

Air handling units

Order No.: 00622044/02(modification no.1 from 31.01.00)

Customer	ELCO WOLF B.V.	Responsible in yr.	WENDELS, M.
Project / commission	Stadtgefängnis Koddeweg	com	
Responsible in our com	Monika Ziegler	Pos	LBK/AVE 226.01
Your job number	891804/15 +27	Order volume	1
Unit typee	Supply and exhaust air Double stacked		
Unit size supply air	KG 40 Gigant	Air volume supply air	1900 m ³ /h
Unit size exhaust air	KG 40 Gigant	Air volume exhaust air	2200 m ³ /h

Casing design Gigant-casing

Supply air:

(1) Exhaust air section/empty section

Damper S internal Flexible connection S

(2) Bag filter section

Initial resistance	86 Pa	Selection resistance	136 Pa
Filter bag F7		Lightning 24 Volt,Mounted and wired	
Access door bag filter section			

(3) Heating section

Heat exchanger typee	II Cu/Al LT	Medium on temp.	6,9 °C
Connection (inlet/outlet)	1 1/4 Zoll	Medium off temp.	4,7 °C
Air-on temperature	-10,0 °C	Medium flow rate	3,50 m ³ /h
Air-off temperature	1,4 °C	Antifreeze percentile	30 %
Capacity (total)	8,0 kW	Pressure drop medium	12,5 kPa
Air pressure drop	64 Pa		
Coating,Coating		Flange/counterflange,DN 32	

(4) Heating section

Heat exchanger typee	1 Cu/Al LT	Medium on temp.	90,0 °C
Connection (inlet/outlet)	3/4 Zoll	Medium off temp.	70,0 °C
Air-on temperature	1,4 °C	Medium flow rate	0,55 m ³ /h
Air-off temperature	20,0 °C	Antifreeze percentile	0 %
Capacity (total)	12,5 kW	Pressure drop medium	2,6 kPa
Air pressure drop	28 Pa		
Coating,Coating		Flange/counterflange,DN 20	

(5) Fan,Standard design

Air volume	1900 m ³ /h	Fan - speed	3057 1/min
External pressure	275 Pa	Peripheral velocity	36,0 m/s
Internal pressure	271 Pa	Efficiency	81,7 %
Dynamic pressure	26 Pa	Motor - capacity	0,5/0,1 kW
Total pressure	572 Pa	Motor - speed	1500/750 1/min
Impeller	Backward inclined	Motor - voltage	3*400 V
Fan type	T-HLZ 225	Motor-current*	1,8/0,7 A
Discharge position	A	Motor size	80
Fan - capacity	0,37 kW	Total sound power	78,5 dBA

***max. nom. current:motors used are slightly different.Choose range of overload relay so that stated nom. current is within the upper third.**

Isolator mounted and wired,AR 6/5,5
Fan pulley,not adjustable, acc. to technical department
Lightning 24 Volt,Mounted and wired

Motor protection,Without motor protection
Motor pulley,not adjustable, acc. to technical department
Access door

(6) Empty section with air diffusor

Selection resistance
Air diffusor, Pressure side, Standard

18 Pa

(7) Attenuator type 3

Selection resistance 7 Pa Insertion attenuation

63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
7 dBA	14 dBA	24 dBA	25 dBA	26 dBA	20 dBA	14 dBA	13 dBA

Flexible connection Q

Exhaust air:

(8) Exhaust air section/empty section

Damper S internal

Flexible connection S

(9) Bag filter section

Initial resistance 65 Pa
Filter bag F5
Access door bag filter section

Selection resistance 115 Pa
Lightning 24 Volt, Mounted and wired

(10) Cooling section

Heat exchanger typee Cu/Cu SOKA 3872
Connection(inlet/outlet)
Air-on temperature 20,0 °C
Relative humidity 40,0 %
Air-off temperature 9,0 °C
Relative humidity 81,3 %
Capacity (total) 8,0 kW
Pressure drop(drop elim.) 27 Pa
Air pressure drop 70 Pa
Medium on temp. 4,7 °C
Special heat exchanger
Designation Sonder Register
Drop eliminator, T 400

Medium off temp. 6,9 °C
Medium flow rate 3,50 m³/h
Antifreeze percentile 30 %
Pressure drop medium 12,5 kPa

Special number 38721
Drain connection on connection side

(11) Attenuator type 3

Selection resistance 9 Pa Insertion attenuation

63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
7 dBA	14 dBA	24 dBA	25 dBA	26 dBA	20 dBA	14 dBA	13 dBA

(12) Fan, Standard design

Air volume 2200 m³/h
External pressure 275 Pa
Internal pressure 245 Pa
Dynamic pressure 35 Pa
Total pressure 555 Pa
Impeller Backward inclined
Fan type T-HLZ 225
Discharge position B
Fan - capacity 0,43 kW

Fan - speed 3162 1/min
Peripheral velocity 37,3 m/s
Efficiency 79,2 %
Motor - capacity 0,5/0,1 kW
Motor - speed 1500/750 1/min
Motor - voltage 3*400 V
Motor-current* 1,8/0,7 A
Motor size 80
Total sound power 78,7 dBA

***max. nom. current: motors used are slightly different. Choose range of overload relay so that stated nom. current is within the upper third.**

Flexible connection D

Isolator mounted and wired, AR 6/5,5

Motor protection, Without motor protection

Fan pulley, not adjustable, acc. to technical department

Motor pulley, not adjustable, acc. to technical department

Lightning 24 Volt, Mounted and wired

Access door

General accessory:

2 Pcs. Diff. pressure manometer, Dwyer - Minihelic mounted , Filter 4 Pcs. Indicator thermometer, Mounted , Teil 1, 7, 8, 12

8 Pcs. Cable inlet, Without traction relief , Zuluft, 5x Druck, 6 Pcs. Cable inlet, Without traction relief , Abluft, 4x Druck,

3x Temp.
2 Pcs. Linkage external, Linkage 1 (lever)
~~1 Pcs. Frost protection thermostat, Loose~~

2x Temp.
~~2 Pcs. Linkage external, Linkage 1 (lever)~~

Unit dimensions

Length	4180 mm	Breadth	710 mm
Height	1420 mm	Weight	665 kg

Änderungslegende:

Underlined values were changed

~~Crossed-out values were blanked~~