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Data sheet

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Page: 1 of 5

Project: **227741 -**

Order #:

Proj. descr.: WBC / Appeldoorn

Unit: Kelder - AT4-F 28x20/28x20 - Interior

Type: AT4-F 28x20/28x20 - Interior

Pos.: **1**

GS-pos.: **Aircloud**

Date Printed:

Edition Date:

Editor:

Quotation

18.04.2024

18.04.2024

Aircloud

Note: All data relate to standard conditions for air density = 1.2 kg/m³

Unit data

Supply air

Exhaust air

	Target value	Actual	Target value	Actual
Air flow	20.000	20.000 m ³ /h	15.000	15.000 m ³ /h
External pressure	400	400 Pa	400	400 Pa
Internal pressure	386	386 Pa	156	156 Pa
Air velocity		1,7 m/s		1,3 m/s

Eurovent Efficiency Wint./Sum.

Climate zone

RLT energy efficiency class

Calculated ERP compliance

A (2016) / A (2020)

Netherlands / AMSTERDAM SCHIPHOL

- (2018)

Compliant 2016/2017



SA - Flexible connection - Rubber

Type:

G 1

FU 0

Flexible connection

Accessory

SA - Damper inside

Type:

Needed torque:

Design pressure:

G 1

FU 0

Damper inside

25,00 Nm

5 Pa

Accessory

- Damper leak tight class 2

SA - Empty section

Specification:

Length:

G 1

FU 1

Empty section

3 AT4 raster

Accessory

SA - Filter

Type:

Class:

eff. class:

Design pressure:

Initial pressure:

G 1

FU 2

BF - Bag Filter

ePM1-60 % / F7

A

82 Pa

41 Pa

Accessory

- Quick change filter frame out of stainless steel
(1.4301)

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SA - Run-around heater	G 1	FU 18	Accessory
HRS type	Run-around heater		
Type:	AL-KO standard		- Coil installation rail made of stainless steel 1.4301
Total Thermal Capacity:		111,27 kW	
Balanced Efficiency (dry / 5-25°C):		67,2 %	
pressure loss (dry):		125 Pa	
Air flow speed:		1,79 m/s	
Temperature Inlet:		-10,0 °C	
Temperature Outlet:		6,5 °C	
Rel. Humidity Outlet:		19,1 %	
Abs. Humidity Outlet:		1,1 g/kgL	
Medium:	Water - Antifrogen N (Standard)		
Glycol content:		30 %	
Δp medium:		70,1 kPa	

SA - Heating coil	G 1	FU 4	Accessory
Type:	AL-KO standard		
Total Thermal Capacity:		90,77 kW	
pressure loss (dry):		21 Pa	
Air flow speed:		2,01 m/s	
Temperature Inlet:		6,5 °C	
Temperature Outlet:		20,0 °C	
Rel. Humidity Outlet:		7,9 %	
Abs. Humidity Outlet:		1,1 g/kgL	
Medium:	Water		
Medium temperature IN:		55,0 °C	
Medium temperature OUT:		45,0 °C	
Δp medium:		max. 20 kPa	

SA - Cooling coil	G 2	FU 5	Accessory
Type:	AL-KO standard		- droplet eliminator convertible
Total Thermal Capacity:		122,77 kW	- Coil installation rail made of stainless steel 1.4301
pressure loss (dry):		105 Pa	
Pressure loss eliminator:		13 Pa	
Air flow speed:		2,04 m/s	
Temperature Inlet:		26,7 °C	
Rel. Humidity Inlet:		64,9 %	
Temperature Outlet:		16,0 °C	
Medium:	Water		
Medium temperature IN:		12,0 °C	
Medium temperature OUT:		18,0 °C	
Δp medium:		max. 50 kPa	

SA - Empty section	G 2	FU 0	Accessory
Length:		5 AT4 raster	

SA - Fan - Plug fan (airvent directG 2 driven)	FU 8	Accessory
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Fan type:	Plug fan (airvent direct driven) 800	- Volume flow measuring for fan
Air flow:	20.000 m ³ /h	- FC with rep.-switch
Static increase of pressure:	786 Pa	- Wiring FC/Ventilator
Casing pressure loss:	23 Pa	- Safety lock
Efficiency class N (EU 327/2011):	79,5	
Control type:	FC	
Power PM-FU:	6,05 kW	
SFP class:	SFP 2	
System Efficiency:	70 %	
Sound Power Level Inlet:	80,0 dB(A)	
Sound Power Level Outlet:	82,9 dB(A)	
K factor:	621	
volume flow [m ³ /h]:	K factor x $\sqrt{\text{nozzle-pressure}}$ [Pa]	

SA - Soundabsorber - D12M	G 3	FU 9	Accessory
Design pressure:		13 Pa	
Pullable:		No	

SA - Flexible connection - Rubber	G 3	FU 0	Accessory
Type:	Flexible connection		

EA - Flexible connection - Rubber	G 4	FU 0	Accessory
Type:	Flexible connection		

EA - Filter	G 4	FU 11	Accessory
Type:	BF - Bag Filter		- Quick change filter frame coated
Class:	ePM10-55 % / M5		
eff. class:	E		
Design pressure:	30 Pa		
Initial pressure:	15 Pa		

EA - Soundabsorber - D12M	G 4	FU 12	Accessory
Design pressure:		7 Pa	
Pullable:		No	

EA - Empty section	G 4	FU 0	Accessory
Length:		5 AT4 raster	

EA - Fan - Wheel - EC	G 5	FU 13	Accessory
Fan type:	Wheel - EC 800		- Volume flow measuring for fan
Air flow:	15.000 m ³ /h		- Wiring repair switch/fan
Static increase of pressure:	556 Pa		- Repair switch
Casing pressure loss:	9 Pa		- Safety lock
Efficiency class N (EU 327/2011):	70,9		
Control type:	EC - controlled		
Power input:	3,49 kW		

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Aircloud

SFP class: SFP 2
System Efficiency: 65 %
Sound Power Level Inlet: 76,2 dB(A)
Sound Power Level Outlet: 79,0 dB(A)
K factor: 695
volume flow [m³/h]: K factor x $\sqrt{\text{nozzle-pressure [Pa]}}$

EA - Run-around cooler	G 5	FU 19	Accessory
HRS type	Run-around cooler		
Type:	AL-KO standard		- Coil installation rail made of stainless steel 1.4301
Total Thermal Capacity:	121,15 kW		
Balanced Efficiency (dry / 5-25°C):	72,5 %		
pressure loss (dry):	100 Pa		
Air flow speed:	1,40 m/s		
Temperature Inlet:	21,0 °C		
Rel. Humidity Inlet:	15,9 %		
Temperature Outlet:	-2,9 °C		
Medium:	Water - Antifrogen N (Standard)		
Glycol content:	30 %		
Δp medium:	104,6 kPa		

EA - Empty section	G 5	FU 0	Accessory
Length:		2 AT4 raster	

EA - Soundabsorber - D12M	G 6	FU 14	Accessory
Design pressure:		7 Pa	
Pullable:		No	

EA - Empty section	G 6	FU 0	Accessory
Length:		3 AT4 raster	

EA - Empty section	G 6	FU 15	Accessory
Specification:	Empty section		
Length:	3 AT4 raster		

EA - Damper inside	G 6	FU 0	Accessory
Type:	Damper inside		- Damper leak tight class 2
Needed torque:	25,00 Nm		
Design pressure:	3 Pa		

EA - Flexible connection - Rubber	G 6	FU 0	Accessory
Type:	Flexible connection		

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Order #:		GS-pos.:	Aircloud	
Proj. descr.:	WBC / Appeldoorn	Date Printed:		18.04.2024
Unit:	Kelder - AT4-F 28x20/28x20 - Interior	Piece:	1	Edition Date:
Type:	AT4-F 28x20/28x20 - Interior			18.04.2024
		Editor:		Aircloud

ERP information	
Calculated ERP compliance	Compliant 2016/2017
Type	NRVU-BVU
Heat recovery	KVS
Internal SFP	413 W/(m³/s)
Dp int supply	166 Pa
Dp int exhaust	116 Pa
Fan speed controlled	
max. outer leak rate (+/- 400 Pa)	0,5 %

Unit features:	
Frame material AT4-F	Alu
Panel Isolation	Decoupled [T2(M)]
MB-Reference	AT4-F-02
Panel material	7001/7001
Unit corner material (frame)	Alu / TB2
Siphon	Standard siphon
Transport	Standard transport
Base frame	130 mm

Dimensions				Transport weight
Length:	5.967 mm	Width:	4.457 mm	Height:
				1.716 mm
				5.482 kg

*** END OF LIST ***