

AIR CONDITIONING UNIT WITH REMOTE AIR COOLED CONDENSER

Air conditioner model:	TUAV0721A
Unit power supply:	400/3ph/50Hz
Refrigerant:	R410A
Fan(s):	E.C. - Backward curved centrifugal motorfans
Condenser model:	CAP1301
Condenser - Power supply:	230/1ph/50Hz
Nr. of condensers:	1

Application: unit for IT and NON-IT cooling applications, with the exception of human comfort cooling

WORKING CONDITIONS

Dry bulb temperature	22.0	°C
Relative humidity	50	%
Wet bulb temperature	17.1	°C
Altitude a.s.l.	0	m
External static pressure	250	Pa
Outside air temperature	45.0	°C

PERFORMANCE / FEATURES

Compressor(s) ON	2	-
Total cooling capacity	22.0	kW
Sensible cooling capacity	22.0	kW
Net total cooling capacity	20.6	kW
Net sensible cooling capacity	20.6	kW
SHR	100	%
EER (total cooling capacity/total system power consumpt.)	2.0	kW/kW
COP (Compressor Coefficient of Performance)	2.7	kW/kW
Room unit air flow rate	8600	m ³ /h
Room unit air flow rate	2.4	m ³ /s
Discharge air temperature off unit	15.2	°C
Discharge air relative humidity off unit	80	%
Room unit absorbed power	10.5	kW
Compressor absorbed power	8.1	kW
Compressor absorbed current	14.8	A
Number of fans	1	-
Fan(s) absorbed power	2.4	kW
Fan(s) electr. abs.	3.7	A
Fan(s) speed regulation	92	%
Max external static pressure	418.6	Pa
Sound pressure level at 2 m in free field (bottom air suction)	59.8	dB(A)
Sound pressure level at 2 m in free field (front air suction)	63.8	dB(A)
Condenser absorbed power	0.5	kW
Condenser absorbed current	2.1	A
Condenser air flow rate	10980	m ³ /h
Condenser air flow rate	3.1	m ³ /s
Condenser sound pressure level at 5 m in free field (with legs)	48.0	dB(A)
Condenser sound pressure level at 5 m in free field (without legs)	46.3	dB(A)

PERFORMANCE OF OPTIONS

HUMIDIFIERS

The performances are obtained through theoretical calculations and they are therefore subject to the consequent variations.

The performances refer to the standard unit set as in the present report. Other possible options or modifications made on request could affect the final performances.

Schneider Electric - Calculation program "UNICALC" vers. 5.0.1 (user profile) - Refer to Schneider Electric cooling FAT Method Statement for further details

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hourly capacity	8	l/h
Rated electrical power	6.0	kW
Rated electrical current	8.6	A
STANDARD ELECTRICAL HEATERS		
Number of standard heaters	3	-
Total rated electrical power of heaters	9.0	kW
Total rated electrical current for heaters	13.0	A
EU6 FILTER		

DIMENSIONS

Air Conditioner Unit		
Height	1960	mm
Width	1310	mm
Depth	865	mm
Weight	430	kg
Condenser (Without legs)		
Height	720	mm
Width	2277	mm
Depth	520	mm

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