

BROCHURE

Basic Air Handling Unit

ThermalTrue®
HVAC & R

Basic AHU Series TDM - E 30, 50, 60,
85, 115, 135, 180, 205



MODEL TDM-E : 4 Row Option			TDM-E115-4R		TDM-E135-4R		TDM-E180-4R		TDM-E205-4R		
			min	max	min	max	min	max	min	max	
GENERAL DATA											
CAPACITY	Total Capacity	kW	98,0	131,0	129,0	154,0	162,0	208,0	183,0	219,0	
		Btu/h	292.787	389.403	401.123	485.154	486.750	629.969	615.253	731.064	
	Sensible Capacity	kW	64,1	86,5	83,9	101,0	105,0	136,0	122,0	147,0	
		Btu/h	202.377	272.876	275.574	336.039	332.957	435.659	419.468	501.826	
	SHR		0,69	0,70	0,69	0,69	0,68	0,69	0,68	0,69	
AIR FLOW		L/s	3.775	5.427	4.955	6.371	6.135	8.495	7.787	9.674	
		CMH	13.591	19.537	17.839	22.935	22.086	30.580	28.032	34.828	
		CFM	8.000	11.500	10.500	13.500	13.000	18.000	16.500	20.500	
EXTERNAL STATIC PRESSURE		Pa	500								
		inWG	2,01								
WATER FLOW		kg/s	3,72	4,95	5,10	6,16	6,18	8,00	7,82	9,29	
		CMH	13,40	17,83	18,37	22,18	22,26	28,81	28,16	33,46	
		USGpm	59,0	78,5	80,9	97,7	98,0	126,9	124,0	147,3	
WATER PRESSURE DROP		kPa	3,2	5,2	6,2	8,7	5,2	8,1	8,1	10,9	
		inWG	12,9	21,0	25,1	34,8	21,0	32,7	32,5	43,8	
CASING	Frame		Anodised extruded aluminium profile and nylon corner piece								
	Panel		GI Finish								
	Insulation		25mm PU Panel with Thermalbreak profiles								
DIMENSION	Height	mm	1485	1485	1485	1485	1935	1935	1985	1985	
	Width	mm	1850	1850	2120	2120	2120	2120	2310	2310	
	Depth	mm	1450	1450	1590	1590	1750	1750	1930	1930	
CONNECTION	Water Inlet/Outlet	in	2 1/2				3 1/2				
	Drain Pipe Size	in	1								
COIL SPECIFICATION											
COIL	Type		Aluminium fin mechanically bonded to seamless copper tube								
	OD	in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	
	R		4	4	4	4	4	4	4	4	
	FPI		12	12	12	12	12	12	12	12	
	FW	mm	87	87	87	87	87	87	87	87	
	TH		52	52	52	52	70	70	72	72	
	FH	mm	1300	1300	1300	1300	1750	1750	1800	1800	
	FL	mm	1640	1640	1904	1904	1904	1904	2100	2100	
	Circuit		104	104	104	104	140	140	144	144	
	Entering (DB/WB)	°C/°C	26.7 / 19.4								
	Leaving (DB/WB)	°C/°C	13.6/12.7	14.4/13.2	13.7/12.7	14.3/13.1	13.5/12.5	14.2/13.0	13.5/12.5	14.0/12.9	
	Air Flow	cms	3,78	5,43	4,96	6,37	6,13	8,49	7,79	9,67	
	Face Area	m2	2,13	2,13	2,48	2,48	3,33	3,33	3,78	3,78	
	Face Velocity	m/s	1,77	2,55	2,00	2,57	1,84	2,55	2,06	2,56	
	ΔP	Pa	60	111	80	121	64	112	77	112	
	Condensate Rate	g/s	10,5	13,5	14,6	17,3	17,9	22,5	22,7	26,6	
FAN & MOTOR SPECIFICATION											
BLOWER	Type		Forward Curve Centrifugal Drive Driven								
	Size		ADH500R		ADH560R		ADH630R		ADH710R		
	Quantity		1								
POWER SUPPLY		V-Ø-Hz	380-415V/3Ø/50Hz								
RUNNING CURRENT		A	21,1	21,1	21,1	21,1	21,1	21,1	27,5	27,5	
MOTOR	2.20kW-4P-220/380-3-50	100L1-4									
	3.00kW-4P-220/380-3-50	100L2-4									
	4.00kW-4P-220/380-3-50	112M-4									
	5.50kW-4P-380/415-3-50	132S-4									
	7.50kW-4P-380/415/3/50	132M-4									
	11.0kW-4P-380/415-3-50	160M-4	1	1	1	1	1	1			
	15.0kW-4P-380/415-3-50	160L-4							1	1	
	18.5kW-4P-380/415-3-50	180MC-4									
AIR FILTER	46T-458W-576H-L1										
	46T-458W-424H-L1										
	46T-534W-424H-L1										
	46T-534W-574H-L1										
	46T-588W-465H-L1		9	9							
	46T-508W-465H-L1				12	12					
	46T-508W-615H-L1						12	12			
	46T-555W-632H-L1								12	12	

6 ROW OPTION

MODEL TDM-E : 6 Row Option			TDM-E30-6R		TDM-E50-6R		TDM-E60-6R		TDM-E85-6R			
			min	max	min	max	min	max	min	max		
GENERAL DATA												
CAPACITY	Total Capacity	kW	30,7	41,9	49,9	68,1	68,9	83,7	83,1	113,0		
		Btu/h	94.850	134.040	164.856	223.388	213.865	273.581	266.212	386.874		
	Sensible Capacity	W	19,6	27,0	31,9	43,8	44,0	53,7	53,5	73,4		
		Btu/h	62.130	88.761	108.124	147.928	139.653	179.904	173.283	254.480		
SHR			0,66	0,66	0,66	0,66	0,65	0,66	0,65	0,66		
AIR FLOW	L/s		944	1.416	1.652	2.360	2.124	2.832	2.596	4.011		
	CMH		3.398	5.097	5.946	8.495	7.645	10.193	9.344	14.441		
	CFM		2.000	3.000	3.500	5.000	4.500	6.000	5.500	8.500		
EXTERNAL STATIC PRESSURE		Pa	500									
		inWG	2,01									
WATER FLOW	kg/s		1,21	1,70	2,09	2,84	2,72	3,48	3,38	4,92		
	CMH		4,36	6,12	7,53	10,23	9,80	12,53	12,17	17,72		
	USGpm		19,2	27,0	33,1	45,0	43,1	55,2	53,6	78,0		
WATER PRESSURE DROP	kPa		7,5	13,7	8,1	13,7	14,5	22,2	11,8	22,6		
	inWG		30	55	33	55	58	89	47	91		
CASING	Frame		Anodised extruded aluminium profile and nylon corner piece									
	Panel		GI Finish									
	Insulation		25mm PU Panel with Thermalbreak profiles									
DIMENSION	Height	mm	660	660	935	935	935	935	1235	1235		
	Width	mm	1460	1460	1460	1460	1690	1690	1690	1690		
	Depth	mm	890	890	1110	1110	1110	1110	1280	1280		
CONNECTION	Water Inlet/Outlet	in	1 1/2		2				2 1/2			
	Drain Pipe Size	in	1									
COIL SPECIFICATION												
COIL	Type		Aluminium fin mechanically bonded to seamless copper tube									
	OD	in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8		
	R		6	6	6	6	6	6	6	6		
	FPI		12	12	12	12	12	12	12	12		
	FW	mm	130	130	130	130	130	130	130	130		
	TH		18	18	30	30	30	30	42	42		
	FH	mm	450	450	750	750	750	750	1050	1050		
	FL	mm	1243	1243	1243	1243	1475	1475	1475	1475		
	Circuit		18	18	30	30	45	45	63	63		
	Entering (DB/WB)		°C/°C		26.5 / 19.5							
	Leaving (DB/WB)		°C/°C		10.2/9.9	10.9/10.4	10.2/9.9	10.8/10.4	10.3/10.0	10.7/10.3	10.5/10.2	11.1/10.7
	Air Flow		cms		0,94	1,42	1,65	2,36	2,12	2,83	2,60	4,01
	Face Area		m2		0,56	0,56	0,93	0,93	1,11	1,11	1,55	1,55
	Face Velocity		m/s		1,69	2,53	1,77	2,53	1,92	2,56	1,68	2,59
	ΔP		Pa		87	161	83	153	109	160	87	161
	Condensate Rate		g/s		4,4	5,9	7,1	9,6	9,9	11,9	11,8	15,8
FAN & MOTOR SPECIFICATION												
BLOWER	Type		Forward Curve Centrifugal Drive Driven									
	Size		AT10-10S		AT15-15S		AT15-15S		AT18-18S			
	Quantity		set		1							
POWER SUPPLY		V-Ø-Hz		380-415V/3Ø/50Hz								
RUNNING CURRENT		A		4,761	4,761	7,966	7,966	7,966	7,966	14,65	14,65	
MOTOR	2.20kW-4P-220/380-3-50		100L1-4	1	1							
	3.00kW-4P-220/380-3-50		100L2-4									
	4.00kW-4P-220/380-3-50		112M-4			1	1	1	1			
	5.50kW-4P-380/415-3-50		132S-4									
	7.50kW-4P-380/415/3/50		132M-4							1	1	
	11.0kW-4P-380/415-3-50		160M-4									
	15.0kW-4P-380/415-3-50		160L-4									
	18.5kW-4P-380/415-3-50		180MC-4									
AIR FILTER	46T-458W-576H-L1			3	3							
	46T-458W-424H-L1					6	6					
	46T-534W-424H-L1							6	6			
	46T-534W-574H-L1									6	6	
	46T-588W-465H-L1											
	46T-508W-465H-L1											
	46T-508W-615H-L1											
	46T-555W-632H-L1											

MODEL TDM-E : 6 Row Option			TDM-E115-6R		TDM-E135-6R		TDM-E180-6R		TDM-E205-6R		
			min	max	min	max	min	max	min	max	
GENERAL DATA											
CAPACITY	Total Capacity	kW	115,0	157,0	152,0	185,0	190,0	248,0	235,0	285,0	
		Btu/h	351.283	474.856	464.710	573.294	582.945	765.628	739.017	886.794	
	Sensible Capacity	W	74,1	102,0	97,5	119,0	122,0	160,0	150,0	183,0	
		Btu/h	235.922	323.286	310.417	386.212	388.332	515.612	491.315	593.596	
	SHR		0,67	0,68	0,67	0,67	0,67	0,67	0,67	0,67	
AIR FLOW		L/s	3.775	5.427	4.955	6.371	6.135	8.495	7.787	9.674	
		CMH	13.591	19.537	17.839	22.935	22.086	30.580	28.032	34.828	
		CFM	8.000	11.500	10.500	13.500	13.000	18.000	16.500	20.500	
EXTERNAL STATIC PRESSURE		Pa	500								
		inWG	2,01								
WATER FLOW		kg/s	4,46	6,03	5,90	7,28	7,41	9,73	9,39	11,30	
		CMH	16,06	21,72	21,25	26,22	26,69	35,04	33,82	40,70	
		USGpm	70,7	95,6	93,6	115,4	117,5	154,3	148,9	179,2	
WATER PRESSURE DROP		kPa	2,2	3,7	4,0	5,8	3,6	5,7	5,5	7,6	
		inWG	9	15	16	23	14	23	22	30	
CASING	Frame		Anodised extruded aluminium profile and nylon corner piece								
	Panel		GI Finish								
	Insulation		25mm PU Panel with Thermalbreak profiles								
DIMENSION	Height	mm	1485	1485	1485	1485	1935	1935	1985	1985	
	Width	mm	1850	1850	2120	2120	2120	2120	2310	2310	
	Depth	mm	1450	1450	1590	1590	1750	1750	1930	1930	
CONNECTION	Water Inlet/Outlet	in	2 1/2		3 1/2				4		
	Drain Pipe Size	in	1								
COIL SPECIFICATION											
COIL	Type		Aluminium fin mechanically bonded to seamless copper tube								
	OD	in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	
	R		6	6	6	6	6	6	6	6	
	FPI		12	12	12	12	12	12	12	12	
	FW	mm	130	130	130	130	130	130	130	130	
	TH		52	52	52	52	70	70	72	72	
	FH	mm	1300	1300	1300	1300	1750	1750	1800	1800	
	FL	mm	1640	1640	1904	1904	1904	1904	2100	2100	
	Circuit		78	78	78	78	105	105	108	108	
	Entering (DB/WB)	°C/°C	26.5 / 19.5								
	Leaving (DB/WB)	°C/°C	10.4/10.1	11.0/10.6	10.5/10.1	10.9/10.4	10.3/10.0	10.9/10.4	10.4/10.0	10.8/10.4	
	Air Flow	cms	3,78	5,43	4,96	6,37	6,13	8,49	7,79	9,67	
	Face Area	m2	2,13	2,13	2,48	2,48	3,33	3,33	3,78	3,78	
	Face Velocity	m/s	1,77	2,55	2,00	2,57	1,84	2,55	2,06	2,56	
	ΔP	Pa	87	160	109	159	94	159	110	161	
	Condensate Rate	g/s	16,4	22,0	21,6	26,1	27,2	35,1	33,6	40,5	
FAN & MOTOR SPECIFICATION											
BLOWER	Type		Forward Curve Centrifugal Drive Driven								
	Size		ADH500R		ADH560R		ADH630R		ADH710R		
	Quantity		1								
POWER SUPPLY		V-Ø-Hz	380-415V/3Ø/50Hz								
RUNNING CURRENT			A	21,06	21,06	21,06	21,06	21,06	21,06	27,47	27,47
MOTOR	2.20kW-4P-220/380-3-50	100L1-4									
	3.00kW-4P-220/380-3-50	100L2-4									
	4.00kW-4P-220/380-3-50	112M-4									
	5.50kW-4P-380/415-3-50	132S-4									
	7.50kW-4P-380/415/3/50	132M-4									
	11.0kW-4P-380/415-3-50	160M-4	1	1	1	1	1	1			
	15.0kW-4P-380/415-3-50	160L-4							1	1	
	18.5kW-4P-380/415-3-50	180MC-4									
AIR FILTER	46T-458W-576H-L1										
	46T-458W-424H-L1										
	46T-534W-424H-L1										
	46T-534W-574H-L1										
	46T-588W-465H-L1		9	9							
	46T-508W-465H-L1				12	12					
	46T-508W-615H-L1						12	12			
	46T-555W-632H-L1								12	12	

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