

STULZ

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CyberAir 3 DX

Technical Data

CyberAir 3 with EC compressor								
DX and Dual-Fluid units, single-circuit (1 compressor)		ALD/ALU xxx AS/GS/ASCW/GSCW				ASD/ASU xxx AS/GS/ASCW/GSCW		
		191	221	251	281	321	371	391
Air flow	m ³ /h	5,000	5,500	7,000	7,000	8,000	10,000	11,000
DX cooling capacity (total) ¹⁾ R410A	kW	20.9	23.3	27.6	29.9	32.0	37.2	40.0
DX cooling capacity (sensible) ¹⁾ R410A	kW	20.9	23.3	27.6	29.9	32.0	37.2	40.0
Compressor power consumption ¹⁾ R410A	kW	4.8	5.5	6.7	7.4	7.9	9.3	10.4
CW cooling capacity (total) ²⁾	kW	22.0	23.9	29.7	29.7	33.5	41.2	44.9
CW cooling capacity (sensible) ²⁾	kW	22.0	23.9	29.7	29.7	33.5	41.2	44.9
AS, GS units Downflow								
Max. available ESP	Pa	300	300	300	300	300	300	290
Noise level ³⁾	dBA	45.5	47.0	50.8	50.8	53.0	56.6	58.2
Fan power consumption ⁴⁾	kW	0.2	0.3	0.6	0.6	0.8	1.6	2.1
Fan power consumption ⁴⁾ with option high efficiency rear panel	kW	0.2	0.3	0.5	0.5	0.8	1.5	1.9
Weight AS/GS	kg	462/475	462/475	462/475	470/481	470/481	470/481	470/481
AS, GS units Upflow								
Max. available ESP	Pa	450	450	450	450	450	430	270
Noise level ³⁾	dBA	48.0	49.3	52.8	52.8	54.8	58.3	59.9
Fan power consumption ⁴⁾	kW	0.3	0.4	0.7	0.7	0.9	1.7	2.3
Weight AS/GS	kg	430/441	430/441	430/441	435/445	435/445	435/445	435/445
ASCW, GSCW units Downflow								
Max. available ESP	Pa	300	300	300	300	300	300	200
Noise level ³⁾	dBA	46.2	47.7	51.5	51.5	53.7	57.4	59.0
Fan power consumption ⁴⁾	kW	0.3	0.3	0.7	0.7	1.0	1.8	2.4
Fan power consumption ⁴⁾ with option high efficiency rear panel	kW	0.2	0.3	0.6	0.6	0.9	1.7	2.2
Weight ASCW/GSCW	kg	488/498	488/498	488/498	495/506	495/506	495/506	495/506
ASCW, GSCW units Upflow								
Max. available ESP	Pa	450	450	450	450	450	360	180
Noise level ³⁾	dBA	48.6	50.0	53.5	53.5	55.6	59.1	60.6
Fan power consumption ⁴⁾	kW	0.3	0.4	0.8	0.8	1.1	2.0	2.7
Weight ASCW/GSCW	kg	445/454	445/454	445/454	447/458	460/470	460/470	460/470
Size		2	2	2	2	2	2	2

DX and Dual-Fluid units, dual-circuit (2 compressors)		ASD/ASU xxx AS/GS/ASCW/GSCW						
		412	462	522	562	622	712	812
Air flow	m ³ /h	11,000	12,000	14,000	15,000	17,000	20,000	20,000
DX cooling capacity (total) ¹⁾ R410A	kW	43.2	48.2	53.4	56.9	64.3	72.7	82.0
DX cooling capacity (sensible) ¹⁾ R410A	kW	43.2	48.2	53.4	56.9	64.3	72.7	82.0
Compressor power consumption ¹⁾ R410A	kW	9.6	11.1	12.4	12.6	14.2	16.1	18.7
CW cooling capacity (total) ²⁾	kW	44.0	47.6	54.6	60.1	67.2	77.8	80.0
CW cooling capacity (sensible) ²⁾	kW	44.0	47.6	54.6	60.1	67.2	77.8	80.0
AS, GS units Downflow								
Max. available ESP	Pa	300	300	300	300	300	300	300
Noise level ³⁾	dBA	53.5	54.6	56.5	55.4	57.0	59.1	57.5
Fan power consumption ⁴⁾	kW	1.1	1.4	2.2	1.8	2.6	4.1	2.5
Fan power consumption ⁴⁾ with option high efficiency rear panel	kW	1.0	1.3	2.0	1.7	2.4	3.9	2.4
Weight AS/GS	kg	580/595	585/596	615/630	720/754	725/755	730/756	835/860
AS, GS units Upflow								
Max. available ESP	Pa	450	450	450	450	450	270	450
Noise level ³⁾	dBA	55.5	56.5	58.3	57.2	58.8	60.8	60.0
Fan power consumption ⁴⁾	kW	1.3	1.7	2.5	2.1	2.9	4.7	3.0
Weight AS/GS	kg	547/555	548/560	581/592	670/703	675/704	680/706	795/820
ASCW, GSCW system Downflow								
Max. available ESP	Pa	300	300	300	300	300	250	300
Noise level ³⁾	dBA	54.4	55.5	57.5	55.8	57.4	59.5	58.9
Fan power consumption ⁴⁾	kW	1.3	1.7	2.7	2.1	2.9	4.6	3.5
Fan power consumption ⁴⁾ with option high efficiency rear panel	kW	1.2	1.6	2.4	1.9	2.7	4.3	3.2
Weight ASCW/GSCW	kg	625/635	626/637	655/672	781/808	789/815	793/818	910/940
ASCW, GSCW system Upflow								
Max. available ESP	Pa	450	450	410	450	420	190	450
Noise level ³⁾	dBA	56.3	57.4	59.2	57.7	59.3	61.3	61.2
Fan power consumption ⁴⁾	kW	1.6	2.0	3.1	2.3	3.3	5.2	3.5
Weight ASCW/GSCW	kg	582/602	583/604	614/636	735/763	741/770	742/772	870/894
Size		3	3	3	4	4	4	5

Remarks: All data apply at 400 V/3 ph/50 Hz with 20 Pa ESP (external static pressure) for downflow units and 50 Pa ESP for upflow units

¹⁾ DX cooling capacity for AS, GS units; return air conditions: 26 °C, 40 % r. h.; condensing temperature 45 °C

²⁾ CW cooling capacity for ASCW and GSCW units; return air conditions: 26 °C, 40 % r. h.; water temperature: 7 °C/12 °C

³⁾ Noise level at 2 m distance, free field ⁴⁾ The electric power input of the fans must be added to the room load Technical data subject to change without notice.

Dimensions and number of fans					
Size		2	3	4	5
Width	mm	1,400	1,750	2,200	2,550
Height	mm	1,980	1,980	1,980	1,980
Depth	mm	890	890	890	890
Number of fans		1	2	2	3
Humidifier output and heating capacity					
Size		2	3	4	5
Max. humidifier capacity	kg/h	8	15	15	15
Max. no of heating steps (Downflow)		2	2	3	3
Max. heating capacity per step	kW	9	9	9	9
Max. overall heating capacity	kW	18	18	27	27
Max. no of heating steps (Upflow)		2	2	3	3
Max. heating capacity per step	kW	9	9	9	9
Max. overall heating capacity	kW	18	18	27	27

CyberAir 3 with EC compressor								
GES units, single-circuit (1 compressor)								
ALD/ALU xxx GES		191	221	251	281	321	371	391
Air flow	m ³ /h	5,000	5,500	7,000	7,500	8,000	9,500	10,500
DX cooling capacity (total) ¹⁾ R410A	kW	20.9	23.3	27.6	31.4	32.4	37.3	40.4
DX cooling capacity (sensible) ¹⁾ R410A	kW	20.9	23.3	27.6	31.4	32.4	37.3	40.4
Compressor power consumption ¹⁾ R410A	kW	4.8	5.5	6.7	7.9	7.9	9.3	10.4
CW cooling capacity (total) ²⁾	kW	20.4	22.3	27.1	30.0	31.0	35.7	39.1
CW cooling capacity (sensible) ²⁾	kW	20.4	22.3	27.1	30.0	31.0	35.7	39.1
GES units Downflow								
Max. available ESP	Pa	300	300	300	300	300	300	300
Noise level ³⁾	dBA	46.2	47.7	51.6	52.7	50.5	52.6	53.8
Fan power consumption ⁴⁾	kW	0.3	0.3	0.7	0.8	0.5	0.9	1.2
Fan power consumption ⁴⁾ with option high efficiency rear panel	kW	0.2	0.3	0.6	0.7	0.5	0.8	1.1
Weight	kg	480	480	495	505	615	615	615
GES units Upflow								
Max. available ESP	Pa	450	450	450	450	450	450	450
Noise level ³⁾	dBA	48.7	50.0	53.5	54.6	52.8	54.7	55.8
Fan power consumption ⁴⁾	kW	0.3	0.4	0.8	0.9	0.7	1.1	1.4
Weight	kg	450	450	460	472	585	585	585
Size		2	2	2	2	3	3	3

GES units, dual-circuit (2 compressors)								
ALD/ALU xxx GES		412	462	522	562	622	712	812
Air flow	m ³ /h	10,000	11,500	13,500	13,000	15,000	17,000	20,000
DX cooling capacity (total) ¹⁾ R410A	kW	42.0	48.0	53.3	55.1	63.0	72.2	82.0
DX cooling capacity (sensible) ¹⁾ R410A	kW	42.0	48.0	53.3	55.1	63.0	72.2	82.0
Compressor power consumption ¹⁾ R410A	kW	9.3	10.7	12.0	12.2	13.7	16.1	18.7
CW cooling capacity (total) ²⁾	kW	38.8	44.4	50.2	50.9	58.1	65.3	75.8
CW cooling capacity (sensible) ²⁾	kW	38.8	44.4	50.2	50.9	58.1	65.3	75.8
GES units Downflow								
Max. available ESP	Pa	300	300	300	300	300	300	300
Noise level ³⁾	dBA	50.7	52.5	54.5	50.2	53.1	55.5	58.9
Fan power consumption ⁴⁾	kW	0.6	0.9	1.5	1.0	1.5	2.2	3.5
Fan power consumption ⁴⁾ with option high efficiency rear panel	kW	0.6	0.9	1.4	0.9	1.4	2.0	3.2
Weight	kg	765	770	800	929	935	944	960
GES units Upflow								
Max. available ESP	Pa	450	450	450	450	450	450	450
Noise level ³⁾	dBA	53.1	54.6	56.5	53.3	55.8	58.1	61.2
Fan power consumption ⁴⁾	kW	0.8	1.1	1.7	1.1	1.6	2.2	3.5
Weight	kg	720	725	750	897	904	911	926
Size		4	4	4	5	5	5	5

Remarks: All data apply at 400 V/3 ph/50 Hz with 20 Pa ESP (external static pressure) for downflow units and 50 Pa ESP for upflow units

¹⁾ DX cooling capacity for GES units; return air conditions: 26 °C, 40 % r, h.; condensing temperature 45 °C

²⁾ CW cooling capacity for GES units; return air conditions: 26 °C, 40 % r, h.; incoming water temperature: 8 °C ; glycol: 30 %

³⁾ Noise level at 2 m distance, free field

⁴⁾ The electric power input of the fans must be added to the room load

Technical data subject to change without notice.

Dimensions and number of fans					
Size		2	3	4	5
Width	mm	1,400	1,750	2,200	2,550
Height	mm	1,980	1,980	1,980	1,980
Depth	mm	890	890	890	890
Number of fans		1	2	2	3
Humidifier output and heating capacity					
Size		2	3	4	5
Max. humidifier capacity	kg/h	8	15	15	15
Max. no of heating steps (Downflow)		2	2	3	3
Max. heating capacity per step	kW	9	9	9	9
Max. overall heating capacity	kW	18	18	27	27
Max. no of heating steps (Upflow)		2	2	3	3
Max. heating capacity per step	kW	9	9	9	9
Max. overall heating capacity	kW	18	18	27	27

CyberAir 3 DX with Direct Free Cooling							
Unit type ASD xxx AU with fixed heat exchanger		752	832	892	962	1012	1112
Airflow	m ³ /h	25,000	25,000	33,000	33,000	35,000	35,000
DX cooling capacity (total) ³⁴⁾ R407C	kW	75.7	82.7	89.0	95.4	101.5	110.4
DX cooling capacity (sensible) ³⁴⁾ R407C	kW	75.7	82.7	89.0	95.4	101.5	110.4
Compressor power consumption ³⁵⁾ R407C	kW	14.4	16.4	16.4	18.6	18.6	22.4
DX cooling capacity (total) ³⁴⁾ R410A	kW	76.0	82.6	88.9	95.9	100.7	111.5
DX cooling capacity (sensible) ³⁴⁾ R410A	kW	76.0	82.6	88.9	95.9	100.7	111.5
Compressor power consumption ³⁵⁾ R410A	kW	14.6	16.6	16.6	18.8	19.0	22.6
Noise level ²⁾	dB(A)	59.1	59.1	60.1	60.1	57.2	57.2
Fan power consumption in DX mode ³⁴⁾	kW	3.4	3.4	7.4	7.4	4.6	4.6
Fan power consumption in DX mode ³⁵⁾	kW	3.4	3.4	7.4	7.4	4.6	4.6
Fan power consumption in DX mode ³⁶⁾	kW	3.4	3.4	6.1	6.1	4.2	4.2
Fan power consumption in FX mode ³⁴⁾	kW	4.0	4.0	6.7	6.7	7.4	7.4
Fan power consumption in FX mode ³⁵⁾	kW	4.1	4.1	6.9	6.9	7.5	7.5
Fan power consumption in FX mode ³⁶⁾	kW	4.0	4.0	6.1	6.1	5.2	5.2
Unit type AMD xxx AU with fold-away heat exchanger		752	832	892	962	1012	1112
Airflow	m ³ /h	25,000	25,000	33,000	33,000	35,000	35,000
DX cooling capacity (total) ³⁴⁾ R407C	kW	75.7	82.7	89.0	95.4	101.5	110.4
DX cooling capacity (sensible) ³⁴⁾ R407C	kW	75.7	82.7	89.0	95.4	101.5	110.4
Compressor power consumption ³⁵⁾ R407C	kW	14.4	16.4	16.4	18.6	18.6	22.4
DX cooling capacity (total) ³⁴⁾ R410A	kW	76.0	82.6	88.9	95.9	100.7	111.5
DX cooling capacity (sensible) ³⁴⁾ R410A	kW	76.0	82.6	88.9	95.9	100.7	111.5
Compressor power consumption ³⁵⁾ R410A	kW	14.6	16.6	16.6	18.8	19.0	22.6
Noise level ²⁾	dB(A)	58.6	58.6	59.2	59.2	55.5	55.5
Fan power consumption in DX mode ³⁴⁾	kW	3.4	3.4	7.4	7.4	4.6	4.6
Fan power consumption in DX mode ³⁵⁾	kW	3.4	3.4	7.4	7.4	4.6	4.6
Fan power consumption in DX mode ³⁶⁾	kW	3.4	3.4	6.1	6.1	4.2	4.2
Fan power consumption in FX mode ³⁴⁾	kW	3.2	3.2	5.6	5.6	6.0	6.0
Fan power consumption in FX mode ³⁵⁾	kW	3.2	3.2	5.8	5.8	6.1	6.1
Fan power consumption in FX mode ³⁶⁾	kW	3.1	3.1	5.1	5.1	4.0	4.0
Number of fans		2		3		4	
Width	mm	2,760		3,110		3,670	
Height	mm			2,495			
Depth	mm			890		980	