



PLXDMT2011

Models:
e700 to e9600
s700 to s9600



DDe / DSe

Basic Air Handling Unit

Air Flow: From 350 to 9600 l/s

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.

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)

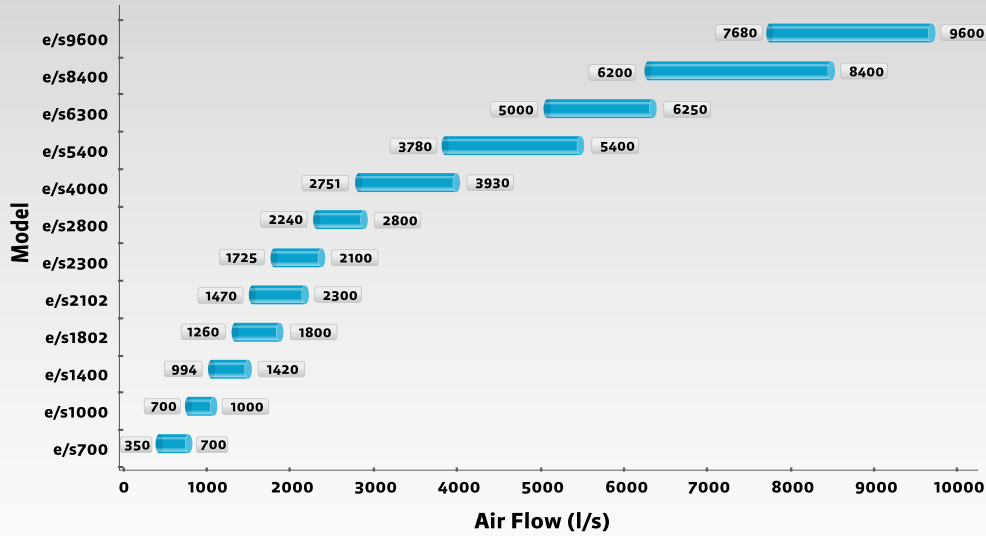
No internal isolator, need to add isolator externally at site.

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	MATERIAL	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		
TUBES HIGH		14		18		18		18			
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		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	415 / 3 / 50							
RATED RUNNING CURRENT (AT 415V)			A	3.45		4.84		4.761		6.47	
RATED OUTPUT POWER (MAX.)			kW	1.5		2.2		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										
COIL TYPE			3/8" PLAIN TUBE							
COIL DUTY			COOLING							
HEAT TRANSFER FLUID			WATER							
TUBE MATERIAL			COPPER							
FIN MATERIAL			ALUMINIUM							
CONSTRUCTION	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	
	FINS PER METER	FPM	472		472		472		472	
	FINS PER INCH	FPI	12		12		12		12	
NUMBER OF CIRCUIT			36		27		30		45	
AIR SIDE	AIR FLOW	l/s total	2100		2300		2800		3930	
	ENTERING AIR	°C DB/WB	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		14.6/13.79		12.0/11.7	
	TOTAL CAPACITY	kW	40.0		55.4		60.73		71.35	
	SENSIBLE CAPACITY	kW	30.1		37.7		41.28		49.18	
	FACE VELOCITY	m/s	2.41		2.41		2.43		2.49	
	AIR PRESSURE DROP	Pa	122		182		123		185	
	WATER FLOW	l/s total	1.904		2.641		2.186		2.893	
	ENTERING WATER	°C	7		7		7		7	
	LEAVING WATER	°C	12		12		12		12	
WATER SIDE	TUBE VELOCITY	m/s	0.85		1.58		1.18		1.56	
	WATER PRESSURE DROP	kPa	14.39		52.52		14.6		37	
BLOWER										
TYPE/DRIVE			DIDW / BELT DRIVEN							
BLOWER MATERIAL			ZINC COATED STEEL							
BLOWER QUANTITY			2		1		1		1	
BLOWER DIAMETER			mm 254		mm 381		mm 381		mm 457.2	
BLOWER LENGTH			mm 254		mm 381		mm 381		mm 457.2	
AIR FLOW			l/s 2100		l/s 2300		l/s 2800		l/s 3930	
BLOWER MOTOR										
TYPE			SQUIRREL CAGE INDUCTION							
POWER SUPPLY			V / Ph / Hz 415 / 3 / 50							
RATED RUNNING CURRENT (AT 415V)			A 6.47		A 7.966		A 7.966		A 14.65	
RATED OUTPUT POWER (MAX.)			kW 3		kW 4		kW 4		kW 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										
COIL TYPE			3/8" PLAIN TUBE							
COIL DUTY			COOLING							
HEAT TRANSFER FLUID			WATER							
TUBE MATERIAL			COPPER							
FIN MATERIAL			ALUMINIUM							
CONSTRUCTION	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	
	FINS PER METER	FPM	472		472		472		472	
	FINS PER INCH	FPI	12		12		12		12	
NUMBER OF CIRCUIT			52		78		70		105	
AIR SIDE	AIR FLOW	l/s total	5400		5400		6250		8400	
	ENTERING AIR	°C DB/WB	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	
	TOTAL CAPACITY	kW	112.74		139.26		132.4		165.02	
	SENSIBLE CAPACITY	kW	81.11		95.53		94.64		112.18	
	FACE VELOCITY	m/s	2.49		2.49		2.49		2.48	
	AIR PRESSURE DROP	Pa	129		193		128		192	
	WATER FLOW	l/s total	5.37		6.633		6.307		7.86	
	ENTERING WATER	°C	7		7		7		7	
	LEAVING WATER	°C	12		12		12		12	
WATER SIDE	TUBE VELOCITY	m/s	1.67		1.37		1.96		1.63	
	WATER PRESSURE DROP	kPa	34.7		24.4		52.8		37.8	
BLOWER										
TYPE/DRIVE			DIDW / BELT DRIVEN							
BLOWER MATERIAL			ZINC COATED STEEL							
BLOWER QUANTITY			1		1		1		1	
BLOWER DIAMETER			mm 500		mm 560		mm 710		mm 710	
BLOWER LENGTH			mm 500		mm 560		mm 710		mm 710	
AIR FLOW			l/s 5400		l/s 6250		l/s 8400		l/s 9600	
BLOWER MOTOR										
TYPE			SQUIRREL CAGE INDUCTION							
POWER SUPPLY			V / Ph / Hz 415 / 3 / 50							
RATED RUNNING CURRENT (AT 415V)			A 21.06		A 21.06		A 21.06		A 27.47	
RATED OUTPUT POWER (MAX.)			kW 11		kW 11		kW 11		kW 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:
- The specifications above are subject to change without any notice for future improvement.
 - Specification are calculated based on 0m altitude condition, altitude change will affect the unit performance.
 - Value in () is refer to DSe, other value is common for DDe & DSe.