

09MK-HS

Technical Manual / Manuale tecnico

Ducted Fan Coil Units
Ventilconvettori canalizzati



 **MEKAR**[®]
AIR HANDLING UNITS

General Description

MEKAR 09MK HS series fan coil units are characterized for high performances, modern design and robust construction. Entire materials and components passes high internal quality checks during manufacturing process. These units are precisely engineered toward achieving economical operation and easy installation. Units are designed for high static, low noise, long life trouble free operation and allows easy maintenance.



Flexibility

- ◆ A wide choice of airflow and coil surfaces permit range of cooling capacity selection.
- ◆ The units are convertible to double skin and exposed type units.
- ◆ EC motors available as option.
- ◆ Options available for standard and district cooling applications.
- ◆ Easy to use computerized selection software.

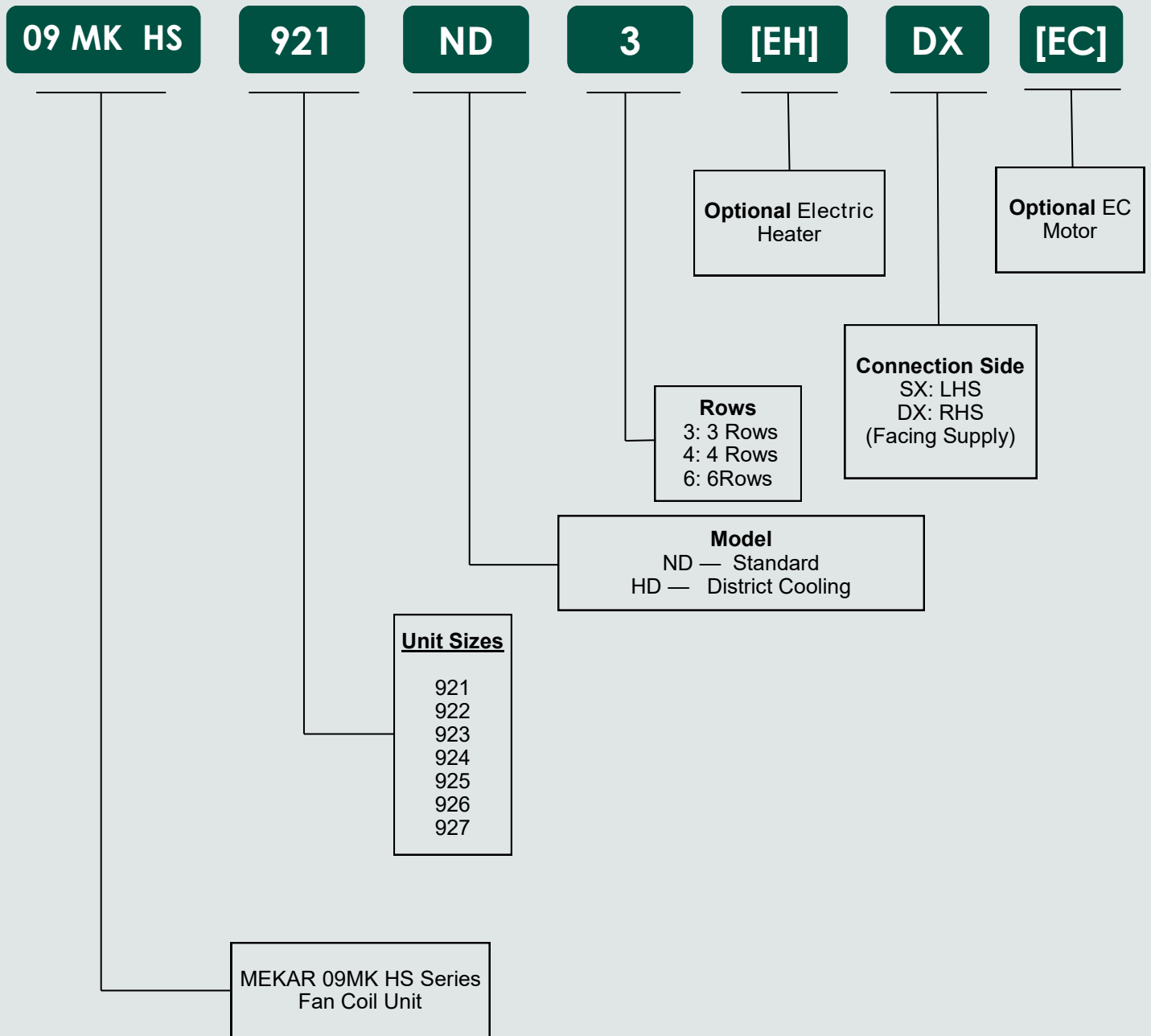
Applications :

- ◆ Residences
- ◆ Offices
- ◆ Shopping Malls
- ◆ Palaces
- ◆ Mosques
- ◆ Schools
- ◆ Hospitals
- ◆ High rise building
- ◆ Hotel, Restaurants and etc

09MK HS

Ducted Fan Coil Unit

Nomenclature



				
Cooling-heating	Indoor Inst.	Horizontal inst.	Refrig. Water	Group Control

09MK HS

Ducted Fan Coil Unit

Product Specification

Casing



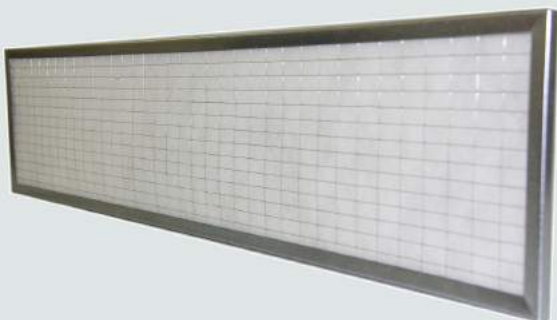
Robust encapsulated construction, casing made of high quality galvanized steel sheet. The internal casing is completely insulated with 10mm Class –1 thermal and acoustic insulation. Double skin casing available as option with injected polyurethane or mineral wool insulation.

Heat Exchangers

Coils are made of seamless plain copper tubes, mechanically expanded into corrugated aluminum fins. Tubes are made of high quality copper and circuited in counter current flow arrangement. The coil headers are made of copper and brazed to BSP male threaded brass adapter for quick connection. The header and “U” bends are enclosed inside the casing. Each coil is fitted with a manual air vent and drain plug. Coils are pressure tested for 25 bar immersed in water. Available with 3,4 & 6 Rows option .



Air Filters



Units are equipped with 22mm G3 grade efficiency synthetic washable filter as standard. The Filter frame is made of galvanized steel and filter media is enclosed by galvanized steel mesh on both sides. The filters are easy withdrawal from back and bottom. Other filter

09MK HS

Ducted Fan Coil Unit

Product Specification

Fans



Mekar 09MK HS units are fitted with high efficiency, low noise forward curved direct driven centrifugal DIDW Fans. Impellers and scroll are made of high grade galvanized steel. Fans are statically and dynamically balanced. Fan assembly is easily removable for maintenance..

Motors

Highly efficient, 3-speed, Permanent Split-Capacitor motors are standard. All the motor are suitable for operating at 220/240 V, Single phase, 50 / 60 Hz and motors are equipped with inbuilt automatic reset thermal-overload protection. Motor terminal wires are enclosed inside conduit to provide protection against damage and terminated to terminal box externally. Motors are fitted with permanently lubricated bearings. Motors are isolated with the rubber rings mount to avoid vibration.

PSC Motor



EC Motor



BLDC Electronically Commutated (EC) Motors with permanent magnet. Mekar EC motor are super energy efficient with extended motor life. Variable speed control through 0-10 V DC. All motor are suitable for operating at single phase 220/240 Volts AC 50/60Hz.

Drain Pan

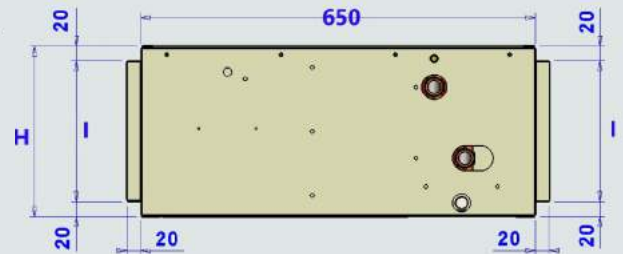
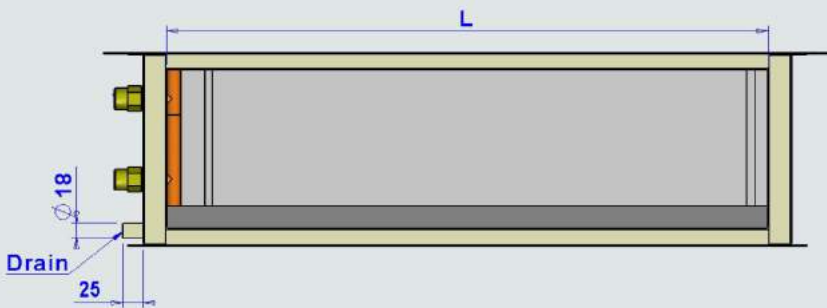
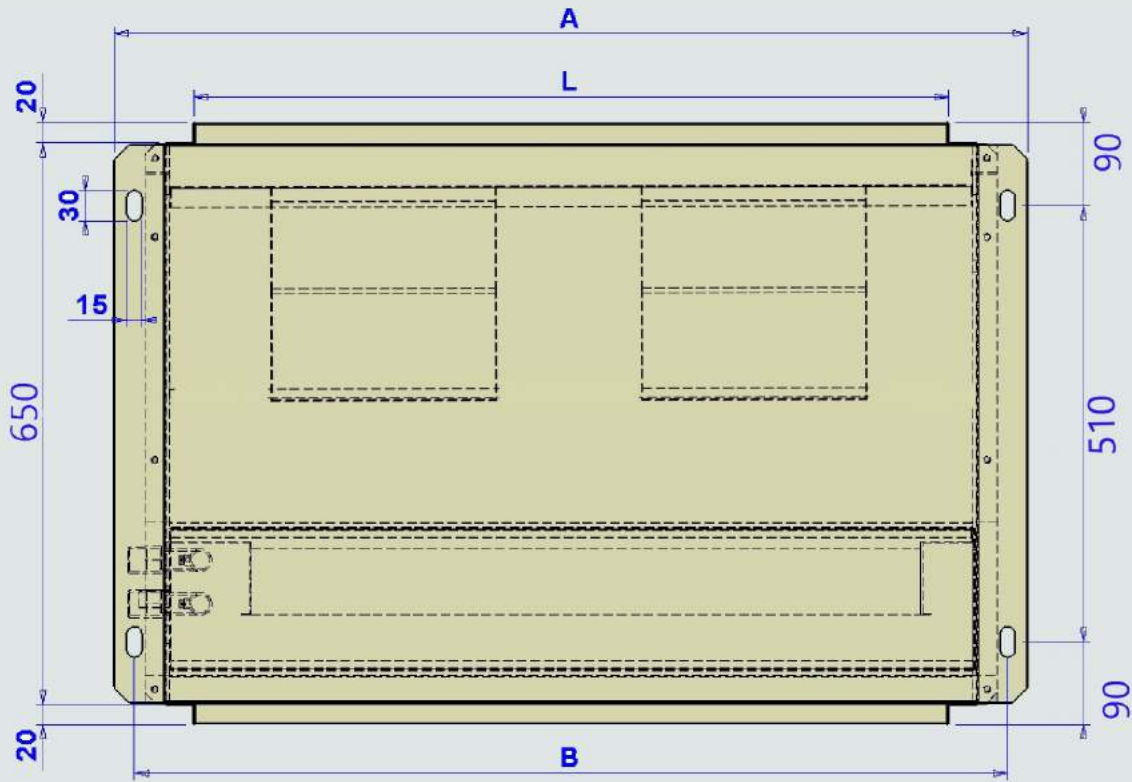


Internally slopped drain pan with hygienic arrangement. The drain pan is made of hot dip galvanized steel with anti corrosion protection coating on top and externally insulated with 6mm thick insulation. Easy removal drain pan for maintenance. Optional stainless steel drain pan available on request.

09MK HS

Ducted Fan Coil Unit

Unit Dimensions



Model	L	A	B	H	I
09MK HD 921	894	1014	974	275	235
09MK HD 922	1054	1174	1134	275	235
09MK HD 923	1054	1174	1134	325	285
09MK HD 924	1214	1334	1294	325	285
09MK HD 925	1214	1334	1294	385	345
09MK HD 926	1374	1494	1454	385	345
09MK HD 927	1534	1654	1614	385	345

*All dimension in mm

09MK HS

Ducted Fan Coil Unit

Technical Data

Model 09MK HS		921	922	923	924
Air Flow (Nominal)	m ³ /hr	1415	1872	2163	2874
Total Capacity	kW	6.89	8.84	10.69	13.32
Water Flow Rate	l/h	0.33	0.42	0.51	0.64
Water Pressure Drop	kPa	16.70	18.82	31.25	24.57
Coil Parameters					
Fins		Corrugated Plain Aluminum			
Tube		3/8 inch Plain Seamless Copper Tube			
Face Area	Sq.m	0.2	0.24	0.288	0.336
Connection Size		3/4" Male BSP			
Fan					
Type		Centrifugal Forward Curved– Direct driven			
No. of Fans	Nos	2	2	2	2
Motor					
Type		3 Speed PSC Motor			
No. of Motor	Nos	1	1	1	1
Max Power Input	Watts	286	330	396	572

Model 09MK HS		925	926	927
Air Flow (Nominal)	m ³ /hr	3334	3552	4024
Total Capacity	kW	15.26	17.06	19.06
Water Flow Rate	l/s	0.73	0.81	0.91
Water Pressure Drop	kPa	20.15	27.67	23.37
Coil Parameters				
Fins		Corrugated Plain Aluminum		
Tube		3/8 inch Plain Seamless Copper Tube		
Face Area	Sq.m	0.392	0.448	0.504
Connection Size				
Fan				
Type		Centrifugal Forward Curved– Direct driven		
No. of Fans	Nos	2	2	2
Motor				
Type		3 Speed PSC Motor		
No. of Motor	Nos	1	1	1
Max Power Input	Watts	660	725	835

Performance based on following Condition:

Fan Speed : High
 ESP: 0 Pa
 220V/1Ph/50Hz

Coil Rows : 4
 Entering Air : 24C DB/18°C WB
 Chilled Water : 7°C IN / 12°C OUT

09MK HS

Ducted Fan Coil Unit

Performance Data

3 Row Standard ND

Model	Speed	ESP Pa	Air Flow m ³ /h	Cooling Capacity		Air Off Temp	Water Flow l/h	Water Pressure Drop kPa
				Total	Sensible	DB/WB		
				kW	kW	°C		
09MK HS 921	High	0	1492.73	6.02	4.35	15.25/13.67	0.29	18.21
		25	1442.86	5.89	4.25	15.15/13.61	0.28	17.53
		50	1395.40	5.76	4.16	15.06/13.55	0.28	16.89
		75	1284.07	5.46	3.92	14.83/13.42	0.26	15.38
		100	1171.77	5.13	3.68	14.57/13.26	0.25	13.85
	Medium	0	1461.24	5.94	4.29	15.19/13.63	0.28	17.78
		25	1398.81	5.77	4.16	15.07/13.56	0.28	16.93
		50	1338.04	5.61	4.04	14.94/13.48	0.27	16.11
		75	1234.45	5.32	3.82	14.72/13.35	0.25	14.70
		100	1131.65	5.01	3.59	14.47/13.20	0.24	13.30
	Low	0	825.99	4.02	2.85	13.63/12.68	0.19	9.15
		25	761.15	3.79	2.68	13.42/12.54	0.18	8.27
		50	697.69	3.55	2.51	13.20/12.40	0.17	7.42
		75	599.28	3.17	2.23	12.84/12.16	0.15	6.12
		100	502.31	2.76	1.93	12.45/11.90	0.13	4.86
09MK HS 922	High	0	1980.99	7.64	5.56	15.58/13.88	0.36	17.97
		25	1866.49	7.35	5.34	15.41/13.78	0.35	16.84
		50	1753.09	7.06	5.12	15.24/13.67	0.34	15.71
		75	1612.64	6.69	4.83	15.00/13.54	0.32	14.31
		100	1474.32	6.30	4.54	14.75/13.39	0.30	12.93
	Medium	0	1920.45	7.49	5.44	15.49/13.82	0.36	17.37
		25	1783.68	7.14	5.18	15.28/13.70	0.34	16.02
		50	1647.33	6.78	4.91	15.06/13.57	0.32	14.66
		75	1501.58	6.38	4.60	14.80/13.42	0.30	13.20
		100	1357.64	5.96	4.29	14.52/13.25	0.28	11.76
	Low	0	1238.98	5.60	4.01	14.28/13.10	0.27	10.57
		25	1132.64	5.26	3.76	14.04/12.95	0.25	9.51
		50	1028.07	4.91	3.50	13.78/12.79	0.23	8.46
		75	873.56	4.36	3.09	13.37/12.53	0.21	6.93
		100	714.92	3.75	2.64	12.90/12.22	0.18	5.38
09MK HS 923	High	0	2285.50	8.94	6.49	15.47/13.81	0.43	17.31
		25	2184.51	8.68	6.30	15.34/13.74	0.41	16.47
		50	2083.98	8.42	6.10	15.21/13.66	0.40	15.64
		75	1969.94	8.12	5.87	15.05/13.57	0.39	14.69
		100	1853.92	7.80	5.63	14.88/13.47	0.37	13.72
	Medium	0	2236.50	8.82	6.40	15.41/13.78	0.42	16.91
		25	2109.68	8.49	6.15	15.24/13.68	0.41	15.85
		50	1942.65	8.04	5.82	15.01/13.54	0.38	14.46
		75	1890.11	7.90	5.71	14.94/13.50	0.38	14.02
		100	1764.68	7.55	5.44	14.74/13.38	0.36	12.98
	Low	0	1335.44	6.23	4.45	13.99/12.92	0.30	9.38
		25	1238.14	5.90	4.21	13.79/12.80	0.28	8.56
		50	1116.11	5.48	3.89	13.53/12.63	0.26	7.55
		75	971.80	4.94	3.50	13.19/12.41	0.24	6.35
		100	824.48	4.36	3.07	12.81/12.16	0.21	5.15
09MK HS 924	High	0	3018.36	11.67	8.39	15.66/13.86	0.56	32.19
		25	2897.97	11.37	8.17	15.54/13.80	0.54	30.80
		50	2745.38	10.99	7.88	15.38/13.70	0.52	29.04
		75	2600.75	10.62	7.60	15.23/13.61	0.51	27.05
		100	2453.07	10.22	7.30	15.06/13.51	0.49	25.36
	Medium	0	2764.18	11.04	7.91	15.40/13.72	0.53	29.26
		25	2664.59	10.78	7.72	15.30/13.65	0.51	28.10
		50	2539.21	10.45	7.48	15.16/13.57	0.50	26.35
		75	2400.80	10.08	7.20	15.00/13.48	0.48	24.76
		100	2258.01	9.68	6.90	14.82/13.37	0.46	23.11
	Low	0	1490.79	7.29	5.13	13.66/12.65	0.35	14.24
		25	1391.43	6.94	4.88	13.48/12.53	0.33	13.10
		50	1266.06	6.48	4.54	13.23/12.37	0.31	11.67
		75	1136.77	5.99	4.18	12.96/12.19	0.29	10.21
		100	1007.42	5.47	3.80	12.66/11.99	0.26	8.76

Air on Condition : 24°C DB / 18°C WB

Water Condition : 7°C Inlet / 12°C Outlet

09MK HS

Ducted Fan Coil Unit

Performance Data

3 Row Standard ND

Model	Speed	ESP Pa	Air Flow m³/h	Cooling Capacity		Air Off Temp	Water Flow l/h	Water Pressure Drop kPa
				Total	Sensible	DB/WB		
				kW	kW	°C		
09MK HS 925	High	0	3501.62	13.18	9.59	15.78/13.98	0.63	21.25
		25	3369.57	12.87	9.35	15.67/13.92	0.61	20.40
		50	3202.63	12.46	9.04	15.53/13.84	0.60	19.31
		75	3036.81	12.04	8.72	15.37/13.75	0.58	18.23
		100	2869.30	11.61	8.40	15.21/13.65	0.55	17.13
	Medium	0	3375.44	12.88	9.36	15.67/13.92	0.62	20.44
		25	3249.17	12.57	9.13	15.57/13.86	0.60	19.62
		50	3090.02	12.18	8.83	15.42/13.78	0.58	18.58
		75	2919.34	11.74	8.50	15.26/13.68	0.56	17.46
		100	2744.54	11.28	8.15	15.09/13.58	0.54	16.31
	Low	0	1953.84	8.97	6.41	14.15/13.01	0.43	11.07
		25	1854.78	8.65	6.17	14.01/12.93	0.41	10.42
		50	1729.22	8.23	5.86	13.83/12.81	0.39	9.59
		75	1609.89	7.82	5.55	13.64/12.69	0.37	8.80
		100	1487.44	7.38	5.23	13.44/12.57	0.35	7.99
09MK HS 926	High	0	3730.08	14.83	10.63	15.44/13.74	0.71	30.30
		25	3608.22	14.52	10.40	15.35/13.68	0.69	29.22
		50	3454.94	14.12	10.10	15.22/13.61	0.67	27.22
		75	3283.94	13.66	9.76	15.07/13.52	0.65	25.74
		100	3109.58	13.19	9.41	14.92/13.43	0.63	24.23
	Medium	0	3546.34	14.36	10.28	15.30/13.65	0.69	28.67
		25	3420.74	14.03	10.04	15.19/13.59	0.67	26.93
		50	3261.31	13.60	9.72	15.05/13.51	0.65	25.55
		75	3114.68	13.20	9.42	14.92/13.43	0.63	24.27
		100	2963.66	12.78	9.10	14.78/13.34	0.61	22.96
	Low	0	1978.95	9.69	6.82	13.65/12.65	0.46	14.36
		25	1875.98	9.33	6.55	13.51/12.55	0.45	13.47
		50	1745.70	8.85	6.21	13.32/12.43	0.42	12.34
		75	1619.01	8.38	5.86	13.13/12.30	0.40	11.25
		100	1492.11	7.89	5.51	12.92/12.17	0.38	10.17
09MK HS 927	High	0	4225.60	16.39	11.87	15.57/13.85	0.78	21.94
		25	4104.98	16.09	11.64	15.49/13.80	0.77	21.27
		50	3952.54	15.71	11.35	15.38/13.74	0.75	20.42
		75	3800.41	15.32	11.06	15.27/13.67	0.73	19.57
		100	3647.53	14.91	10.75	15.15/13.60	0.71	18.71
	Medium	0	4047.36	15.95	11.53	15.45/13.78	0.76	20.95
		25	3928.91	15.65	11.31	15.36/13.73	0.75	20.29
		50	3779.35	15.26	11.01	15.25/13.66	0.73	19.45
		75	3625.00	14.85	10.71	15.13/13.59	0.71	18.58
		100	3467.34	14.43	10.39	15.01/13.52	0.69	17.69
	Low	0	2190.27	10.54	7.48	13.75/12.75	0.50	10.45
		25	2098.57	10.22	7.24	13.64/12.68	0.49	9.93
		50	1982.74	9.81	6.94	13.49/12.58	0.47	9.27
		75	1863.14	9.37	6.62	13.33/12.48	0.45	8.60
		100	1739.19	8.91	6.28	13.16/12.37	0.43	7.90

09MK HS

Ducted Fan Coil Unit

Performance Data

4 Row Standard ND

Model	Speed	ESP Pa	Air Flow m³/h	Cooling Capacity		Air Off Temp	Water Flow l/h	Water Pressure Drop kPa
				Total	Sensible	DB/WB		
				kW	kW	°C		
09MK HS 921	High	0	1415.52	6.89	4.87	13.68/12.68	0.33	16.70
		25	1375.86	6.75	4.77	13.60/12.63	0.32	16.14
		50	1328.32	6.58	4.64	13.51/12.57	0.31	15.47
		75	1223.09	6.21	4.36	13.29/12.43	0.30	13.99
		100	1116.03	5.81	4.07	13.05/12.27	0.28	12.50
	Medium	0	1383.86	6.78	4.79	13.62/12.64	0.32	16.26
		25	1334.38	6.60	4.66	13.52/12.58	0.32	15.56
		50	1273.53	6.39	4.50	13.39/12.50	0.31	14.70
		75	1175.97	6.03	4.24	13.18/12.36	0.29	13.33
		100	1078.35	5.66	3.97	12.96/12.21	0.27	11.98
	Low	0	778.53	4.42	3.07	12.18/11.68	0.21	7.89
		25	727.18	4.19	2.90	12.03/11.57	0.20	7.21
		50	663.61	3.90	2.69	11.84/11.43	0.19	6.38
		75	570.82	3.45	2.37	11.54/11.22	0.16	5.20
		100	477.72	2.97	2.03	11.24/10.99	0.14	4.05
09MK HS 922	High	0	1872.19	8.84	6.27	13.95/12.85	0.42	18.82
		25	1781.66	8.54	6.05	13.81/12.77	0.41	17.75
		50	1668.05	8.16	5.76	13.63/12.65	0.39	16.41
		75	1535.56	7.70	5.42	13.40/12.51	0.37	14.85
		100	1400.50	7.20	5.06	13.16/12.35	0.34	13.26
	Medium	0	1811.63	8.64	6.12	13.85/12.80	0.41	18.10
		25	1703.60	8.28	5.85	13.68/12.69	0.40	16.82
		50	1567.00	7.81	5.50	13.46/12.54	0.37	15.22
		75	1429.54	7.31	5.14	13.21/12.38	0.35	13.60
		100	1287.62	6.77	4.74	12.94/12.20	0.32	11.95
	Low	0	1166.63	6.29	4.39	12.70/12.03	0.30	10.56
		25	1082.44	5.95	4.14	12.52/11.91	0.28	9.59
		50	977.81	5.50	3.82	12.28/11.75	0.26	8.41
		75	833.20	4.85	3.35	11.93/11.50	0.23	6.81
		100	685.94	4.15	2.85	11.54/11.22	0.20	5.24
09MK HS 923	High	0	2163.86	10.69	7.47	13.64/12.59	0.51	31.25
		25	2084.07	10.41	7.27	13.53/12.52	0.50	29.87
		50	1983.38	10.06	7.01	13.39/12.43	0.48	28.15
		75	1876.09	9.67	6.73	13.24/12.33	0.46	26.31
		100	1763.62	9.25	6.42	13.07/12.22	0.44	24.39
	Medium	0	2130.00	10.57	7.38	13.59/12.56	0.50	30.66
		25	2009.22	10.15	7.08	13.43/12.46	0.48	28.59
		50	1850.06	9.57	6.66	13.20/12.31	0.46	25.86
		75	1799.17	9.38	6.52	13.12/12.26	0.45	25.00
		100	1675.53	8.91	6.18	12.93/12.13	0.43	22.89
	Low	0	1271.85	7.26	4.99	12.22/11.64	0.35	16.15
		25	1179.18	6.86	4.70	12.04/11.51	0.33	14.64
		50	1062.96	6.33	4.32	11.80/11.34	0.30	12.77
		75	925.52	5.67	3.85	11.50/11.12	0.27	10.62
		100	785.16	4.96	3.36	11.16/10.87	0.24	8.48
09MK HS 924	High	0	2874.63	13.32	9.43	14.15/12.96	0.64	24.57
		25	2759.97	12.95	9.16	14.03/12.89	0.62	23.43
		50	2614.58	12.48	8.81	13.88/12.79	0.60	22.00
		75	2476.14	12.02	8.47	13.73/12.70	0.57	20.63
		100	2331.98	11.53	8.11	13.56/12.59	0.55	19.21
	Medium	0	2632.55	12.54	8.86	13.90/12.80	0.60	22.17
		25	2537.70	12.23	8.63	13.80/12.74	0.58	21.24
		50	2418.32	11.82	8.33	13.66/12.65	0.56	20.06
		75	2286.73	11.37	7.99	13.51/12.55	0.54	18.76
		100	2151.90	10.89	7.64	13.34/12.45	0.52	17.44
	Low	0	1419.80	8.00	5.54	12.29/11.73	0.38	10.37
		25	1325.17	7.59	5.24	12.13/11.62	0.36	9.48
		50	1205.71	7.05	4.85	11.92/11.47	0.34	8.38
		75	1081.95	6.47	4.44	11.69/11.31	0.31	7.26
		100	955.59	5.85	4.00	11.45/11.13	0.28	6.13

Air on Condition : 24°C DB / 18°C WB

Water Condition : 7°C Inlet / 12°C Outlet

09MK HS

Ducted Fan Coil Unit

Performance Data

4 Row Standard ND

Model	Speed	ESP Pa	Air Flow m³/h	Cooling Capacity		Air Off Temp	Water Flow l/h	Water Pres- sure Drop kPa
				Total	Sensible	DB/WB		
				kW	kW	°C		
09MK HS 925	High	0	3334.87	15.26	10.87	14.21/13.03	0.73	20.15
		25	3209.12	14.87	10.58	14.10/12.96	0.71	19.28
		50	3050.14	14.36	10.20	13.96/12.87	0.69	18.18
		75	2892.36	13.84	9.81	13.81/12.78	0.66	17.08
		100	2733.62	13.31	9.41	13.66/12.68	0.64	15.99
	Medium	0	3214.71	14.89	10.59	14.11/12.96	0.71	19.32
		25	3094.45	14.50	10.30	14.00/12.90	0.69	18.48
		50	2942.93	14.01	9.94	13.86/12.81	0.67	17.43
		75	2780.92	13.47	9.53	13.71/12.71	0.64	16.31
		100	2617.21	12.90	9.12	13.54/12.60	0.62	15.18
	Low	0	1860.80	10.06	7.02	12.67/12.02	0.48	10.01
		25	1766.46	9.67	6.74	12.54/11.94	0.46	9.37
		50	1646.91	9.16	6.38	12.38/11.82	0.44	8.58
		75	1533.55	8.67	6.02	12.22/11.71	0.41	7.83
		100	1418.43	8.16	5.65	12.05/11.59	0.39	7.07
09MK HS 926	High	0	3552.46	17.06	12.00	13.86/12.76	0.81	27.67
		25	3436.40	16.67	11.71	13.77/12.70	0.80	26.62
		50	3290.49	16.18	11.35	13.65/12.62	0.77	25.29
		75	3128.32	15.62	10.94	13.50/12.53	0.75	23.82
		100	2965.78	15.04	10.51	13.36/12.43	0.72	22.35
	Medium	0	3377.46	16.47	11.57	13.72/12.67	0.79	26.08
		25	3257.85	16.07	11.27	13.62/12.60	0.77	24.99
		50	3106.12	15.54	10.88	13.48/12.52	0.74	23.62
		75	2967.57	15.04	10.52	13.36/12.43	0.72	22.36
		100	2829.28	14.54	10.15	13.23/12.35	0.69	21.11
	Low	0	1884.72	10.76	7.41	12.19/11.64	0.51	12.73
		25	1786.65	10.33	7.10	12.07/11.55	0.49	11.88
		50	1662.47	10.24	6.97	11.41/11.07	0.49	11.72
		75	1540.75	9.20	6.29	11.74/11.32	0.44	9.80
		100	1414.43	8.59	5.86	11.55/11.18	0.41	8.75
09MK HS 927	High	0	4024.38	19.06	13.47	13.95/12.84	0.91	23.37
		25	3909.50	18.68	13.19	13.87/12.79	0.89	22.60
		50	3764.34	18.20	12.83	13.76/12.72	0.87	21.63
		75	3619.68	17.71	12.47	13.66/12.65	0.85	20.66
		100	3475.23	17.21	12.10	13.54/12.58	0.82	19.69
	Medium	0	3854.63	18.50	13.06	13.83/12.76	0.88	22.24
		25	3741.81	18.12	12.78	13.75/12.71	0.87	21.48
		50	3599.39	17.64	12.42	13.64/12.64	0.84	20.53
		75	3452.55	17.13	12.05	13.53/12.57	0.82	19.54
		100	3303.16	16.60	11.66	13.40/12.49	0.79	18.54
	Low	0	2085.97	11.82	8.17	12.24/11.70	0.56	10.53
		25	1998.64	11.43	7.89	12.14/11.63	0.55	9.97
		50	1888.33	10.94	7.54	12.01/11.54	0.52	9.27
		75	1774.50	10.41	7.16	11.88/11.44	0.50	8.56
		100	1656.82	9.86	6.77	11.73/11.34	0.47	7.82

09MK HS

Ducted Fan Coil Unit

Performance Data

6 Row Standard ND

Model	Speed	ESP Pa	Air Flow m³/h	Cooling Capacity		Air Off Temp	Water Flow l/h	Water Pressure Drop kPa
				Total	Sensible	DB/WB		
				kW	kW	°C		
09MK HS 921	High	0	1344.75	8.21	5.58	11.55/11.15	0.39	20.67
		25	1307.07	8.03	5.45	11.48/11.10	0.38	19.90
		50	1261.88	7.81	5.29	11.40/11.04	0.37	18.99
		75	1161.68	7.31	4.94	11.22/10.90	0.35	16.98
		100	1058.76	6.79	4.57	11.03/10.75	0.32	14.95
	Medium	0	1314.67	8.07	5.48	11.50/11.11	0.39	20.06
		25	1267.66	7.84	5.31	11.41/11.05	0.37	19.10
		50	1209.86	7.55	5.11	11.31/10.97	0.36	17.94
		75	1117.27	7.09	4.79	11.14/10.84	0.34	16.10
		100	1024.98	6.61	4.45	10.97/10.70	0.32	14.30
	Low	0	739.60	5.03	3.35	10.38/10.24	0.24	9.03
		25	690.82	4.75	3.16	10.28/10.15	0.23	8.18
		50	630.39	4.39	2.91	10.14/10.04	0.21	7.16
		75	541.85	3.84	2.54	9.95/9.87	0.18	5.73
		100	451.36	3.25	2.14	9.76/9.71	0.16	4.35
09MK HS 922	High	0	1778.58	10.45	7.17	11.90/11.44	0.50	17.34
		25	1692.57	10.06	6.89	11.78/11.35	0.48	16.25
		50	1584.64	9.56	6.53	11.63/11.24	0.46	14.90
		75	1458.75	8.95	6.10	11.45/11.10	0.43	13.34
		100	1330.29	8.32	5.65	11.26/10.96	0.40	11.78
	Medium	0	1721.05	10.19	6.98	11.82/11.38	0.49	16.61
		25	1618.42	9.71	6.64	11.68/11.28	0.46	15.32
		50	1488.73	9.10	6.20	11.50/11.14	0.43	13.71
		75	1358.97	8.46	5.75	11.30/10.99	0.40	12.12
		100	1228.26	7.79	5.28	11.10/10.84	0.37	10.56
	Low	0	1108.29	7.16	4.83	10.91/10.68	0.34	9.16
		25	1028.32	6.73	4.53	10.77/10.58	0.32	8.25
		50	928.87	6.18	4.14	10.60/10.44	0.29	7.15
		75	790.91	5.38	3.59	10.37/10.25	0.26	5.68
		100	648.11	4.51	3.00	10.12/10.05	0.22	4.24
09MK HS 923	High	0	2055.67	12.52	8.49	11.60/11.16	0.60	28.30
		25	1979.87	12.16	8.24	11.51/11.10	0.58	26.93
		50	1884.25	11.70	7.91	11.40/11.01	0.56	25.21
		75	1782.64	11.20	7.56	11.27/10.92	0.53	23.40
		100	1677.44	10.67	7.19	11.14/10.82	0.51	21.55
	Medium	0	2023.50	12.37	8.38	11.56/11.14	0.59	27.72
		25	1908.75	11.82	7.99	11.43/11.04	0.56	25.65
		50	1757.48	11.07	7.47	11.24/10.90	0.53	22.96
		75	1708.33	10.82	7.30	11.18/10.85	0.52	22.09
		100	1586.78	10.20	6.86	11.02/10.73	0.49	19.98
	Low	0	1208.26	8.15	5.43	10.50/10.31	0.39	13.68
		25	1120.22	7.65	5.09	10.37/10.21	0.37	12.28
		50	1009.82	7.00	4.64	10.20/10.07	0.33	10.59
		75	879.23	6.21	4.10	10.00/9.90	0.30	8.66
		100	745.85	5.37	3.53	9.79/9.72	0.26	6.80
09MK HS 924	High	0	2730.90	15.98	10.93	11.99/11.46	0.76	27.66
		25	2621.97	15.50	10.58	11.89/11.39	0.74	26.24
		50	2483.94	14.87	10.13	11.76/11.30	0.71	24.46
		75	2353.31	14.26	9.70	11.63/11.20	0.68	22.79
		100	2220.89	13.63	9.25	11.49/11.10	0.65	21.11
	Medium	0	2500.92	14.95	10.19	11.77/11.31	0.71	24.68
		25	2410.82	14.53	9.89	11.68/11.24	0.69	23.52
		50	2297.43	13.99	9.51	11.57/11.16	0.67	22.08
		75	2172.66	13.40	9.09	11.45/11.07	0.64	20.50
		100	2045.81	12.77	8.65	11.31/10.97	0.61	18.92
	Low	0	1348.81	9.08	6.06	10.50/10.33	0.43	10.67
		25	1258.91	8.57	5.71	10.39/10.24	0.41	9.68
		50	1145.37	7.90	5.25	10.24/10.12	0.38	8.46
		75	1027.14	7.18	4.76	10.09/9.99	0.34	7.23
		100	903.84	6.41	4.24	9.93/9.85	0.31	6.00

Air on Condition : 24°C DB / 18°C WB

Water Condition : 7°C Inlet / 12°C Outlet

09MK HS

Ducted Fan Coil Unit

Performance Data

6 Row Standard ND

Model	Speed	ESP Pa	Air Flow m³/h	Cooling Capacity		Air Off Temp	Water Flow l/h	Water Pressure Drop kPa
				Total	Sensible	DB/WB		
				kW	kW	°C		
09MK HS 925	High	0	3168.13	18.49	12.66	12.01/11.49	0.88	25.73
		25	3048.66	17.96	12.28	11.91/11.42	0.86	24.50
		50	2897.65	17.27	11.79	11.79/11.33	0.82	22.94
		75	2747.92	16.58	11.29	11.66/11.24	0.79	21.42
		100	2597.94	15.87	10.79	11.53/11.14	0.76	19.90
	Medium	0	3053.97	17.98	12.29	11.91/11.42	0.86	24.55
		25	2939.73	17.46	11.92	11.82/11.35	0.83	23.37
		50	2795.68	16.80	11.45	11.70/11.27	0.80	21.90
		75	2640.71	16.07	10.93	11.57/11.17	0.77	20.33
		100	2479.82	15.30	10.38	11.43/11.06	0.73	18.72
	Low	0	1767.76	11.63	7.81	10.74/10.53	0.56	11.86
		25	1678.13	11.14	7.46	10.65/10.46	0.53	11.03
		50	1564.59	10.50	7.02	10.53/10.36	0.50	10.01
		75	1457.23	9.88	6.59	10.41/10.27	0.47	9.06
		100	1349.53	9.25	6.16	10.30/10.17	0.44	8.13
09MK HS 926	High	0	3374.83	20.40	13.84	11.69/11.22	0.97	34.54
		25	3264.58	19.88	13.47	11.61/11.16	0.95	33.08
		50	3125.88	19.22	13.01	11.51/11.09	0.92	31.24
		75	2970.93	18.48	12.48	11.39/11.00	0.88	29.22
		100	2812.00	17.69	11.93	11.26/10.91	0.84	27.16
	Medium	0	3208.59	19.62	13.28	11.57/11.13	0.94	32.34
		25	3094.95	19.08	12.90	11.48/11.07	0.91	30.84
		50	2950.77	18.38	12.41	11.37/10.99	0.88	28.95
		75	2818.66	17.73	11.95	11.27/10.91	0.85	27.24
		100	2684.80	17.05	11.48	11.16/10.83	0.81	25.52
	Low	0	1790.48	12.23	8.13	10.37/10.20	0.58	14.63
		25	1697.32	11.69	7.76	10.28/10.13	0.56	13.57
		50	1579.39	10.99	7.28	10.16/10.03	0.52	12.25
		75	1464.23	10.30	6.80	10.05/9.94	0.49	10.99
		100	1346.66	9.57	6.31	9.93/9.84	0.46	9.75
09MK HS 927	High	0	3823.16	22.75	15.51	11.82/11.34	1.09	26.35
		25	3714.03	22.25	15.16	11.75/11.29	1.06	25.38
		50	3575.99	21.60	14.70	11.66/11.23	1.03	24.18
		75	3437.20	20.95	14.23	11.57/11.16	1.00	22.97
		100	3293.02	20.26	13.75	11.47/11.08	0.97	21.72
	Medium	0	3661.90	22.00	14.98	11.72/11.27	1.05	24.93
		25	3554.72	21.50	14.63	11.64/11.22	1.03	23.99
		50	3419.44	20.86	14.17	11.55/11.15	1.00	22.81
		75	3280.09	20.20	13.70	11.46/11.08	0.96	21.61
		100	3138.98	19.51	13.21	11.36/11.00	0.93	20.40
	Low	0	1981.67	13.38	8.93	10.47/10.31	0.64	10.98
		25	1898.71	12.91	8.60	10.40/10.25	0.62	10.35
		50	1793.92	12.30	8.18	10.31/10.17	0.59	9.56
		75	1685.86	11.65	7.74	10.22/10.10	0.56	8.77
		100	1574.48	10.98	7.28	10.12/10.02	0.52	7.96

09MK HS

Ducted Fan Coil Unit

Performance Data

4 Row District Cooling HD

Model	Speed	ESP Pa	Air Flow m³/h	Cooling Capacity		Air Off Temp	Water Flow l/h	Water Pressure Drop kPa
				Total	Sensible	DB/WB		
				kW	kW	°C		
09MK HS 921	High	0	1415.52	6.66	4.76	13.90/12.87	0.18	23.06
		25	1375.86	6.54	4.67	13.81/12.82	0.17	22.32
		50	1328.32	6.38	4.55	13.71/12.75	0.17	21.44
		75	1223.09	6.03	4.29	13.48/12.60	0.16	19.49
		100	1116.03	5.66	4.01	13.22/12.43	0.15	17.50
	Medium	0	1383.86	6.56	4.69	13.83/12.83	0.17	22.47
		25	1334.38	6.40	4.57	13.73/12.76	0.17	21.55
		50	1273.53	6.20	4.41	13.59/12.67	0.16	20.42
		75	1175.97	5.87	4.16	13.37/12.52	0.16	18.61
		100	1078.35	5.53	3.90	13.13/12.36	0.15	16.80
	Low	0	778.53	4.37	3.04	12.28/11.76	0.12	11.28
		25	727.18	4.15	2.88	12.11/11.64	0.11	10.35
		50	663.61	3.87	2.67	11.90/11.48	0.10	9.21
		75	570.82	3.44	2.36	11.57/11.24	0.09	7.56
		100	477.72	2.98	2.03	11.22/10.97	0.08	5.94
09MK HS 922	High	0	1872.19	8.30	6.03	14.33/13.20	0.22	18.53
		25	1781.66	8.03	5.82	14.19/13.11	0.21	17.53
		50	1668.05	7.69	5.55	14.01/12.99	0.20	16.27
		75	1535.56	7.27	5.23	13.78/12.84	0.19	14.79
		100	1400.50	6.82	4.89	13.52/12.67	0.18	13.28
	Medium	0	1811.63	8.12	5.89	14.24/13.14	0.22	17.86
		25	1703.60	7.80	5.64	14.07/13.03	0.21	16.66
		50	1567.00	7.37	5.31	13.83/12.88	0.20	15.14
		75	1429.54	6.92	4.96	13.58/12.71	0.18	13.61
		100	1287.62	6.43	4.59	13.30/12.52	0.17	12.02
	Low	0	1166.63	5.99	4.26	13.04/12.35	0.16	10.68
		25	1082.44	5.68	4.02	12.85/12.22	0.15	9.74
		50	977.81	5.27	3.71	12.60/12.05	0.14	8.59
		75	833.20	4.66	3.26	12.24/11.78	0.12	7.00
		100	685.94	4.00	2.78	11.84/11.50	0.11	5.41
09MK HS 923	High	0	2163.86	10.16	7.24	13.96/12.89	0.27	31.38
		25	2084.07	9.91	7.05	13.85/12.82	0.26	30.07
		50	1983.38	9.59	6.80	13.71/12.72	0.25	28.43
		75	1876.09	9.23	6.53	13.54/12.61	0.24	26.67
		100	1763.62	8.85	6.25	13.37/12.49	0.23	24.82
	Medium	0	2130.00	10.05	7.16	13.91/12.86	0.27	30.83
		25	2009.22	9.67	6.86	13.74/12.74	0.26	28.85
		50	1850.06	9.15	6.47	13.50/12.59	0.24	26.24
		75	1799.17	8.98	6.34	13.42/12.53	0.24	25.41
		100	1675.53	8.55	6.02	13.22/12.39	0.23	23.38
	Low	0	1271.85	7.04	4.89	12.46/11.87	0.19	16.79
		25	1179.18	6.66	4.61	12.27/11.72	0.18	15.30
		50	1062.96	6.17	4.25	12.00/11.53	0.16	13.43
		75	925.52	5.55	3.80	11.67/11.28	0.15	11.26
		100	785.16	4.88	3.32	11.30/11.00	0.13	9.08
09MK HS 924	High	0	2874.63	12.11	8.90	14.71/13.46	0.32	16.61
		25	2759.97	11.79	8.65	14.59/13.39	0.31	15.88
		50	2614.58	11.38	8.33	14.44/13.29	0.30	14.95
		75	2476.14	10.97	8.01	14.29/13.20	0.29	14.06
		100	2331.98	10.54	7.67	14.12/13.09	0.28	13.14
	Medium	0	2632.55	11.43	8.37	14.46/13.31	0.30	15.07
		25	2537.70	11.16	8.15	14.35/13.24	0.30	14.46
		50	2418.32	10.80	7.88	14.22/13.16	0.29	13.69
		75	2286.73	10.40	7.57	14.07/13.06	0.28	12.85
		100	2151.90	9.98	7.24	13.90/12.95	0.26	11.98
	Low	0	1419.80	7.41	5.27	12.85/12.25	0.20	7.27
		25	1325.17	7.03	4.99	12.69/12.14	0.19	6.66
		50	1205.71	6.54	4.62	12.49/12.00	0.17	5.90
		75	1081.95	6.00	4.23	12.27/11.85	0.16	5.11
		100	955.59	5.38	3.79	12.09/11.74	0.14	4.26

Air on Condition : 24°C DB / 18°C WB

Water Condition : 5.5°C Inlet / 14.5°C

09MK HS

Ducted Fan Coil Unit

Performance Data

4 Row District Cooling HD

Model	Speed	ESP Pa	Air Flow m³/h	Cooling Capacity		Air Off Temp	Water Flow l/h	Water Pressure Drop kPa
				Total	Sensible	DB/WB		
				kW	kW	°C		
09MK HS 925	High	0	3334.87	14.07	10.34	14.69/13.45	0.37	16.61
		25	3209.12	13.72	10.07	14.58/13.38	0.36	15.92
		50	3050.14	13.27	9.71	14.44/13.29	0.35	15.05
		75	2892.36	12.81	9.36	14.29/13.20	0.34	14.18
		100	2733.62	12.34	8.98	14.13/13.10	0.33	13.30
	Medium	0	3214.71	13.74	10.08	14.59/13.39	0.36	15.95
		25	3094.45	13.40	9.81	14.48/13.32	0.36	15.29
		50	2942.93	12.96	9.47	14.34/13.23	0.34	14.46
		75	2780.92	12.48	9.10	14.18/13.13	0.33	13.57
		100	2617.21	11.98	8.71	14.01/13.03	0.32	12.66
	Low	0	1860.80	9.42	6.74	13.13/12.44	0.25	8.46
		25	1766.46	9.07	6.47	13.00/12.36	0.24	7.94
		50	1646.91	8.60	6.13	12.83/12.24	0.23	7.28
		75	1533.55	8.15	5.79	12.67/12.13	0.22	6.65
		100	1418.43	7.67	5.43	12.50/12.01	0.20	6.02
09MK HS 926	High	0	3552.46	15.93	11.50	14.28/13.14	0.42	23.37
		25	3436.40	15.59	11.23	14.19/13.08	0.41	22.52
		50	3290.49	15.15	10.89	14.06/13.00	0.40	21.45
		75	3128.32	14.64	10.51	13.92/12.90	0.39	20.26
		100	2965.78	14.13	10.11	13.76/12.80	0.37	19.07
	Medium	0	3377.46	15.41	11.10	14.14/13.04	0.41	22.09
		25	3257.85	15.05	10.82	14.03/12.98	0.40	21.21
		50	3106.12	14.57	10.45	13.90/12.89	0.39	20.10
		75	2967.57	14.13	10.12	13.77/12.80	0.37	19.08
		100	2829.28	13.68	9.77	13.63/12.72	0.36	18.06
	Low	0	1884.72	10.26	7.19	12.55/11.97	0.27	11.12
		25	1786.65	9.86	6.89	12.42/11.88	0.26	10.41
		50	1662.47	9.34	6.51	12.24/11.76	0.25	9.51
		75	1540.75	8.82	6.12	12.07/11.63	0.23	8.64
		100	1414.43	8.25	5.71	11.88/11.49	0.22	7.73
09MK HS 927	High	0	4024.38	17.94	12.98	14.32/13.17	0.48	22.54
		25	3909.50	17.61	12.72	14.24/13.11	0.47	21.83
		50	3764.34	17.17	12.38	14.13/13.05	0.46	20.93
		75	3619.68	16.73	12.04	14.01/12.97	0.44	20.03
		100	3475.23	16.28	11.69	13.90/12.90	0.43	19.12
	Medium	0	3854.63	17.44	12.59	14.19/13.09	0.46	21.49
		25	3741.81	17.10	12.33	14.11/13.03	0.45	20.79
		50	3599.39	16.67	11.99	14.00/12.96	0.44	19.90
		75	3452.55	16.21	11.64	13.88/12.89	0.43	18.98
		100	3303.16	15.73	11.27	13.76/12.80	0.42	18.05
	Low	0	2085.97	11.36	7.97	12.54/11.97	0.30	10.44
		25	1998.64	11.00	7.70	12.43/11.90	0.29	9.90
		50	1888.33	10.54	7.36	12.30/11.80	0.28	9.22
		75	1774.50	10.05	7.00	12.15/11.70	0.27	8.53
		100	1656.82	9.54	6.62	12.00/11.59	0.25	7.81

09MK HS

Ducted Fan Coil Unit

Performance Data

6 Row District Cooling HD

Model	Speed	ESP Pa	Air Flow m³/h	Cooling Capacity		Air Off Temp	Water Flow l/h	Water Pressure Drop kPa
				Total	Sensible	DB/WB		
				kW	kW	°C		
09MK HS 921	High	0	1344.75	8.07	5.52	11.69/11.28	0.21	22.06
		25	1307.07	7.90	5.39	11.61/11.22	0.21	21.28
		50	1261.88	7.70	5.24	11.52/11.15	0.20	20.36
		75	1161.68	7.23	4.91	11.32/10.99	0.19	18.31
		100	1058.76	6.74	4.55	11.10/10.82	0.18	16.24
	Medium	0	1314.67	7.94	5.42	11.63/11.23	0.21	21.44
		25	1267.66	7.72	5.26	11.54/11.16	0.20	20.47
		50	1209.86	7.46	5.07	11.42/11.07	0.20	19.29
		75	1117.27	7.02	4.75	11.22/10.92	0.19	17.41
		100	1024.98	6.57	4.43	11.02/10.75	0.17	15.56
	Low	0	739.60	5.06	3.37	10.33/10.19	0.13	10.04
		25	690.82	4.79	3.17	10.21/10.08	0.13	9.13
		50	630.39	4.43	2.93	10.05/9.94	0.12	8.03
		75	541.85	3.89	2.56	9.82/9.74	0.10	6.47
		100	451.36	3.51	2.26	8.97/8.93	0.09	2.62
09MK HS 922	High	0	1778.58	9.86	6.91	12.34/11.85	0.26	12.55
		25	1692.57	9.51	6.64	12.22/11.76	0.25	11.80
		50	1584.64	9.05	6.30	12.06/11.64	0.24	10.86
		75	1458.75	8.50	5.90	11.86/11.49	0.23	9.77
		100	1330.29	7.92	5.47	11.66/11.34	0.21	8.67
	Medium	0	1721.05	9.63	6.73	12.26/11.79	0.26	12.05
		25	1618.42	9.20	6.41	12.11/11.68	0.24	11.15
		50	1488.73	8.63	6.00	11.91/11.53	0.23	10.03
		75	1358.97	8.05	5.57	11.70/11.37	0.21	8.92
		100	1228.26	7.44	5.12	11.49/11.21	0.20	7.81
	Low	0	1108.29	6.85	4.69	11.29/11.05	0.18	6.81
		25	1028.32	6.44	4.40	11.15/10.94	0.17	6.15
		50	928.87	5.92	4.03	10.98/10.81	0.16	5.34
		75	790.91	5.35	3.75	10.86/10.78	0.15	4.24
		100	648.11	4.74	3.10	9.63/9.55	0.13	1.93
09MK HS 923	High	0	2055.67	12.04	8.28	11.91/11.46	0.32	21.11
		25	1979.87	11.71	8.04	11.81/11.38	0.31	20.14
		50	1884.25	11.29	7.73	11.68/11.29	0.30	18.93
		75	1782.64	10.83	7.40	11.54/11.18	0.29	17.65
		100	1677.44	10.35	7.04	11.39/11.06	0.27	16.33
	Medium	0	2023.50	11.90	8.18	11.87/11.43	0.32	20.70
		25	1908.75	11.40	7.81	11.72/11.31	0.30	19.24
		50	1757.48	10.72	7.31	11.51/11.15	0.28	17.33
		75	1708.33	10.49	7.15	11.44/11.10	0.28	16.71
		100	1586.78	9.92	6.73	11.26/10.96	0.26	15.20
	Low	0	1208.26	8.00	5.37	10.66/10.48	0.21	10.60
		25	1120.22	7.53	5.03	10.51/10.35	0.20	9.57
		50	1009.82	6.91	4.60	10.32/10.19	0.18	8.29
		75	879.23	6.15	4.07	10.09/9.99	0.16	6.82
		100	745.85	5.71	3.71	9.62/9.54	0.15	4.73
09MK HS 924	High	0	2730.90	15.44	10.69	12.25/11.71	0.41	24.85
		25	2621.97	15.00	10.36	12.14/11.63	0.40	23.65
		50	2483.94	14.42	9.93	12.00/11.52	0.38	22.13
		75	2353.31	13.86	9.52	11.86/11.42	0.37	20.69
		100	2220.89	13.28	9.09	11.71/11.30	0.35	19.24
	Medium	0	2500.92	14.49	9.98	12.02/11.54	0.38	22.31
		25	2410.82	14.11	9.70	11.92/11.47	0.37	21.32
		50	2297.43	13.62	9.34	11.79/11.37	0.36	20.08
		75	2172.66	13.06	8.94	11.65/11.26	0.35	18.72
		100	2045.81	12.49	8.52	11.50/11.15	0.33	17.34
	Low	0	1348.81	9.01	6.03	10.57/10.40	0.24	10.03
		25	1258.91	8.52	5.69	10.44/10.29	0.23	9.13
		50	1145.37	7.87	5.24	10.27/10.15	0.21	8.01
		75	1027.14	7.18	4.76	10.09/9.99	0.19	6.87
		100	903.84	6.42	4.24	9.92/9.84	0.17	5.72

Air on Condition : 24°C DB / 18°C WB

Water Condition : 5.5°C Inlet / 14.5°C

09MK HS

Ducted Fan Coil Unit

Performance Data

6 Row District Cooling HD

Model	Speed	ESP Pa	Air Flow m³/h	Cooling Capacity		Air Off Temp	Water Flow l/h	Water Pressure Drop kPa
				Total	Sensible	DB/WB		
				kW	kW	°C		
09MK HS 925	High	0	3168.13	18.02	12.45	12.20/11.67	0.48	26.43
		25	3048.66	17.53	12.08	12.10/11.59	0.46	25.22
		50	2897.65	16.89	11.62	11.96/11.49	0.45	23.69
		75	2747.92	16.25	11.15	11.82/11.39	0.43	22.18
		100	2597.94	15.59	10.66	11.68/11.28	0.41	20.68
	Medium	0	3053.97	17.55	12.10	12.10/11.60	0.47	25.27
		25	2939.73	17.07	11.75	12.00/11.52	0.45	24.11
		50	2795.68	16.46	11.30	11.87/11.42	0.44	22.66
		75	2640.71	15.78	10.80	11.72/11.31	0.42	21.11
	Low	0	1767.76	11.60	7.79	10.77/10.56	0.31	12.58
		25	1678.13	11.13	7.46	10.66/10.47	0.30	11.74
		50	1564.59	10.52	7.03	10.52/10.35	0.28	10.68
75		1457.23	9.92	6.61	10.38/10.23	0.26	9.70	
100		1349.53	9.31	6.18	10.24/10.11	0.25	8.73	
09MK HS 926	High	0	3374.83	20.08	13.70	11.81/11.34	0.53	36.24
		25	3264.58	19.60	13.35	11.72/11.27	0.52	34.78
		50	3125.88	18.99	12.90	11.61/11.18	0.50	32.95
		75	2970.93	18.29	12.4	11.47/11.08	0.49	30.91
		100	2812.00	17.56	11.87	11.33/10.97	0.47	28.84
	Medium	0	3208.59	19.36	13.17	11.68/11.24	0.51	34.04
		25	3094.95	18.85	12.80	11.58/11.16	0.50	32.54
		50	2950.77	18.20	12.33	11.45/11.06	0.48	30.65
		75	2818.66	17.59	11.89	11.34/10.97	0.47	28.93
	Low	0	1790.48	12.37	8.19	10.27/10.10	0.33	15.97
		25	1697.32	11.85	7.83	10.16/10.01	0.31	14.85
		50	1579.39	11.17	7.36	10.01/9.89	0.30	13.46
75		1464.23	10.49	6.89	9.87/9.76	0.28	12.13	
100		1346.66	9.78	6.41	9.72/9.63	0.26	10.79	
09MK HS 927	High	0	3823.16	22.27	15.30	11.98/11.50	0.59	26.87
		25	3714.03	21.80	14.96	11.91/11.44	0.58	25.93
		50	3575.99	21.21	14.52	11.81/11.37	0.56	24.75
		75	3437.20	20.60	14.08	11.70/11.29	0.55	23.56
		100	3293.02	19.96	13.61	11.59/11.20	0.53	22.33
	Medium	0	3661.90	21.58	14.80	11.87/11.41	0.57	25.48
		25	3554.72	21.12	14.46	11.79/11.35	0.56	24.56
		50	3419.44	20.52	14.02	11.69/11.28	0.54	23.41
		75	3280.09	19.90	13.57	11.58/11.19	0.53	22.22
		100	3138.98	19.25	13.10	11.47/11.11	0.51	21.02
	Low	0	1981.67	13.45	8.96	10.43/10.27	0.36	11.53
		25	1898.71	12.98	8.64	10.35/10.19	0.34	10.89
50		1793.92	12.39	8.22	10.24/10.10	0.33	10.08	
75		1685.86	11.77	7.79	10.13/10.01	0.31	9.25	
100		1574.48	11.11	7.34	10.01/9.91	0.29	8.41	

09MK HS

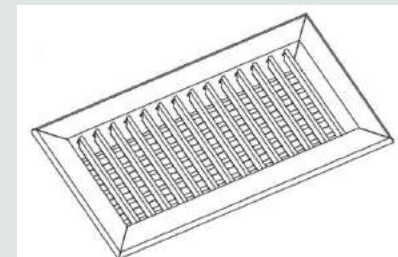
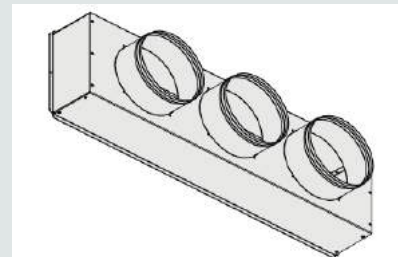
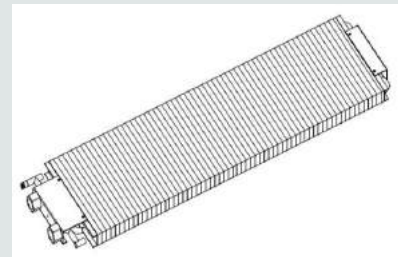
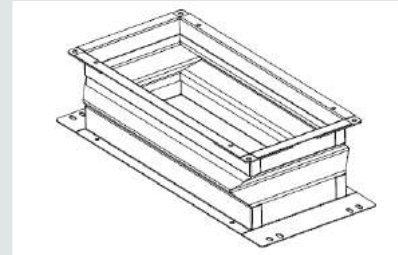
Ducted Fan Coil Unit

Sound Pressure Levels Data

Model	Speed	Octave band Sound Pressure Level dB							Overall Sound Pressure dB(A)
		125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz	
09MK921 HS	High	40.7	47.2	46.9	48.4	46.7	44.5	34.4	54
	Medium	39.0	45.3	45.0	46.4	44.8	42.7	33.0	52
	Low	36.5	42.4	42.2	43.5	42.0	40.1	30.9	49
09MK922 HS	High	41.0	48.5	48.3	49.9	47.8	44.0	36.6	55
	Medium	39.3	46.5	46.3	47.9	45.9	42.2	35.1	53
	Low	36.8	43.6	43.4	44.8	43.0	39.5	32.9	50
09MK923 HS	High	41.6	47.9	46.8	49.2	47.9	44.0	37.6	55
	Medium	39.9	46.0	44.9	47.2	46.0	42.2	36.1	53
	Low	37.3	43.0	42.1	44.2	43.0	39.5	33.8	50
09MK924 HS	High	43.5	49.8	48.4	50.9	49.2	46.4	39.9	57
	Medium	41.7	47.8	46.4	48.8	47.2	44.5	38.3	55
	Low	39.0	44.7	43.5	45.7	44.2	41.7	35.9	52
09MK925 HS	High	41.0	45.5	47.5	48.4	46.7	40.1	31.0	54
	Medium	38.4	43.8	45.7	46.5	44.9	38.5	29.8	52
	Low	36.1	41.2	43.0	43.8	42.2	36.2	28.0	49
09MK926 HS	High	43.3	46.9	49.1	49.8	47.4	41.0	32.8	55
	Medium	41.6	45.1	47.3	47.9	45.6	39.4	31.6	53
	Low	39.2	42.5	44.6	45.1	43.0	37.1	29.7	51
09MK927 HS	High	48.5	51.6	51.2	53.8	51.6	47.9	41.3	59
	Medium	46.5	49.5	49.1	51.6	49.5	46.0	39.6	57
	Low	43.5	46.4	46.0	48.3	46.4	43.1	37.1	54

Optional Accessories

- ⇒ Double Skin casing.
- ⇒ Pre-painted casing.
- ⇒ Direct expansion cooling Coil.
- ⇒ 1 Row heating coil.
- ⇒ Flexible connector.
- ⇒ Thermostats.
- ⇒ Electronically commutated Motor.
- ⇒ Three Way / Two Way Values
- ⇒ Extended Drain Pan.
- ⇒ Stainless Steel Drain pan.
- ⇒ Supply and Return Grills for Exposed version.
- ⇒ Air Intake Plenum with Spigot.
- ⇒ Supply Air Plenum with Spigot.
- ⇒ Condensate Pump.
- ⇒ Speed Control



09MK HS

Ducted Fan Coil Unit

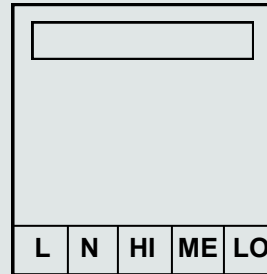
Wiring Diagram

Cooling Only Three Speed Wiring

220 Volts
A/C

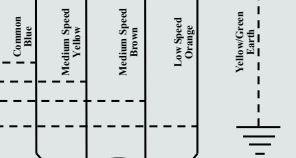
L
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Thermostat



Field Wiring

Terminal



Factory Wiring



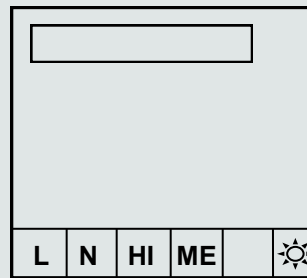
In the case of Two Motors

Cooling & Electrical Heaters Three Speed Wiring

220 Volts
A/C

L
N

Thermostat

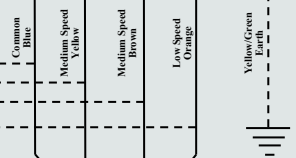


Field Wiring

Contactor

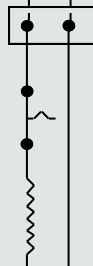


Terminal

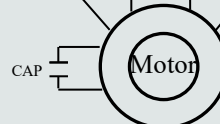


Factory Wiring

Safety Cutout



Heater





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