.23	12.74	3.02	6.36	6.96	14.23	3.68	6.52	7.66	15.67	4.35	6.67	8.35	17.08	5.07

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

—————> Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 2 Pipe

ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*2000 (CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	13.1	17.46	62.34	56.69	13.91	19.34	69.09	68.11	14.7	21.27	75.96	80.4	15.47	23.24	83.01	93.93	16.23	25.27	90.25	108.78
		5	12.18	15.95	45.59	32.66	13.03	17.85	51.02	39.75	13.85	19.79	56.57	47.63	14.65	21.78	62.25	56.35	15.44	23.84	68.12	66.22
		6	11.15	14.3	34.07	19.49	12.06	16.24	38.69	24.35	12.93	18.22	43.39	29.76	13.78	20.24	48.22	35.9	14.6	22.3	53.12	42.52
		7	9.96	12.45	25.43	11.59	10.97	14.48	29.58	15.13	11.93	16.53	33.76	19.12	12.82	18.58	37.94	23.45	13.68	20.67	42.21	28.25
	7	4	11.25	13.88	49.63	37.49	12.1	15.77	56.39	46.87	12.93	17.71	63.30	57.4	13.75	19.7	70.42	69.45	14.53	21.73	77.67	82.44
		5	10.17	12.22	34.96	20.18	11.1	14.15	40.49	26.09	12	16.13	46.15	32.92	12.85	18.14	51.88	40.38	13.67	20.18	57.74	48.69
		6	9.51	11.13	26.54	12.34	9.96	12.37	29.49	14.89	10.94	14.41	34.36	19.52	11.86	16.45	39.23	24.6	12.74	18.53	44.19	30.31
		7	9.12	10.42	21.30	8.36	9.34	11.33	23.16	9.69	9.72	12.47	25.49	11.48	10.75	14.61	29.87	15.18	11.7	16.75	34.24	19.27
	9	4	9.74	10.72	38.34	23.42	10.13	11.95	42.76	28.41	11.04	13.92	49.80	37.22	11.91	15.91	56.93	47.03	12.74	17.95	64.23	58.1
		5	9.42	10.08	28.85	14.15	9.55	10.96	31.37	16.42	9.92	12.16	34.80	19.71	10.87	14.21	40.69	25.96	11.77	16.29	46.63	32.96
		6	9.04	9.38	22.40	9.03	9.2	10.3	24.57	10.66	9.35	11.18	26.68	12.28	9.69	12.33	29.43	14.65	10.68	14.47	34.53	19.37
		7	8.57	8.64	17.68	5.95	8.78	9.57	19.59	7.11	8.98	10.49	21.46	8.35	9.15	11.39	23.31	9.67	9.43	12.44	25.46	11.31
Medium	5	4	12.3	16.51	58.95	51.55	13.06	18.28	65.27	61.59	13.8	20.09	71.74	72.69	14.53	21.95	78.39	84.91	15.25	23.86	85.22	98.31
		5	11.45	15.09	43.13	29.61	12.25	16.89	48.26	36.04	13.02	18.72	53.50	43.17	13.79	20.61	58.90	51.31	14.52	22.53	64.36	59.95
		6	10.49	13.55	32.27	17.71	11.35	15.38	36.64	22.11	12.18	17.26	41.12	27.16	12.97	19.16	45.65	32.58	13.74	21.11	50.27	38.58
		7	9.38	11.8	24.11	10.55	10.34	13.73	28.04	13.76	11.24	15.67	31.99	17.39	12.08	17.6	35.95	21.32	12.9	19.58	39.99	25.68
	7	4	10.57	13.14	46.96	34	11.37	14.92	53.34	42.49	12.16	16.76	59.90	52.29	12.92	18.62	66.57	62.88	13.66	20.54	73.41	74.62
		5	9.57	11.58	33.12	18.35	10.44	13.41	38.35	23.71	11.29	15.28	43.70	29.89	12.09	17.17	49.11	36.65	12.87	19.1	54.65	44.18
		6	8.86	10.43	24.88	11.01	9.38	11.73	27.96	13.56	10.31	13.66	32.57	17.76	11.17	15.59	37.18	22.38	12.01	17.58	41.92	27.7
		7	8.5	9.77	19.97	7.46	8.71	10.62	21.71	8.65	9.16	11.83	24.19	10.47	10.14	13.86	28.34	13.84	11.05	15.91	32.52	17.65
	9	4	9.06	10.04	35.91	20.87	9.52	11.32	40.51	25.83	10.38	13.18	47.16	33.8	11.2	15.06	53.90	42.69	11.98	16.99	60.78	52.71
		5	8.77	9.44	27.04	12.63	8.89	10.27	29.40	14.64	9.35	11.54	33.05	18.04	10.24	13.47	38.57	23.63	11.09	15.45	44.23	30.13
		6	8.43	8.81	21.02	8.1	8.58	9.65	23.03	9.51	8.71	10.48	25.01	10.96	9.14	11.7	27.93	13.36	10.07	13.73	32.77	17.66
		7	7.99	8.1	16.58	5.31	8.19	8.97	18.36	6.35	8.37	9.83	20.12	7.46	8.54	10.68	21.86	8.63	8.9	11.82	24.19	10.33
Low	5	4	10.59	14.4	51.41	40.47	11.24	15.93	56.89	48.32	11.88	17.5	62.51	56.99	12.52	19.12	68.27	66.53	13.14	20.78	74.20	76.99
		5	9.87	13.2	37.73	23.38	10.57	14.76	42.19	28.43	11.24	16.37	46.78	34.2	11.9	18	51.43	40.36	12.54	19.67	56.20	47.13
		6	9.07	11.88	28.30	14.04	9.81	13.48	32.12	17.53	10.53	15.12	36.03	21.49	11.22	16.78	39.97	25.77	11.89	18.47	44.00	30.49
		7	8.12	10.37	21.17	8.38	8.96	12.06	24.63	10.95	9.74	13.75	28.09	13.82	10.47	15.45	31.56	16.93	11.19	17.19	35.11	20.48
	7	4	9.1	11.49	41.09	26.86	9.79	13.04	46.63	33.53	10.47	14.64	52.32	41.16	11.13	16.26	58.12	49.46	11.77	17.92	64.06	58.65
		5	8.26	10.16	29.07	14.57	9.02	11.76	33.64	18.81	9.75	13.39	38.30	23.67	10.44	15.04	43.01	29	11.12	16.72	47.83	34.93
		6	7.5	8.94	21.32	8.39	8.12	10.31	24.59	10.8	8.93	12	28.62	14.13	9.68	13.7	32.66	17.8	10.4	15.43	36.79	21.99
		7	7.2	8.37	17.11	5.68	7.38	9.1	18.61	6.6	7.95	10.42	21.30	8.36	8.8	12.2	24.95	11.05	9.6	14	28.61	14.08
	9	4	7.63	8.59	30.72	15.86	8.22	9.95	35.59	20.62	8.96	11.55	41.34	26.78	9.66	13.19	47.20	33.79	10.34	14.87	53.23	41.85
		5	7.41	8.09	23.16	9.61	7.51	8.79	25.18	11.15	8.09	10.15	29.07	14.38	8.86	11.84	33.90	18.82	9.6	13.56	38.84	23.93
		6	7.13	7.55	18.02	6.17	7.25	8.27	19.74	7.25	7.37	8.98	21.43	8.35	7.93	10.32	24.62	10.69	8.75	12.11	28.89	14.18
		7	6.77	6.94	14.20	4.04	6.94	7.69	15.74	4.84	7.09	8.43	17.25	5.68	7.24	9.15	18.73	6.58	7.75	10.43	21.35	8.29

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 2 Pipe

ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*2400 (CFM)															
			Entering Air Temperature															
			DB24°C				DB25°C				DB26°C				DB27°C			
			RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	14.95	19.64	70.15	69.8	15.87	21.78	77.78	84.01	16.76	23.95	85.54	99.2	17.63	26.18	93.51	115.93
		5	13.87	17.9	51.16	40.05	14.83	20.04	57.28	48.78	15.76	22.23	63.54	58.48	16.66	24.48	69.95	69.21
		6	12.65	15.99	38.10	23.67	13.69	18.79	43.33	29.73	14.68	20.41	48.62	36.37	15.64	22.7	54.07	43.94
		7	11.3	13.94	28.47	14.11	12.43	16.19	33.06	18.41	13.5	18.46	37.69	23.16	14.52	20.78	42.44	28.57
	7	4	12.83	15.58	55.70	45.96	13.8	17.71	63.32	57.51	14.74	19.89	71.11	70.49	15.65	22.13	79.10	84.97
		5	11.55	13.66	39.06	24.48	12.62	15.85	45.33	31.84	13.63	18.06	51.66	40.02	14.6	20.33	58.16	49.4
		6	11.05	12.76	30.43	15.7	11.29	13.81	32.93	18.1	12.39	16.08	38.34	23.61	13.44	18.39	43.86	29.96
		7	10.57	11.94	24.41	10.62	10.83	12.98	26.54	12.31	11.07	14.02	28.66	14.1	12.15	16.3	33.32	18.41
	9	4	11.36	12.3	44.03	29.87	11.53	13.37	47.86	34.66	12.57	15.59	55.80	45.5	13.55	17.84	63.83	57.54
		5	10.97	11.55	33.08	18.02	11.11	12.57	35.99	20.91	11.25	13.58	38.88	23.93	12.34	15.88	45.47	31.59
		6	10.49	10.75	25.66	11.47	10.68	11.8	28.16	13.56	10.86	12.83	30.61	15.7	11.03	13.83	33.02	17.88
		7	9.9	9.9	20.26	7.56	10.18	10.96	22.43	9.04	10.4	12.02	24.58	10.62	10.61	13.05	26.71	12.28
Medium	5	4	14.01	18.54	66.22	63.06	14.88	20.56	73.41	75.83	15.72	22.6	80.72	89.53	16.54	24.71	88.23	104.61
		5	13.01	16.92	48.36	36.25	13.92	18.94	54.13	44.14	14.79	21.01	60.03	52.91	15.65	23.12	66.08	62.6
		6	11.9	15.15	36.10	21.59	12.87	17.21	41.00	26.97	13.79	19.31	46.00	32.98	14.7	21.47	51.13	39.82
		7	10.62	13.18	26.92	12.81	11.69	15.33	31.31	16.73	12.7	17.48	35.70	21.04	13.66	19.68	40.18	25.95
	7	4	12.03	14.73	52.65	41.61	12.94	16.74	59.83	52.05	13.83	18.79	67.18	63.77	14.69	20.91	74.76	77.22
		5	10.86	12.94	37.03	22.34	11.85	15	42.90	28.89	12.81	17.1	48.92	36.49	13.72	19.23	55.00	44.77
		6	10.26	11.93	28.46	13.95	10.62	13.09	31.20	16.46	11.65	15.23	36.32	21.46	12.64	17.42	41.54	27.21
		7	9.83	11.17	22.83	9.45	10.07	12.14	24.83	10.95	10.34	13.18	26.95	12.67	11.44	15.45	31.59	16.76
	9	4	10.53	11.5	41.14	26.51	10.82	12.66	45.30	31.45	11.8	14.75	52.79	41.25	12.72	16.87	60.36	52.14
		5	10.18	10.8	30.93	16.01	10.31	11.75	33.65	18.57	10.58	12.86	36.82	21.77	11.6	15.04	43.07	28.7
		6	9.75	10.06	24.01	10.2	9.93	11.04	26.34	12.05	10.09	11.99	28.63	13.95	10.3	13.01	31.06	16.08
		7	9.26	9.26	18.95	6.72	9.47	10.26	20.99	8.04	9.68	11.24	23.00	9.44	9.87	12.21	24.99	10.92
Low	5	4	12.16	16.33	58.32	50.59	12.91	18.08	64.57	60.43	13.64	19.87	70.98	71.32	14.36	21.72	77.55	83.3
		5	11.32	14.94	42.68	29.07	12.11	16.71	47.75	35.37	12.87	18.52	52.93	42.37	13.63	20.39	58.28	50.35
		6	10.37	13.41	31.94	17.39	11.22	15.22	36.27	21.72	12.04	17.09	40.70	26.67	12.82	18.96	45.18	31.99
		7	9.27	11.69	23.87	10.36	10.22	13.59	27.76	13.52	11.11	15.51	31.67	17.08	11.95	17.43	35.59	20.94
	7	4	10.44	13	46.47	33.38	11.24	14.76	52.78	41.71	12.02	16.58	59.27	51.32	12.77	18.42	65.87	61.71
		5	9.46	11.46	32.79	18.02	10.32	13.27	37.96	23.28	11.16	15.12	43.25	29.35	11.95	16.99	48.60	35.98
		6	8.75	10.31	24.58	10.78	9.27	11.61	27.68	13.32	10.19	13.52	32.24	17.44	11.05	15.44	36.81	21.98
		7	8.39	9.65	19.73	7.3	8.6	10.49	21.45	8.47	9.06	11.72	23.95	10.28	10.02	13.73	28.06	13.6
	9	4	8.94	9.91	35.47	20.42	9.41	11.21	40.10	25.37	10.26	13.04	46.68	33.19	11.07	14.91	53.34	41.92
		5	8.66	9.33	26.71	12.36	8.77	10.14	29.04	14.33	9.24	11.43	32.72	17.72	10.12	13.34	38.19	23.21
		6	8.32	8.7	20.77	7.93	8.46	9.53	22.75	9.31	8.6	10.35	24.71	10.73	9.03	11.59	27.66	13.13
		7	7.89	8	16.38	5.2	8.08	8.87	18.14	6.21	8.26	9.71	19.88	7.3	8.43	10.55	21.59	8.45

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

Performance Data/Heating

New Series Ducted Fan Coil 2 Pipe ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature °C	Entering/Leaving Water Temperature Difference °C	*06 (600 CFM)						*08 (800 CFM)						*10 (1000 CFM)					
			Entering Air Temperature °C			Entering Air Temperature °C			Entering Air Temperature °C			Entering Air Temperature °C			Entering Air Temperature °C			Entering Air Temperature °C		
			DB20°C			DB22°C			DB20°C			DB22°C			DB20°C			DB22°C		
			RH 50			RH 50			RH 50			RH 50			RH 50			RH 50		
			Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop
			kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa
High	80	5	19.71	57.95	74.75	18.97	55.75	69.83	20.72	60.91	81.59	19.94	58.61	76.24	28.64	84.15	46.64	27.55	80.95	43.56
		10	18.78	27.57	20.4	18.03	26.48	19.01	19.72	28.95	22.23	18.94	27.80	20.71	27.23	39.99	12.7	26.15	38.40	11.83
		15	17.79	17.39	9.15	17.05	16.67	8.49	18.67	18.25	9.96	17.89	17.49	9.24	25.75	25.18	5.68	24.67	24.12	5.27
	60	5	12.78	37.24	37.04	12.06	35.13	33.43	13.43	39.14	40.42	12.67	36.92	36.48	18.55	54.04	23.08	17.49	50.97	20.82
		10	11.75	17.11	9.52	11.03	16.05	8.51	12.33	17.95	10.36	11.57	16.85	9.26	16.99	24.74	5.9	15.94	23.20	5.27
		15	10.6	10.77	3.92	9.86	9.56	3.45	11.11	10.77	4.26	10.33	10.02	3.75	15.24	14.78	2.41	14.17	13.73	2.11
	40	5	5.79	16.75	9.93	5.08	14.69	7.88	6.08	17.57	10.8	5.33	15.41	8.58	8.36	24.17	6.13	7.32	21.18	4.85
		10	4.41	6.38	1.84	3.62	5.23	1.29	4.63	6.68	1.99	3.8	5.49	1.41	6.21	8.97	1.08	5.01	7.25	0.74
		15	2.04	1.96	0.23	1.5	1.45	0.14	2.09	2.01	0.24	1.54	1.48	0.14	2.66	2.56	0.12	1.96	1.88	0.07
Medium	80	5	16.3	47.90	53.46	15.68	46.08	49.94	19.37	56.92	72.42	18.63	54.76	67.65	26.67	78.39	41.16	25.66	75.41	38.45
		10	15.58	22.87	14.68	14.96	21.96	13.67	18.45	27.09	19.78	17.72	26.02	18.43	25.4	37.29	11.23	24.39	35.81	10.46
		15	14.81	14.47	6.62	14.19	13.87	6.15	17.48	17.10	8.88	16.76	16.38	8.24	24.05	23.51	5.03	23.04	22.53	4.67
	60	5	10.59	25.35	26.59	9.99	29.10	24	12.56	36.59	35.91	11.85	34.52	32.41	17.29	50.38	20.4	16.31	47.52	18.41
		10	9.78	14.24	6.89	9.18	13.37	6.17	11.55	16.82	9.24	10.84	15.78	8.26	15.87	23.10	5.23	14.89	21.67	4.67
		15	8.86	8.60	2.86	8.25	8.00	2.52	10.42	10.10	3.81	9.7	9.40	3.35	14.26	13.82	2.14	13.25	12.85	1.88
	40	5	4.82	13.95	7.19	4.23	12.25	5.72	5.69	16.47	9.64	5	14.44	7.65	7.81	22.58	5.44	6.84	19.78	4.31
		10	3.69	5.33	1.34	3.02	4.36	0.94	4.34	6.27	1.78	3.56	5.15	1.26	5.8	8.38	0.96	4.67	6.75	0.66
		15	1.86	1.79	0.2	1.38	13.27	0.12	2.02	1.95	0.23	1.49	1.43	0.13	2.58	2.48	0.11	1.9	1.83	0.07
Low	80	5	14.47	42.53	43.36	13.92	40.91	40.5	16.55	48.64	54.92	15.92	46.79	51.3	22.42	65.88	30.31	21.56	63.37	28.31
		10	13.86	20.34	11.95	13.31	19.54	11.13	15.81	23.22	15.08	15.19	22.30	14.04	21.42	31.43	8.31	20.57	30.18	7.74
		15	13.2	12.91	5.41	12.65	12.37	5.03	15.03	14.69	6.8	14.4	14.08	6.31	20.34	19.89	3.75	19.49	19.05	3.48
	60	5	9.41	27.42	21.61	8.88	25.87	19.5	10.75	31.32	27.31	10.14	29.54	24.64	14.56	42.40	15.06	13.73	39.99	13.59
		10	8.73	12.70	5.64	8.19	11.92	5.04	9.93	14.45	7.07	9.32	13.57	6.33	13.43	19.54	3.89	12.6	18.33	3.48
		15	7.93	7.68	2.35	7.38	7.16	2.07	8.99	8.72	2.94	8.37	8.11	2.59	12.11	11.74	1.6	11.26	10.91	1.41
	40	5	4.3	12.44	5.88	3.78	10.93	4.68	4.89	14.16	7.38	4.3	12.43	5.87	6.6	19.10	4.05	5.79	16.75	3.21
		10	3.29	4.76	1.1	2.68	3.87	0.76	3.74	5.41	1.37	3.06	4.42	0.96	4.9	7.08	0.71	3.89	5.63	0.48
		15	1.75	1.68	0.18	1.31	1.26	0.11	1.87	1.80	0.2	1.39	1.34	0.12	2.39	2.30	0.1	1.77	1.71	0.06

At Sea Level
 # External Static Pressure 75 Pa
 # Interpolation is Allowed
 # Extrapolation is Not Allowed Please Contact Engineering Office
 # DB: dry bulb temp.-RH: relative humidity

New Series Ducted Fan Coil 2 Pipe ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature - °C	Entering/Leaving Water Temperature Difference - °C	*12 (1200 CFM)						*14 (1400 CFM)						*16 (1600 CFM)					
			Entering Air Temperature °C						Entering Air Temperature °C						Entering Air Temperature °C					
			DB20°C			DB22°C			DB20°C			DB22°C			DB20°C			DB22°C		
			RH 50			RH 50			RH 50			RH 50			RH 50			RH 50		
			Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop
			kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa
High	80	5	35.4	104.07	67.78	34.07	100.14	63.34	38.48	113.10	86.32	37.03	108.84	80.67	44.29	130.18	132.5	42.62	125.28	123.83
		10	33.54	49.23	18.32	32.21	47.28	17.06	36.57	53.68	23.46	35.12	51.56	21.85	42.32	62.14	36.38	40.66	59.70	33.9
		15	31.59	30.88	8.13	30.26	29.58	7.54	34.57	33.80	10.49	33.13	32.39	9.73	40.23	39.34	16.41	38.57	37.71	15.24
	60	5	22.88	66.66	33.39	21.58	62.87	30.13	24.92	72.63	42.72	23.51	68.52	38.56	28.78	83.87	65.95	27.16	79.15	59.56
		10	20.84	30.33	8.44	19.54	28.44	7.54	22.84	33.25	10.91	21.42	31.18	9.74	26.63	38.77	17.13	25.01	36.41	15.34
		15	18.6	18.03	3.41	17.28	16.75	3	20.53	19.90	4.47	19.1	18.52	3.94	24.24	23.50	7.18	22.59	21.90	6.34
	40	5	10.25	29.64	8.77	8.97	25.95	6.94	11.25	32.54	11.37	9.87	28.54	9.03	13.17	38.08	17.97	11.58	33.47	14.32
		10	7.59	10.96	1.54	6.16	8.90	1.07	8.56	12.37	2.1	7.04	10.17	1.48	10.4	15.03	3.54	8.69	12.55	2.58
		15	2.9	2.79	0.14	2.11	2.04	0.08	3.22	3.10	0.19	2.35	2.27	0.11	6	5.77	0.66	2.85	2.74	0.18
Medium	80	5	30	88.22	50.68	28.87	84.87	47.34	32.65	95.95	64.62	31.42	92.31	60.37	41.64	122.36	118.81	40.07	117.73	111.01
		10	28.51	41.87	13.77	27.38	40.19	12.81	31.12	45.69	17.67	29.89	43.89	16.46	39.82	58.47	32.68	38.26	56.17	30.45
		15	26.93	26.33	6.15	25.8	25.23	5.7	29.5	28.84	7.93	28.27	27.64	7.36	37.9	37.05	14.77	36.34	35.53	13.72
	60	5	19.42	56.59	25.04	18.32	53.38	22.59	21.18	61.71	32.07	19.98	58.22	28.94	27.07	78.88	59.21	25.55	74.44	53.46
		10	17.77	25.88	6.38	16.67	24.26	5.69	19.49	28.38	8.26	18.29	26.63	7.38	25.09	36.52	15.42	23.56	34.30	13.81
		15	15.92	15.44	2.6	14.8	14.35	2.28	17.6	17.06	3.41	16.38	15.88	3	22.87	22.17	6.48	21.32	20.66	5.72
	40	5	8.74	25.28	6.63	7.66	22.14	5.25	9.61	27.79	8.62	8.43	24.38	6.84	12.4	35.87	16.18	10.91	31.56	12.91
		10	6.49	9.38	1.17	5.25	7.59	0.81	7.34	10.61	1.6	6.03	8.71	1.13	9.83	14.20	3.2	8.21	11.86	2.33
		15	2.71	2.61	0.12	1.99	1.92	0.07	3.01	2.90	0.16	2.21	2.13	0.1	5.55	5.34	0.58	2.79	2.68	0.17
Low	80	5	27.22	79.98	42.65	26.18	76.95	39.84	29.5	86.70	54.07	28.38	83.41	50.51	36.7	107.86	95.15	35.31	103.78	88.9
		10	25.91	38.04	11.63	24.88	36.53	10.83	28.17	41.35	14.82	27.05	39.72	13.81	35.17	51.65	26.27	33.79	49.61	24.48
		15	24.52	23.97	5.21	23.49	22.97	4.83	26.75	26.15	6.68	25.64	25.06	6.2	33.55	32.79	11.92	32.16	31.44	11.07
	60	5	17.63	51.38	21.12	16.63	48.46	19.05	19.15	55.79	26.85	18.07	52.62	24.23	23.89	69.60	47.49	22.54	65.68	42.89
		10	16.18	23.55	5.41	15.18	22.10	4.83	17.68	25.73	6.95	16.59	24.15	6.22	22.21	32.32	12.44	20.86	30.36	11.14
		15	14.53	14.09	2.21	13.51	13.09	1.94	16	15.51	2.88	14.89	14.43	2.54	20.31	19.69	5.25	18.94	18.36	4.65
	40	5	7.96	23.02	5.62	6.97	20.17	4.45	8.71	25.20	7.25	7.65	22.12	5.76	10.98	31.76	13.06	9.66	27.95	10.43
		10	5.92	8.55	0.99	4.77	6.89	0.68	6.67	9.64	1.35	5.47	7.90	0.95	8.74	12.63	2.61	7.31	10.56	1.9
		15	2.6	2.50	0.12	1.92	1.85	0.07	2.88	2.78	0.15	2.13	2.05	0.09	3.59	3.46	0.27	2.65	2.55	0.16

At Sea Level
External Static Pressure 75 Pa
Interpolation is Allowed
Extrapolation is Not Allowed Please Contact Engineering Office
DB: dry bulb temp.-RH: relative humidity

New Series Ducted Fan Coil 2 Pipe

ADFN-*/M

فن کویل کانالی دو لوله سری جدید

Speed Mode	Entering Water Temperature °C	Entering/Leaving Water Temperature Difference °C	*18 (1800 CFM)						*20 (2000 CFM)						*24 (2400 CFM)					
			Entering Air Temperature°C						Entering Air Temperature°C						Entering Air Temperature°C					
			DB20°C			DB22°C			DB20°C			DB22°C			DB20°C			DB22°C		
			RH 50			RH 50			RH 50			RH 50			RH 50			RH 50		
			Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Pressure Drop
			kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa	kW	l/min	kPa
High	80	5	46.89	137.82	146.48	45.13	132.63	136.92	50.32	147.90	183.02	48.43	142.34	171.08	58.1	170.77	235.72	55.92	164.37	220.38
		10	44.76	65.70	40.12	43	63.12	37.39	48.16	70.71	50.39	46.27	67.94	46.97	55.47	81.42	64.58	53.3	78.23	60.2
		15	42.51	41.57	18.09	40.76	39.85	16.8	45.87	44.84	22.81	43.98	43.00	21.19	52.71	51.54	29.14	50.54	49.42	27.07
	60	5	30.46	88.75	72.86	28.74	83.75	65.79	32.74	95.39	91.28	30.9	90.03	82.45	37.75	110.02	117.33	35.63	103.84	105.98
		10	28.14	40.96	18.88	26.42	38.46	16.9	30.38	44.23	23.84	28.54	41.55	21.36	34.91	50.82	30.45	32.79	47.74	27.27
		15	25.57	24.80	7.89	23.83	23.10	6.96	27.77	26.92	10.06	25.9	25.12	8.9	31.79	30.82	12.76	29.64	28.74	11.28
	40	5	13.91	40.23	19.8	12.23	35.35	15.77	15.04	43.50	25.06	13.24	38.29	20.03	17.28	49.98	32	15.2	43.94	25.52
		10	10.96	15.84	3.88	9.16	13.23	2.83	12.05	17.41	5.06	10.12	14.63	3.72	13.76	19.88	6.4	11.54	16.68	4.7
		15	6.41	6.17	0.75	2.91	2.80	0.19	7.61	7.33	1.12	3.22	3.10	0.24	8.74	8.42	1.42	5.03	4.84	0.54
Medium	80	5	43.77	128.71	129.87	42.12	123.85	121.36	47.01	138.15	162.32	45.24	132.93	151.68	54.15	159.14	208.21	52.11	153.17	194.64
		10	41.83	61.42	35.64	40.19	59.01	33.21	45.04	66.12	44.78	43.27	63.53	41.74	51.75	75.96	57.16	49.73	72.99	53.28
		15	39.77	38.89	16.09	38.13	37.28	14.94	42.94	41.98	20.31	41.18	40.26	18.87	49.23	48.14	25.84	47.21	46.16	24
	60	5	28.45	82.89	64.6	26.84	78.22	58.34	30.6	89.17	81.05	28.88	84.16	73.21	35.2	102.58	103.74	33.22	96.82	93.7
		10	26.33	38.32	16.79	24.72	35.99	15.03	28.45	41.41	21.23	26.73	38.90	19.02	32.61	47.47	27.01	30.63	44.59	24.19
		15	23.97	23.24	7.04	22.34	21.66	6.21	26.04	25.25	8.98	24.3	23.56	7.95	29.75	28.85	11.36	27.74	26.89	10.04
	40	5	13.02	37.64	17.61	11.44	33.09	14.04	14.08	40.73	22.33	12.4	35.86	17.85	16.14	46.69	28.39	14.2	41.06	22.65
		10	10.29	14.86	3.47	8.59	12.42	2.53	11.32	16.35	4.53	9.51	13.74	3.34	12.89	18.63	5.7	10.82	15.64	4.19
		15	5.91	5.69	0.65	2.84	2.73	0.18	7.11	6.84	0.99	3.14	3.02	0.23	8.17	7.87	1.27	3.3	3.18	0.26
Low	80	5	37.38	109.85	98.26	35.96	105.69	91.82	39.98	117.49	122.05	38.47	113.05	114.05	46.42	136.37	158.66	44.67	131.22	148.25
		10	35.81	52.57	27.1	34.41	50.50	25.25	38.4	56.36	33.8	36.89	54.15	31.51	44.47	65.29	43.79	42.73	62.74	40.82
		15	34.14	33.38	12.29	32.74	32.00	11.42	36.71	35.90	15.42	35.21	34.42	14.32	42.42	41.47	19.87	40.67	39.76	18.46
	60	5	24.33	70.87	49.04	22.96	66.88	44.28	26.06	75.92	61.08	24.6	71.65	55.16	30.22	88.04	79.26	28.52	83.09	71.59
		10	22.6	32.90	12.84	21.23	30.90	11.5	24.32	35.40	16.11	22.86	33.27	14.44	28.1	40.90	20.77	26.4	38.43	18.61
		15	20.66	20.03	5.42	19.27	18.68	4.79	22.35	21.67	6.86	20.86	20.23	6.08	25.73	24.95	8.79	24.01	23.28	7.79
	40	5	11.18	32.32	13.47	9.84	28.45	10.76	12.04	34.83	16.95	10.61	30.69	13.56	13.91	40.23	21.85	12.25	35.43	17.46
		10	8.89	12.85	2.69	7.43	10.73	1.96	9.75	14.08	3.48	8.19	11.84	2.57	11.19	16.16	4.44	9.4	13.58	3.27
		15	3.62	3.48	0.27	2.67	2.57	0.16	5.99	5.76	0.73	2.94	2.83	0.21	7.02	6.76	0.97	3.12	3.00	0.23

At Sea Level
 # External Static Pressure 75 Pa
 # Interpolation is Allowed
 # Extrapolation is Not Allowed Please Contact Engineering Office
 # DB: dry bulb temp.-RH: relative humidity

New Series Ducted Fan Coil 4 Pipe ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*06 (600 CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa		
High	5	4	4.77	6.33	22.60	20.21	5.09	7.05	25.19	24.45	5.4	7.8	27.86	29.29	5.7	8.56	30.57	34.45	6	9.34	33.35	40.12
		5	4.33	5.62	16.06	11.04	4.68	6.36	18.18	13.72	5.01	7.12	20.35	16.77	5.33	7.89	22.55	20.07	5.54	8.68	24.80	23.71
		6	3.82	4.81	11.45	6.06	4.21	5.59	13.32	7.92	4.57	6.38	15.20	10	4.92	7.17	17.08	12.25	5.25	7.97	18.98	14.75
		7	3.46	4.23	8.65	1.68	3.64	4.69	9.58	4.42	4.06	5.54	11.31	5.91	4.45	6.37	13.01	7.57	4.81	7.2	14.70	9.37
	7	4	4.04	4.94	17.66	12.9	4.39	5.68	20.30	16.53	4.71	6.43	22.97	20.52	5.03	7.19	25.70	24.98	5.34	7.97	28.50	29.94
		5	3.61	4.26	12.20	6.7	3.91	4.92	14.06	8.61	4.27	5.69	16.29	11.16	4.62	6.47	18.52	13.98	4.95	7.28	20.81	17.21
		6	3.42	3.93	9.38	4.21	3.51	4.29	10.22	4.9	3.75	4.86	11.58	6.1	4.15	5.68	13.55	8.04	4.52	6.51	15.52	10.24
		7	3.19	3.55	7.26	2.67	3.31	3.93	8.03	3.19	3.41	4.29	8.77	3.72	3.58	4.76	9.74	4.48	4.01	5.65	11.54	6.04
	9	4	3.59	3.91	14.00	8.45	3.64	4.25	15.20	9.79	3.97	4.95	17.73	12.82	4.32	5.73	20.51	16.61	4.55	6.52	0.35	20.8
		5	3.43	3.61	10.33	4.94	3.49	3.95	11.32	5.8	3.55	4.29	12.28	6.68	3.83	4.94	14.15	8.59	4.2	5.76	16.49	11.26
		6	3.21	3.25	7.77	2.97	3.3	3.62	8.64	3.59	3.38	3.97	9.49	4.23	3.45	4.32	10.33	4.91	3.67	4.89	11.68	6.11
		7	2.82	2.82	5.77	1.75	3.05	3.23	6.61	2.23	3.16	3.62	7.40	2.72	3.26	3.98	8.15	3.23	3.34	4.34	8.88	3.75
Medium	5	4	3.95	5.34	19.06	14.97	4.22	5.95	21.25	18.18	4.48	6.57	23.47	21.63	4.74	7.21	25.75	25.43	4.99	7.86	28.08	29.61
		5	3.6	4.75	13.57	8.21	3.89	5.38	15.39	10.25	4.17	6.02	17.20	12.46	4.44	6.67	19.06	14.91	4.7	7.33	20.95	17.6
		6	3.17	4.05	9.65	4.48	3.5	4.73	11.27	5.89	3.81	5.4	12.87	7.45	4.1	6.07	14.46	9.13	4.39	6.76	16.09	11.05
		7	2.79	3.45	7.04	2.56	3	3.92	8.01	3.22	3.38	4.68	9.55	4.39	3.72	5.4	11.02	5.65	4.03	6.11	12.48	7.04
	7	4	3.35	4.18	14.95	9.61	3.64	4.8	17.17	12.29	3.92	5.43	19.42	15.25	4.19	6.08	21.74	18.65	4.45	6.74	24.08	22.31
		5	2.92	3.5	10.02	4.73	3.25	4.16	11.91	6.43	3.56	4.83	13.81	8.34	3.85	5.49	15.72	10.5	4.13	6.16	17.63	12.83
		6	2.77	3.22	7.68	2.96	2.84	3.51	8.38	3.44	3.13	4.11	9.81	4.55	3.46	4.82	11.50	6.02	3.78	5.53	13.18	7.67
		7	2.55	2.87	5.86	1.83	2.67	3.2	6.54	2.22	2.76	3.51	7.17	2.62	2.97	4.01	8.20	3.3	3.35	4.79	9.79	4.52
	9	4	2.9	3.22	11.51	5.98	2.99	3.56	12.72	7.16	3.3	4.2	15.04	9.59	3.59	4.86	17.40	12.41	3.87	5.53	19.76	15.53
		5	2.77	2.96	8.48	3.49	2.83	3.25	9.30	4.11	2.87	3.53	10.10	4.73	3.2	4.2	12.02	6.44	3.51	4.9	14.01	8.45
		6	2.59	2.65	6.33	2.07	2.67	2.96	7.07	2.52	2.75	3.26	7.78	2.98	2.8	3.55	8.47	3.46	3.07	4.16	9.92	4.59
		7	2.2	2.2	4.49	1.13	2.44	2.6	5.32	1.52	2.55	2.94	6.02	1.89	2.64	3.25	6.66	2.26	2.71	3.58	7.28	2.64
Low	5	4	3.55	4.84	17.27	12.58	3.8	5.39	19.25	15.26	4.03	5.95	21.26	18.15	4.26	6.53	23.31	21.33	4.48	7.12	25.41	24.83
		5	3.24	4.31	12.31	6.9	3.5	4.88	13.95	8.63	3.75	5.46	15.60	10.49	4	6.05	17.28	12.54	4.23	6.65	19.01	14.87
		6	2.84	3.66	8.72	3.75	3.15	4.29	10.21	4.95	3.43	4.9	11.68	6.28	3.7	5.51	13.13	7.7	3.95	6.13	14.61	9.32
		7	2.46	3.05	6.23	2.07	2.68	3.52	7.19	2.66	3.04	4.23	8.64	3.68	3.35	4.89	10.00	4.7	3.63	5.55	11.33	5.97
	7	4	3.01	3.8	13.57	8.14	3.27	4.36	15.58	10.35	3.52	4.93	17.62	12.84	3.77	5.51	19.71	15.68	4	6.11	21.82	18.75
		5	3.17	3.17	9.06	3.97	2.92	3.78	10.81	5.42	3.21	4.38	12.54	7.03	3.47	4.99	14.27	8.85	3.72	5.6	16.01	10.82
		6	2.45	2.87	6.84	2.41	2.52	3.13	7.47	2.82	2.81	3.73	8.89	3.82	3.12	4.38	10.44	5.08	3.4	5.02	11.98	6.48
		7	2.24	2.51	5.13	1.45	2.35	2.83	5.78	1.78	3.11	3.11	6.37	2.12	2.66	3.62	7.39	2.76	3.02	4.34	8.88	3.81
	9	4	2.57	2.88	10.29	4.91	2.69	3.23	11.56	6.04	2.97	3.82	13.67	8.1	3.23	4.42	15.80	10.47	3.48	5.02	17.95	13.1
		5	2.46	2.64	7.57	2.86	2.51	2.9	8.31	3.37	2.57	3.18	9.09	3.94	2.88	3.82	10.93	5.44	3.16	4.45	12.75	7.15
		6	2.28	2.35	5.60	1.67	2.36	2.64	6.29	2.06	2.43	2.91	6.94	2.44	2.48	3.17	7.56	2.83	2.77	3.78	9.02	3.87
		7	1.86	1.86	3.80	0.84	2.12	2.26	4.63	1.19	2.24	2.59	5.31	1.52	2.33	2.89	5.91	1.83	2.4	3.17	6.47	2.15

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 4 Pipe ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode		Entering Water Temperature -°C		Entering/Leaving Water Temperature Difference -°C		*08 (800 CFM)																			
						Entering Air Temperature																			
						DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
						RH 50				RH 50				RH 50				RH 50				RH 50			
						Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
		kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa				
High	5	4	5.02	6.62	23.65	21.9	5.35	7.38	26.36	26.49	5.67	8.16	29.14	22.44	6	8.96	32.00	37.35	6.31	9.78	34.92	43.51			
		5	4.55	5.88	16.79	11.95	4.91	6.65	19.01	14.84	5.25	7.45	21.28	18.16	5.6	8.25	23.58	21.73	5.92	9.08	25.94	26.67			
		6	4.01	5.03	11.97	6.56	4.42	5.85	13.93	8.56	4.8	6.67	15.89	10.81	5.16	7.49	17.85	13.25	5.51	8.33	19.84	15.95			
		7	3.7	4.47	9.13	4.05	3.82	4.91	10.03	4.79	4.27	5.79	11.83	6.4	4.67	6.66	13.60	8.18	5.05	7.52	15.36	10.13			
	7	4	4.24	5.16	18.46	13.96	4.61	5.94	21.23	17.89	4.96	6.72	24.02	22.2	5.29	7.52	26.88	27.04	5.61	8.34	29.81	32.41			
		5	3.83	4.5	12.86	7.35	4.1	5.14	14.69	9.3	4.49	5.95	17.02	12.07	4.85	6.77	19.35	15.11	5.2	7.6	21.75	18.6			
		6	3.63	4.15	9.90	4.63	3.72	4.52	10.78	5.38	3.94	5.08	12.10	6.59	4.35	5.94	14.15	8.69	4.47	6.8	16.21	11.05			
		7	3.38	3.76	7.68	2.95	3.5	4.15	8.48	3.51	3.61	4.53	9.26	4.09	3.76	4.98	10.18	4.85	4.2	5.9	12.05	6.52			
	9	4	3.81	4.13	14.76	9.27	3.86	4.48	16.03	10.73	4.17	5.18	18.52	13.85	4.53	5.99	21.44	17.96	4.88	6.81	24.39	22.49			
		5	3.63	3.8	10.89	5.43	3.7	4.17	11.93	6.37	3.76	4.52	12.95	7.34	4.02	5.16	14.77	9.26	4.41	6.01	17.22	12.15			
		6	3.23	3.44	8.20	3.27	3.49	3.82	9.12	3.95	3.58	4.19	10.01	4.65	3.65	4.56	10.88	5.39	3.85	5.11	12.19	6.59			
		7	2.99	2.99	6.12	1.95	3.23	3.42	6.99	2.46	3.35	3.82	7.82	3	3.45	4.2	8.60	3.55	3.54	4.58	9.37	4.12			
Medium	5	4	4.64	6.17	22.05	19.36	4.95	6.88	24.57	23.41	5.26	7.61	27.18	28.03	5.55	8.35	29.82	32.97	5.84	9.11	32.54	38.4			
		5	4.21	5.48	15.67	10.58	4.55	6.21	17.74	13.15	4.88	6.95	19.87	16.07	5.19	7.7	22.01	19.23	5.49	8.47	24.20	22.71			
		6	3.7	4.69	11.17	5.81	4.1	5.46	13.01	7.59	4.45	6.23	14.84	9.59	4.79	7	16.67	11.75	5.11	7.78	18.54	14.14			
		7	3.53	4.11	8.40	3.5	3.54	4.57	9.34	4.23	3.96	5.41	11.04	5.67	4.34	6.22	12.71	7.26	4.69	7.03	14.36	8.99			
	7	4	3.93	4.82	17.24	12.36	4.27	5.54	19.82	15.84	4.59	6.27	22.42	19.66	4.9	7.02	25.09	23.93	5.2	7.79	27.83	28.82			
		5	3.5	4.14	11.86	6.37	3.8	4.8	13.73	8.26	4.16	5.56	15.90	10.7	4.5	6.32	18.08	13.4	4.82	7.1	20.32	16.49			
		6	3.32	3.82	9.11	4	3.41	4.17	9.93	4.66	3.66	4.74	11.31	5.85	4.04	5.55	13.24	7.72	4.4	6.36	15.16	9.82			
		7	3.45	3.45	7.05	2.54	3.21	3.81	7.80	3.03	3.31	4.17	8.52	3.54	3.49	4.65	9.50	4.3	3.9	5.51	11.27	5.8			
	9	4	3.48	3.8	13.61	8.03	3.53	4.13	14.77	9.27	3.86	4.84	17.31	12.29	4.2	5.6	20.03	15.93	4.53	6.37	22.78	19.94			
		5	3.33	3.51	10.04	4.7	3.38	3.84	11.00	5.52	3.44	4.17	11.94	6.36	3.73	4.83	13.82	8.24	4.09	5.63	16.11	10.81			
		6	3.11	3.16	7.54	2.82	3.2	3.52	8.40	3.41	3.28	3.86	9.22	4.02	3.35	4.2	10.03	4.67	3.58	4.78	11.41	5.87			
		7	2.73	2.73	5.58	1.66	3.13	3.13	6.41	2.11	3.07	3.51	7.18	2.59	3.16	3.87	7.92	3.06	3.24	4.22	8.63	3.57			
Low	5	4	4.05	5.45	19.46	15.52	4.32	6.08	21.70	18.86	4.59	6.71	23.97	22.44	4.84	7.36	26.29	26.39	5.1	8.03	28.67	30.72			
		5	3.68	4.85	13.85	8.51	3.98	5.49	15.70	10.63	4.26	6.14	17.56	12.92	4.54	6.81	19.45	15.46	4.8	7.48	21.39	18.25			
		6	3.24	4.14	9.85	4.65	3.58	4.83	11.50	6.11	3.9	5.51	13.13	7.72	4.19	6.2	14.76	9.47	4.48	6.89	16.42	11.46			
		7	2.86	3.53	7.22	2.67	3.07	4.01	8.19	3.35	3.46	4.77	9.75	4.55	3.8	5.51	11.25	5.86	4.12	6.24	12.74	7.3			
	7	4	3.43	4.27	15.25	9.96	3.72	4.9	17.53	12.74	4.01	5.54	19.82	15.81	4.28	6.2	22.17	19.24	4.55	6.88	24.58	23.13			
		5	2.99	3.59	10.26	4.94	3.32	4.25	12.16	6.66	3.64	4.92	14.09	8.64	3.94	5.61	16.04	10.88	4.22	6.29	17.99	13.3			
		6	2.84	3.3	7.87	3.09	2.92	3.6	8.58	3.59	3.2	4.2	10.01	4.72	3.54	4.92	11.73	6.24	3.86	5.64	13.45	7.94			
		7	2.62	2.94	6.02	1.92	2.74	3.28	6.70	2.23	2.83	3.6	7.35	2.73	3.04	4.1	8.39	3.45	3.42	4.89	9.99	4.68			
	9	4	2.98	3.29	11.79	6.24	3.06	3.63	12.98	7.42	3.37	4.29	15.34	9.93	3.7	4.96	17.75	12.85	3.96	5.64	20.17	16.09			
		5	2.85	3.03	8.69	3.64	2.9	3.33	9.52	4.28	2.95	3.61	10.34	4.93	3.27	4.28	12.26	6.67	3.59	4.99	14.30	8.75			
		6	2.65	2.72	6.49	2.17	2.74	3.04	7.25	2.63	2.81	3.34	7.97	3.11	2.87	3.63	8.67	3.61	3.14	4.24	10.13	4.75			
		7	2.28	2.28	4.66	1.21	2.5	2.67	5.47	1.6	2.62	3.02	6.17	1.98	2.71	3.34	6.83	2.36	2.78	3.64	7.46	2.76			

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 4 Pipe ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature - °C	Entering/Leaving Water Temperature Difference - °C	*10 (1000 CFM)															
			Entering Air Temperature															
			DB24°C				DB25°C				DB26°C				DB27°C			
			RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	6.87	9.09	32.46	12.38	7.34	10.16	36.29	15.05	7.81	11.26	40.21	18.02	8.26	12.39	44.25	21.39
		5	6.16	7.94	22.69	6.56	6.69	9.06	25.89	8.28	7.18	10.18	29.09	10.16	7.67	11.33	32.38	12.29
		6	5.28	6.58	15.68	3.41	5.91	7.79	18.56	4.59	6.47	8.98	21.40	5.9	7.01	10.18	24.24	7.35
		7	4.89	5.91	12.08	2.14	5.08	6.47	13.22	2.52	5.61	7.57	15.46	3.32	6.23	8.86	18.09	4.37
	7	4	5.77	7.03	25.13	7.78	6.29	8.12	29.03	10.01	6.79	9.24	33.02	12.58	7.27	10.37	37.06	15.4
		5	5.2	6.11	17.48	4.08	5.52	6.9	19.74	5.07	6.08	8.06	23.05	6.64	6.61	9.23	26.40	8.45
		6	4.88	5.56	13.25	2.5	5.03	6.09	14.52	2.93	5.21	6.68	15.93	3.46	5.83	7.94	18.93	4.68
		7	4.44	4.87	9.95	1.5	4.66	5.47	11.19	1.85	4.84	6.04	12.35	2.2	5	6.58	13.46	2.56
	9	4	5.21	5.64	20.18	5.2	5.25	6.14	21.96	6.04	5.67	7.05	25.24	7.73	6.2	8.2	29.35	10.07
		5	4.93	5.14	14.71	2.97	5.03	5.65	16.19	3.52	5.12	6.16	17.64	4.09	5.41	6.94	19.88	5.06
		6	4.54	4.54	10.83	1.73	4.7	5.1	12.17	2.12	4.84	5.64	13.47	2.54	4.96	6.17	14.72	2.97
		7	3.02	3.02	6.17	0.64	4.21	4.39	8.98	1.24	4.44	5.01	10.26	1.57	4.62	5.59	11.45	1.9
Medium	5	4	6.42	8.54	30.52	11.1	6.86	9.55	34.11	13.49	7.3	10.58	37.79	16.15	7.72	11.64	41.58	19.16
		5	5.76	7.48	21.37	5.91	6.25	8.52	24.35	7.43	6.73	9.59	32.66	9.17	7.18	10.66	30.46	11.03
		6	4.93	6.17	14.70	3.05	5.52	7.32	17.45	4.11	6.06	8.45	20.13	5.3	6.56	9.58	22.81	6.61
		7	4.51	5.47	11.17	1.87	4.69	6	12.26	2.21	5.24	7.1	14.50	2.97	5.83	8.33	17.01	3.29
	7	4	5.4	6.61	23.65	6.98	5.88	7.64	27.32	8.99	6.35	8.69	31.07	11.3	6.8	9.75	34.86	9.75
		5	4.81	5.69	16.27	3.6	5.16	6.49	18.57	4.55	5.69	7.59	21.70	5.97	6.19	8.69	24.86	7.6
		6	4.51	5.16	12.30	2.19	4.65	5.66	13.49	2.58	4.87	6.27	14.96	3.1	5.46	7.47	17.81	4.21
		7	4.07	4.47	9.14	1.29	4.3	5.06	10.34	1.61	4.47	5.59	11.43	1.91	4.62	6.11	12.48	2.24
	9	4	4.82	5.25	18.79	4.59	4.89	5.71	20.44	5.33	5.3	6.64	23.77	6.95	5.8	7.73	27.63	9.06
		5	4.56	4.78	13.68	2.61	4.65	5.26	15.06	3.1	4.74	5.73	16.47	3.6	5.07	6.54	18.72	4.56
		6	4.19	4.18	10.00	1.5	4.34	4.73	11.29	1.86	4.47	5.24	12.51	2.23	4.58	5.73	13.67	2.6
		7	2.89	2.89	5.92	0.6	3.84	4.01	8.20	1.05	4.09	4.63	9.47	1.36	4.27	5.18	10.60	1.66
Low	5	4	5.46	7.37	26.33	8.55	5.85	8.24	29.43	10.4	6.22	9.13	32.67	12.49	6.59	10.04	35.84	14.73
		5	4.91	6.45	18.44	4.56	5.33	7.36	21.04	5.74	5.76	8.28	23.68	7.08	6.13	9.21	26.32	8.52
		6	4.15	5.25	12.50	2.29	4.69	6.3	15.01	3.16	5.17	7.3	17.38	4.09	5.61	8.28	19.73	5.11
		7	3.7	4.49	9.18	1.32	3.88	4.99	10.19	1.59	4.42	6.05	12.35	2.23	4.97	7.17	14.64	3.01
	7	4	4.59	5.72	20.44	5.4	5.02	6.61	23.65	6.99	5.41	7.51	26.86	8.74	5.8	8.43	30.13	10.69
		5	4.01	4.79	13.71	2.67	4.4	5.6	16.03	3.51	4.86	6.57	18.80	4.65	5.29	7.53	21.53	5.89
		6	3.74	4.3	10.26	1.59	3.87	4.75	11.32	1.89	4.13	5.38	12.84	2.37	4.66	6.46	15.39	3.25
		7	2.97	3.17	6.48	0.7	3.51	4.14	8.47	1.13	3.7	4.65	9.50	1.29	3.84	5.1	10.43	1.63
	9	4	4.01	4.43	15.86	3.41	4.07	4.82	17.25	3.94	4.53	5.76	20.60	5.4	4.95	6.7	23.97	7.07
		5	4.02	4.02	11.50	1.93	3.88	4.43	12.69	2.29	3.96	4.84	13.85	2.67	4.33	5.66	16.21	3.54
		6	3.44	3.44	8.20	1.06	3.59	3.94	9.40	1.35	3.72	4.39	10.47	1.63	3.82	4.82	11.49	1.92
		7	2.62	2.62	5.37	0.5	2.85	2.9	5.93	0.6	3.32	3.76	7.69	0.94	3.52	4.89	8.78	1.19

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 4 Pipe

ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*12 (1200 CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	8.13	10.58	37.77	16.19	8.69	11.83	42.23	19.68	9.23	13.11	46.81	23.56	9.76	14.47	51.49	27.85	10.28	15.78	56.34	32.74
		5	7.28	9.22	26.36	8.54	7.89	10.52	30.06	10.78	8.47	11.82	33.77	13.22	9.04	13.16	37.60	16.01	9.58	14.51	41.47	19
		6	6.37	7.84	18.66	4.64	6.97	9.06	21.57	5.98	7.63	10.42	24.82	7.66	8.24	11.8	28.09	9.55	8.82	13.17	31.38	11.58
		7	5.96	7.15	14.60	3	6.17	7.79	15.92	3.5	6.63	8.82	18.02	4.34	7.33	10.27	20.98	5.68	8	11.74	23.97	7.19
	7	4	6.83	8.16	29.16	10.11	7.44	9.42	33.69	13.02	8.03	10.72	38.33	16.39	8.58	12.04	43.03	20.06	9.12	13.39	49.52	24.15
		5	6.31	7.31	20.91	5.6	6.52	8	22.88	6.58	7.16	9.33	26.69	8.61	7.78	10.69	30.57	10.95	8.36	12.06	34.49	13.52
		6	5.94	6.68	15.93	3.46	6.11	7.31	17.41	4.05	6.26	7.92	18.87	4.66	6.86	9.19	21.91	6.06	7.52	10.62	25.31	7.82
		7	5.45	5.94	12.14	2.14	5.69	6.62	13.53	2.59	5.88	7.27	14.85	3.05	6.06	7.9	16.15	3.54	6.54	9.01	18.42	4.45
	9	4	6.33	6.74	24.11	7.12	6.42	7.33	26.23	8.27	6.69	8.16	29.20	10.01	7.31	9.5	33.97	13.04	7.9	10.86	38.86	16.56
		5	5.98	6.15	17.61	4.08	6.1	6.76	19.35	4.82	6.22	7.36	21.08	5.6	6.36	8.01	22.93	6.5	7.02	9.42	26.97	8.66
		6	5.48	5.48	13.08	2.41	5.71	6.13	14.62	2.93	5.87	6.76	16.14	3.5	6	7.38	17.61	4.07	6.13	7.99	19.05	4.68
		7	4.62	4.62	9.46	1.36	5.19	5.39	11.02	1.78	5.42	6.07	12.42	2.19	5.62	6.73	13.77	2.63	5.78	7.37	15.07	3.08
Medium	5	4	6.94	9.18	32.78	12.6	9.15	10.26	36.65	15.32	7.89	11.37	40.60	18.33	8.35	12.51	44.68	21.77	8.8	13.67	3.11	25.42
		5	6.23	8.02	22.91	6.67	6.76	9.15	26.14	8.42	7.26	10.28	29.37	10.33	7.75	11.44	32.69	12.5	8.22	12.62	36.06	14.84
		6	5.34	6.65	15.84	3.47	5.97	7.87	18.75	4.67	6.54	9.07	21.60	6	7.08	10.27	24.47	7.48	7.59	11.48	27.34	9.08
		7	4.95	5.99	12.26	2.19	5.14	6.55	13.38	2.57	5.67	7.65	15.62	3.38	6.3	8.94	18.26	4.45	6.87	10.22	20.87	5.63
	7	4	5.84	7.1	25.37	7.91	6.36	8.2	29.31	10.18	6.87	9.33	33.33	12.8	7.35	10.47	37.41	15.66	7.81	11.63	41.58	18.85
		5	5.26	6.18	17.68	4.17	5.58	6.97	19.92	5.15	6.15	8.13	23.26	6.75	6.68	9.32	26.65	8.59	7.18	10.51	30.06	10.61
		6	4.94	5.62	13.41	2.55	5.09	6.16	14.69	2.99	5.27	6.74	16.08	3.52	5.9	8.01	19.11	4.76	6.47	9.27	22.10	6.16
		7	4.5	4.94	10.09	1.55	4.72	5.54	11.32	1.89	4.91	6.11	12.50	2.25	5.06	6.66	13.61	2.61	5.61	7.83	16.00	3.48
	9	4	5.28	5.71	20.41	5.31	5.35	6.21	22.20	6.17	5.73	7.12	25.47	7.86	6.26	8.28	29.62	10.24	6.77	9.47	33.86	12.99
		5	4.99	5.2	14.88	3.03	5.09	5.72	16.37	3.59	5.19	6.23	17.84	4.17	5.47	7.01	20.06	5.15	6.04	8.23	23.57	6.82
		6	4.6	4.6	10.96	1.77	4.76	5.16	12.31	2.17	4.9	5.71	13.62	2.59	5.02	6.24	14.88	3.03	5.16	6.81	16.25	3.54
		7	3.67	3.67	7.51	0.91	4.26	4.45	9.10	1.27	4.5	5.08	10.39	1.6	4.68	5.66	11.58	1.94	4.83	6.21	12.71	2.29
Low	5	4	6.3	8.4	27.17	10.78	6.74	9.4	33.55	13.11	7.17	10.41	37.17	15.68	7.59	11.45	40.89	18.6	7.99	12.51	44.68	21.72
		5	5.66	7.35	21.02	5.75	6.14	8.38	23.95	7.22	6.61	9.43	26.95	8.9	7.05	10.49	29.97	10.71	7.48	11.56	33.04	12.72
		6	4.84	6.06	14.44	2.95	5.42	7.2	17.16	4	5.95	8.31	19.80	5.14	6.45	9.42	22.44	6.42	6.91	10.53	25.08	7.8
		7	4.41	5.35	10.93	1.8	4.59	5.88	12.00	2.12	5.14	6.98	14.25	2.88	5.73	8.19	16.73	3.81	6.26	9.37	19.14	4.83
	7	4	5.3	6.51	23.26	6.79	5.78	7.52	26.87	8.74	6.24	8.355	30.56	10.98	6.68	9.59	34.29	13.43	7.1	10.66	38.11	16.16
		5	4.71	5.58	15.95	3	5.07	6.39	18.26	4.42	5.59	7.47	21.38	5.84	6.08	8.55	24.46	7.39	6.54	9.66	27.62	9.17
		6	4.42	5.05	12.05	2.11	4.56	5.55	13.23	2.49	4.78	6.17	14.71	3.01	5.37	7.35	17.53	4.09	5.89	8.51	20.29	5.3
		7	3.97	4.36	8.92	1.24	4.2	4.95	10.11	1.55	4.38	5.48	11.20	1.85	4.52	5.99	12.23	2.16	5.1	7.71	14.65	2.98
	9	4	4.72	5.15	18.42	4.43	4.79	5.6	20.04	5.16	5.21	6.54	23.39	6.76	5.69	7.6	27.18	8.8	6.16	8.69	31.08	11.16
		5	4.46	4.68	13.41	2.53	4.56	5.16	14.77	2.99	4.65	5.62	16.10	3.48	4.98	6.44	18.42	4.43	5.5	7.57	21.66	5.88
		6	4.09	4.1	9.79	1.45	4.25	4.63	11.06	1.79	4.38	5.13	12.25	2.15	4.49	5.62	13.40	2.51	4.7	6.25	14.90	3.04
		7	2.86	2.86	5.86	0.58	3.75	3.91	7.99	1.01	4	4.53	9.26	1.31	4.18	5.07	10.37	1.6	4.32	5.59	11.43	1.9

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 4 Pipe

ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*14 (1400 CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa			
High	5	4	9.12	11.97	42.75	22.12	9.73	13.34	47.66	26.75	10.31	14.75	52.68	31.88	10.89	16.2	57.86	37.73	11.46	17.68	63.14	43.95
		5	8.28	10.62	30.36	12.06	8.93	12.02	34.36	14.98	9.56	13.46	38.46	18.32	10.16	14.91	42.62	21.91	10.75	16.4	46.87	25.88
		6	7.3	9.11	21.69	6.65	8.03	10.58	25.19	8.65	8.72	12.05	28.72	10.91	9.37	13.54	32.24	13.36	9.99	15.04	35.84	16.08
		7	6.73	8.18	16.71	4.18	6.97	8.92	18.22	4.87	7.76	10.48	21.41	6.47	8.49	12.04	24.59	8.26	9.16	13.59	27.75	10.21
	7	4	7.72	9.33	33.36	14.08	8.38	10.73	38.36	18.04	9.01	12.14	43.40	22.39	9.61	13.59	48.57	27.26	10.2	15.07	53.86	32.68
		5	7	8.21	23.47	7.54	7.46	9.28	26.56	9.39	8.15	10.75	30.74	12.16	8.81	12.22	34.95	15.22	9.44	13.73	39.28	18.74
		6	6.65	7.59	18.09	4.76	6.82	8.26	19.69	5.52	7.16	9.18	21.90	6.66	7.9	10.72	25.57	8.76	8.59	12.26	29.24	11.07
		7	6.22	6.89	14.09	3.05	6.43	7.59	15.53	3.62	6.62	8.28	16.93	4.2	6.84	9.02	18.45	4.91	7.64	10.67	21.81	6.59
	9	4	6.99	7.53	26.93	9.51	7.08	8.17	29.23	11	7.57	9.34	33.44	13.95	8.23	10.8	38.66	17.98	8.86	12.36	44.02	22.64
		5	6.67	6.95	19.89	5.57	6.78	7.6	21.78	6.54	6.89	8.25	23.63	7.53	7.29	9.31	26.67	9.33	8	10.85	31.07	12.23
		6	6.25	6.3	15.03	3.39	6.41	6.98	16.67	4.06	6.56	7.66	18.28	4.77	6.69	8.32	19.86	5.53	6.99	9.23	22.03	6.65
		7	5.53	5.53	11.32	2.05	5.95	6.28	12.86	2.57	6.16	7	14.32	3.09	6.33	7.69	15.73	3.65	6.49	8.37	17.13	4.24
Medium	5	4	7.79	10.39	37.12	17.23	8.31	11.58	41.36	20.83	8.83	12.8	45.72	24.92	9.32	14.05	50.16	29.31	9.81	15.32	54.72	34.13
		5	7.09	9.21	26.42	9.43	7.65	10.46	29.89	11.72	8.2	11.71	33.45	14.31	8.72	12.97	37.06	17.12	9.23	14.26	40.74	20.22
		6	6.26	7.92	18.87	5.2	6.9	9.21	21.95	6.8	7.49	10.51	25.02	8.55	8.06	11.8	28.10	10.48	8.6	13.12	31.26	12.67
		7	5.63	6.91	14.11	3.1	5.97	7.74	15.81	3.8	6.67	9.13	18.65	5.07	7.31	10.5	21.45	6.49	7.9	11.88	24.25	8.07
	7	4	6.6	8.12	29.04	11.02	7.17	9.34	33.38	14.11	7.71	10.56	37.75	11.5	8.23	11.81	42.23	21.3	8.74	13.1	46.84	25.64
		5	5.85	6.96	19.90	5.65	6.4	8.1	23.16	7.37	7	9.37	26.81	9.55	7.56	10.65	30.47	11.95	8.11	11.97	34.23	14.7
		6	5.56	6.42	15.31	3.55	5.71	7	16.69	4.13	6.16	8.01	19.11	5.24	6.8	9.37	22.33	6.9	7.4	10.72	25.57	8.77
		7	5.19	5.8	11.86	2.25	5.38	6.41	13.11	2.69	5.54	7.01	14.32	3.14	5.88	7.87	16.08	3.86	6.58	9.32	19.05	5.19
	9	4	5.83	6.38	22.83	7.11	5.9	6.92	24.77	8.21	6.49	8.15	29.18	10.96	7.06	9.43	33.75	14.19	7.6	10.72	38.37	17.76
		5	5.57	5.89	16.86	4.16	5.67	6.45	18.46	4.89	5.76	7	20.04	5.63	6.27	8.14	23.32	7.36	6.88	9.49	27.16	9.64
		6	5.22	5.31	12.68	2.5	5.36	5.91	14.11	3.03	5.49	6.49	15.48	3.57	5.61	7.06	16.84	4.14	6.03	8.08	19.28	5.25
		7	4.6	4.6	9.41	1.48	4.95	5.27	10.79	1.88	5.15	5.9	12.08	2.3	5.3	6.5	13.31	2.72	5.44	7.09	14.50	3.17
Low	5	4	7.05	9.48	33.87	14.65	7.53	10.57	37.76	17.8	7.99	11.68	41.70	21.17	8.44	12.81	45.73	24.89	8.88	13.97	49.88	28.97
		5	6.42	8.44	24.13	8.04	6.94	9.57	27.34	10.04	7.43	10.69	30.56	12.2	7.9	11.84	33.84	14.59	8.37	13.02	37.20	17.22
		6	5.66	7.23	17.22	4.42	6.25	8.42	20.06	5.78	6.8	9.6	22.88	7.3	7.31	10.79	25.70	8.95	7.81	12	28.59	10.82
		7	5.02	6.19	12.65	2.56	5.39	7.04	14.39	3.22	6.04	8.34	17.04	4.33	6.63	9.61	19.62	5.55	7.18	10.87	22.20	6.9
	7	4	5.97	7.43	26.55	9.4	6.49	8.53	30.50	12.03	6.98	9.65	34.49	14.92	7.45	10.79	38.56	18.15	7.92	11.96	42.76	21.82
		5	5.22	6.26	17.46	4.68	5.8	7.41	21.19	6.3	6.34	8.57	24.53	8.16	6.86	9.76	27.91	10.27	7.35	10.94	31.31	12.55
		6	4.96	5.77	13.76	2.94	5.09	6.29	14.99	3.4	5.58	7.33	17.47	4.47	6.17	8.58	20.45	5.9	6.72	9.82	23.42	7.5
		7	4.6	5.17	10.57	1.84	4.79	5.74	11.74	2.21	4.98	6.29	12.86	2.6	5.33	7.18	14.68	3.29	5.98	8.53	17.44	4.44
	9	4	5.2	5.74	20.55	5.9	5.33	6.32	22.61	7	5.88	7.46	26.70	9.37	6.4	8.63	30.43	12.13	6.89	9.81	35.09	15.17
		5	4.97	5.3	15.16	3.45	5.06	5.8	16.61	4.06	5.14	6.3	18.04	4.7	5.69	7.46	21.36	6.3	6.25	8.69	24.89	8.26
		6	4.65	4.76	11.36	2.06	4.79	5.31	12.67	2.5	4.9	5.83	13.92	2.96	5.01	6.34	15.14	3.42	5.48	7.4	17.67	4.5
		7	4.04	4.04	8.27	1.18	4.4	4.7	9.62	1.54	4.58	5.29	10.82	1.89	4.73	5.84	11.94	2.25	4.86	6.37	13.03	2.63

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. - RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 4 Pipe

ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*1600 (CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	11	14.67	52.38	37.82	11.7	16.28	58.15	45.6	14.14	21.07	75.24	98.35	14.87	22.95	81.96	114.22	15.59	24.89	88.88	131.6
		5	10.17	13.31	38.04	21.54	10.9	14.94	42.69	26.34	13.49	19.91	56.90	59.8	14.25	21.81	62.34	70.17	14.99	23.77	67.92	81.56
		6	9.22	11.79	28.10	12.55	10.02	13.48	32.11	15.9	12.79	18.65	44.44	38.54	13.58	20.6	49.07	46.01	14.35	22.57	53.77	53.97
		7	8.17	10.1	20.64	7.28	9.02	11.85	24.21	9.62	12.01	17.29	35.31	25.69	12.84	19.26	39.33	31.01	13.64	21.27	43.43	36.89
	7	4	9.4	11.61	41.51	24.83	10.15	13.23	47.30	31.19	12.51	17.74	63.41	71.54	13.27	19.63	70.18	85.74	14.02	21.59	77.17	101.4
		5	8.4	10.09	28.87	13.03	9.25	11.77	33.67	17.1	4.68	16.47	47.11	42.25	12.59	18.4	52.65	51.49	13.36	20.37	58.27	61.48
		6	7.95	9.28	22.12	8.11	8.19	10.13	24.14	9.48	10.98	15.07	35.95	26.24	11.82	17.04	40.63	32.5	12.64	19.04	45.41	39.48
		7	7.63	8.62	17.62	5.43	7.78	9.41	19.23	6.33	10.02	13.46	27.53	16.3	10.96	15.52	31.73	20.96	11.83	17.58	35.95	26.07
	9	4	8.2	9	32.21	15.61	8.46	9.96	35.63	18.96	10.78	14.18	50.74	47.8	11.58	16.09	57.58	59.61	12.335	18.05	64.58	72.87
		5	7.92	8.42	24.12	9.36	8.01	9.18	26.27	10.89	9.91	12.73	36.45	26.54	10.79	14.71	42.11	34.26	11.62	16.71	47.83	42.81
		6	7.54	7.79	18.59	5.9	7.69	8.56	20.44	6.97	8.88	11.07	26.43	15.04	9.87	13.15	31.38	20.35	10.77	15.21	36.30	26.26
		7	7.09	7.09	14.50	3.8	7.29	7.91	16.18	4.61	8.44	10.25	20.97	9.95	8.74	11.32	23.16	11.87	9.79	13.51	27.65	16.22
Medium	5	4	10.42	13.97	49.90	34.73	11.09	15.51	55.39	41.84	13.04	19.4	69.29	79.43	13.72	21.16	75.57	92.81	14.39	22.95	81.98	107.02
		5	9.65	12.69	36.28	19.81	10.34	14.24	40.71	24.22	12.42	18.3	52.30	48.33	13.13	20.07	57.35	56.79	13.82	21.88	62.53	66.08
		6	8.76	11.26	26.82	11.56	9.52	12.87	30.65	14.64	11.74	17.09	40.72	30.97	12.49	18.9	45.03	37.08	13.2	20.73	49.39	43.57
		7	7.7	9.62	19.65	6.66	8.58	11.33	23.15	8.91	10.98	15.76	32.19	20.4	11.77	17.61	35.97	24.84	12.52	19.48	39.78	29.63
	7	4	8.92	11.08	39.60	22.84	9.63	12.62	45.10	28.68	11.53	16.32	58.34	57.91	12.23	18.08	64.62	69.28	12.92	19.88	71.07	81.86
		5	8	9.64	27.57	12.01	8.78	11.24	32.14	15.75	10.83	15.1	43.20	34	11.58	16.9	48.34	41.55	12.3	18.72	53.56	49.7
		6	7.49	8.78	20.93	7.36	7.78	9.67	23.06	8.74	10.04	13.75	32.78	20.84	10.84	15.59	37.18	26.06	11.61	17.45	41.61	31.73
		7	7.14	8.15	16.67	4.92	7.33	8.9	18.19	5.74	9.13	12.21	24.96	12.87	10.01	14.13	28.89	16.66	10.83	16.05	32.81	20.81
	9	4	7.7	8.51	30.46	14.15	8.02	9.51	34.02	17.22	9.91	13	46.53	38.33	10.67	14.79	52.92	48.17	11.39	16.6	59.43	58.99
		5	7.43	7.97	22.81	8.49	7.54	8.46	24.85	9.87	9.08	11.62	33.28	21.2	9.9	13.46	38.55	27.49	10.68	15.32	43.91	34.45
		6	7.1	7.37	17.59	5.35	7.24	8.1	19.34	6.32	8.09	10.03	23.94	11.85	9.01	11.96	28.56	16.17	9.86	13.88	33.14	20.97
		7	6.67	6.7	13.71	3.44	6.87	7.48	15.28	4.18	7.76	9.4	19.23	8	7.92	10.2	20.87	9.28	8.91	12.25	25.07	12.81
Low	5	4	8.39	11.46	40.93	24.56	8.92	12.7	45.36	29.39	9.44	13.97	49.90	34.74	9.96	15.27	54.55	40.62	10.47	16.62	59.36	47.32
		5	7.79	10.45	29.85	14.03	8.35	11.71	33.47	17.14	8.9	13.01	37.17	20.6	9.44	14.33	40.96	24.5	9.96	15.68	44.82	28.68
		6	7.09	9.3	22.15	8.27	7.71	10.61	25.28	10.42	8.3	11.95	28.47	12.87	8.87	13.3	31.68	15.51	9.42	14.67	34.95	18.43
		7	6.23	7.92	16.18	4.73	6.95	9.36	19.11	6.36	7.6	10.75	21.96	8.1	8.23	12.16	24.83	10.06	8.82	13.58	27.74	12.26
	7	4	7.19	9.118	32.60	16.2	7.75	10.38	37.09	20.31	8.31	11.67	41.70	20.02	8.84	12.98	46.39	30.14	9.36	14.32	51.19	35.81
		5	6.47	7.97	22.81	8.62	7.1	9.28	26.54	11.23	7.7	10.61	30.34	14.24	8.26	11.95	34.17	17.53	8.82	13.31	38.08	21.19
		6	5.88	7	16.70	4.95	6.31	8.01	19.11	6.29	6.98	9.4	22.42	8.31	7.61	10.8	25.75	10.62	8.21	12.21	29.12	13.21
		7	5.6	6.49	13.27	3.3	5.76	7.09	14.50	3.86	6.11	7.99	16.33	4.74	6.85	9.5	19.42	6.45	7.51	10.96	22.41	8.28
	9	4	6.01	6.79	24.30	9.5	6.47	7.86	28.12	12.31	7.08	9.18	32.83	16.18	7.65	10.5	37.59	20.51	8.21	11.87	42.47	25.49
		5	5.82	6.36	18.22	5.71	5.91	6.93	19.84	6.65	6.33	7.96	22.80	8.48	6.98	9.35	26.79	11.26	7.59	10.76	30.81	14.43
		6	5.57	5.88	14.03	3.59	5.68	6.47	15.44	4.25	6.79	7.05	16.82	4.94	6.17	8.02	19.14	6.21	6.86	9.5	22.66	8.36
		7	5.22	5.31	10.87	2.28	5.39	5.95	12.18	2.79	5.53	6.56	13.42	3.32	5.66	7.15	14.64	3.87	5.97	8.02	16.41	4.72

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. - RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 4 Pipe

ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*1800 (CFM)															
			Entering Air Temperature															
			DB24°C				DB25°C				DB26°C				DB27°C			
			RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	13.84	19.13	68.32	89.09	14.66	21.08	75.28	105.63	13.13	18.92	67.56	59.33	13.83	20.7	73.92	69.46
		5	13.11	17.88	51.10	53.41	13.97	19.86	56.74	64.13	12.31	17.5	50.00	34.77	13.04	19.29	55.14	41.26
		6	12.28	16.48	39.27	33.45	13.19	18.5	44.08	40.93	11.42	15.98	38.06	21.43	12.2	17.82	42.44	26.02
		7	11.33	14.92	30.46	21.32	12.31	17	34.72	26.8	10.43	14.33	29.27	13.45	11.27	16.21	33.11	16.73
	7	4	12	15.49	55.38	60.82	12.87	17.46	62.41	74.96	11.52	15.69	56.09	42.07	12.26	17.48	62.48	50.48
		5	11.14	14.07	40.26	34.58	12.06	16.09	46.02	43.69	10.61	14.17	40.53	23.67	11.4	15.99	45.75	29.35
		6	10.11	12.43	29.65	20.06	11.14	14.55	34.69	26.48	9.58	12.5	29.82	13.75	10.44	14.38	34.28	17.6
		7	9.41	11.25	23.01	12.79	10.04	12.78	26.12	16.04	8.52	10.82	22.13	8.1	9.34	12.58	25.72	10.56
	9	4	9.98	11.54	41.29	35.78	10.93	13.55	48.48	47.38	9.79	12.25	43.83	26.87	10.59	14.06	50.31	34.31
		5	9.49	10.64	30.46	20.82	9.93	11.96	34.26	25.66	8.7	10.57	30.26	13.97	9.59	12.43	35.60	18.62
		6	9.25	10.08	24.06	13.7	9.37	10.97	26.19	15.92	8.37	9.92	23.68	9.02	8.51	10.73	25.60	10.35
		7	8.95	9.48	19.39	9.36	9.1	10.39	21.26	11.01	7.99	9.25	18.93	6.07	8.16	10.08	20.62	7.056
Medium	5	4	12.5	17.25	61.60	68.4	13.25	19.02	67.93	81.22	12.29	17.82	63.63	53.36	12.95	19.49	69.61	62.46
		5	11.81	16.06	45.91	40.76	12.59	17.86	51.05	49.06	11.54	16.5	47.15	31.35	12.22	18.19	51.99	37.2
		6	11.02	14.74	35.10	25.31	11.85	16.58	39.49	31.09	10.71	15.09	35.94	19.36	11.45	16.82	40.06	23.79
		7	10.1	13.22	27.01	15.85	11.01	15.15	31.09	20.15	9.79	13.54	27.66	12.17	10.58	15.32	31.28	15.14
	7	4	10.83	13.93	49.80	46.5	11.61	15.72	56.20	57.44	10.79	14.79	52.89	37.93	11.49	16.49	58.94	46.06
		5	10	12.59	36.00	26.19	10.85	14.42	41.26	33.22	9.95	13.38	38.27	21.39	10.69	15.1	43.19	26.51
		6	9.02	11.03	26.29	14.97	9.97	12.96	30.90	19.91	9	11.82	28.19	12.45	9.8	13.59	32.40	15.93
		7	8.49	10.1	20.65	9.74	8.9	11.26	23.01	11.8	7.91	10.1	20.65	7.17	8.78	11.9	24.33	9.85
	9	4	8.97	10.32	36.94	27.12	9.84	12.16	43.50	36.07	9.18	11.58	41.43	24.41	9.92	13.27	47.49	30.99
		5	8.59	9.59	27.47	15.98	8.89	10.66	30.51	19.29	8.17	10	28.62	12.66	9	11.75	33.66	16.86
		6	8.35	9.06	21.62	10.48	8.47	9.88	23.57	12.18	7.77	9.26	22.11	27.14	7.92	10.04	23.96	9.23
		7	8.05	8.47	17.33	7.05	8.21	9.32	19.07	8.37	7.42	8.64	17.67	5.38	7.58	9.41	19.25	6.255
Low	5	4	9.95	13.65	48.76	37.92	10.56	15.1	53.91	45.21	10.58	15.52	55.44	41.83	11.15	16.98	60.63	48.94
		5	9.31	12.57	35.93	22.06	9.96	14.04	40.13	26.78	9.95	14.42	41.21	24.71	10.56	15.9	45.44	29.44
		6	8.58	11.36	27.07	13.36	9.29	12.89	30.70	16.71	9.26	13.22	31.48	15.33	9.9	14.72	35.08	18.57
		7	7.73	9.98	20.39	8.09	8.5	11.57	23.63	10.47	8.48	11.89	24.28	9.67	9.17	13.44	27.45	12.02
	7	4	8.56	10.94	39.11	25.33	9.22	12.41	44.35	31.69	9.3	12.94	46.24	30.05	9.9	14.39	51.46	36.21
		5	7.81	9.72	27.81	13.86	8.53	11.24	32.15	17.92	8.6	11.74	33.57	17.03	9.23	13.22	37.82	20.97
		6	6.97	8.4	20.03	7.76	7.71	9.9	23.60	10.34	7.79	10.38	24.76	9.91	8.49	11.93	28.45	12.66
		7	6.71	7.88	16.10	5.25	6.87	8.55	17.49	6.07	6.82	8.83	18.05	5.66	7.63	10.49	21.44	7.68
	9	4	7.07	8.04	28.78	14.56	7.75	9.49	33.97	19.54	7.92	10.15	36.32	19.34	8.56	11.63	41.60	24.53
		5	6.88	7.59	21.74	8.84	6.71	7.79	22.32	8.17	7.07	8.79	25.17	10.09	7.79	10.33	29.58	13.42
		6	6.63	7.1	16.94	5.69	6.45	7.28	17.37	5.22	6.56	7.93	18.92	6.08	6.87	8.84	21.10	7.37
		7	6.32	6.54	13.38	3.74	6.12	6.71	13.73	3.45	6.28	7.39	15.11	4.08	6.42	8.05	16.47	4.75

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 4 Pipe

ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*2000 (CFM)															
			Entering Air Temperature															
			DB24°C				DB25°C				DB26°C				DB27°C			
			RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	12.79	17.09	61.04	54.83	13.57	18.92	67.59	65.51	14.34	20.81	74.30	77.33	15.1	22.74	81.19	90.34
		5	11.89	15.61	44.62	31.45	12.72	17.47	49.93	38.27	13.52	19.37	55.36	45.86	14.31	21.32	60.92	54.24
		6	10.89	14.01	33.37	18.79	11.78	15.9	37.89	23.46	12.64	17.85	42.53	28.82	13.46	19.82	47.21	34.58
		7	9.73	12.2	24.91	11.17	10.72	14.19	28.98	14.59	11.65	16.19	33.07	18.43	12.53	18.2	37.16	22.6
	7	4	10.98	13.59	48.58	36.1	11.82	15.44	55.19	45.13	12.63	17.33	61.95	55.26	13.42	19.27	68.91	66.83
		5	9.93	11.97	34.24	19.45	10.84	13.86	39.65	25.14	11.72	15.8	45.19	31.71	12.55	17.76	50.79	38.89
		6	9.25	10.86	25.89	11.81	9.73	12.12	28.89	14.36	10.69	14.11	33.66	18.82	11.59	16.12	38.43	23.72
		7	8.87	10.16	20.78	8	9.09	11.05	22.59	9.27	9.5	12.22	24.98	11.08	10.51	14.32	29.27	14.65
	9	4	9.47	10.45	37.38	22.4	9.89	11.7	41.88	27.39	10.78	13.63	48.77	35.86	11.63	15.58	55.74	45.3
		5	9.17	9.83	28.13	13.54	9.29	10.68	30.59	15.7	9.69	11.91	34.10	19.01	10.62	13.92	39.86	25.04
		6	8.8	9.16	21.87	8.69	8.95	10.04	23.96	10.2	9.1	10.9	26.02	11.75	9.47	12.08	28.84	14.14
		7	8.34	8.43	17.25	5.7	8.55	9.34	19.10	6.8	8.74	10.23	20.93	8	8.91	11.11	22.74	9.25
Medium	5	4	11.99	16.12	57.59	49.46	12.37	17.85	63.75	59.09	13.45	19.62	70.07	69.73	14.16	21.44	76.56	81.44
		5	11.16	14.75	42.16	28.44	11.94	16.5	47.16	34.61	12.7	18.29	52.28	41.45	13.44	20.14	57.55	49.24
		6	10.23	13.25	31.56	17.02	11.07	15.04	35.83	21.25	11.88	16.88	40.21	26.09	12.65	18.73	44.62	31.3
		7	9.15	11.55	23.58	10.14	10.09	13.43	27.43	13.24	10.96	15.32	31.29	16.72	11.79	17.22	35.16	20.5
	7	4	10.3	12.84	45.90	32.65	11.08	14.58	52.13	40.8	11.86	16.37	58.53	50.19	12.59	18.19	65.04	60.35
		5	9.33	11.32	32.39	17.64	10.18	13.11	37.50	22.79	11.01	14.94	42.73	28.72	11.79	16.78	48.01	35.21
		6	8.61	10.16	24.23	10.51	9.15	11.47	27.36	13.04	10.06	13.36	31.86	17.08	10.9	15.25	36.37	21.52
		7	8.26	9.51	19.45	7.19	8.46	10.34	21.15	8.25	8.94	11.58	23.67	10.07	9.89	13.57	27.73	13.32
	9	4	8.8	9.77	34.96	19.9	9.29	11.07	39.62	24.83	10.12	12.89	46.11	32.48	10.92	14.72	52.69	41.02
		5	8.52	9.19	26.33	12.05	8.63	10	28.62	13.97	9.12	11.29	32.33	17.36	9.99	13.18	37.73	22.73
		6	8.19	8.58	20.47	7.73	8.33	9.4	22.43	9.08	8.47	10.2	24.35	10.46	8.92	11.45	27.34	12.86
		7	7.77	7.89	16.44	5.07	7.96	8.74	17.88	6.06	8.14	9.58	19.59	7.11	8.3	10.4	21.28	8.24
Low	5	4	10.28	14.02	50.07	38.63	10.92	15.51	55.41	46.11	11.55	17.04	60.87	54.38	12.16	18.61	66.48	63.47
		5	9.6	12.87	36.77	22.34	10.27	14.39	41.11	27.16	10.93	15.95	45.58	32.66	11.57	17.53	50.10	38.53
		6	8.82	11.58	27.59	13.43	9.54	13.15	31.32	16.76	10.24	14.74	35.12	20.54	10.91	16.35	38.96	24.63
		7	7.9	10.11	20.64	8.02	8.71	11.76	24.02	10.47	9.47	13.41	27.39	13.22	10.19	15.07	30.77	16.2
	7	4	8.84	11.2	40.04	25.66	9.52	12.71	45.44	32.03	10.18	14.26	50.98	39.3	10.82	15.84	56.61	47.22
		5	8.04	9.91	28.35	13.93	8.78	11.48	32.83	18.08	9.48	13.05	37.34	22.63	10.16	14.66	41.92	27.72
		6	7.26	8.68	20.70	7.97	7.9	10.06	23.98	10.34	8.68	11.71	27.92	13.52	9.41	13.36	31.85	17.03
		7	6.97	8.12	16.61	5.39	7.15	8.84	18.07	6.26	7.74	10.16	20.78	8	8.57	11.91	24.34	10.58
	9	4	7.39	8.33	29.82	15.05	7.99	9.7	34.70	19.72	8.71	11.26	40.30	25.61	9.39	12.86	46.01	32.3
		5	7.17	7.85	22.49	9.12	7.27	8.54	24.44	10.59	7.87	9.9	28.36	13.76	8.62	11.55	33.07	18
		6	6.91	7.33	17.49	5.86	7.03	8.03	19.17	6.88	7.14	8.72	20.80	7.93	7.72	10.07	24.02	10.24
		7	6.56	6.73	13.78	3.83	6.72	7.47	15.28	4.6	6.87	8.18	16.74	5.4	7.01	8.89	18.19	6.25

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

New Series Ducted Fan Coil 4 Pipe

ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature °C	Entering/Leaving Water Temperature Difference °C	*2400 (CFM)																			
			Entering Air Temperature																			
			DB24°C				DB25°C				DB26°C				DB27°C				DB28°C			
			RH 50				RH 50				RH 50				RH 50				RH 50			
			Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop	Sensible Cooling	Total Cooling	Water Flowrate	Water Pressure Drop
			kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa	kW	kW	l/min	kPa
High	5	4	14.45	19.06	68.08	66.22	15.35	21.14	75.48	79.66	16.21	23.24	83.01	94.06	17.05	25.41	90.73	109.94	18.32	28.42	101.51	133.8
		5	13.42	17.39	49.69	38.03	14.35	19.46	55.62	46.31	15.25	21.59	61.70	55.52	16.13	23.76	67.91	65.7	17.42	26.78	76.52	81.31
		6	12.26	15.56	37.07	22.63	13.26	17.68	42.11	28.27	14.21	19.83	47.24	34.57	15.15	22.05	52.52	41.75	16.44	25.02	59.60	52.09
		7	10.93	13.53	27.63	13.42	12.04	15.74	32.14	17.52	13.07	17.94	36.65	22.03	14.07	20.2	41.25	27.18	15.4	23.16	47.31	34.54
	7	4	12.41	15.13	54.09	43.65	13.35	17.2	61.48	54.61	14.26	19.31	69.05	66.92	15.15	21.5	76.85	81.07	16.4	24.41	87.25	101.21
		5	11.19	13.29	38.02	23.41	12.22	15.4	44.05	30.27	13.19	17.55	50.19	38.04	14.13	19.75	56.50	46.94	15.41	22.64	64.78	59.63
		6	10.64	12.33	29.41	14.84	10.93	13.43	32.02	17.23	12	15.63	37.27	22.47	13.02	17.88	42.64	28.5	14.34	20.77	49.51	37.02
		7	10.18	11.53	23.57	10	10.43	12.54	25.64	11.58	10.66	13.54	27.67	13.25	11.78	15.85	32.41	17.54	13.16	18.74	38.32	23.5
	9	4	10.92	11.88	42.50	28.07	11.16	13	46.51	32.96	12.16	15.15	54.21	43.42	13.11	17.33	62.00	54.68	14.37	20.14	72.05	71.13
		5	10.55	11.16	31.95	16.94	10.69	12.14	34.75	19.66	10.89	13.2	37.79	22.78	11.95	15.44	44.21	30.06	13.25	18.24	52.23	40.25
		6	10.1	10.38	24.79	10.79	10.28	11.4	27.20	12.75	10.45	12.39	29.56	14.77	10.61	13.36	31.88	16.81	12.01	16.18	38.62	23.59
		7	9.56	9.56	19.57	7.12	9.8	10.59	21.67	8.5	10.02	11.61	23.75	9.99	10.22	12.61	25.80	11.56	10.62	13.96	28.57	13.81
Medium	5	4	13.49	17.92	64.00	59.38	14.32	19.86	70.93	71.37	15.15	21.86	78.08	84.41	15.92	23.87	85.24	98.44	17.09	26.68	95.27	119.64
		5	12.54	16.37	46.77	34.17	13.41	18.32	52.35	41.6	14.27	20.33	58.11	49.95	15.08	22.36	63.89	58.99	16.27	25.16	71.91	72.84
		6	11.47	14.67	34.94	20.38	12.4	16.66	39.68	25.46	13.31	18.7	44.55	31.18	14.17	20.77	49.47	37.56	15.38	23.55	56.09	46.78
		7	10.24	12.77	26.07	12.11	11.28	14.85	30.32	15.81	12.27	16.96	34.64	20.02	13.18	19.05	38.90	24.5	14.42	21.82	44.57	31.09
	7	4	11.58	14.24	50.92	39.23	12.46	16.19	57.86	49.06	13.33	18.19	65.03	60.2	14.15	20.22	72.28	72.73	15.31	22.93	81.98	90.95
		5	10.47	12.53	35.84	21.1	11.42	14.51	41.52	27.27	12.36	16.57	47.39	34.49	13.22	18.6	52.32	42.23	14.4	21.31	60.95	53.56
		6	9.83	11.47	27.36	13.02	10.24	12.67	30.22	15.56	11.25	14.76	35.21	20.32	12.19	16.87	40.22	25.71	13.42	19.57	46.66	33.34
		7	9.42	10.74	21.95	8.81	9.65	11.68	23.87	10.22	10	12.79	26.14	12	11.05	14.97	30.61	15.85	12.33	17.69	36.16	21.22
	9	4	10.08	11.05	39.53	24.71	10.43	12.25	43.85	29.7	11.38	14.29	51.13	38.99	12.25	16.32	58.40	49.19	13.42	18.94	67.79	63.88
		5	9.74	10.38	29.74	14.93	9.87	11.3	32.34	17.32	10.21	12.47	35.70	20.61	11.18	14.57	41.71	27.12	12.41	17.21	49.27	36.44
		6	9.34	9.67	23.08	9.52	9.51	10.61	25.32	11.24	9.68	11.54	27.55	13.05	9.96	12.63	30.15	15.29	11.25	15.27	36.46	21.31
		7	8.86	8.91	18.22	6.27	9.07	9.86	20.18	7.5	9.28	10.82	22.14	8.83	9.46	11.74	24.03	10.19	9.94	13.15	26.90	12.46
Low	5	4	11.61	15.66	55.94	46.98	12.33	17.34	61.92	56.12	13.03	19.06	68.05	66.22	13.72	20.82	74.35	77.33	14.72	23.22	82.92	93.63
		5	10.82	14.34	40.98	27.05	11.57	16.04	45.84	32.91	12.3	17.78	50.80	39.41	13.03	19.57	55.92	46.8	14.04	21.96	62.75	57.24
		6	9.92	12.88	30.69	16.21	10.73	14.63	34.84	20.23	11.52	16.41	39.09	24.83	12.55	18.72	44.58	31.24	13.3	20.61	49.08	36.97
		7	8.87	11.23	22.94	9.66	9.78	13.06	26.68	12.61	10.64	14.9	30.44	15.92	11.71	17.23	35.18	20.51	12.51	19.17	39.15	24.81
	7	4	9.98	12.48	44.61	31.06	10.74	14.17	50.66	38.8	11.48	15.91	56.88	47.71	12.46	18.15	64.88	60.04	13.18	20.01	71.52	71.22
		5	9.04	11.01	31.51	16.79	9.87	12.75	36.47	21.7	10.67	14.52	41.55	27.33	11.68	16.77	47.96	35.14	12.44	18.65	53.34	42.33
		6	8.31	9.83	23.44	9.92	8.87	11.16	26.62	12.43	9.75	13	31.00	16.27	10.82	15.26	36.39	21.54	11.63	17.19	41.00	26.62
		7	7.97	9.2	18.82	6.7	8.17	10.01	20.46	7.8	8.68	11.27	23.04	9.6	9.84	13.6	27.79	13.36	10.72	15.59	31.87	17.02
	9	4	8.48	9.45	33.82	18.77	9	10.77	38.55	23.65	9.81	12.53	44.84	30.92	10.81	14.71	52.63	40.92	11.57	16.59	59.36	50.72
		5	8.22	8.9	25.47	11.37	8.33	9.67	27.69	13.18	8.84	10.99	31.47	16.54	9.91	13.19	37.76	22.75	10.73	15.11	43.26	28.95
		6	7.9	8.3	19.81	7.3	8.04	9.09	21.70	8.57	8.17	9.87	23.56	9.87	8.86	11.48	27.41	12.91	9.78	13.48	32.16	17.13
		7	7.5	7.63	15.62	4.78	7.68	8.46	17.30	5.72	7.85	9.27	18.96	6.72	8.17	10.32	21.11	8.12	8.65	11.61	23.77	10.01

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp. – RH: relative humidity

→ Standard Condition: Entering Air Temperature 27 °C DB - %50 RH and Water inlet/outlet Temperature 7 / 12 °C

Performance Data/Heating

New Series Ducted Fan Coil 4 Pipe ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature °C	Entering/Leaving Water Temperature Difference °C	*06 (600 CFM)								*08 (800 CFM)							
			Entering Air Temperature °C								Entering Air Temperature °C							
			DB20°C				DB22°C				DB20°C				DB22°C			
			RH 50				RH 50				RH 50				RH 50			
			Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop
			kW	l/h	l/min	kPa	kW	l/h	l/min	kPa	kW	l/h	l/min	kPa	kW	l/h	l/min	kPa
High	80	5	8.61	1519.00	25.32	17.12	8.29	1462.30	24.37	16.01	8.99	0.15	1585.40	18.46	8.65	1526.20	25.44	17.26
		10	7.86	692.40	11.54	4.33	7.54	664.30	11.07	4.03	8.20	0.14	722.20	4.67	7.86	692.90	11.55	4.34
		15	7.11	417.10	6.95	1.79	6.79	398.50	6.64	1.65	7.41	0.12	434.80	1.93	7.08	415.40	6.92	1.78
	60	5	5.43	950.10	15.84	1.19	5.12	894.60	14.91	7.28	5.67	0.09	991.20	8.72	5.34	933.30	15.56	7.84
		10	4.63	404.10	6.74	1.82	4.31	376.50	6.28	1.60	4.82	0.08	421.20	1.95	4.49	392.50	6.54	1.72
		15	3.76	218.80	3.65	0.62	3.43	199.80	3.33	0.53	3.92	0.07	228.10	0.67	3.58	208.30	3.47	0.57
	40	5	2.22	385.60	6.43	1.81	1.91	330.50	5.51	1.38	2.32	0.04	402.00	1.95	1.99	344.70	5.75	1.48
		10	0.91	78.70	1.31	0.11	0.74	64.40	1.07	0.08	0.93	0.02	80.40	0.12	0.76	65.70	1.10	0.08
		15	0.56	32.30	0.54	0.03	0.40	23.40	0.39	0.02	0.57	0.01	32.80	0.03	0.41	23.70	0.40	0.02
Medium	80	5	7.36	1297.90	21.63	12.98	7.08	1249.30	20.82	12.14	8.42	0.14	1484.60	16.44	8.10	1429.10	23.82	15.38
		10	6.73	593.00	9.88	3.30	6.46	568.90	9.48	3.07	7.68	0.13	676.90	4.16	7.37	649.50	10.83	3.87
		15	6.10	357.90	5.97	1.37	5.83	342.00	5.70	1.26	6.95	0.12	407.90	1.72	6.64	389.70	6.50	1.59
	60	5	4.65	812.80	13.55	6.15	4.38	765.40	12.76	5.53	5.31	0.09	928.70	7.77	5.00	874.50	14.58	6.99
		10	3.97	346.80	5.78	1.39	3.70	323.00	5.38	1.22	4.52	0.08	395.10	1.75	4.22	368.10	6.14	1.54
		15	3.22	187.50	3.13	0.48	2.94	171.00	2.85	0.40	3.68	0.06	214.00	0.60	3.36	195.30	3.26	0.51
	40	5	0.57	25.80	0.43	0.03	1.63	283.10	4.72	1.05	2.17	0.04	377.00	1.74	1.86	323.20	5.39	1.33
		10	0.52	24.93	0.42	0.03	0.69	59.90	1.00	0.07	0.90	0.02	77.90	0.11	0.74	63.80	1.06	0.08
		15	0.46	23.95	0.40	0.02	0.38	22.10	0.37	0.02	0.56	0.01	32.00	0.03	0.40	23.20	0.39	0.02
Low	80	5	6.73	1186.90	19.78	11.09	6.48	1142.40	19.04	10.37	7.50	0.13	1322.70	13.42	7.22	1273.20	21.22	12.55
		10	6.16	542.90	9.05	2.82	5.91	520.90	8.68	2.63	6.86	0.11	604.10	3.41	6.58	579.60	9.66	3.17
		15	5.59	328.10	5.47	1.17	5.34	313.50	5.23	1.08	6.21	0.10	364.60	1.41	5.94	348.30	5.81	1.31
	60	5	4.25	743.80	12.40	5.26	4.01	700.40	11.67	4.73	4.74	0.08	828.20	6.35	4.46	779.90	13.00	5.71
		10	3.64	317.80	5.30	1.19	3.39	296.00	4.93	1.05	4.04	0.07	353.20	1.43	3.77	329.00	5.48	1.26
		15	2.95	171.60	2.86	0.41	2.69	156.30	2.61	0.34	3.28	0.05	191.00	0.49	3.00	174.20	2.90	0.42
	40	5	1.74	302.50	5.04	1.18	1.49	259.00	4.32	0.90	1.94	0.03	336.60	1.42	1.66	288.40	4.81	1.08
		10	0.80	69.60	1.16	0.09	0.66	57.30	0.96	0.06	0.85	0.01	73.60	0.10	0.70	60.40	1.01	0.07
		15	0.51	29.30	0.49	0.03	0.37	21.40	0.36	0.02	0.53	0.01	30.70	0.03	0.39	22.30	0.37	0.02

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp.-RH: relative humidity

New Series Ducted Fan Coil 4 Pipe ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*10 (1000 CFM)								*12 (1200 CFM)							
			Entering Air Temperature°C								Entering Air Temperature°C							
			DB20°C				DB22°C				DB20°C				DB22°C			
			RH 50				RH 50				RH 50				RH 50			
			Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop
			kW	l/h	l/min	kPa	kW	l/h	l/min	kPa	kW	l/h	l/min	kPa	kW	l/h	l/min	kPa
High	80	5	12.95	2284.50	380.75	47.84	12.47	2200.10	36.67	44.77	14.96	2638.60	43.98	61.65	14.41	2541.40	42.36	57.71
		10	12.01	1057.50	176.25	12.44	11.53	1015.60	16.93	11.59	13.84	1219.30	20.32	15.98	13.29	1171.00	19.52	14.89
		15	11.06	648.60	108.10	5.31	10.58	620.80	10.35	4.92	12.73	746.50	12.44	6.80	12.18	714.50	11.91	6.30
	60	5	8.26	1444.40	240.73	23.04	7.79	1362.00	22.70	20.78	9.53	1666.70	27.78	29.64	8.99	1571.60	26.19	26.73
		10	7.26	634.20	105.70	5.47	6.79	593.30	9.89	4.86	8.36	730.00	12.17	7.00	7.82	682.70	11.38	6.23
		15	6.22	361.70	60.28	2.06	5.74	334.10	5.57	1.79	7.14	415.40	6.92	2.62	6.60	383.70	6.40	2.28
	40	5	3.54	615.10	102.52	5.61	3.08	533.90	8.90	4.37	4.08	708.00	11.80	7.18	3.54	614.40	10.24	5.60
		10	2.31	199.90	33.32	0.78	1.74	151.10	2.52	0.48	2.67	231.30	3.86	1.01	2.05	177.90	2.97	0.64
		15	0.84	48.60	8.10	0.07	0.61	35.20	0.59	0.04	0.89	51.20	0.85	0.07	0.64	36.90	0.62	0.04
Medium	80	5	12.23	2156.40	359.40	43.22	11.77	2076.70	34.61	40.45	13.07	2305.60	38.43	48.62	12.59	2220.50	37.01	45.50
		10	11.34	998.90	166.48	11.25	10.89	959.40	15.99	10.48	12.12	1067.10	17.79	12.64	11.64	1024.90	17.08	11.78
		15	10.45	613.10	102.18	4.81	10.00	586.90	9.78	4.45	11.16	654.50	10.91	5.40	10.68	626.40	10.44	5.00
	60	5	7.80	1364.00	227.33	20.83	7.36	1286.20	21.44	18.78	8.34	1457.70	24.30	23.41	7.86	1374.50	22.91	21.11
		10	6.87	599.50	99.92	4.95	6.42	560.80	9.35	4.40	7.33	640.00	10.67	5.56	6.85	598.60	9.98	4.94
		15	5.88	342.20	57.03	1.86	5.43	316.00	5.27	1.62	6.27	364.90	6.08	2.09	5.79	337.10	5.62	1.82
	40	5	3.35	581.40	96.90	5.08	2.91	504.70	8.41	3.96	3.58	620.60	10.34	5.70	3.11	538.80	8.98	4.44
		10	2.17	188.20	31.37	0.71	1.63	140.90	2.35	0.42	2.33	201.80	3.36	0.08	1.76	152.80	2.55	0.49
		15	0.82	47.60	7.93	0.06	0.60	34.50	0.58	0.04	0.84	48.80	0.81	0.07	0.61	35.30	0.59	0.04
Low	80	5	10.68	1883.30	313.88	34.05	10.28	1813.70	30.23	31.87	12.04	2123.50	35.39	42.07	11.60	2045.10	34.09	39.37
		10	9.92	873.90	145.65	8.90	9.53	839.30	13.99	8.28	11.17	938.90	15.65	10.96	10.73	944.90	15.75	10.21
		15	9.16	537.20	89.53	3.81	8.77	514.30	8.57	3.53	10.30	604.00	10.07	4.69	9.86	578.10	9.64	4.34
	60	5	6.82	1192.40	198.73	16.44	6.43	1124.40	18.74	14.83	7.68	1343.30	22.39	20.28	7.25	1266.70	21.11	18.29
		10	6.02	525.30	87.55	3.93	5.63	491.50	8.19	3.49	6.76	590.60	9.84	4.82	6.33	552.50	9.21	4.29
		15	5.16	300.30	50.05	1.48	4.77	277.40	4.62	1.29	5.80	337.10	5.62	1.82	5.36	311.70	5.20	1.58
	40	5	2.94	509.40	84.90	4.02	2.55	442.30	7.37	3.14	3.30	572.70	9.55	4.95	2.87	497.20	8.29	3.86
		10	1.88	163.00	27.17	0.55	1.34	116.50	1.94	0.30	2.14	185.20	3.09	0.69	1.59	138.20	2.30	0.41
		15	0.78	45.00	7.50	0.06	0.57	32.80	0.55	0.04	0.82	47.30	0.79	0.06	0.59	34.30	0.57	0.04

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp.-RH: relative humidity

Performance Data/Heating

New Series Ducted Fan Coil 4 Pipe ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature °C	Entering/Leaving Water Temperature Difference °C	*14 (1400 CFM)								*16 (1600 CFM)							
			Entering Air Temperature °C								Entering Air Temperature °C							
			DB20°C				DB22°C				DB20°C				DB22°C			
			RH 50				RH 50				RH 50				RH 50			
			Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop
			kW	l/h	l/min	kPa	kW	l/h	l/min	kPa	kW	l/h	l/min	kPa	kW	l/h	l/min	kPa
High	80	5	16.52	2913.70	48.56	80.82	15.91	2806.70	46.78	75.66	19.55	3448.10	57.47	130.43	18.84	3321.90	55.37	122.14
		10	15.34	1351.60	22.53	21.1	14.74	1298.40	21.64	19.66	18.27	1609.50	26.83	34.43	17.56	1546.80	25.78	32.10
		15	14.17	831.10	13.85	9.05	13.57	795.80	13.26	8.38	16.99	996.50	16.61	14.94	16.28	954.80	15.91	13.86
	60	5	10.56	1845.40	30.76	39.03	9.96	1740.60	29.01	35.22	12.55	2194.10	36.57	63.53	11.84	2069.70	34.50	57.32
		10	9.32	814.10	13.57	9.34	8.73	762.00	12.70	8.32	11.21	978.70	16.31	15.50	10.50	917.20	15.29	13.83
		15	8.05	468.00	7.80	3.56	7.44	433.00	7.22	3.11	9.82	571.30	9.52	6.07	9.11	530.10	8.84	5.32
	40	5	4.56	791.90	13.20	9.63	3.97	689.20	11.49	7.54	5.51	956.30	15.94	16.11	4.81	835.10	13.92	12.69
		10	3.11	269.80	4.50	1.46	2.46	213.50	3.56	0.97	3.97	344.10	5.74	2.70	3.23	279.90	4.67	1.87
		15	0.99	57.30	0.96	0.1	0.72	41.30	0.69	0.05	1.21	70.10	1.17	0.17	0.88	50.60	0.84	0.09
Medium	80	5	14.45	2548.70	42.48	63.85	13.92	2454.90	40.92	59.78	18.68	3294.90	54.92	120.40	2642.00	3174.20	52.90	112.75
		10	13.44	1184.10	19.74	16.72	12.91	1137.50	18.96	15.58	17.47	1538.70	25.65	31.81	16.79	1478.80	24.65	29.66
		15	12.43	729.20	12.15	7.19	11.91	698.30	11.64	6.66	16.25	953.10	15.89	13.82	15.57	913.30	15.22	12.82
	60	5	9.24	1615.60	26.93	30.89	8.72	1523.90	25.40	27.87	11.99	2097.20	34.95	58.67	11.32	1979.20	32.99	52.99
		10	8.18	714.40	11.91	7.42	7.66	668.70	11.15	6.61	10.72	936.20	15.60	14.34	10.05	877.40	14.62	12.79
		15	7.08	411.60	6.86	2.84	6.55	380.80	6.35	2.48	9.40	546.90	9.12	5.62	8.72	507.50	8.46	4.93
	40	5	4.00	694.90	11.58	7.65	3.49	604.90	10.08	6.00	5.27	914.70	15.25	14.90	4.60	798.90	13.32	11.74
		10	2.73	236.50	3.94	1.16	2.14	185.90	3.10	0.76	3.80	329.40	5.49	2.50	3.09	267.80	4.46	1.73
		15	0.95	54.60	0.91	0.09	0.68	39.50	0.66	0.05	1.19	68.90	1.15	0.16	0.86	49.80	0.83	0.09
Low	80	5	13.27	2340.90	39.02	54.98	12.78	2254.60	37.58	51.46	15.56	2743.40	45.72	87.22	14.98	2642.70	44.05	81.66
		10	12.36	1088.70	18.15	14.42	11.87	1045.80	17.43	13.43	14.58	1283.70	21.40	23.12	14.01	1233.70	20.56	21.56
		15	11.44	671.10	11.19	6.21	10.96	642.70	10.71	5.75	13.59	797.10	13.29	10.09	13.02	764.10	12.74	9.36
	60	5	8.49	1485.40	24.76	26.64	8.01	1400.40	23.34	24.02	10.00	1747.90	29.13	42.58	9.43	1649.60	27.49	38.45
		10	7.53	657.50	10.96	6.41	7.05	615.50	10.26	5.71	8.96	782.70	13.05	10.46	8.40	733.60	12.23	9.33
		15	6.52	379.30	6.32	2.46	6.03	350.90	5.85	2.15	7.88	458.40	7.64	4.12	7.31	425.50	7.09	3.62
	40	5	3.69	639.50	10.66	6.61	3.21	556.80	9.28	5.18	4.41	764.80	12.75	10.87	3.85	668.20	11.14	8.57
		10	2.51	217.30	3.62	1.00	1.96	169.90	2.83	0.65	3.18	275.90	4.60	1.83	2.58	223.60	3.73	1.26
		15	0.91	52.80	0.88	0.08	0.66	38.30	0.64	0.05	1.11	64.20	1.07	0.14	0.81	46.70	0.78	0.08

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp.-RH: relative humidity

New Series Ducted Fan Coil 4 Pipe ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*18 (1800 CFM)								*20 (2000 CFM)							
			Entering Air Temperature°C								Entering Air Temperature°C							
			DB20°C				DB22°C				DB20°C				DB22°C			
			RH 50				RH 50				RH 50				RH 50			
			Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop
			kW	l/h	l/min	kPa	kW	l/h	l/min	kPa	kW	l/h	l/min	kPa	kW	l/h	l/min	kPa
High	80	5	20.56	3626.80	60.45	142.56	19.81	3494.10	58.24	133.51	22.38	3947.40	65.79	182.72	21.57	3803.20	63.39	171.14
		10	19.21	1692.00	28.20	37.59	18.46	1626.10	27.10	35.05	20.97	1847.00	30.78	48.43	20.16	1775.30	29.59	45.17
		15	17.85	1047.00	17.45	16.30	17.10	1003.20	16.72	15.12	19.55	1146.50	19.11	21.12	18.73	1098.80	18.31	19.60
	60	5	13.19	2307.20	38.45	69.40	12.45	2176.30	36.27	62.62	14.39	2516.00	41.93	89.25	13.58	2375.00	39.58	80.64
		10	11.78	1028.30	17.14	16.91	11.03	963.70	16.06	15.08	12.91	1127.40	18.79	21.95	12.11	1057.10	17.62	19.60
		15	10.31	599.80	10.00	6.62	9.57	556.50	9.28	5.80	11.38	661.90	11.03	8.69	10.57	614.80	10.25	7.63
	40	5	5.79	1004.70	16.75	17.57	5.06	877.30	14.62	13.84	6.36	1103.60	18.39	22.89	7.03	244.90	4.08	1.54
		10	4.17	361.20	6.02	2.94	3.39	239.90	4.00	2.04	4.68	405.60	6.76	3.98	4.57	132.60	2.21	0.53
		15	1.24	71.40	1.19	0.17	0.89	51.40	0.86	0.10	2.26	130.30	2.17	0.55	1.52	37.80	0.63	0.06
Medium	80	5	19.44	3428.30	57.14	129.12	18.73	3302.80	55.05	120.92	21.20	3738.20	62.30	166.02	20.42	3601.60	60.03	155.49
		10	18.17	1600.40	26.67	34.08	17.46	1538.00	25.63	31.78	19.87	1750.10	29.17	44.05	19.10	1682.10	28.04	41.08
		15	16.89	900.90	15.02	14.79	16.19	949.40	15.82	13.72	18.53	1087.50	18.13	19.24	17.76	1041.80	17.36	17.84
	60	5	12.48	2181.60	36.36	62.89	11.77	2057.90	34.30	56.75	13.63	2383.30	39.72	81.13	12.86	2249.80	37.50	73.30
		10	11.15	973.30	16.22	15.35	10.44	912.10	15.20	13.69	12.24	1068.90	17.82	19.99	11.48	1002.30	16.71	17.85
		15	9.77	568.20	9.47	6.02	9.06	527.20	8.79	5.27	10.80	628.10	10.47	7.92	10.03	583.40	9.72	6.96
	40	5	5.48	950.90	15.85	15.95	4.79	830.40	13.84	12.57	6.03	1046.30	17.44	20.84	5.27	915.10	15.25	16.46
		10	3.95	342.20	5.70	2.67	3.21	278.30	4.64	1.86	4.44	385.00	6.42	3.63	3.64	315.70	5.26	2.56
		15	1.21	70.00	1.17	0.16	0.87	50.50	0.84	0.09	2.02	116.70	1.95	0.45	0.97	56.20	0.94	0.12
Low	80	5	17.12	3018.60	50.31	103.20	16.49	2907.90	48.47	96.64	18.63	3285.90	54.77	132.31	17.95	3156.60	52.61	123.90
		10	16.02	1411.00	23.52	27.31	15.40	1356.00	22.60	25.46	17.49	1540.40	25.67	35.19	16.81	1480.50	24.68	32.82
		15	14.92	875.30	14.59	11.89	14.29	838.30	13.97	11.02	16.33	958.40	15.97	15.40	15.66	918.70	15.31	14.30
	60	5	10.99	1922.30	32.04	50.33	10.37	1814.10	30.24	45.45	11.99	2096.40	34.94	64.74	11.32	1978.90	32.98	58.49
		10	9.84	859.30	14.32	12.33	9.22	805.40	13.42	11.00	10.79	942.60	15.71	16.02	10.12	883.50	14.73	14.29
		15	8.64	502.60	8.38	4.85	8.02	466.50	7.78	4.25	9.54	554.70	9.25	6.37	8.86	515.30	8.59	5.59
	40	5	4.84	839.70	14.00	12.81	4.23	733.50	12.23	10.10	5.32	922.30	15.37	16.69	2434.00	806.90	13.45	13.19
		10	3.49	302.70	5.05	2.15	2.83	245.70	4.10	1.49	3.92	340.20	5.67	2.92	3.22	278.80	4.65	2.06
		15	1.15	66.70	1.11	0.15	0.84	48.30	0.81	0.09	1.28	74.00	1.23	0.20	0.93	53.70	0.90	0.11

At Sea Level

External Static Pressure 75 Pa

Interpolation is Allowed

Extrapolation is Not Allowed Please Contact Engineering Office

DB: dry bulb temp.-RH: relative humidity

New Series Ducted Fan Coil 4 Pipe ADFN-*/M

فن کویل کانالی چهار لوله سری جدید

Speed Mode	Entering Water Temperature -°C	Entering/Leaving Water Temperature Difference -°C	*24 (2400 CFM)							
			Entering Air Temperature°C							
			DB20°C				DB22°C			
			RH 50				RH 50			
			Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop	Total Heating	Water Flowrate	Water Flowrate	Water Pressure Drop
			kW	l/h	l/min	kPa	kW	l/h	l/min	kPa
High	80	5	24.85	4382.00	73.03	219.59	23.94	4222.20	70.37	205.70
		10	23.25	2048.20	34.14	58.10	22.35	1968.70	32.81	54.19
		15	21.65	1270.00	21.17	25.28	20.75	1217.20	20.29	23.46
	60	5	15.96	2791.50	46.53	107.16	15.07	2633.80	43.90	96.73
		10	14.30	1248.80	20.81	26.28	13.41	1170.80	19.51	23.46
		15	12.59	732.10	12.20	10.38	11.69	679.80	11.33	9.11
	40	5	7.05	1222.30	20.37	27.40	6.16	1068.70	17.81	21.63
		10	5.17	448.10	7.47	4.74	4.24	367.60	6.13	3.35
		15	2.63	151.60	2.53	0.71	1.02	59.10	0.99	0.14
Medium	80	5	23.42	4131.10	68.85	197.95	22.57	3980.30	66.34	185.41
		10	21.94	1932.00	32.20	52.43	21.08	1857.10	30.95	48.90
		15	20.44	1198.70	19.98	22.84	19.59	1148.90	19.15	21.19
	60	5	15.05	2632.50	43.88	96.65	14.21	2484.90	41.42	87.32
		10	13.50	1178.70	19.65	23.74	12.66	1105.20	18.42	21.20
		15	11.89	691.60	11.53	9.39	11.04	642.30	10.71	8.24
	40	5	6.65	1153.80	19.23	24.75	5.81	1009.00	16.82	19.55
		10	4.89	423.60	7.06	4.30	4.01	347.50	5.79	3.03
		15	2.42	139.80	2.33	0.62	1.01	58.10	0.97	0.13
Low	80	5	20.63	3638.50	60.64	158.31	19.88	3505.50	58.43	148.27
		10	19.35	1703.90	28.40	42.02	18.59	1637.80	27.30	39.20
		15	18.05	1059.10	17.65	18.36	17.30	1014.60	16.91	17.03
	60	5	13.27	2320.10	38.67	77.39	12.52	2190.10	36.50	69.92
		10	11.92	1041.00	17.35	19.08	11.18	976.10	16.27	17.04
		15	10.52	612.00	10.20	7.57	9.77	568.50	9.48	6.65
	40	5	5.87	1019.00	16.98	19.89	5.14	891.30	14.86	15.72
		10	4.33	375.10	6.25	3.47	3.55	307.60	5.13	2.44
		15	1.33	76.90	1.28	0.22	0.96	55.70	0.93	0.12

At Sea Level
 # External Static Pressure 75 Pa
 # Interpolation is Allowed
 # Extrapolation is Not Allowed Please Contact Engineering Office
 # DB: dry bulb temp.-RH: relative humidity

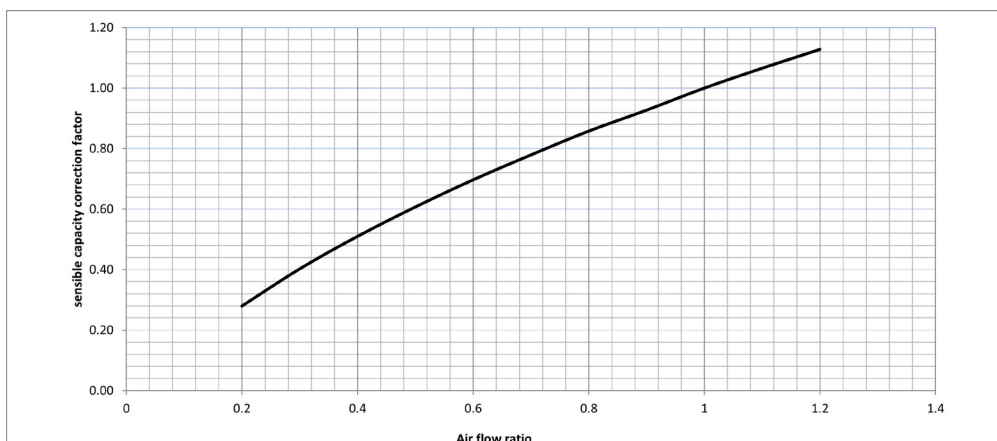
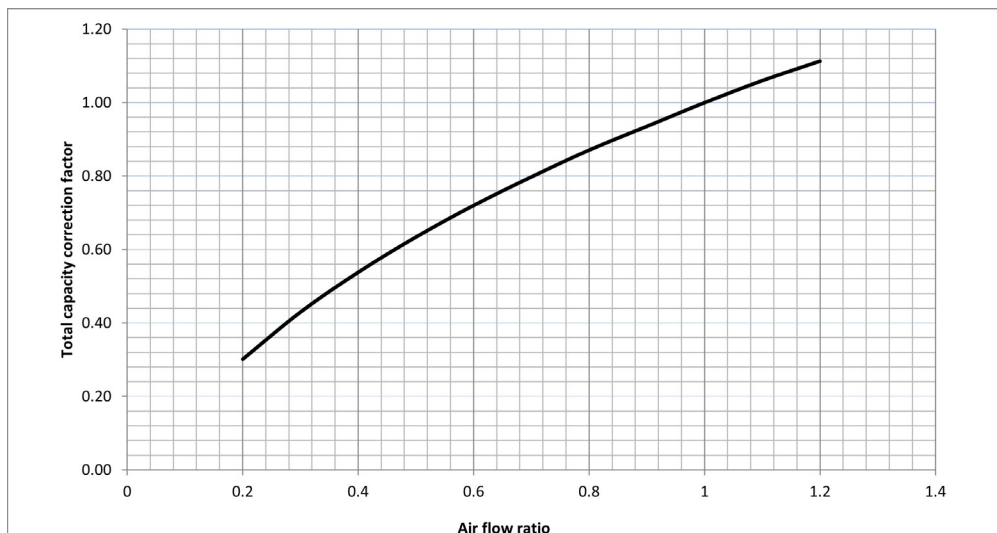
Altitude correction factors

Altitude (m)	CF1	CF2
300	0.99	0.96
600	0.98	0.93
900	0.97	0.89
1220	0.96	0.86
1520	0.94	0.83
1830	0.92	0.8

CF1: Total capacity altitude correction factor

CF2: Sensible capacity altitude correction factor

Total and Sensible capacity correction factor



CF3: Total capacity correction factor (based on air flow ratio)

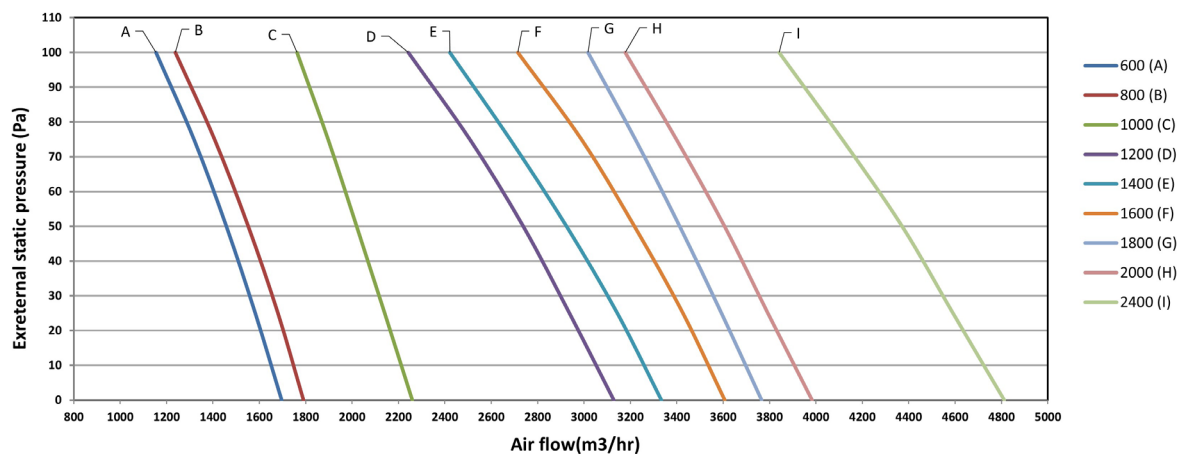
CF4: Sensible capacity correction factor (based on air flow ratio)

ESP (External Static Pressure) Chart

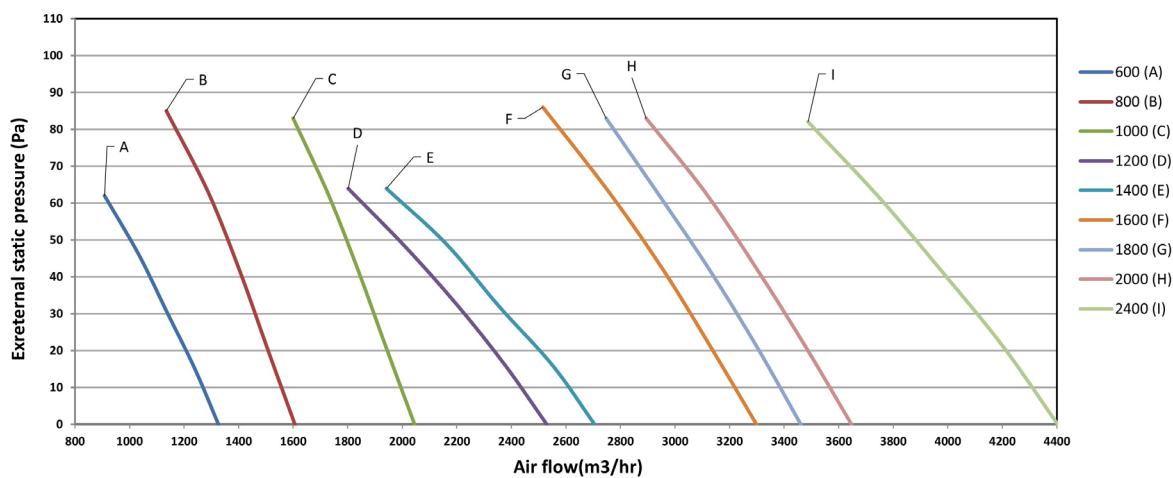
New Series Ducted Fan Coil 2 Pipe

فن کویل کانالی دو لوله سری جدید

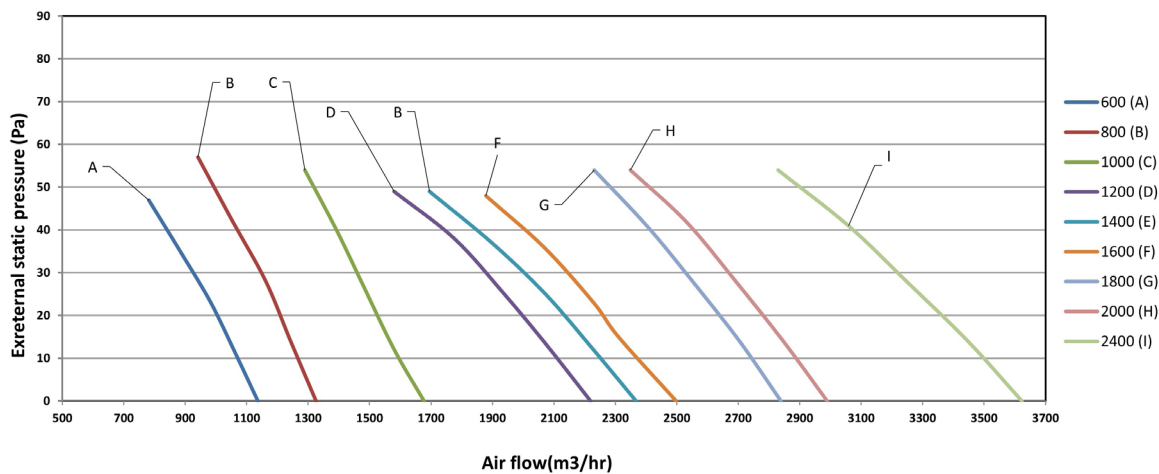
High



Med



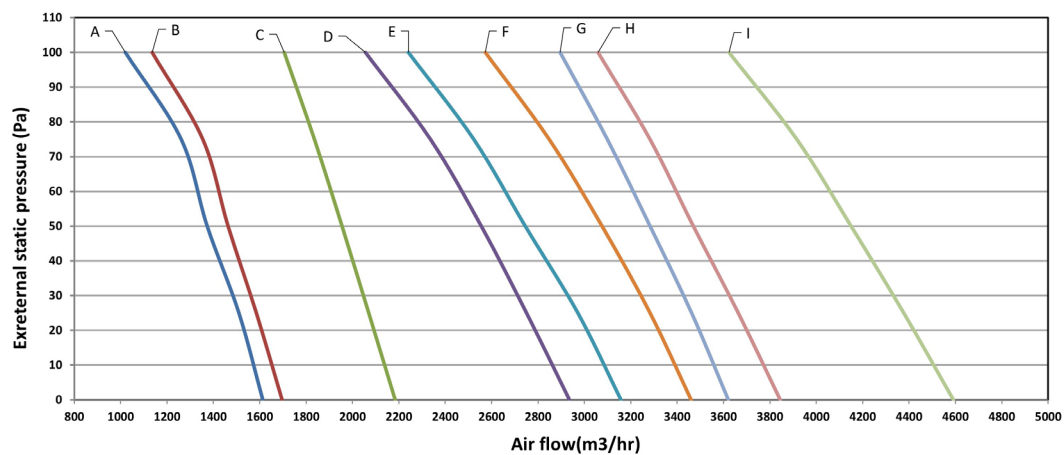
Low



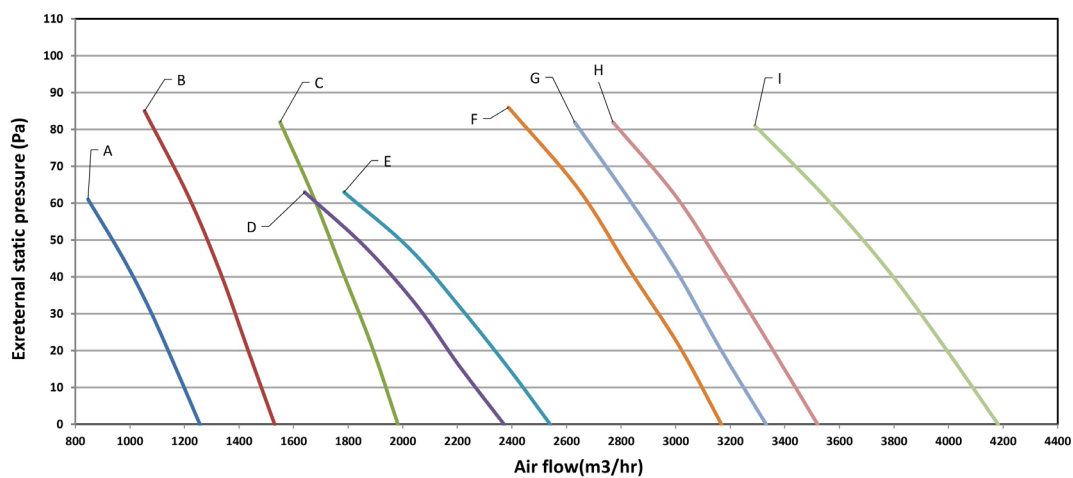
New Series Ducted Fan Coil 4 Pipe

فن کویل کانالی چهار لوله سری جدید

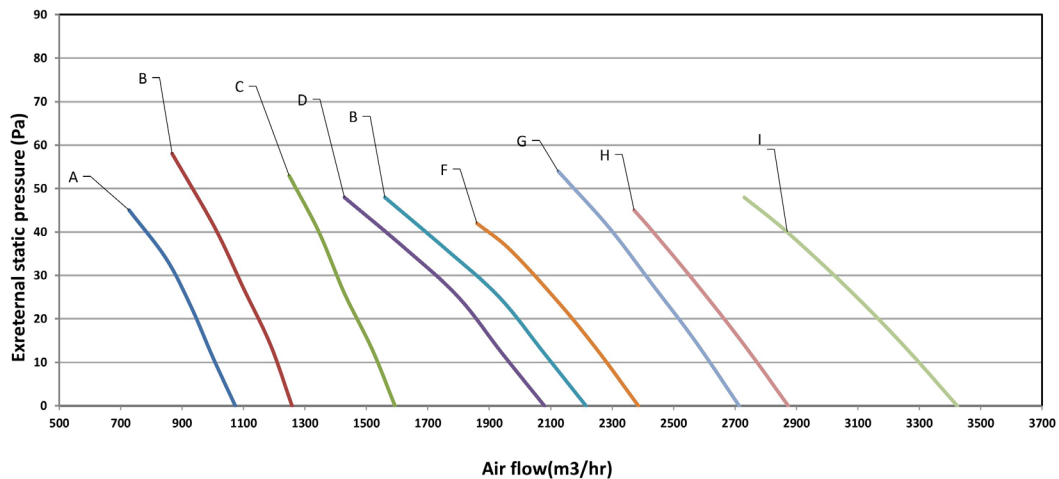
High



Med



Low



New Series Ducted Fan Coil 2 Pipe & 4 pipe

فن کویل کانالی سری جدید
دو لوله و چهار لوله

Model	ADFN-*/M								
	*06	*08	*10	*12	*14	*16	*18	*20	*24
Power Supply (V/PH/Hz)	220/1/50								
Insulation Class	B								
Protection Class	IP20								
Fan Quantity	1	1	1	2	2	2	2	2	3
Operating Current (A)	1.2	1.6	1.8	3.5	3.5	3.8	4	4.8	5.8
Operating Power (w)	120	180	320	320	320	320	450	540	720
max Current (A)	2	2	2	4	4	4	4	4	5.8
max Power (w)	160	160	160	400	400	400	400	400	560

Sound Data

New Series Ducted Fan Coil 2 Pipe

فن کویل کانالی دو لوله سری جدید

Sound Pressure Level [dB(a)]	ESP (Pa)	fan speed	ADFN-*/M								
			*06	*08	*10	*12	*14	*16	*18	*20	*24
	100	high	56	57	62	58	59	60	63	64	64
		med	54	55	58	57	58	59	61	62	60
		low	50	51	54	53	54	55	59	60	56

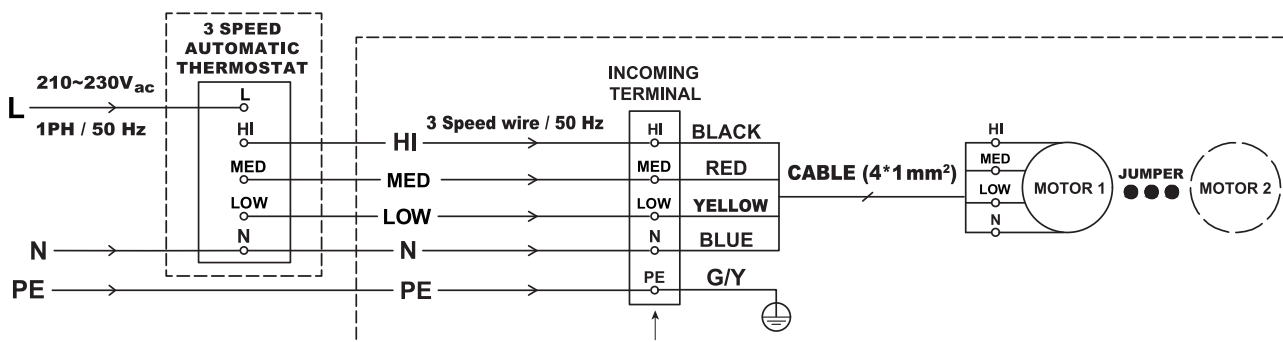
New Series Ducted Fan Coil 4 Pipe

فن کویل کانالی چهار لوله سری جدید

Sound Pressure Level [dB(a)]	ESP (Pa)	fan speed	ADFN-*/M								
			*06	*08	*10	*12	*14	*16	*18	*20	*24
	100	high	56	57	63	65	67	69	73	75	80
		med	51	54	61	59	61	67	70	71	78
		low	47	52	56	56	58	61	67	67	72

Sound pressure level is measured at 1m distance in duct.

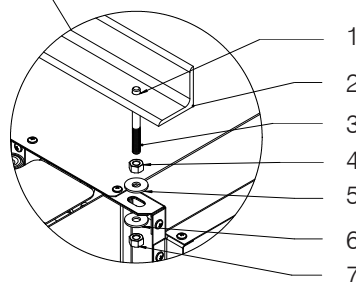
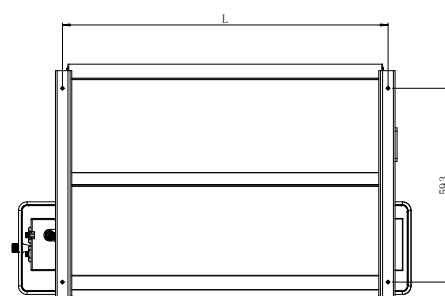
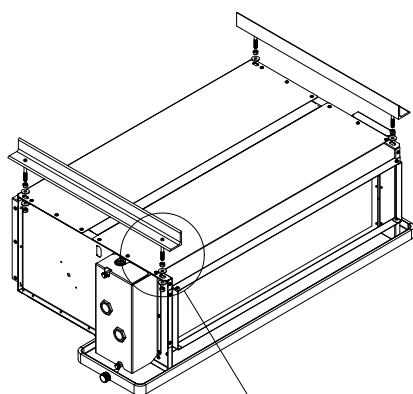
Wiring Diagram



Operating Limit

Operating Limit		
Water Side	Min. Inlet water temperature	5 °C
	Max. Inlet water temperature	85 °C
	Max. water side pressure	12 bar
Air Side	Max. Inlet air Temperature	55 °C
Electrical	Operation Voltage Limit	220±10%

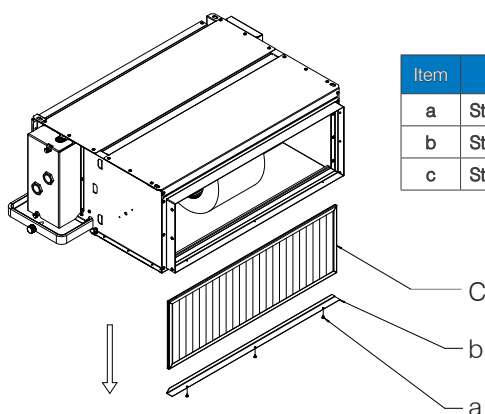
Installation



No	Discription	شرح
1	To be Welded to the angle steel	بوسیله جوش به نبشی متصل شود
2	Angle Steel	نبشی
3	Hanging Rod M8	میلگرد یکسر دنده M8
4	Nut M8	مهره M8
5	Steel Washer	واشر فلزی
6	Steel Washer	واشر فلزی
7	Nut M8	مهره M8

ADFN-/*/M										
Model		*06	*08	*10	*12	*14	*16	*18	*20	*24
L	mm	596	596	886	886	996	1236	1236	1386	1386

جهت تمیز کردن فیلتر مراحل ذیل را دنبال کنید. **Follow the steps below to clean the filter.**



Item	description	شرح
a	Step 1: Unscrew The Frame Screws	مرحله ۱: باز نمودن پیچ نبشی نگهدارنده فیلتر
b	Step 2: Remove The Angle Steel Filter Holder	مرحله ۲: برداشتن نبشی نگهدارنده فیلتر
c	Step 3: Slide Down The Filter To be Removed	مرحله ۳: برداشتن فیلتر بصورت کشویی به سمت پایین

Selection Procedure

Customer Request specification:

Total Cooling Load: 13 kW

Sensible Cooling Load: 8.4 kW

Air Flow Requirement: 1340 cfm

Altitude: 1220 m

External Static Pressure : 40 Pa

Inlet Water Temperature: 7°C

Outlet Water Temperature: 12

Air Inlet Temperature: 27°C

In High Speed

Model Selection

$$Q_{(actual/Total)} = Q_{(table/Total)} \times \text{Correction factors}$$

$$Q_{(actual/Total)} = Q_{(table/Total)} \times CF3 * CF1$$

CF1: Total capacity altitude correction factor

CF3: Total capacity correction factor

and

$$Q_{(actual/Sensible)} = Q_{(table/Sensible)} \times \text{Correction factors}$$

$$Q_{(actual/Sensible)} = Q_{(table/Sensible)} \times CF4 * CF2$$

CF2: Sensible capacity altitude correction factor

CF4: Sensible capacity correction factor

Base on required airflow, choose the higher nominal airflow.

1400 model with 1577 cfm nominal air flow (2681 m³/hr)

find the (ADFN-/14/M) model curve In ESP Chart page (26)

find the actual airflow based on 40 Pa ESP:

3100 m³/hr. equal to 1824 cfm

Note: nominal air flow calculates in 75 Pa ESP and sea level altitude in technical data table at page (11)

calculate the air flow ratio:

$$\text{Air flow ratio: } \frac{cfm_{actual}}{cfm_{nominal}}$$

$$\left(\frac{1824}{1577} \right) = 1.156$$

determine the correction factor for total capacity (CF3) and Sensible Capacity (CF4) at page (25)

CF3=1.08

CF4=1.1

Altitude correction factors for total capacity and Sensible Capacity are available in table (25)

$$CF1=0.96$$

$$CF2=0.86$$

Now we can calculate the actual Total capacity and Sensible Capacity of the selected model:

$$Q_{(actual/Total)} = Q_{(table/Total)} \times CF3 * CF1$$

$$CF3=1.08$$

$$CF1=0.96$$

and

$$Q_{(actual/Sensible)} = Q_{(table/Sensible)} \times CF4 * CF2$$

$$CF4=1.1$$

$$CF2=0.86$$

By referring to performance data Table in page (17) And base on inlet air temperature and inlet/outlet water temperature, find the Total capacity and Sensible Capacity of selected model:

$$Q_{(table/Total)} = 12.66 \text{ kW}$$

$$Q_{(actual/Total)} = 12.66 \times 1.08 \times 0.96 = 13.126$$

$$13.126 \text{ kW} > 13 \text{ kW}$$

$$Q_{(actual/Total)} > Q_{(required/Total)}$$

and

$$Q_{(table/Sensible)} = 9.17 \text{ kW}$$

$$Q_{(actual/Sensible)} = 9.17 \times 1.1 \times 0.86 = 8.67$$

$$8.67 \text{ kW} > 8.4 \text{ kW}$$

$$Q_{(actual/Sensible)} > Q_{(required/Sensible)}$$

So, the selected model satisfies the load requirements.

If the capacity is lower than required capacity, check these steps for a model with higher nominal airflow.

پس از محاسبه نسبت جریان هوا، ضریب تصحیح مناسب برای ظرفیت سرمایشی کل (CF3) و ظرفیت سرمایشی محسوس (CF4) از نمودار صفحه (۲۵) تعیین می‌شود.

$$CF3: 1/0.8$$

$$CF4: 1/1.0$$

ظرایب تصحیح ارتفاع از سطح دریا در جدول صفحه ۲۵ برای ارتفاع‌های متفاوت محاسبه شده است. لذا لازم است مقادیر ظرفیت سرمایشی کل و ظرفیت سرمایشی محسوس بدست آمده با توجه به ارتفاع تصحیح شوند.

$$CF1: 0.96$$

$$CF2: 0.86$$

پس از تعیین ضرایب تصحیح، مقدار ظرفیت کل واقعی و ظرفیت محسوس واقعی، مدل انتخاب شده به دست خواهد آمد:

$$Q_{\text{جدول (کل)}} \times CF3 \times CF1 = Q_{\text{واقعی (کل)}}$$

$$CF3: 1/0.8$$

$$CF1: 0.96$$

و

$$Q_{\text{جدول (محسوس)}} \times CF4 \times CF2 = Q_{\text{واقعی (محسوس)}}$$

$$CF4: 1/1.0$$

$$CF2: 0.86$$

با مراجعه به جدول داده‌های عملکرد در صفحه (۱۷) و بر اساس دمای هوای ورودی و دمای آب ورودی و خروجی، ظرفیت سرمایشی کل و ظرفیت سرمایشی محسوس، مدل انتخاب شده را پیدا کنید.

$$Q_{\text{جدول (کل)}} = 12.66 \text{ kW}$$

$$Q_{\text{واقعی (کل)}} = 12.66 \times 1/0.8 \times 0.96$$

$$Q_{\text{واقعی (کل)}} = 13.126 \text{ kW}$$

$$13.126 \text{ kW} > 13 \text{ kW}$$

$$Q_{\text{درخواستی (کل)}} > Q_{\text{واقعی (کل)}}$$

$$Q_{\text{جدول (محسوس)}} = 9.17 \text{ kW}$$

$$Q_{\text{واقعی (محسوس)}} = 9.17 \times 1/1.0 \times 0.86$$

$$Q_{\text{جدول (محسوس)}} = 8.67 \text{ kW}$$

$$8.67 \text{ kW} > 8.4 \text{ kW}$$

$$Q_{\text{درخواستی (محسوس)}} > Q_{\text{واقعی (محسوس)}}$$

بنابراین مدل انتخاب شده توانایی تامین سرمایش مورد نیاز را دارد. اگر ظرفیت کمتر از حد مورد نیاز است، این مراحل را برای مدل با جریان هوای اسمی بالاتر بررسی کنید.

مشخصات درخواستی مشتری

بار کل سرمایشی : ۱۳ کیلووات
 بار محسوس سرمایشی : ۸.۴ کیلووات
 هوادهی مورد نیاز: ۱۳۴۰ CFM
 ارتفاع از سطح دریا: ۱۲۲۰ متر
 افت فشار استاتیکی خارجی: ۴۰ پاسکال
 دمای ورودی آب: ۷ درجه سانتی گراد
 دمای خروجی آب: ۱۲ درجه سانتی گراد
 دمای هوای ورودی: ۲۷ درجه سانتی گراد
 سرعت در دور تند

انتخاب فن کویل

$$Q_{\text{ضرایب تصحیح}} \times Q_{\text{جدول (کل)}} = Q_{\text{واقعی (کل)}}$$

$$Q_{\text{واقعی (کل)}} = Q_{\text{جدول (کل)}} \times CF1 \times CF3$$

CF1: ضریب اصلاح ارتفاع برای بار کل سرمایشی

CF3: ضریب اصلاح افت فشار خارجی برای بار کل سرمایشی

$$Q_{\text{ضرایب تصحیح}} \times Q_{\text{جدول (محسوس)}} = Q_{\text{واقعی (محسوس)}}$$

$$Q_{\text{واقعی (محسوس)}} = Q_{\text{جدول (محسوس)}} \times CF2 \times CF4$$

CF2: ضریب اصلاح ارتفاع برای بار محسوس سرمایشی

CF4: ضریب اصلاح افت فشار خارجی برای بار محسوس سرمایشی

ابتدا بر اساس هوادهی مورد نیاز، هوادهی اسمی بالاتر انتخاب می‌شود:

مدل ۱۴۰۰ با میزان هوادهی اسمی $2681 \text{ m}^3/\text{hr}$ می‌باشد که برابر است با ۱۵۷۷ CFM

از نمودار افت فشار خارجی بر حسب هوادهی صفحه (۲۶)، هوادهی واقعی فن کویل مدل (ADFN-14/M) در فشار استاتیکی مورد نظر (۴۰ pa) به دست می‌آید:

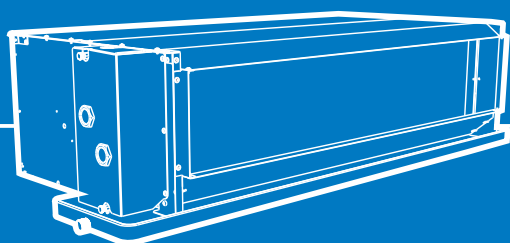
$3100 \text{ m}^3/\text{hr}$. معادل ۱۸۲۴ CFM

نکته: اشاره می‌گردد شرایط اسمی، هوادهی در ۷۵ پاسکال فشار خارجی و ارتفاع سطح دریا می‌باشد که در جداول Technical data صفحه (۱۱) موجود می‌باشد.

حال می‌توان نسبت هوادهی واقعی به هوادهی اسمی را محاسبه کرد:

$$\text{نسبت جریان هوا: } \frac{\text{واقعی cfm}}{\text{اسمی cfm}}$$

$$\frac{1824}{1577} = 1.156$$



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"شرکت اروند این حق را برای خود محفوظ می دارد که در هر زمانی و بدون اطلاع قبلی، در طراحی و ساخت هر محصولی تجدید نظر نموده و تغییراتی ایجاد کند."
"ARVAND Co. reserves the right to revise and make changes in design and construction of any product at any time without notice."