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Data sheet

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Klim@Soft Ver. 2.51 Page: 1

Project: **90496 - PAU Comparison**

Pos.: **1**

QUOTATION

Order #:

GS-pos.:

Proj. descr.:

Date printed:

02.12.2010

Unit: Concept 1-No extract - 1

Edition Date

12/2/2010

Type: AT4 16x12 - Interior

Piece: 1

Editor:

Hoang Thang

Note: All data relate to normal conditions for air density = 1.2 kg/m^3

Unit data

Supply air

Exhaust air

	Target value	Actual	Target value	Actual
Air flow	10,000	10,000 m^3/h	0	m^3/h
External pressure	450	450 Pa	0	Pa
Internal pressure	1,027	1,027 Pa		Pa
Air speed		2.5 m/s		m/s



AT4 certified under
number **99.03.004**

Eurovent Energy Efficiency Class < E

SA - Damper outside

G 1

FU 0

Accessory

Type:	Damper outside	- Damper air tight, powder coated
Width:	1,224.0 mm	
Height:	459 mm	
Connector:	A20	
Needed torque:	7 Nm	
Design pressure:	31 Pa	

SA - Empty section

G 1

FU 6

Accessory

Specification:	Empty section	
Length:	5 AT4 raster	

SA - Filter - Z-line

G 1

FU 1

Accessory

Manufacturer type:		- Filter to maintenance side pull able, stainless steel (1.4301)
Class:	G4	- Maintenance door
Design pressure:	133 Pa	
Initial pressure:	67 Pa	
End pressure:	200 Pa	
Airflow face speed:	2.5 m/s	
Filter face surface:	6.0 m^2	
Filter length:	47 mm	
Filter bag 592x592:	2	
Filter bag 592x287:	2	
Maintenance:	A - pull able	
Air flow:	10,000 m^3/h	

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SA - Filter - Biostat F5-500

G 1

FU 2

Accessory

Manufacturer type:

- Biostatic equipped Filter Medium

Class:

F5

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

Design pressure:

126 Pa

- Maintenance door

Initial pressure:

51 Pa

End pressure:

200 Pa

Airflow face speed:

2.5 m/s

Filter face surface:

12.2 m²

Filter length:

508 mm

Filter bag 592x592:

2

Filter bag 592x287:

2

Maintenance:

F - quick change filter frame

Air flow:

10,000 m³/h

SA - Wärmetauscher - Cooling unit G 2

FU 3

Accessory

Type:

PCW - Copper/Aluminium - A

- Coil installation rail made of stainless steel 1.4301

pressure drop (dry):

586 Pa

- droplet eliminator convertible

Pressure drop eliminator:

31 Pa

- Maintenance panel

Air flow speed:

3.34 m/s

- Base tub stainless steel 1.4301

Temperature Inlet:

36.8 °C

Rel. Humidity Inlet:

72.0 %

Abs. Humidity Inlet:

28.7 g/kgL

Temperature Outlet:

13.8 °C

Rel. Humidity Outlet:

100.0 %

Abs. Humidity Outlet:

9.8 g/kgL

Capacity:

241.3 kW

Power reserve:

0 %

Medium:

Water

Glycol content:

0 %

Medium temperature IN:

7.0 °C

Medium temperature OUT:

12.0 °C

Medium flow quantity:

41,400 l/h

Δp medium:

39.7 kPa

Δ fins:

4.0 mm

Rows:

20

Circuits:

57

Fill-up quantity:

64.0 l

Pipes:

Copper

Fins:

Aluminium

Collector:

Copper

Frame:

Stainless steel (1.4301)

Connection type: A - water connection straight sideways

Connection width:

DN 100 (R 4)

Interwinded circuits:

2

Air flow:

10,000 m³/h

SA - Wärmetauscher - Heating coil G 2

FU 4

Accessory

Type:

PWW - Copper/Aluminium - A

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pressure drop (dry):	26 Pa
Air flow speed:	2.97 m/s
Temperature Inlet:	13.8 °C
Rel. Humidity Inlet:	100.0 %
Abs. Humidity Inlet:	9.8 g/kgL
Temperature Outlet:	20.0 °C
Capacity:	21.2 kW
Power reserve:	100 %
Medium:	Water
Glycol content:	0 %
Medium temperature IN:	80.0 °C
Medium temperature OUT:	60.0 °C
Max. medium pressure:	16 bar
Medium flow quantity:	936 l/h
Δp medium:	2.3 kPa
Δ fins:	2.1 mm
Rows:	1
Circuits:	8
Fill-up quantity:	3.0 l
Pipes:	Copper
Fins:	Aluminium
Collector:	Copper
Frame:	Aluminium
Frame to hold frost protection equipment:	Without
Connection type:	A - water connection straight sideways
Connection width:	DN 32 (R 1-1/4)
Interwinded circuits:	2
Air flow:	10,000 m³/h

SA - Fan - RZR 15 - 400

G 3

FU 5

Accessory

Fan type:	RZR 15-400
Air flow:	10,000 m³/h
Static increase of pressure:	1,477 Pa
Total pressure:	1,589 Pa
Casing pressure drop:	64 Pa
Capacity on shaft:	5.3 kW
Static efficiency:	77 %
total efficiency:	82 %
Revolution:	2,466 1/min
Max. speed:	3,600 1/min
Motor:	0
Model:	1LE1002-1CA13-4AB0
Control type:	FC
Revolution:	2,906 1/min
Working Frequency:	49 Hz
max. Frequency:	50 Hz
Power input:	6.5 kW
Power PM-FU:	6.92 kW
SFP value (EnEV 2009):	1,832 W/(m³/s)
SFP class:	SFP 4
Speed Class:	V3

- FR-O.LEU. 60W IP 44
- Light Switch
- Repair switch for frequency converter
- Grommet M20
- Fan base powder coated
- Nozzle frame coated
- Motor slide powder coated
- Fan pressure wall powder-coated
- Fan - Powder Coating
- Maintenance door

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Nominal rated voltage:	400/690 V
Power Frequency:	50 Hz
Nominal rated capacity:	7,5 kW
Nominal rated current:	14,4/8,35 A
Nominal rated speed(s):	2925 /min
Protection class:	IP55
Overload protection:	PTC thermistor
Insulation class:	F
Drive:	0
Belt profile:	SPZ
Belt length:	1,462 mm
Number of belts:	2
Ømotor pulley:	112 mm
Øfan pulley:	132 mm
Belt tension check force:	16 N
Belt deflection:	9 mm
Sound Power Level Inlet:	88.6 dB(A)
Sound Power Level Outlet:	87.7 dB(A)
Octave band:	63 125 250 500 1k 2k 4k 8k Hz
Lw Inlet:	82 85 84 88 83 80 75 68 dB
Lw Outlet:	87 86 85 86 83 79 74 66 dB
Air flow:	10,000 m ³ /h

SA - Empty section

G 3

FU 7

Accessory

Specification:

Empty section

Length:

5 AT4 raster

SA - Damper outside

G 3

FU 0

Accessory

Type:

Damper outside

- Damper air tight, powder coated

Width:

1,224.0 mm

Height:

459 mm

Connector:

A20

Needed torque:

7 Nm

Design pressure:

31 Pa

Unit features:

Frame material

Galvanised steel

Panel material

7001/7001

Unit corner material (frame)

Plastic

Sealing supply side

Incl. intergrated parts (Hygiene)

Siphon

Standard siphon

Transport

Standard transport

Base frame

100 mm

Dimensions

Transport weight

Length: 4,896 mm

Width: 1,301 mm

Height: 1,105 mm

1,166 kg

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