

BROCHURE

Operating Suite HVAC

ThermalTrue®
HVAC & R

OSX/SCU-L Series



OSX	50,60, 80, 100, 120, 150, 200, 250	X407	SA/AM/CA/EX	BC/EC
Series	Capacity in kBTu/h	Direct Expansion R407c	SA : Std Ambient 35°C AM : AntiMicrobial CA : Corrosive Ambient EX : Explosive Ambient	BC : Backward Inclined ECF : EC Fan

MODEL			OS-50	OS-80	OS-100	OS-120	OS-150	OS-200	OS-250
			TCU50 x 1	TCU40 x 2	TCU50 x 2	TCU60 x 2	TCU75 x 2	TCU100 x 2	TCU125 x 2
CLASS 10,000 RANGE									
A (Minor): 26m2/108m3		CMH(ACH)	2700(25x)	3240(30x)	4320(40x)				
B (General): 42m2/126m3		CMH(ACH)		3150(25x)	3780(30x)	5040(40x)			
C (Major): 50m2/150m3		CMH(ACH)			3750(25x)	4500(30x)	6000(40x)		
D (Cardiac): 60m2/160m3		CMH(ACH)				4500(25x)	5400(30x)	7200(40x)	
Room Condition		T °C	20 - 22						
		RH%	40 - 60%						
GENERAL DATA									
Casing		AHU	Thermalbreak 50mm Double Skin PU Panel & Al Frame System						
		ACCU	GI Panel with Powder Coat Finish						
Indoor: DX AHU Series	Height	mm	1.015	1.015	1.165	1.165	1.165	1.165	1.320
	Width	mm	1.015	1.015	1.015	1.320	1.320	1.625	1.625
	Total Depth	mm	3.861	3.861	3.861	3.861	3.861	3.861	3.861
Outdoor: TCU Series	Height	mm	940	940	940	940	940	940	940
	Width	mm	875	875	875	875	875	875	875
	Depth	mm	1.023	1.023	1.023	1.023	1.188	1.188	1.188
	No. of Unit	mm	1	2	2	2	2	2	2
Weight	Indoor	Total (kg)	320	348	380	437	457	589	658
	Outdoor	Total (kg)	320	634	640	704	698	767	777
PERFORMANCE									
Supply Air Flow		CFM	1,200	1,850	2,340	3,085	3,500	4,650	6,000
		CMH	2,039	3,143	3,976	5,241	5,947	7,900	10,194
Total Capacity		Btu/h	48,856	78,518	98,609	129,800	145,248	194,218	252,703
		kW	14.32	23.01	28.90	38.04	42.57	56.92	74.06
Sensible Capacity		Btu/h	33,305	52,979	66,651	87,780	98,686	131,609	170,889
		kW	9.76	15.53	19.53	25.73	28.92	38.57	50.08
SHR			0.682	0.675	0.676	0.676	0.679	0.678	0.676
Power Input	Indoor	kW	9.00	13.65	17.69	21.80	25.44	34.73	44.83
	Outdoor	kW	5.21	8.76	10.42	12.24	15.48	19.48	21.90
System EER	Cooling Output	kW	14.32	23.01	28.90	38.04	42.57	56.92	74.06
	Power Input	kW	14.21	22.41	28.11	34.04	40.92	54.21	66.73
	EER	kW/kW	1.01	1.03	1.03	1.12	1.04	1.05	1.11
Running Current	Indoor	A	22.7	34.1	44.0	54.8	63.0	88.0	112.6
	Outdoor	A	9.5	16.0	19.0	22.0	28.8	35.2	38.6
ACCESSORIES CHECKLIST									
Equipment Layout		Sections	Sections: Mixing, Filter, Access, Cooling Coil, UVC, Heater, Fan, Hepa						
		Orientation	SA, FA, RA Orientation						
		Arrangement	Vertical, Horizontal						
Air Flow and Pressure Control		Fan	Air Flow Switch						
		Motor	Motor Inverter						
		Damper	SA/FA/RA Class 3 Volume Damper with Motor Actuator						
		Filter Condition	Differential Pressure Gauge/Transmitter						
IAQ & Sterile Application		Panel	Double Skin Washable Food Grade Liners (Optional: Stainless Steel)						
		Coil	UVC lamp, Safety Door Switch						
		Drainpan	Stainless Steel Drainpan						
		Filter Mount	Low Bypass Universal Filter Holder						
Electrical & Component Protection		Filter Class	Pre Installed G4 Pre Filter, F9 Medium Deep Pleat Filter						
		Electrical	Phase protector, Contactor and Overload						
		Refrigerant	High & Low Pressure Switch						
		Charge Control	Drier and Sight Glass						
		Isolation	Isolation Ball Valves						
		Flow	Suction Accumulator, Liquid Receiver						

Indoor (Backward Inclined Fan Series)

DX AHU MODEL with DWDI Fan/Inverter			OSX-50	OSX-80	OSX-100	OSX-120	OSX-150	OSX-200	OSX-250
GENERAL DATA									
Casing		Frame	Extruded thermalbreak Al profile and nylon corner piece (Option: 316L)						
		Panel	Double Skin PU Panel with Pre Coated Exterior/GI Interior (Option: 316L)						
		Insulation	50mm Rigid Polyurethane of density 48kg/m3						
Section 01: MB,Filter,DX Coil,UVC Lamp	Modular Size	M _n x M _w	30 x 30	30 x 30	35 x 30	35 x 40	35 x 40	35 x 50	40 x 50
	Height	mm	1.015	1.015	1.165	1.165	1.165	1.165	1.320
	Width	mm	1.015	1.015	1.015	1.320	1.320	1.625	1.625
	Depth 01	mm	2.235	2.235	2.235	2.235	2.235	2.235	2.235
	Section 02: Electric Heater,Fan Motor	Depth 02	mm	1.626	1.626	1.626	1.626	1.626	1.626
Total Depth		mm	3.861	3.861	3.861	3.861	3.861	3.861	3.861
Weight		kG	320	348	380	437	457	589	658
		lb	703	765	835	962	1.006	1.295	1.449
PERFORMANCE									
Supply Air Flow		CFM	1.200	1.850	2.340	3.085	3.500	4.650	6.000
		CMH	2.039	3.143	3.976	5.241	5.947	7.900	10.194
Total Capacity		Btu/h	48.856	78.518	98.609	129.800	145.248	194.218	252.703
		kW	14.32	23.01	28.90	38.04	42.57	56.92	74.06
Sensible Capacity		Btu/h	33.305	52.979	66.651	87.780	98.686	131.609	170.889
		kW	9.76	15.53	19.53	25.73	28.92	38.57	50.08
SHR			0.682	0.675	0.676	0.676	0.679	0.678	0.676
MIXING BOX									
Arrangement			Top & Rear						
Top Damper: Return Air (50%)	Height	mm	300	300	350	400	400	450	450
	Width	mm	300	450	450	550	600	750	750
	Air Flow	CFM	600	925	1.170	1.543	1.750	2.325	3.000
		CMH	1.019	1.572	1.988	2.621	2.973	3.950	5.097
	Air Velocity	m/s	3.15	3.23	3.51	3.31	3.44	3.25	4.20
Rear Damper: Fresh Air (50%)	Pressure Drop	Pa	5						
	Height	mm	300	300	350	400	400	450	450
	Width	mm	300	450	450	550	600	750	750
	Air Flow	CFM	600	925	1.170	1.543	1.750	2.325	3.000
		CMH	1.019	1.572	1.988	2.621	2.973	3.950	5.097
Air Velocity	m/s	3.15	3.23	3.51	3.31	3.44	3.25	4.20	
Pressure Drop	Pa	5							
FILTER									
1st Filter: Pre Filter (G3) Synthetic washable R-29	Full Frame quantity		1	1	1	1	1	2	2
	Half Frame quantity		0	0	0	1	1	0	2
	Face velocity	m/s	1.52	2.35	2.97	2.61	2.96	2.95	2.54
	Initial Pres. Drop	Pa	27	97	117	105	117	116	103
	Final Pres. Drop	Pa	200						
	AVG Pres Drop	Pa	113	149	158	153	158	158	152
2nd Filter: Medium Rigid (F9) Fiberglass	Full size quantity		1	1	1	1	1	2	2
	Half size quantity		0	0	0	1	1	0	2
	Face velocity	m/s	1.52	2.35	2.97	2.61	2.96	2.95	2.54
	Initial Pres. Drop	Pa	95	141	176	156	176	175	152
	Final Pres. Drop	Pa	450						
	AVG Pres Drop	Pa	273	296	313	303	313	313	301
DX Coil: R407c									
Model	Tube ø	in	3/8						
	FH	mm	700	700	850	850	850	850	1150
	FL	mm	663	663	663	968	968	1273	1273
	Row		5	8	8	6	8	8	8
	FPI		12	10	10	12	10	10	10
	NC		10	14	17	17	34	34	46
	No. of Circuit		1	2	2	2	2	2	2
Air Side	EADB / EAWB	°C/°C	26.7/19.4						
	LADB / LAWB	°C/°C	12.4/12.0	11.9/11.5	11.9/11.6	12.0/11.6	12.0/11.6	12.0/11.7	11.9/11.6
	Pressure Drop	Pa	38	92	98	86	103	104	96
UVC Lamp									
Model: RLMXtreme Lamp Dia 15mm/0.6"	Model No.		22				33		
	Length	mm	546				838		
	UV Output	uW/cm²	180				265		
	Quantity		1	1	1	1	1	2	2
	Power	Watt	58	58	58	75	75	150	150
	Current	A	0.8	0.8	0.8	0.8	0.8	1.6	1.6
Electric Heater									
Model: ILF Finned air heaters	Total Load	kW	7.1	10.9	14.1	18.2	20.6	28.0	36.1
	EADB / LADB	°C/°C	12.4/22.7	11.9/22.1	11.9/22.3	12.0/22.2	12.0/22.2	12.0/22.4	11.9/22.3
	Power Supply		380V/50Hz						
	Current	A	18.7	28.7	37.1	47.9	54.2	73.7	95.0
	Pressure Drop	Pa	20						
Fan & Fan Motor									
Working Point	Internal static	Pa	164	168	175	162	179	180	172
	External Static	Pa	650						
	Static Pressure	Pa	814	818	825	812	829	830	822
	Air Flow	CFM	1.200	1.850	2.340	3.085	3.500	4.650	6.000
Backward Inclined DWDI	BC Model		200R	250R	280R	315R	355R	400R	450R
	Outlet Velocity	m/s	8.6	8.4	8.5	8.9	8.0	8.5	8.7
	Fan speed	RPM	5.056	3.622	3.255	2.914	2.539	2.279	2.016
	Shaft Power	kW	1.04	1.54	2.00	2.54	3.01	3.89	4.90
Motor	Power Output	kW	1.5	2.2	3.0	3.0	4.0	5.5	7.5
	Poles		2	2	2	2	2	2	2
	Motor Inverter	kW	1.5	2.2	3.0-5.5			5.5-7.5	
	Power supply		380V/3Ph/50Hz						
	Power Input	kW	1.8	2.7	3.5	3.5	4.8	6.4	8.4
	Current	A	3.2	4.6	6.1	6.1	8.0	11.1	14.4
Belt Drive	Type		SPZ	SPZ	SPA	SPA	SPA	SPA	SPA
	Fan Pulley Dia	mm	63	125	132	100	140	190	160
	Motor Pulley Dia	mm	112	160	150	100	125	150	112
	Belt Qty		1	1	1	1	1	1	2

Indoor (EC Fan Series)

DX AHU MODEL with EC Fan			OSX-50	OSX-80	OSX-100	OSX-120	OSX-150	OSX-200	OSX-250
GENERAL DATA									
Casing		Frame	Extruded thermalbreak Al profile and nylon corner piece (Option: 316L)						
		Panel	Double Skin PU Panel with Pre Coated Exterior/GI Interior (Option: 316L)						
		Insulation	50mm Rigid Polyurethane of density 48kg/m3						
Section 01: MB, Filter, DX Coil, UVC Lamp	Modular Size	M _n x M _w	30 x 30	30 x 30	35 x 30	35 x 40	35 x 40	35 x 50	40 x 50
	Height	mm	1.015	1.015	1.165	1.165	1.165	1.165	1.320
	Width	mm	1.015	1.015	1.015	1.320	1.320	1.625	1.625
	Depth 01	mm	2.235	2.235	2.235	2.235	2.235	2.235	2.235
	Depth 02	mm	1.626	1.626	1.626	1.626	1.626	1.626	1.626
Electric Heater, Fan Motor	Total Depth	mm	3.861	3.861	3.861	3.861	3.861	3.861	3.861
		kG	320	348	380	437	457	589	658
Weight		lb	703	765	835	962	1.006	1.295	1.449
PERFORMANCE									
Supply Air Flow		CFM	1.200	1.850	2.340	3.085	3.500	4.650	6.000
		CMH	2.039	3.143	3.976	5.241	5.947	7.900	10.194
Total Capacity		Btu/h	48.856	78.518	98.609	129.800	145.248	194.218	252.703
		kW	14.32	23.01	28.90	38.04	42.57	56.92	74.06
Sensible Capacity		Btu/h	33.305	52.979	66.651	87.780	98.686	131.609	170.889
		kW	9.76	15.53	19.53	25.73	28.92	38.57	50.08
SHR			0.682	0.675	0.676	0.676	0.679	0.678	0.676
MIXING BOX									
Arrangement			Top & Rear						
Top Damper: Return Air (50%)	Height	mm	300	300	350	400	400	450	450
	Width	mm	300	450	450	550	600	750	750
	Air Flow	CFM	600	925	1.170	1.543	1.750	2.325	3.000
	Air Flow	CMH	1.019	1.572	1.988	2.621	2.973	3.950	5.097
	Air Velocity	m/s	3.15	3.23	3.51	3.31	3.44	3.25	4.20
	Pressure Drop	Pa	5						
Rear Damper: Fresh Air (50%)	Height	mm	300	300	350	400	400	450	450
	Width	mm	300	450	450	550	600	750	750
	Air Flow	CFM	600	925	1.170	1.543	1.750	2.325	3.000
	Air Flow	CMH	1.019	1.572	1.988	2.621	2.973	3.950	5.097
	Air Velocity	m/s	3.15	3.23	3.51	3.31	3.44	3.25	4.20
	Pressure Drop	Pa	5						
FILTER									
1st Filter: Pre Filter (G3) Synthetic washable R-29	Full Frame quantity		1	1	1	1	1	2	2
	Half Frame quantity		0	0	0	1	1	0	2
	Face velocity	m/s	1.52	2.35	2.97	2.61	2.96	2.95	2.54
	Initial Pres. Drop	Pa	27	97	117	105	117	116	103
	Final Pres. Drop	Pa	200						
2nd Filter: Medium Rigid (F9) Fiberglass	AVG Pres Drop		113	149	158	153	158	158	152
	Full size quantity		1	1	1	1	1	2	2
	Half size quantity		0	0	0	1	1	0	2
	Face velocity	m/s	1.52	2.35	2.97	2.61	2.96	2.95	2.54
	Initial Pres. Drop	Pa	95	141	176	156	176	175	152
	Final Pres. Drop	Pa	450						
	AVG Pres Drop	Pa	273	296	313	303	313	313	301
DX Coil: R407c									
Model	Tube ø	in	3/8						
	FH	mm	700	700	850	850	850	850	1150
	FL	mm	663	663	663	968	968	1273	1273
	Row		5	8	8	6	8	8	8
	FPI		12	10	10	12	10	10	10
	NC		10	14	17	17	34	34	46
Air Side	No. of Circuit		1	2	2	2	2	2	2
	EADB / EAWB	°C/°C	26.7/19.4						
	LADB / LAWB	°C/°C	12.4/12.0	11.9/11.5	11.9/11.6	12.0/11.6	12.0/11.6	12.0/11.7	11.9/11.6
	Pressure Drop	Pa	38	92	98	86	103	104	96
UVC Lamp									
Model: RLMXtreme Lamp Dia 15mm/0.6"	Model No.		22				33		
	Length	mm	546				838		
	UV Output	uW/cm²	180				265		
	Quantity		1	1	1	1	1	2	2
	Power	Watt	58	58	58	75	75	150	150
	Current	A	0.8	0.8	0.8	0.8	0.8	1.6	1.6
Electric Heater									
Model: ILF Finned air heaters	Total Load	kW	7.1	10.9	14.1	18.2	20.6	28.0	36.1
	EADB / LADB	°C/°C	12.4/22.7	11.9/22.1	11.9/22.3	12.0/22.2	12.0/22.2	12.0/22.4	11.9/22.3
	Power Supply		380V/50Hz						
	Current	A	18.7	28.7	37.1	47.9	54.2	73.7	95.0
	Pressure Drop	Pa	20						
Fan & Fan Motor									
Working Point	Internal static	Pa	164	168	175	162	179	180	172
	External Static	Pa	650						
	Static Pressure	Pa	814	818	825	812	829	830	822
	Air Flow	CFM	1.200	1.850	2.340	3.085	3.500	4.650	6.000
EC Fan	EC Model		PFP A3-0280	PFP A3-0355	PFP A3-0400	PFP C3-0450	PFP C3-0450	PFP C3-0500	PFP B3-0500
	Power supply		400V/3Ph/50Hz						
	Duty Point PI	kW	1.25	1.82	2.27	2.94	3.28	4.30	5.21
	Duty Point RA	A	1.9	2.8	3.5	4.7	5.1	6.6	8.0
	Duty Point Efficiency	%	51.0	57.0	58.0	59.0	60.0	61.0	65.0
	dB(Discharge/Inlet)	dB	88/82	88/86	87/85	93/88	92/87	93/87	90/84
	Max. Power Input	kW	1.40	2.20	2.80	4.20	4.20	4.80	5.80
	Max. Current	A	2.1	3.3	4.2	6.5	6.5	7.5	8.8
	Max. Overall Efficiency	%	58.7	66.2	65.9	64.4	64.4	64.8	67.0

Single Condensing Unit SCU-L Series			Model	SCU20L	SCU25L	SCU30L	SCU40L	SCU50L	SCU60L
GENERAL DATA									
CAPACITY	Total Capacity		Btu/h	20.000	25.000	30.000	40.000	50.000	60.000
			kW	6	7	9	12	15	18
			kCal/h	5.038	6.298	7.558	10.077	12.596	15.115
AIR FLOW			CFM	2.031	2.001	1.913	4.709	4.591	4.356
			CMH	3.450	3.400	3.250	8.000	7.800	7.400
			L/s	958	944	903	2.222	2.167	2.056
CASING	Frame		Anodised/Powder Coated extruded aluminium profile and corner piece						
	Panel		GI with Powder Coat Finish						
DIMENSION	Height	mm	650	650	650	850	850	850	
	Width	mm	800	800	800	950	950	950	
	Depth	mm	350	350	350	450	450	450	
CONNECTION	Type		Braze Joint						
	Gas	in	3/4	3/4	7/8	7/8	7/8	7/8	
	Liquid	in	3/8	3/8	3/8	3/8	3/8	1/2	
COIL SPECIFICATION									
COIL	Type		Aluminium fin mechanically bonded to seamless copper tube						
	Face Area	m2	0,51	0,51	0,51	0,84	0,84	0,84	
	Entering (DB/WB)	°C/°C	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	
	Leaving (DB/WB)	°C/°C	43.1/26.1	44.3/26.4	46.1/26.8	42.0/25.8	43.0/26.0	44.6/26.4	
	Face Velocity	m/s	1,89	1,87	1,78	2,65	2,58	2,45	
	ΔP	Pa	19	23	31	34	40	53	
FAN & MOTOR SPECIFICATION									
FAN	Type		Coated GI Fan Blade with External Rotor Motor & Fan Guard						
	Diameter	mm	400	400	400	550	550	550	
	Quantity	Set	1	1	1	1	1	1	
	Power Supply	V-Ø-Hz	380/415-3-50						
	Rated Running Current (Each)	A	0,5	0,5	0,5	1,2	1,2	1,2	
	Rated Power Input (Each)	W	180	180	180	600	600	600	
COMPRESSOR									
COMPRESSOR	Type		Hermetic Scroll (R407c Series)						
	Capacity	mm	2.0hp	2.5hp	3.0hp	4.0hp	5.0hp	6.0hp	
	Quantity	Set	1	1	1	1	1	1	
	Power Supply	V-Ø-Hz	380/415-3-50						
	Rated Cooling Capacity	kW	6,6	7,8	9,2	11,4	14,3	16,6	
	Rated Running Current (Each)	A	3,9	4,7	5,4	6,6	7,7	9,1	
	Rated Power Input (Each)	kW	2,2	2,6	3,0	3,6	4,5	5,2	
	COP		3,02	3,03	3,06	3,15	3,17	3,22	
	Electrical		Contactor & Overload						
Pressure Switch		High & Low Pressure Switch							

Single Condensing Unit SCU-L Series			Model	SCU75L	SCU90L	SCU100L	SCU125L	SCU150L
GENERAL DATA								
CAPACITY	Total Capacity	Btu/h		75.000	90.000	100.000	125.000	150.000
		kW		22	26	29	37	44
		kCal/h		18.894	22.673	25.192	31.490	37.788
AIR FLOW		CFM		5.739	5.739	5.592	9.182	8.711
		CMH		9.750	9.750	9.500	15.600	14.800
		L/s		2.708	2.708	2.639	4.333	4.111
CASING	Frame			Anodised/Powder Coated extruded aluminium profile and corner piece				
	Panel			GI with Powder Coat Finish				
DIMENSION	Height	mm		950	950	950	1.150	1.150
	Width	mm		1.050	1.050	1.050	1.350	1.350
	Depth	mm		550	550	550	550	550
CONNECTION	Type			Braze Joint				
	Gas	in		1 1/8	1 3/8	1 3/8	1 3/8	1 3/8
	Liquid	in		1/2	5/8	5/8	3/4	5/8
COIL SPECIFICATION								
COIL	Type			Aluminium fin mechanically bonded to seamless copper tube				
	Face Area	m ²		1,21	1,21	1,21	1,82	1,82
	Entering (DB/WB)	°C/°C		35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0
	Leaving (DB/WB)	°C/°C		44.3/26.4	45.0/26.5	47.4/27.1	44.0/26.3	47.2/27.0
	Face Velocity	m/s		2,24	2,24	2,18	2,39	2,27
	ΔP	Pa		38	46	53	43	57
FAN & MOTOR SPECIFICATION								
FAN	Type			Coated GI Fan Blade with External Rotor Motor & Fan Guard				
	Diameter	mm		630	630	630	550	550
	Quantity	Set		1	1	1	2	2
	Power Supply	V-Ø-Hz		380/415-3-50				
	Rated Running Current (Each)	A		1,6	1,6	1,6	1,2	1,2
	Rated Power Input (Each)	W		800	800	800	600	600
COMPRESSOR								
COMPRESSOR	Type			Hermetic Scroll (R407c Series)				
	Capacity	mm		7.5hp	9.0hp	10.0hp	12.5hp	15.0hp
	Quantity	Set		1	1	1	1	1
	Power Supply	V-Ø-Hz		380/415-3-50				
	Rated Cooling Capacity	kW		23,0	25,8	30,2	34,6	44,0
	Rated Running Current (Each)	A		12,8	13,8	16,0	17,7	26,5
	Rated Power Input (Each)	kW		7,0	7,6	9,0	10,2	13,7
	COP			3,31	3,40	3,37	3,41	3,22
	Electrical			Contactor & Overload				
	Pressure Switch			High & Low Pressure Switch				

MODEL			50	75	100	125	150	200	250
PERFORMANCE									
Supply Air Flow		CFM	1.177	1.530	2.001	2.707	3.061	4.120	5.650
		CMH	2.000	2.600	3.400	4.600	5.200	7.000	9.600
Nominal Capacity		Btu/h	50.000	75.000	100.000	125.000	150.000	20.000	250.000
		kW	14,7	22,0	29,3	36,6	44,0	5,9	73,3
DIMENSION									
Section 01: MB,Filter,DX Coil,UVC Lamp	Height	mm	710	1.015	1.015	1.015	1.015	1.015	1.320
	Width	mm	1.015	1.015	1.015	1.320	1.320	1.625	1.625
	Depth 01	mm	1.320	1.320	1.320	1.320	1.320	1.320	1.320
Section 02: Electric Heater,Fan Motor	Depth 02	mm	2.300	2.300	2.300	2.300	2.300	2.300	2.300
	Total Depth	mm	3.620	3.620	3.620	3.620	3.620	3.620	3.620
MIXING BOX									
Arrangement			Top & Rear						
Top Damper: Return Air (23°C/50%RH)	Height	mm	310	310	310	410	410	410	410
	Width	mm	400	400	600	600	600	800	900
	Air Flow (75%)	CFM	883	1.148	1.501	2.031	2.295	3.090	4.238
		CMH	1.500	1.950	2.550	3.450	3.900	5.250	7.200
	Air Velocity	m/s	3,36	4,37	3,81	3,90	4,40	4,45	5,42
	Pressure Drop	Pa	5						
Rear Damper: Fresh Air (35°C/70%RH)	Height	mm	210	210	310	310	310	310	310
	Width	mm	250	250	250	300	300	400	500
	Air Flow (25%)	CFM	294	383	500	677	765	1.030	2.825
		CMH	500	650	850	1.150	1.300	1.750	4.800
	Air Velocity	m/s	2,65	3,44	3,05	3,43	3,88	3,92	8,60
	Pressure Drop	Pa	5						
FILTER									
1st Filter: Pre Filter (G4) Synthetic Disposable Depth 46mm	Full size quantity		0	1	1	1	1	2	2
	Half size quantity		1	0	0	1	1	0	2
	Face velocity	m/s	2,99	1,94	2,54	2,29	2,59	2,61	2,39
	Initial Pres. Drop	Pa	94	52	76	66	78	79	70
	Final Pres. Drop	Pa	200						
	AVG Pres Drop	Pa	147	126	138	133	139	140	135
2nd Filter: Medium Rigid (F9) Fiberglass Depth 292mm	Full size quantity		0	1	1	1	1	2	2
	Half size quantity		1	0	0	1	1	0	2
	Face velocity	m/s	2,99	1,94	2,54	2,29	2,59	2,61	2,39
	Initial Pres. Drop	Pa	177	119	152	138	155	156	144
	Final Pres. Drop	Pa	450						
	AVG Pres Drop	Pa	314	284	301	294	302	303	297
DX Coil									
Model	Tube ø	in	3/8	5/8					
	FH	mm	450	750	750	750	750	750	1050
	FL	mm	733	733	733	1038	1038	1343	1343
	Face Area	m²	0,33	0,55	0,55	0,78	0,78	1,01	1,41
	Row		6	5	6	6	6	6	6
	FPI		10	10	10	10	12	12	10
Air Side	EADB	°C	25,86						
	EAWB	°C	19,54						
	LADB	°C	10,61	10,45	10,37	10,45	10,37	10,3	10,92
	LAWB	°C	10,31	10,08	10,07	10,15	10,18	10,09	10,57
	Pressure Drop	Pa	65	35	68	62	96	104	81
UVC Lamp									
Model: RLMXtreme Lamp Dia 15mm/0.6"	Model No.		22			33			
	Length	mm	546			838			
	Power	Watt	58			75			
	UV Output	uW/cm²	180			265			
	Quantity		1	1	1	1	1	2	2
Electric Heater									
Model: ILF Finned air heaters	Total Load	kW	7,2	9,5	12,5	17	19,8	24	32
	EADB	°C	10,61	10,45	10,37	10,45	10,37	10,3	10,92
	LADB	°C	21,2	21,2	21,2	21,3	21,1	21,2	21,2
	Electrical Char.		380V/50Hz						
	Shape		""U" Form						
	Model No.		ILF13-FU	ILF13-FU	ILF13-FU	ILF14-FU	ILF15-FU	ILF17-FU	ILF16-FU
	Watts		1250	1250	1250	1500	1750	2250	2000
	Qty		6	8	10	12	11	12	17
	Pressure Drop	Pa	20						

MODEL			50	75	100	125	150	200	250
Fan Motor									
Working Point	Internal static	Pa	606	525	587	569	618	627	593
	External Static	Pa	550	650					
	Static Pressure	Pa	1.156	1.175	1.237	1.219	1.268	1.277	1.243
	Air Flow	CMH	2.000	2.600	3.400	4.600	5.200	7.000	9.600
Fan Model: Backward Inclined DIDW	SYQ Model		200R	250R	280R	280R	315R	355R	400R
	Outlet Velocity	m/s	8,5	7,0	7,3	9,8	8,9	9,5	10,4
	Fan speed	RPM	4450	3440	3044	3240	2841	2561	2271
	Shaft Power	kW	1,17	1,52	1,76	2,34	2,58	3,50	4,67
Motor	Power	kW	1,5	2,2	2,2	3	4	5,5	7,5
	Poles		2	2	2	2	2	2	2
	Power supply		380V/3Ph/50Hz						
Belt Drive	Type		SPZ	SPZ	SPZ	SPZ	SPA	SPA	SPA
	Fan Pulley Dia	mm	63	71	71	71	112	112	170
	Motor Pulley Dia	mm	100	85	75	80	112	100	132
	Belt Qty		2	2	2	2	1	2	1
	Belt Length	mm	1012	1112	1137	612	762	782	1032

AHU OSX Series_Plug Fan Yilida SYWA

MODEL			50	75	100	125	150	200	250
PERFORMANCE									
Supply Air Flow		CFM	1.177	1.530	2.001	2.707	3.061	4.120	5.650
		CMH	2.000	2.600	3.400	4.600	5.200	7.000	9.600
Nominal Capacity		Btu/h	50.000	75.000	100.000	125.000	150.000	20.000	250.000
		kW	14,7	22,0	29,3	36,6	44,0	5,9	73,3
DIMENSION									
Section 01: MB,Filter,DX Coil,UVC Lamp	Height	mm	710	1.015	1.015	1.015	1.015	1.015	1.320
	Width	mm	1.015	1.015	1.015	1.320	1.320	1.625	1.625
	Depth 01	mm	1.930	1.930	1.930	1.930	1.930	1.930	1.930
Section 02: Electric Heater,Fan Motor	Depth 02	mm	1.320	1.320	1.320	1.320	1.320	1.320	1.625
	Total Depth	mm	3.250	3.250	3.250	3.250	3.250	3.250	3.555
MIXING BOX									
Arrangement			Top & Rear						
Top Damper: Return Air (23°C/50%RH)	Height	mm	310	310	310	410	410	410	410
	Width	mm	400	400	500	600	600	800	900
	Air Flow (75%)	CFM	883	1.148	1.501	2.031	2.295	3.090	4.238
		CMH	1.500	1.950	2.550	3.450	3.900	5.250	7.200
	Air Velocity	m/s	3,36	4,37	4,57	3,90	4,40	4,45	5,42
	Pressure Drop	Pa	5						
Rear Damper: Fresh Air (35°C/70%RH)	Height	mm	210	210	310	310	310	310	310
	Width	mm	250	250	250	300	300	400	500
	Air Flow (25%)	CFM	294	383	500	677	765	1.030	2.825
		CMH	500	650	850	1.150	1.300	1.750	4.800
	Air Velocity	m/s	2,65	3,44	3,05	3,43	3,88	3,92	8,60
	Pressure Drop	Pa	5						
FILTER									
1st Filter: Pre Filter (G4) Synthetic Disposable Depth 46mm	Full size quantity		0	1	1	1	1	2	2
	Half size quantity		1	0	0	1	1	0	2
	Face velocity	m/s	2,99	1,94	2,54	2,29	2,59	2,61	2,39
	Initial Pres. Drop	Pa	94	52	76	66	78	79	70
	Final Pres. Drop	Pa	200						
	AVG Pres Drop	Pa	147	126	138	133	139	140	135
2nd Filter: Medium Rigid (F9) Fiberglass Depth 292mm	Full size quantity		0	1	1	1	1	2	2
	Half size quantity		1	0	0	1	1	0	2
	Face velocity	m/s	2,99	1,94	2,54	2,29	2,59	2,61	2,39
	Initial Pres. Drop	Pa	177	119	152	138	155	156	144
	Final Pres. Drop	Pa	450						
	AVG Pres Drop	Pa	314	284	301	294	302	303	297

AHU OSX Series_EC Fan ebmpapst K3G

MODEL			50	75	100	125	150	200	250
PERFORMANCE									
Supply Air Flow	CFM		1.177	1.530	2.001	2.707	3.061	4.120	5.650
	CMH		2.000	2.600	3.400	4.600	5.200	7.000	9.600
Nominal Capacity	Btu/h		50.000	75.000	100.000	125.000	150.000	20.000	250.000
	kW		14,7	22,0	29,3	36,6	44,0	5,9	73,3
DIMENSION									
Section 01:	Height	mm	710	1.015	1.015	1.015	1.015	1.015	1.320
MB,Filter,DX Coil,UVC Lamp	Width	mm	1.015	1.015	1.015	1.320	1.320	1.625	1.625
	Depth 01	mm	1.930	1.930	1.930	1.930	1.930	1.930	1.930
	Depth 02	mm	1.320	1.320	1.320	1.320	1.320	1.320	1.320
Electric Heater,Fan Motor	Total Depth	mm	3.250	3.250	3.250	3.250	3.250	3.250	3.250
MIXING BOX									
Arrangement			Top & Rear						
Top Damper:	Height	mm	310	310	310	410	410	410	410
Return Air (23°C/50%RH)	Width	mm	400	400	500	600	600	800	900
	Air Flow (75%)	CFM	883	1.148	1.501	2.031	2.295	3.090	4.238
		CMH	1.500	1.950	2.550	3.450	3.900	5.250	7.200
	Air Velocity	m/s	3,36	4,37	4,57	3,90	4,40	4,45	5,42
	Pressure Drop	Pa	5						
Rear Damper:	Height	mm	210	210	310	310	310	310	310
Fresh Air (35°C/70%RH)	Width	mm	250	250	250	300	300	400	500
	Air Flow (25%)	CFM	294	383	500	677	765	1.030	2.825
		CMH	500	650	850	1.150	1.300	1.750	4.800
	Air Velocity	m/s	2,65	3,44	3,05	3,43	3,88	3,92	8,60
	Pressure Drop	Pa	5						

MODEL			50	75	100	125	150	200	250
FILTER									
1st Filter: Pre Filter (G4) Synthetic Disposable Depth 46mm	Full size quantity		0	1	1	1	1	2	2
	Half size quantity		1	0	0	1	1	0	2
	Face velocity	m/s	2,99	1,94	2,54	2,29	2,59	2,61	2,39
	Initial Pres. Drop	Pa	94	52	76	66	78	79	70
	Final Pres. Drop	Pa	200						
	AVG Pres Drop	Pa	147	126	138	133	139	140	135
2nd Filter: Medium Rigid (F9) Fiberglass Depth 292mm	Full size quantity		0	1	1	1	1	2	2
	Half size quantity		1	0	0	1	1	0	2
	Face velocity	m/s	2,99	1,94	2,54	2,29	2,59	2,61	2,39
	Initial Pres. Drop	Pa	177	119	152	138	155	156	144
	Final Pres. Drop	Pa	450						
	AVG Pres Drop	Pa	314	284	301	294	302	303	297
DX Coil									
Model	Tube ø	in	3/8						
	FH	mm	450	750	750	750	750	750	1050
	FL	mm	733	733	733	1038	1038	1343	1343
	Face Area	m²	0,33	0,55	0,55	0,78	0,78	1,01	1,41
	Row		6	5	6	6	6	6	6
	FPI		10	10	10	10	12	12	10
Air Side	EADB	°C	25,86						
	EAWB	°C	19,54						
	LADB	°C	10,61	10,45	10,37	10,45	10,37	10,3	10,92
	LAWB	°C	10,31	10,08	10,07	10,15	10,18	10,09	10,57
	Pressure Drop	Pa	65	35	68	62	96	104	81
UVC Lamp									
Model: RLMXtreme Lamp Dia 15mm/0.6"	Model No.		22				33		
	Length	mm	546				838		
	Power	Watt	58				75		
	UV Output	uW/cm²	180				265		
	Quantity		1	1	1	1	1	2	2
Electric Heater									
Model: ILF Finned air heaters	Total Load	kW	7,2	9,5	12,5	17	19	26	33,5
	EADB	°C	10,61	10,45	10,37	10,45	10,37	10,3	10,92
	LADB	°C	21,2	21,2	21,2	21,3	21,1	21,2	21,2
	Electrical Char.		380V/50Hz						
	Shape		"U" Form						
	Model No.		ILF13-FU	ILF13-FU	ILF13-FU	ILF14-FU	ILF15-FU	ILF17-FU	ILF16-FU
	Watts		1250	1250	1250	1500	1750	2250	2000
	Qty		6	8	10	12	11	12	17
Pressure Drop	Pa	20							
Fan Motor									
Working Point	Internal static	Pa	606	525	587	569	618	627	593
	External Static	Pa	650						
	Static Pressure	Pa	1.256	1.175	1.237	1.219	1.268	1.277	1.243
	Air Flow	CMH	2.000	2.600	3.400	4.600	5.200	7.000	9.600
Fan Model: EC Fan, ebmpapst	Radipac K3G		355PH4905	355PH4905	355PH4905	310PH5807	450PB2405	450PB2405	500PB3305
	Fan speed	RPM	2735	2688	2857	3778	2164	2314	2135
	Current Draw	A	3,0	3,0	3,0	4,6	8	8	9
	Input Power	kW	1,46	1,51	1,88	2,47	2,98	3,71	5,04



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