

## OPTIMA/OPTIMA-INV

OPTIMA family includes standard series of OPTIMA and DC inverter series of OPTIMA-INV, is applicable to large and medium-sized data center and electronic equipment room. It has a wide range cooling capacity, high operating reliability and stability. Equipped with EC fan, precise control of temperature  $\pm 1^{\circ}\text{C}$ , relative humidity  $\pm 5\%$  which can assure the reliable and stable environment of the data room.



Standard series of OPTIMA has various type of cooling system, direct expansion with air-cooled condenser, direct expansion with water-cooled condenser, chilled water with either single coil or double coil. DC inverter series of OPTIMA-INV has two types of cooling schemes: direct expansion with air-cooled condensers, direct expansion with water-cooled condenser.

There are up flow and down flow for supply air and up, down, front and back for return air to meet the different needs of equipment room. All units can be easily maintained from the front.

Direct expansion air-cooled (DXA) work with CME or AMAE air-cooled condenser.

Direct expansion water-cooled (DXW) work with CMEH dry cooler or central cooling tower and pumping group.

### OPTIMA.DXA/DXW

Model	16E1A1 20E1A1 26E1A2 30E1A2 35E1A2 40E2A3 50E2A3 60E2A4 70E2A4 80E2A4 90E2A5 100E2A5														
Supply air scheme	O:Up flow; U:Down flow														
Power source	380V-3Ph-50Hz														
Cooling capacity															
DXA(1)	kW	18.9	22.0	28.5	31.9	37.6	46.6	55.1	65.3	74.5	84.6	90.7	103.4		
DXW(2)	kW	17.6	21.5	27.9	31.2	36.1	45.8	57.2	62.1	72.2	82.3	90.4	106.7		
Compressor	Hermetic Scroll Type														
Supply fan															
Type	EC Centrifugal Fan														
Qty. of fan	n.	1	1	1	1	1	2	2	3	3	3	3	3		
Air volume	m <sup>3</sup> /h	5750	6320	8900	9600	9600	12600	13600	17800	19200	21000	24600	27900		
Electric heater capacity	kW	6	6	9	9	9	13.5	13.5	18	18	18	18	18		
Humidification capacity	Kg/h	3	3	5	5	5	8	8	8	8	8	8	8		
Air cooled condenser(DXA)	CME5*1 CME8*1 CME10*1 CME10* CME15*1 CME8*2 CME10*2 CME10*2 CME15*2 CME15*2 CME20*2 CME20*2														
Width*Depth*Height	mm	875*890*1960			1480*890*1960			1750*890*1960			2490*890*1960			3095*890*2050	
DXA Weight	Kg	310	360	370	410	415	620	670	930	980	1020	1210	1250		
DXW Weight	Kg	322	374	385	423	431	656	709	971	1013	1076	1256	1300		

(1) Return air dry bulb temperature 24°C,RH50%,Outdoor dry bulb temperature35°C;

(2) Return air dry bulb temperature 24°C,RH50%,inlet condensing water temperature 30°C, standard water flow.

## OPTIMA-INV.DXA/DXW

Model		16E1A1	22E1A2	30E1A2	35E2A3	45E2A3	55E2A3	60E2A4	70E2A4	80E2A4	90E2A5	110E2A5
Supply air scheme		O:Up flow; U:Down flow										
Power source		380V-3Ph-50Hz										
Cooling capacity												
DXA(1)	kW	16.3	22.3	30.2	36.9	47.2	55.2	61.6	70.8	80.3	92.3	112.8
DXW(2)	kW	17.2	23.5	32.1	36.8	48.1	56.4	63.5	73.5	82.3	93.7	115.4
Compressor		Hermetic DC Inverter Scroll Type										
Supply fan												
Type		EC Centrifugal Fan										
Qty. of fan		1	1	1	2	2	2	3	3	3	3	3
Air volume		5750	8900	9600	12600	12600	13600	17800	19200	21000	24600	27900
Electric heater capacity	n.	6	9	9	13.5	13.5	13.5	18	18	18	18	18
Humidification capacity	Kg/h	3	5	5	8	8	8	8	8	8	8	8
Air cooled condenser(DXA)	Model*n.	AMAE6*1	AMAE8*1	AMAE10*1	AMAE6*2	AMAE8*2	AMAE8*2	AMAE10*2	AMAE12*2	AMAE15*2	AMAE18*2	AMAE20*2
Dry cooler(DXW)	Model*n.	CMEH20*1	CMEH30*1	CMEH40*1	CMEH50*1	CMEH60*1	CMEH70*1	CMEH80*1	CMEH50*2	CMEH50*2	CMEH60*2	CMEH70*2
Width*Depth*Height	mm	875*890*1960	1480*890*1960	1750*890*1960			2490*890*1960			3095*890*2050		
DXA Weight	Kg	348	440	475	710	750	790	960	1010	1150	1270	1350
DXW Weight	Kg	395	490	510	750	810	860	1080	1130	1250	1430	1540

(1) Return air dry bulb temperature 24°C,RH50%,outdoor dry bulb temperature35°C, variable speed compressor is operating at economicspeed;

(2) Return air dry bulb temperature 24°C,RH50%, inlet condensing water temperature 30°C, water flow under standard condition, variable speed compressor is operating at economic speed .

## OPTIMA.CW/CWD

Model		20A1	30A1	40A2	45A2	55A3	65A3	80A4	100A4	120A5	140A5	
Supply air scheme		O:Up flow; U:Down flow										
Power source		380V-3Ph-50Hz										
Cooling capacity(1)	kW	24.8	30.3	40.8	47.7	55.8	66.5	80.5	100.2	112.1	134.5	
Supply fan												
Type		EC Centrifugal Fan										
Qty. of fan	n.	1	1	1	1	2	2	3	3	3	3	
Air volume	m³/h	6750	6750	9600	9600	15300	15300	21600	21600	28900	28900	
Electric heater capacity	kW	6	6	9	9	13.5	13.5	18	18	18	18	
Humidification capacity	Kg/h	3	3	5	5	8	8	8	8	8	8	
Width*Depth*Height	mm	875*890*1960	1480*890*1960		1750*890*1960			2490*890*1960		3095*890*2050		
CW Weight	Kg	310	335	380	410	470	510	550	575	660	690	
CWD Weight	Kg	327	356	408	448	504	556	600	642	730	785	

(1) Return air dry bulb temperature 24°C,RH50%,inlet/outlet chilled water temperature 7°C/12°C.