

Data sheet

Project: MA4- Synergy House 2425 Unit 3 Expansion
 Editor: Alex Doey
 Date : 24.07.2020



Unit

Unit type:	ASD 701 A		
Cooling capacity (total):	69.6 kW	Airflow:	15,900 m³/h
Cooling capacity (sensible):	69.6 kW	Air velocity:	2.3 m/s
Net total cooling capacity:	67.0 kW	Return air temperature:	28 °C
Net sensible cooling capacity:	67.0 kW	Return air humidity:	40 rel.%
Condensing temperature:	51 °C	Supply air temperature:	15 °C
EER:	3.59 kW/kW	Altitude above sea level:	0 m
AER:	0.16 W/(m³/h)	Height:	1,980 mm
Sound power level:	79.0 dB(A)	Width:	2,200 mm
LpA (2m freefield):	58.3 dB(A)	Depth:	890 mm
Number of refrigerant circuits:	1	Weight:	712 kg
Number of compressors:	2	Refrigerant:	R410A.
Total power consumption:	19.4 kW	Power supply:	415V/50Hz/3Ph/N/PE

Fan (Data per unit)

Fan type:	R3G595	Power consumption:	2.6 kW
Number:	2	ESP external static pressure:	50 Pa
Max. revolutions:	1,411 U/min	Total pressure drop:	350 Pa
Nominal power:	5.8 kW	Control voltage:	7.0 V
Revolutions:	1,044 rpm	Motor-efficiency:	87 %

Compressor (Data per compressor)

Electrical power consumption:	8.4 kW
Heat rejection:	43.1 kW
COP:	4.16 kW/kW
Number:	2
Evaporating temperature:	12.5 °C

Condenser

Unit type:	KSV075A42p	Weight:	222 kg
Ambient temperature:	35 °C	Current consumption (per fan):	2.30 A
Sound pressure group:	Standard	Power consumption (per fan):	0.53 kW
Required condenser capacity:	86.2 kW	Height:	986 mm
Available condenser capacity:	90.2 kW	Width:	3,660 mm
Difference:	4.6 %	Depth:	920 mm
Number of fans:	4	Airflow:	31,200 m³/h
Number of condensers:	1	LpA (5m freefield):	57.9 dB(A)

Noise data

	63	125	250	500	1000	2000	4000	8000	Total	NR		
1 (dBA)	41.8	53.8	51.8	50.3	48.8	49.8	49.3	42.8	58.3		1 ; 5	Mean sound pressure level at 2m distance at free field conditions
2 (dBA)	61.0	72.5	66.9	66.0	62.5	65.0	63.0	54.0	75.0		2 ; 6	Casing radiated sound power level without discharge and inlet
3 (dBA)	57.5	70.0	71.0	69.5	67.5	69.5	69.5	62.5	76.5		3 ; 7	Suction side sound power level
4 (dBA)	46.2	51.2	71.2	68.2	69.2	69.2	68.2	57.2	76.2		4 ; 8	Discharge sound power level in accordance to fan-manufacturer dat
5 (dB)	68.0	69.9	60.4	53.5	48.8	48.6	48.3	43.9	72.5	55		
6 (dB)	87.2	88.6	75.5	69.2	62.5	63.8	62.0	55.1	91.1	77		
7 (dB)	83.7	86.1	79.6	72.7	67.5	68.3	68.5	63.6	88.9	74		
8 (dB)	72.4	67.3	79.8	71.4	69.2	68.0	67.2	58.3	81.8	73		

GERÄTETYP

TYPE OF DEVICE

TYPE DE L'APPAREIL

CyberAir 3 PRO: ASD 701 A

Komponente components composant	Typ type type	I Max FLA intens. max	I Betrieb RLA int. nom.	I Block LRA int. mot.	Nenn-/BP-leistg. nom./op.-output puiss. nom./op.	Type	Adjust [A]			Leistungsaufnahme power consumption consommation électr.
		[A]	[A]	[A]	[kW]					[kVA]
Lüfter fan ventilateur	Us=7.0V Usd=5.8V 2 x R3G595 AB23 06-2	4.5	2.1	5.9	3.0 / 1.3 @ 15,900 m³/h; 15°C @ 50.0Pa; 0m					3.1
Kompressor compressor compresseur	1 2 x ZP 120 2 -/-	18.5 -/-	14.7 -/-	118.0 -/-	7.4 / 8.4 -/- with R410A @ to=10°C; tc=45°C					12.8 -/-
Kondensatorlüfter condensor fan vent. Du condens	4 x Axial Fans	2.3	-/-	-/-	0.53					0.5
Pumpe pump pompe	1 x Aspen Economy 06	1.5	-/-	-/-	0.16				-/-	0.3
Netz / main power / alimentation		400 V; 50 Hz (3~; N; PE)		Nennstrom / MCA / max. amp.		54.25 A	Betrieb / operation / fonctionn.:			
Hauptschalter / main switch / int. général		63 A		Leistung / power con. / con. éle.		34.59 kVA	Strom / RLA / intens. nom.		41.98 A	
Vorsicherung / MOP / protection		63 A					Leistg. / power con. / con. éle.		26.09 kVA	

STULZ

Kunde / customer
Equinix

Bearbeiter / reviser
Alex Doey

Datum / date
24.07.2020

Projekt / Project

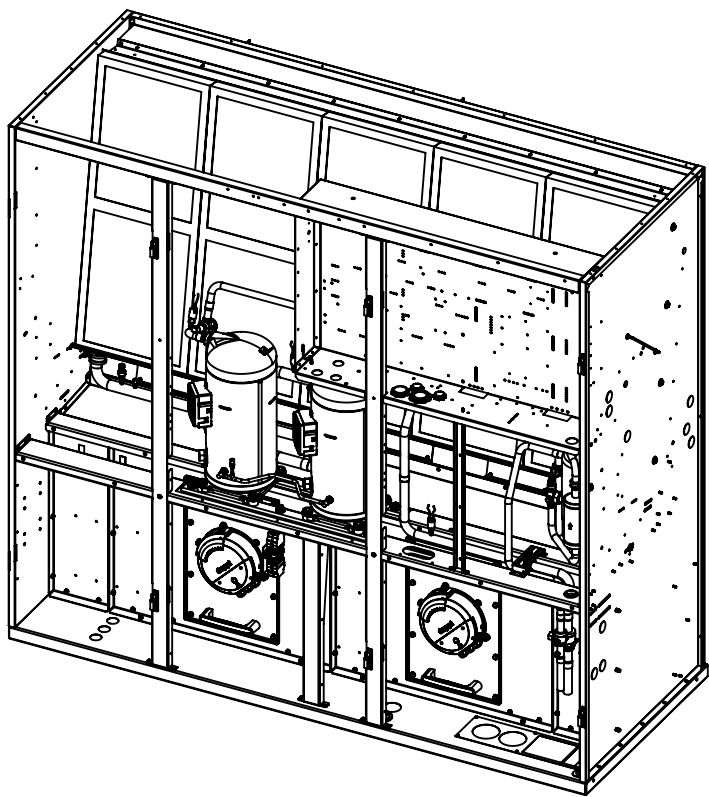
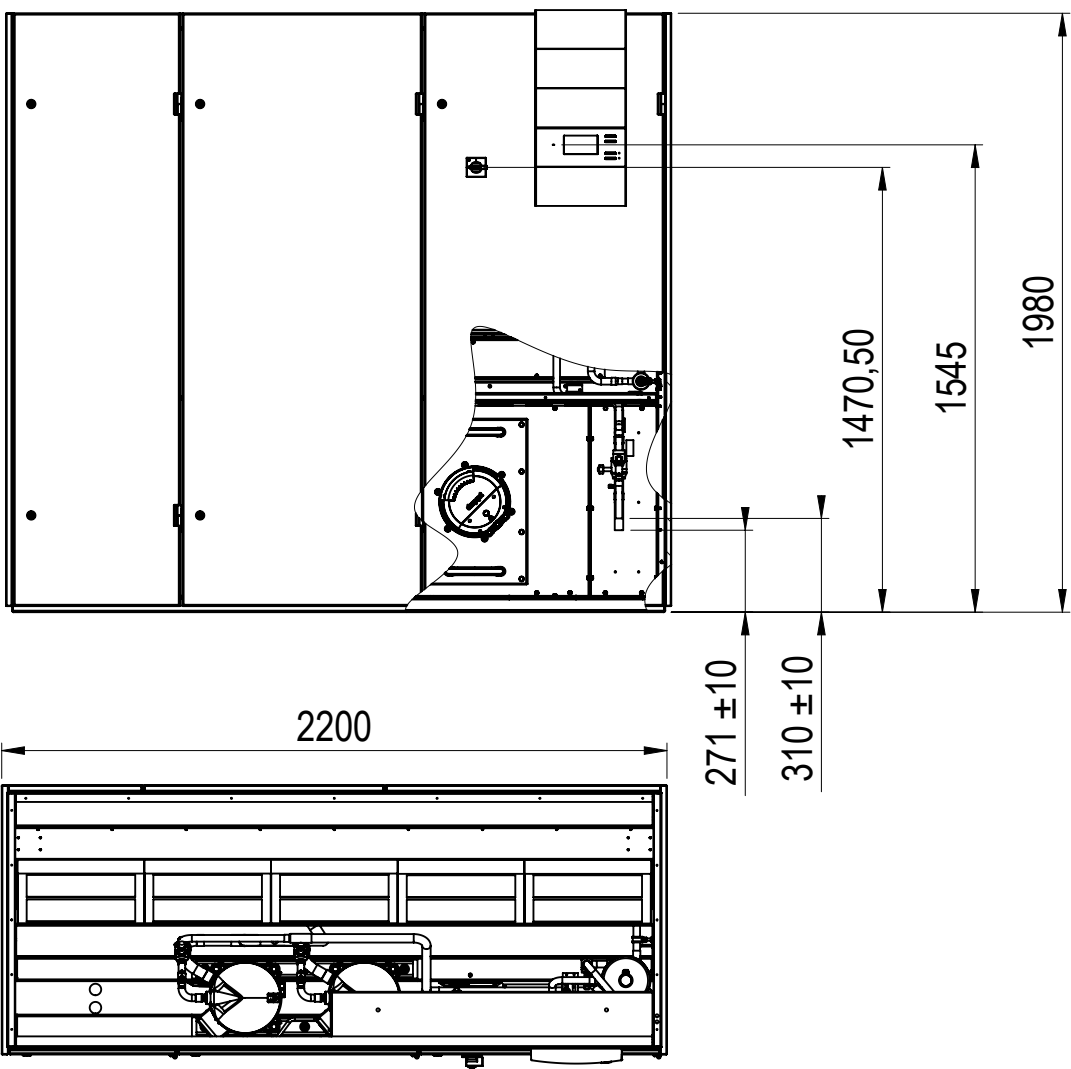
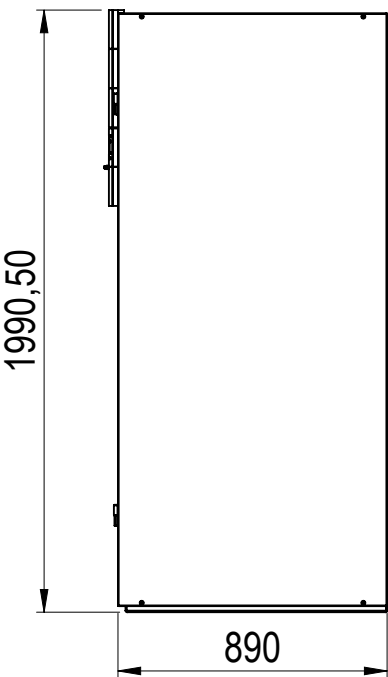
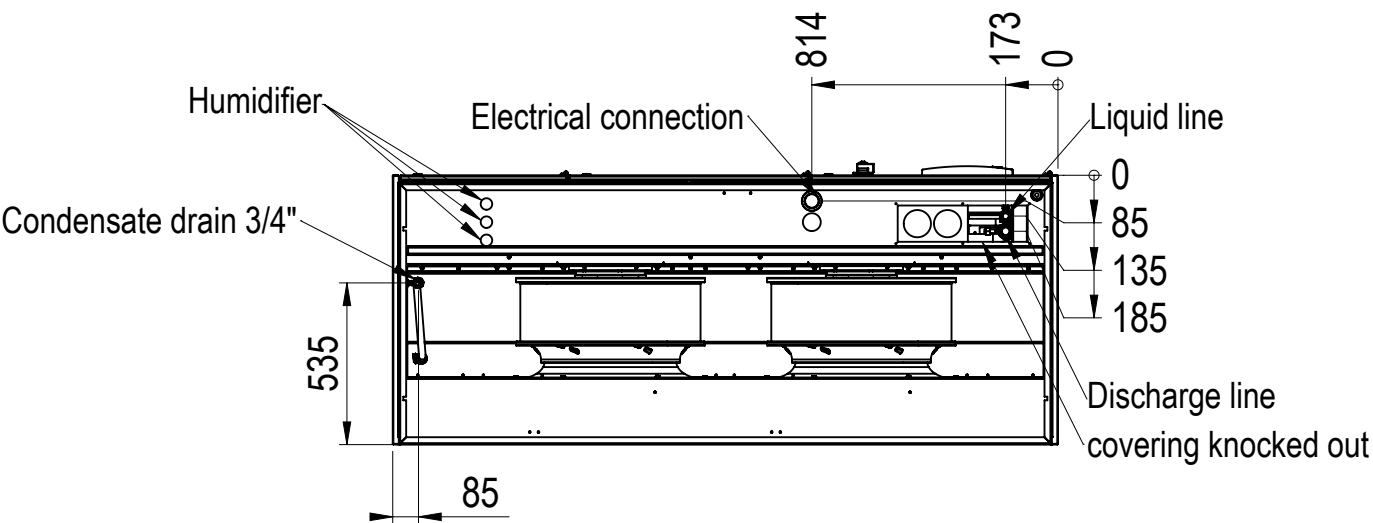
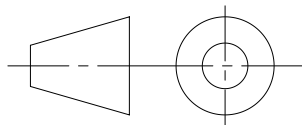
MA4- Synergy House

Version

3.5.0

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Supply Connections

ASD ... A		Liquid line	Discharge line
701	solder connection	22 mm	28 mm



2.4 Condensers with 4 fans

Drawing 4A

