

## Air handling units

Order No.: 00622043/07(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	7LBK 217.01/19
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	2360 m³/h
<b>Unit size exhaust air</b>	<b>KG 40 Gigant</b>	Air volume exhaust air	2360 m³/h

Casing design Gigant-casing

### Supply air:

#### (1) Empty section 380

Damper S internal

Flexible connection S

#### (2) Bag filter section

Initial resistance 106 Pa

Filter bag F7

Access door bag filter section

Selection resistance 156 Pa

Lightning 24 Volt,Mounted and wired

#### (3) Heating section

Heat exchanger typee II Cu/Al LT  
Connection (inlet/outlet) 1 1/4 Zoll  
Air-on temperature -10,0 °C  
Air-off temperature 0,0 °C  
Capacity (total ) 8,7 kW  
Air pressure drop 98 Pa  
Coating,Coating

Medium on temp. 6,3 °C  
Medium off temp. 3,9 °C  
Medium flow rate 3,53 m³/h  
Antifreeze percentile 30 %  
Pressure drop medium 12,8 kPa

Flange/counterflange, DN 32

#### (4) Heating section

Heat exchanger typee 1 Cu/Al LT  
Connection (inlet/outlet) 3/4 Zoll  
Air-on temperature 0,0 °C  
Air-off temperature 20,0 °C  
Capacity (total ) 16,8 kW  
Air pressure drop 44 Pa  
Coating,Coating

Medium on temp. 90,0 °C  
Medium off temp. 70,0 °C  
Medium flow rate 0,74 m³/h  
Antifreeze percentile 0 %  
Pressure drop medium 4,4 kPa

Flange/counterflange, DN 20

#### (5) Fan, Standard design

Air volume 2360 m³/h  
External pressure 200 Pa  
Internal pressure 364 Pa  
Dynamic pressure 40 Pa  
Total pressure 604 Pa  
Impeller Backward inclined  
Fan type T-HLZ 225  
Discharge position A  
Fan - capacity 0,50 kW

Fan - speed 3331 1/min  
Peripheral velocity 39,2 m/s  
Efficiency 78,5 %  
**Motor - capacity 0,7/0,15 kW**  
**Motor - speed 1500/750 1/min**  
**Motor - voltage 3\*400 V**  
**Motor-current\* 2,0/0,9 A**  
Motor size 80  
Total sound power 79,7 dBA

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

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 28 Pa  
Air diffusor, Pressure side, Standard

## (7) Attenuator type 3

Selection resistance 10 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 70 Pa Selection resistance 120 Pa  
Filter bag F5 Lightning 24 Volt, Mounted and wired  
Access door bag filter section

## (10) Cooling section

Heat exchanger typee Cu/Cu SOKA Medium off temp. 6,3 °C  
3872  
Connection (inlet/outlet) Medium flow rate 12,60 m³/h  
Air-on temperature 20,0 °C Antifreeze percentile 30 %  
Relative humidity 40,0 % Pressure drop medium 12,6 kPa  
Air-off temperature 8,8 °C  
Relative humidity 82,4 %  
Capacity (total) 8,7 kW  
Pressure drop(drop elim.) 31 Pa  
Air pressure drop 81 Pa  
Medium on temp. 3,9 °C  
Special heat exchanger  
Designation Sonder Register Special number 38721  
Drop eliminator, T 400

## (11) Attenuator type 3

Selection resistance 10 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 2360 m³/h Fan - speed 3158 1/min  
External pressure 200 Pa Peripheral velocity 37,2 m/s  
Internal pressure 270 Pa Efficiency 76,0 %  
Dynamic pressure 40 Pa **Motor - capacity 0,7/0,15 kW**  
Total pressure 510 Pa **Motor - speed 1500/750 1/min**  
Impeller Backward inclined **Motor - voltage 3\*400 V**  
Fan type T-HLZ 225 **Motor-current\* 2,0/0,9 A**  
Discharge position B Motor size 80  
Fan - capacity 0,44 kW Total sound power 78,4 dBA

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

Flexible connection D Lightning 24 Volt, Mounted and wired  
Access door 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

## General accessory:

2 Pcs. Linkage external, Linkage 1 (lever) 2 Pcs. Diff. pressure manometer, Dwyer - Minihelic

4 Pcs. Indicator thermometer, Supplied loose ,f. Teil 1, 7, 8, 12  
1 Pcs. Frost protection thermostat, Loose

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

## Unit dimensions

Length	4020 mm	Breadth	710 mm
Height	1420 mm	Weight	659 kg

Änderungslegende:

Underlined values were changed

~~Crossed out values were blanked~~