

4-Way Cassette Fan Coil Unit



AFP:

Cassette-type indoor installation

Cooling and Heating

Cooling Capacity from 1.8 to 17.6kW

Heating Capacity from 2.5 to 33kW

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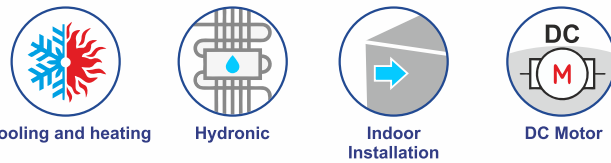
Unit Description
4-Way Cassette Fan Coil Unit

The new 4-way Cassette fan coils manufactured by Yekta Tahviah Arvand, are designed to be used in cell ceiling. Air flow covered by this type of fan coils is ranging from 300 to 1600 CFM. The product can provide 1.8-17.6 kW cooling capacity and 2.5-33 kW heating capacity. They are designed for residential and commercial application. 3 speed fans provide additional functionalities to control the cooling and heating capacity and to reduce the energy cost incurred by HVAC systems. Low noise fan exploited makes a comfortable environment for residents.

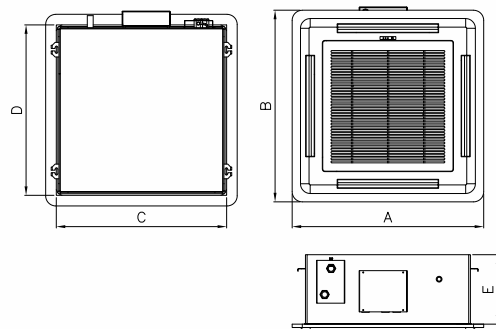
The features listed below are incorporated in the units:

- Four Way cassette panel
- Motor drive air delivery louver
- Pre-stamped hole for fresh air intake
- Build-in drain pump with 70cm head
- Wireless remote controller
- Various control method available
- Valve control function
- Ability to connect to BMS network
- Easily Installed
- Minimum maintenance requirement

Functions and Features



Dimensions and Clearances



Model FP		51NKM4A- 80NKM4A	85LKM4A-162NKM4A	170LKM4A-264NKM4A
Length	mm	650	850	1050
Width	mm	650	850	1050
Height	mm	236	305	290
A1	mm	572	732	940
B1	mm	572	732	940
Weight	kg	19 20 20 20 22	29 29 29 29 31.5	40 40 40 40 43

Technical Data:

High Speed

Model AFP			51NKM 4-A	55NKM 4-A	68NKM 4-A	85SKM 4-A	80NKM 4-A	82LKM4 -A	102NK M4-A	136NK M4-A	170SK M4-A	162NK M4-A	170LKM 4-A	204NK M4-A	238NK M4-A	272NK M4-A	264NK M4-A
Cooling Coil	Nominal Air Flow Rate	m ³ /hr	510	550	680	850	800	850	1020	1360	1700	1620	1700	2040	2380	2720	2635
	Type	#	Fin & Tube														
	qty.	#	1														
	Row/FPI	#/#	2 / 12														
	Cooling Capacity(1)	kW	2.3	3.3	4.1	4.8	5.3	6.1	7.1	8.1	9.0	9.9	9.0	10.8	12.6	14.1	17.6
	Sensible Capacity	kW	1.7	2.3	2.8	3.4	3.6	4.1	4.8	5.6	6.4	6.9	7.2	8.7	10.5	11.6	14.6
Heating Coil	Water Flow Rate	l/h	344	464	619	739	911	774	929	1238	1290	1513	1548	1857	2167	2425	3027
	Water Pressure Drop	mH ₂ O	1.53	1.02	1.33	1.84	2.55	3.47	4.90	1.33	1.53	1.84	2.55	2.96	3.98	5.00	4.69
	Type	#	Fin & Tube														
	qty.	#	1														
Fan	Row/FPI	#/#	2 / 12														
	Heating Capacity(2)	kW	3.6	5.6	6.7	8.0	8.3	9.2	10.8	13.4	15.6	16.4	16.9	20.3	23.6	26.4	33.0
	Water Flow Rate	l/h	344	464	619	739	911	774	929	1238	1290	1513	1548	1857	2167	2425	3027
	Water Pressure Drop	mH ₂ O	1.53	1.02	1.33	1.84	2.55	3.47	4.90	1.33	1.53	1.84	2.55	2.96	3.98	5.00	4.69
Motor	Type	#	Centrifugal														
	qty.	#	1														
Motor	Type	#	AC Motor														
	qty.	#															
	Power Input (3)	W	52	52	62	76	70	75	96	120	152	145	152	189	228	290	280
Electrical	Sound Power Level(4)	dB	47	47	49	54	54	51	53	54	60	58	56	58	60	66	63
	Sound Pressure Level(5)	dBA	39	39	41	46	46	43	45	46	52	50	48	50	52	58	57
Electrical	Power Supply	V/Ph/Hz	220/1/50														

Medium Speed

Model AFP			51NKM 4-A	55NKM 4-A	68NKM 4-A	85SKM 4-A	80NKM 4-A	82LKM4 -A	102NK M4-A	136NK M4-A	170SK M4-A	162NK M4-A	170LKM 4-A	204NK M4-A	238NK M4-A	272NK M4-A	264NK M4-A
Cooling Coil	Nominal Air Flow Rate	m ³ /hr	400	420	540	660	620	700	840	1060	1320	1260	1380	1610	1950	2250	2130
	Type	#	Fin & Tube														
	qty.	#	1														
	Row/FPI	#/#	2 / 12														
	Cooling Capacity(1)	kW	2.1	2.9	3.7	4.3	4.6	5.5	6.3	7.2	8.1	8.8	7.8	9.2	11.1	12.3	15.3
	Sensible Capacity	kW	1.5	2.0	2.5	2.9	3.1	3.6	4.2	4.9	5.6	5.9	6.1	7.3	9.0	10.2	12.4
Heating Coil	Water Flow Rate	l/h	344	464	619	739	911	774	929	1238	1290	1513	1548	1857	2167	2425	3027
	Water Pressure Drop	mH ₂ O	1.53	1.02	1.33	1.84	2.55	3.47	4.90	1.33	1.53	1.84	2.55	2.96	3.98	5.00	4.69
	Type	#	Fin & Tube														
	qty.	#	1														
Fan	Row/FPI	#/#	2 / 12														
	Heating Capacity(2)	kW	3.1	4.6	5.7	6.7	6.8	7.9	9.3	11.2	13.2	13.6	13.6	15.9	19.3	21.8	26.6
	Water Flow Rate	l/h	344	464	619	739	911	774	929	1238	1290	1513	1548	1857	2167	2425	3027
	Water Pressure Drop	mH ₂ O	1.53	1.02	1.33	1.84	2.55	3.47	4.90	1.33	1.53	1.84	2.55	2.96	3.98	5.00	4.69
Motor	Type	#	Centrifugal														
	qty.	#	1														
Motor	Type	#	AC Motor														
	qty.	#															
	Power Input (3)	W	52	52	62	76	70	75	96	120	152	145	152	189	228	290	280
Electrical	Sound Power Level(4)	dB	39	39	45	48	47	44	46	47	54	53	48	53	54	61	60
	Sound Pressure Level(5)	dBA	31	31	37	40	39	36	38	39	46	45	40	45	46	53	52
Electrical	Power Supply	V/Ph/Hz	220/1/50														

Note:

- 1-Cooling rating was based on water temperature (in/out):7°C / 12°C, Inlet air temperature (db/wb): 26.7°C / 19.4°C and 2 Row/ 12 FPI cooling coil. For full Return condition(db/wb):24.0°C / 19.4°C use the correction factor=0.995 to multiply by the table data.
- 2-Heating capacity was based on water temperature inlet temperature: 60°C and inlet air temperature : 21°C; Water flow rate is as the same as for cooling mode.
- 3-Standard motor power are based on nominal air flow in 75mm H₂O total static pressure drop
- 4-Sound power level on the basis measurements made in compliance with ISO 9614 and EUROVENT certified units; in compliance with ISO 3744 for non-certified units.
- 5-Average Sound pressure level, at 10 meter distance.

Low Speed

Model AFP		51NKM 4-A	55NKM 4-A	68NKM 4-A	85SKM 4-A	80NKM 4-A	82LKM4 -A	102NK M4-A	136NK M4-A	170SK M4-A	162NK M4-A	170LKM 4-A	204NK M4-A	238NK M4-A	272NK M4-A	264NK M4-A	
Nominal Air Flow Rate		m ³ /hr	290	310	400	500	470	520	660	820	1010	960	1050	1280	1520	1750	1620
Cooling Coil	Type	#	Fin & Tube														
	qty.	#	1														
	Row/FPI	#/#	2 / 12														
	Cooling Capacity(1)	kW	1.8	2.5	3.1	3.7	3.9	4.5	5.5	6.2	7.1	7.5	6.6	8.1	9.7	10.9	13.8
	Sensible Capacity	kW	1.2	1.6	2.0	2.5	2.5	2.9	3.6	4.1	4.8	5.0	5.0	6.3	7.6	8.9	10.9
	Water Flow Rate	l/h	344	464	619	739	911	774	929	1238	1290	1513	1548	1857	2167	2425	3027
Water Pressure Drop	mH ₂ O	1.53	1.02	1.33	1.84	2.55	3.47	4.90	1.33	1.53	1.84	2.55	2.96	3.98	5.00	4.69	
Heating Coil	Type	#	Fin & Tube														
	qty.	#	1														
	Row/FPI	#/#	2 / 12														
	Heating Capacity(2)	kW	2.5	3.6	4.5	5.4	5.5	6.2	7.6	9.1	10.8	11.0	10.4	12.6	15.0	16.9	20.3
	Water Flow Rate	l/h	344	464	619	739	911	774	929	1238	1290	1513	1548	1857	2167	2425	3027
Water Pressure Drop	mH ₂ O	1.53	1.02	1.33	1.84	2.55	3.47	4.90	1.33	1.53	1.84	2.55	2.96	3.98	5.00	4.69	
Fan	Type	#	Centrifugal														
	qty.	#	1														
Motor	Type	#	AC Motor														
	qty.	#															
	Power Input (3)	W	52	52	62	76	70	75	96	120	152	145	152	189	228	290	280
Sound Power Level(4)		dB	37	47	49	54	54	51	53	54	60	58	56	58	60	66	63
Sound Pressure Level(5)		dBA	29	29	31	33	32	32	34	36	38	38	36	37	339	48	48
Electrical	Power Supply	V/Ph/Hz	220/1/50														

Note:
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 For full Return condition(db/wb):24.0°C / 19.4°C use the correction factor=0.995 to multiply by the table data.
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 3-Standard motor power are based on nominal air flow in 75mm H2O total static pressure drop
 4-Sound power level on the basis measurements made in compliance with ISO 9614 and EUROVENT certified units; in compliance with ISO 3744 for non-certified units.
 5-Average Sound pressure level, at 10 meter distance.

Other Technical Data For All Models	
Coil max. working Pressure	16 bar
Coil tube diameter	1/2" smooth tube
Water inlet/outlet pipe connection	3/4"
Condensate discharge connection	26 mm(outer diameter)