



Innovative and Efficient Solutions for You



Basic Air Handling Unit DDe / DSe



Air Flow: From 350 - 3600l/s

PLXDMT1611
e700 to e9600
s700 to s9600

DDe / DSe: BASIC AIR HANDLING UNIT



Available in 12 models for each series of DDe and DSe, with air flow from 350 l/s to 9600 l/s and the capacity between 14.0 kW and 254.9 kW use for chilled water system.

DDe with high strength extruded aluminum construction and incorporating with injection fiber plastic corner pieces to form a rigid frame for the air handling unit to provide maximum strength to withstand the high pressure. The external clip methods to hold the double skin PU insulation panel is easy for access during maintenance and prevent air leakage.

DSe with galvanized painted single skin construction offer economy solution for indoor application.

EXCELLENT THERMAL BARRIER:

DDe framework is insulated with 25mm thickness double skin PU insulation panel to create a thermal barrier between internal and external surfaces. The 40kg/m³ of polyurethane foam (PU) create the optimum insulation performance and rigidity. DSe series is with single skin and 10mm PE foam as insulation.

Designed in accordance to the BS EN 1886.

Selection software is available for different condition rating for coil and fan.

Fan Section with Top or Front Inverted Fan Discharge Option which directly mounted to the panel.

Drive package are select to meet the application.

Available in 4 and 6 rows Coil using 3/8" copper tube with option right or left hand pipe connection, all the coil comes with aluminum fins and steel header. (fig. 02)



(fig. 02)



(fig. 01)

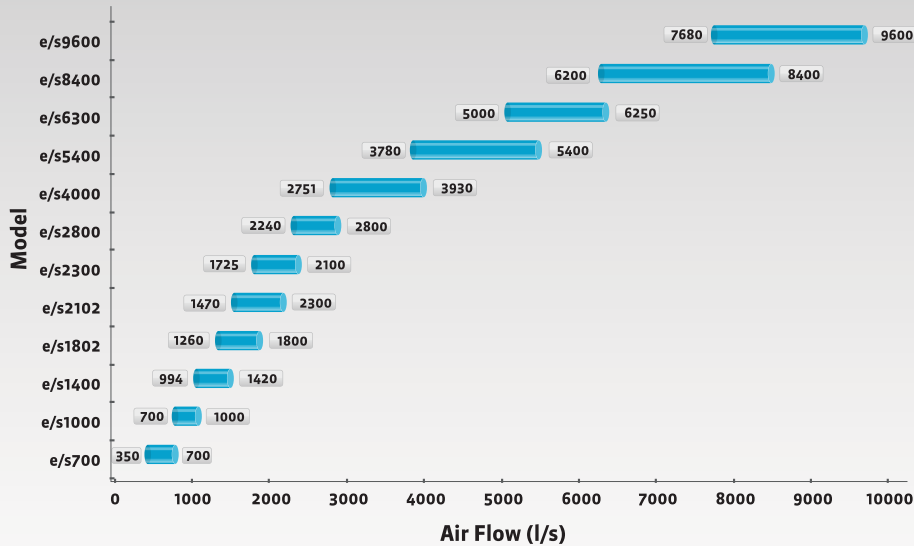
No internal isolator, need to add isolator externally at site.

Available with washable Synthetic Flat Filter (80-85% average Arrestance) in an aluminum / galvanized steel frame supported by wire rod. Exclusive bonding technology and high dust holding capacity with low resistance to airflow. (fig. 03)



(fig. 03)

DDe / DSe Specification



Model	Air Flow (l/s)	
	Range	
e/s700	350	700
e/s1000	700	1000
e/s1400	994	1420
e/s1802	1260	1800
e/s2102	1470	2100
e/s2300	1725	2300
e/s2800	2240	2800
e/s4000	2751	3930
e/s5400	3780	5400
e/s6300	5000	6250
e/s8400	6200	8400
e/s9600	7680	9600

DDe / DSe Specification

MODEL			e700 (s700)		e1000 (s1000)		e1400 (s1400)		e1802 (s1802)		
			4R	6R	4R	6R	4R	6R	4R	6R	
FAN SIZE			AT 7-7 S		AT 9-9 S		AT10/10 S		AT 9-9 G2L		
CASING			DOUBLE SKIN PU PANEL WITH INT 0.5mm GI, EXT 0.5mm PAINTED GI (PAINTED GALVANIZED STEEL)								
INSULATION			PU FOAM, 25mm, 40kg/m ³ (PE FOAM, 10mm)								
DIMENSION (CABINET)	HEIGHT (H)	mm	512 (480)		612 (580)		612 (580)		612 (580)		
	WIDTH (W)	mm	1170 (1148)		1170 (1148)		1538 (1516)		1935 (1913)		
	DEPTH (D)	mm	873 (811)		873 (811)		873 (811)		873 (811)		
DIMENSION (PACKING)	HEIGHT (H)	mm	777 (720)		877 (820)		877 (820)		877 (820)		
	WIDTH (W)	mm	1482 (1450)		1482 (1450)		1850 (1820)		2225 (2215)		
	DEPTH (D)	mm	1196 (1155)		1196 (1155)		1196 (1155)		1196 (1155)		
COIL											
CONSTRUCTION	COIL TYPE		3/8" PLAIN TUBE								
	COIL DUTY		COOLING								
	HEAT TRANSFER FLUID		WATER								
	TUBE MATERIAL		COPPER								
	FIN MATERIAL		ALUMINIUM								
	FIN HEIGHT	mm	356		457		457		457		
	FIN LENGTH	mm	875		875		1243		1640		
CONFIGURATION	TUBES HIGH		14		18		18		18		
	ROWS DEEP		4	6	4	6	4	6	4	6	
	FINS PER METER	FPM	472	472	472	472	472	472	472	472	
	FINS PER INCH	FPI	12	12	12	12	12	12	12	12	
	NUMBER OF CIRCUIT		11	14	14	18	18	18	18	27	
AIR SIDE	AIR FLOW	l/s total	700	700	1000	1000	1420	1420	1800	1800	
	ENTERING AIR	°C DB/WB	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	
	LEAVING AIR	°C DB/WB	14.7/13.8	12.2/12.0	14.9/13.9	12.5/12.2	14.76/13.83	12.12/11.8	14.4/13.5	12.1/11.8	
	TOTAL CAPACITY	kW	14.0	17.9	19.5	24.9	28.1	37.1	35.6	47.3	
	SENSIBLE CAPACITY	kW	10.3	12.4	14.5	17.3	20.7	25.3	27.1	32.2	
	FACE VELOCITY	m/s	2.25	2.25	2.50	2.50	2.5	2.5	2.40	2.40	
	AIR PRESSURE DROP	Pa	108	162	129	194	129	194	121	181	
WATER SIDE	WATER FLOW	l/s total	0.665	0.855	0.929	1.185	1.34	1.77	1.790	2.251	
	ENTERING WATER	°C	7	7	7	7	7	7	7	7	
	LEAVING WATER	°C	12	12	12	12	12	12	12	12	
	TUBE VELOCITY	m/s	0.98	0.99	1.07	1.06	1.2	1.58	1.61	1.35	
	WATER PRESSURE DROP	kPa	11.70	14.38	14.25	17.49	15.2	38.2	40.08	35.70	
BLOWER											
TYPE/DRIVE			DIDW / BELT DRIVEN								
BLOWER MATERIAL			ZINC COATED STEEL								
BLOWER QUANTITY			1		1		1		2		
BLOWER DIAMETER	mm		177.8		228.6		254 (10)		228.6 (9)		
BLOWER LENGTH	mm		177.8		228.6		254 (10)		228.6 (9)		
AIR FLOW	l/s		700		1000		1420 (3009)		1800 (3814)		
BLOWER MOTOR											
TYPE			SQUIRREL CAGE INDUCTION								
POWER SUPPLY			V / Ph / Hz								
RATED RUNNING CURRENT (AT 415V)			A		4.84		4.761		6.47		
RATED OUTPUT POWER (MAX.)			kW		1.5		2.2		3		
MOTOR POLES			4 POLES								
FILTER QUANTITY											
TYPE	WASHABLE R29	16*20*2	2		-		-		-		
		20*20*2	-		2		2		-		
		20*24*2	-		-		-		3		

DDe / DSe Specification

MODEL			e2102 (s2102)		e2300 (s2300)		e2800 (s2800)		e4000 (s4000)			
			4R	6R	4R	6R	4R	6R	4R	6R		
FAN SIZE			AT 10-10 G2L		AT15/15 S		AT15/15 S		AT18/18 S			
CASING			DOUBLE SKIN PU PANEL WITH INT 0.5mm GI, EXT 0.5mm PAINTED GI (PAINTED GALVANIZED STEEL)									
MATERIAL INSULATION			PU FOAM, 25mm, 40kg/m ³ (PE FOAM, 10mm)									
DIMENSION (CABINET)	HEIGHT (H)	mm	612 (580)		932 (920)		932 (920)		1283 (1293)			
	WIDTH (W)	mm	2199 (2177)		1538 (1516)		1770 (1748)		1770 (1748)			
	DEPTH (D)	mm	873 (811)		973 (911)		973 (911)		1180 (1118)			
DIMENSION (PACKING)	HEIGHT (H)	mm	877 (820)		1206 (1160)		1206 (1160)		1500 (1535)			
	WIDTH (W)	mm	2490 (2480)		1850 (1820)		2060 (2050)		2060 (2050)			
	DEPTH (D)	mm	1196 (1155)		1250 (1255)		1250 (1255)		1482 (1460)			
COIL			3/8" PLAIN TUBE									
COIL TYPE			COIL DUTY									
COIL DUTY			HEAT TRANSFER FLUID									
HEAT TRANSFER FLUID			TUBE MATERIAL									
TUBE MATERIAL			FIN MATERIAL									
FIN MATERIAL			FIN HEIGHT									
FIN HEIGHT			mm	457		762		762		1067		
FIN LENGTH			mm	1904		1243		1475		1475		
TUBES HIGH				18		30		30		42		
CONFIGURATION	ROWS DEEP		4	6	4	6	4	6	4	6		
	FINS PER METER	FPM	472	472	472	472	472	472	472	472		
	FINS PER INCH	FPI	12	12	12	12	12	12	12	12		
NUMBER OF CIRCUIT			36	27	30	30	30	45	42	63		
AIR SIDE	AIR FLOW	l/s total	2100	2100	2300	2300	2800	2800	3930	3930		
	ENTERING AIR	°C DB/WB	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4		
	LEAVING AIR	°C DB/WB	15.0/14.1	12.0/11.7	14.69/13.79	12.01/11.7	14.51/13.59	12.32/12.01	14.61/13.69	12.32/12.01		
	TOTAL CAPACITY	kW	40.0	55.4	45.9	60.73	57.6	71.35	79.63	100.15		
	SENSIBLE CAPACITY	kW	30.1	37.7	33.73	41.28	41.71	49.18	58.03	69.02		
	FACE VELOCITY	m/s	2.41	2.41	2.43	2.43	2.49	2.49	2.50	2.5		
	AIR PRESSURE DROP	Pa	122	182	123	185	129	193	129	194		
	WATER FLOW	l/s total	1.904	2.641	2.186	2.893	2.743	3.399	3.793	4.77		
WATER SIDE	ENTERING WATER	°C	7	7	7	7	7	7	7	7		
	LEAVING WATER	°C	12	12	12	12	12	12	12	12		
	TUBE VELOCITY	m/s	0.85	1.58	1.18	1.56	1.48	1.22	1.46	1.22		
	WATER PRESSURE DROP	kPa	14.39	52.52	14.6	37	25.4	18	24.9	18.1		
BLOWER			DIDW / BELT DRIVEN									
TYPE/DRIVE			ZINC COATED STEEL									
BLOWER MATERIAL												
BLOWER QUANTITY			2		1		1		1			
BLOWER DIAMETER			mm	254		381		381		457.2		
BLOWER LENGTH			mm	254		381		381		457.2		
AIR FLOW			l/s	2100		2300		2800		3930		
BLOWER MOTOR			SQUIRREL CAGE INDUCTION									
TYPE			415 / 3 / 50									
POWER SUPPLY			V / Ph / Hz									
RATED RUNNING CURRENT (AT 415V)			A	6.47		7.966		7.966		14.65		
RATED OUTPUT POWER (MAX.)			kW	3		4		4		7.5		
MOTOR POLES			4 POLES									
FILTER QUANTITY												
TYPE	WASHABLE R29	24*24*2	-		2		2		4			
		20*24*2	4		-		1		2			
		12*24*2	-		1		-		-			

MODEL			e5400 (s5400)		e6300 (s6300)		e8400 (s8400)		e9600 (s9600)			
			4R	6R	4R	6R	4R	6R	4R	6R		
FAN SIZE			ADH 500 R		ADH 560 R		ADH 710 R		ADH 710 R			
CASING			DOUBLE SKIN PU PANEL WITH INT 0.5mm GI, EXT 0.5mm PAINTED GI (PAINTED GALVANIZED STEEL)									
MATERIAL INSULATION			PU FOAM, 25mm, 40kg/m ³ (PE FOAM, 10mm)									
DIMENSION (CABINET)	HEIGHT (H)	mm	1550 (1538)		1550 (1538)		1983 (2021)		2080 (2108)			
	WIDTH (W)	mm	1935 (1923)		2199 (2177)		2199 (2177)		2395 (2373)			
	DEPTH (D)	mm	1400 (1338)		1498 (1436)		1930 (1868)		1930 (1868)			
DIMENSION (PACKING)	HEIGHT (H)	mm	1800 (1780)		1800 (1780)		2150 (2230)		2250 (2315)			
	WIDTH (W)	mm	2225 (2225)		2490 (2480)		2150 (2350)		2500 (2545)			
	DEPTH (D)	mm	1680 (1680)		1780 (1780)		2140 (2150)		2140 (2150)			
COIL			3/8" PLAIN TUBE									
COIL TYPE			COIL DUTY									
COIL DUTY			HEAT TRANSFER FLUID									
HEAT TRANSFER FLUID			TUBE MATERIAL									
TUBE MATERIAL			FIN MATERIAL									
FIN MATERIAL			FIN HEIGHT									
FIN HEIGHT			mm	1321		1321		1778		1829		
FIN LENGTH			mm	1640		1904		1904		2100		
TUBES HIGH				52		52		70		72		
CONFIGURATION	ROWS DEEP		4	6	4	6	4	6	4	6		
	FINS PER METER	FPM	472	472	472	472	472	472	472	472		
	FINS PER INCH	FPI	12	12	12	12	12	12	12	12		
NUMBER OF CIRCUIT			52	78	52	78	70	105	144	108		
AIR SIDE	AIR FLOW	l/s total	5400	5400	6250	6250	8400	8400	9600	9600		
	ENTERING AIR	°C DB/WB	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4	26.7/19.4		
	LEAVING AIR	°C DB/WB	14.4/13.5	12.22/11.91	14.3/13.4	12.01/11.7	14.3/13.4	12.01/11.7	15.00/14.07	11.97/11.65		
	TOTAL CAPACITY	kW	112.74	139.26	132.4	165.02	177.95	221.79	182.7	254.9		
	SENSIBLE CAPACITY	kW	81.11	95.53	94.64	112.18	127.22	150.69	137.2	172.8		
	FACE VELOCITY	m/s	2.49	2.49	2.49	2.49	2.48	2.48	2.5	2.5		
	AIR PRESSURE DROP	Pa	129	193	128	192	128	192	129	194		
	WATER FLOW	l/s total	5.37	6.633	6.307	7.86	8.476	10.6	8.7	12.14		
WATER SIDE	ENTERING WATER	°C	7	7	7	7	7	7	7	7		
	LEAVING WATER	°C	12	12	12	12	12	12	12	12		
	TUBE VELOCITY	m/s	1.67	1.37	1.96	1.63	1.96	1.63	0.98	1.82		
	WATER PRESSURE DROP	kPa	34.7	24.4	52.8	37.8	52.6	37.7	7.9	50.2		
BLOWER			DIDW / BELT DRIVEN									
TYPE/DRIVE			ZINC COATED STEEL									
BLOWER MATERIAL												
BLOWER QUANTITY			1		1		1		1			
BLOWER DIAMETER			mm	500		560		710		710		
BLOWER LENGTH			mm	500		560		710		710		
AIR FLOW			l/s	5400		6250		8400		9600		
BLOWER MOTOR			SQUIRREL CAGE INDUCTION									
TYPE			415 / 3 / 50									
POWER SUPPLY			V / Ph / Hz									
RATED RUNNING CURRENT (AT 415V)			A	21.06		21.06		21.06		27.47		
RATED OUTPUT POWER (MAX.)			kW	11		11		11		15		
MOTOR POLES			4 POLES									
FILTER QUANTITY												
TYPE	WASHABLE R29	24*24*2	-		6		9		9			
		20*24*2	-		-		-		3			
		12*24*2	-		2		3		-			
		20*25*2	6		-		-		-			
		16*25*2	2		-		-		-			

Note:
 1. The specifications above are subject to change without any notice for future improvement.
 2. Specification are calculated based on 0m altitude condition, altitude change will affect the unit performance.
 3. Value in () is refer to DSe, other value is common for DDe & DSe.

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Daikin Middle East and Africa



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