

## Air handling units

Order No.: 00622043/04(modification no.1 from 31.01.00)

<b>Customer</b>	<b>Elco Wolf NL</b>	Responsible in yr.	Dhr. R. Teijgeler
Project / commission	Stadsgevangenis Koddeweg te Hoogvliet	com	
Responsible in our com	Monika Ziegler	Pos	LBK 214.01
Your job number	03.12.99	Order volume	1
Unit typee	Supply and exhaust air Double stacked		
<b>Unit size supply air</b>	<b>KG 40 Gigant</b>	Air volume supply air	1200 m³/h
<b>Unit size exhaust air</b>	<b>KG 40 Gigant</b>	Air volume exhaust air	1200 m³/h

Casing design Gigant-casing

### Supply air:

#### (1) Empty section 380

Damper S internal

Flexible connection S

#### (2) Bag filter section

Initial resistance 54 Pa  
Filter bag F7  
Access door bag filter section

Selection resistance 104 Pa  
Lightning 24 Volt, Mounted and wired

#### (3) KVS - heating coil section

Heat exchanger typee II Cu/Al  
Connection (inlet/outlet) 1 1/4 Zoll  
Air-on temperature -10,0 °C  
Air-off temperature 2,6 °C  
Capacity (total) 5,6 kW  
Air pressure drop 23 Pa  
Coating, Coating

Medium on temp. 5,5 °C  
Medium off temp. 4,0 °C  
Medium flow rate 3,50 m³/h  
Antifreeze percentile 19 %  
Pressure drop medium 11,5 kPa  
Heat recovery figure 0,4  
Flange/counterflange, DN 32

#### (4) Heating section

Heat exchanger typee 1 Cu/Al LT  
Connection (inlet/outlet) 3/4 Zoll  
Air-on temperature 2,2 °C  
Air-off temperature 20,0 °C  
Capacity (total) 7,6 kW  
Air pressure drop 11 Pa  
Coating, Coating

Medium on temp. 90,0 °C  
Medium off temp. 70,0 °C  
Medium flow rate 0,33 m³/h  
Antifreeze percentile 0 %  
Pressure drop medium 1,1 kPa

Flange/counterflange, DN 20

#### (5) Cooling section

Heat exchanger typee Cu/Cu SOKA  
3872  
Connection(inlet/outlet)  
Air-on temperature 28,0 °C  
Relative humidity 50,0 %  
Air-off temperature 15,5 °C  
Relative humidity 99,9 %  
Capacity (total) 5,5 kW  
Pressure drop(drop elim.) 8 Pa  
Air pressure drop 21 Pa  
Medium on temp. 6,0 °C  
Special heat exchanger

Medium off temp. 12,0 °C  
Medium flow rate 0,88 m³/h  
Antifreeze percentile 30 %  
Pressure drop medium 1,1 kPa

Designation Sonder Register  
Drop eliminator, T 400

Special number 38721  
Drain connection on connection side

## (6) Fan, Standard design

Air volume	1200 m <sup>3</sup> /h	Fan - speed	2395 1/min
External pressure	200 Pa	Peripheral velocity	28,2 m/s
Internal pressure	184 Pa	Efficiency	78,6 %
Dynamic pressure	10 Pa	<b>Motor - capacity</b>	<b>0,5/0,1 kW</b>
Total pressure	394 Pa	<b>Motor - speed</b>	<b>1500/750 1/min</b>
Impeller	Backward inclined	<b>Motor - voltage</b>	<b>3*400 V</b>
Fan type	T-HLZ 225	<b>Motor-current*</b>	<b>1,8/0,7 A</b>
Discharge position	A	Motor size	80
Fan - capacity	0,17 kW	Total sound power	74,4 dBA

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

**Motor protection, Without motor protection**

Fan pulley, not adjustable, acc. to technical department  
Lightning 24 Volt, Mounted and wired

Isolator mounted and wired, AR 6/5,5

Motor pulley, not adjustable, acc. to technical department  
Access door

## (7) Empty section with air diffusor

Selection resistance	7 Pa
Air diffusor, Pressure side, Standard	

## (8) Attenuator type 3

Selection resistance	3 Pa	Insertion attenuation
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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:

## (9) Exhaust air section/empty section

Damper S internal	Flexible connection S
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## (10) Bag filter section

Initial resistance	36 Pa	Selection resistance	86 Pa
Filter bag F5		Lightning 24 Volt, Mounted and wired	
Access door bag filter section			

## (11) Cooling section

Heat exchanger type	Cu/Cu SOKA	Medium off temp.	5,5 °C
	3872		
Connection (inlet/outlet)		Medium flow rate	12,70 m <sup>3</sup> /h
Air-on temperature	20,0 °C	Antifreeze percentile	30 %
Relative humidity	40,0 %	Pressure drop medium	12,7 kPa
Air-off temperature	6,3 °C		
Relative humidity	97,8 %		
Capacity (total)	5,4 kW		
Pressure drop (drop elim.)	8 Pa		
Air pressure drop	21 Pa		
Medium on temp.	4,0 °C		
Special heat exchanger			
Designation	Sonder Register	Special number	38721
Drop eliminator, T 400		Drain connection on connection side	

## (12) Attenuator type 3

Selection resistance	3 Pa	Insertion attenuation
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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

## (13) Fan, Standard design

Air volume	1200 m <sup>3</sup> /h	Fan - speed	2232 1/min
External pressure	200 Pa	Peripheral velocity	26,3 m/s

Internal pressure	122 Pa	Efficiency	80,4 %
Dynamic pressure	10 Pa	<b>Motor - capacity</b>	<b>0,5/0,1 kW</b>
Total pressure	332 Pa	<b>Motor - speed</b>	<b>1500/750 1/min</b>
Impeller	Backward inclined	<b>Motor - voltage</b>	<b>3*400 V</b>
Fan type	T-HLZ 225	<b>Motor-current*</b>	<b>1,8/0,7 A</b>
Discharge position	B	Motor size	80
Fan - capacity	0,14 kW	Total sound power	72,5 dBA

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

Flexible connection D

Access door

Isolator mounted and wired, AR 6/5,5

Motor pulley, not adjustable, acc. to technical department

Lightning 24 Volt, Mounted and wired

**Motor protection, Without motor protection**

Fan pulley, not adjustable, acc. to technical department

## General accessory:

2 Pcs. Linkage external, Linkage 1 (lever)

4 Pcs. Indicator thermometer, Supplied loose ,f. Teil 1, 7, 9, 13

2 Pcs. Frost protection thermostat, Loose

2 Pcs. Diff. pressure manometer, Dwyer - Minihelic mounted ,f. Filter

16 Pcs. Cable inlet, Without traction relief , 10x f. Druck, 6 x f. Temperatur

## Unit dimensions

Length	4600 mm	Breadth	710 mm
Height	1420 mm	Weight	702 kg

Änderungslegende:

Underlined values were changed

~~Crossed out values were blanked~~