

Air handling units

Order No.: 00622043/08(modification no.1 from 31.01.00)

Customer	Elco Wolf NL	Responsible in yr.	Dhr. R. Teijgelaar
		com	
Project / commission	Stadsgevangenis Koddeweg te Hoogvliet	Pos	LBK 218.01
Responsible in our com	Monika Ziegler	Order volume	1
Your job number	891804		
Unit typee	Supply air Horizontal		
Unit size supply air	KG 100 Gigant	Air volume supply air	8075 m ³ /h
Casing design	Gigant-casing		

Supply air:

(1) Bag filter section

Initial resistance	157 Pa	Selection resistance	207 Pa
Access door bag filter section		Filter bag F7	
Lamp 24 Volt (dry room), Mounted and wired		Damper Q external	
Flexible connection Q			

(2) KVS - heating coil section

Heat exchanger typee	II Cu/Al	Medium on temp.	0,1 °C
Connection (inlet/outlet)	2 0/0	Medium off temp.	-2,9 °C
Air-on temperature	-10,0 °C	Medium flow rate	3,50 m ³ /h
Air-off temperature	-6,4 °C	Antifreeze percentile	30 %
Capacity (total)	10,7 kW	Pressure drop medium	4,6 kPa
Air pressure drop	137 Pa	Heat recovery figure	0,1
Coating, Coating		Flange/counterflange, DN 50	

(3) Heating section

Heat exchanger typee	1 Cu/Al LT	Medium on temp.	90,0 °C
Connection (inlet/outlet)	1 0/0	Medium off temp.	70,0 °C
Air-on temperature	-6,4 °C	Medium flow rate	3,43 m ³ /h
Air-off temperature	20,0 °C	Antifreeze percentile	0 %
Capacity (total)	77,8 kW	Pressure drop medium	18,1 kPa
Air pressure drop	52 Pa		
Coating, Coating		Flange/counterflange, DN 25	

(4) Fan, Standard design

Air volume	8075 m ³ /h	Fan - speed	2406 1/min
External pressure	200 Pa	Peripheral velocity	44,7 m/s
Internal pressure	546 Pa	Efficiency	79,1 %
Dynamic pressure	72 Pa	Motor - capacity	3,2/0,80 kW
Total pressure	818 Pa	Motor - speed	1500/750 1/min
Impeller	Backward inclined	Motor - voltage	3*400 V
Fan type	T-HLZ 355	Motor-current*	8,3/4,5 A
Discharge position	A	Motor size	112
Fan - capacity	2,32 kW	Total sound power	94,5 dB

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

Access door	Isolator mounted and wired, AR 6/5,5
Motor protection, Without motor protection	Fan pulley, 90 SPZ 2 BG 30
Motor pulley, 160 SPZ 2 BG 28	Lamp 24 Volt (dry room), Mounted and wired

(5) Empty section with air diffusor

Selection resistance	52 Pa
Air diffusor, Pressure side, Standard	

(6) Attenuator type 3

Selection resistance

52 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

General accessory:

1 Pcs. Linkage external, Linkage 1 (lever)

1 Pcs. Indicator thermometer, Mounted , Teil 1

7 Pcs. Cable inlet, Without traction relief , 4 x Druck, 3 x Temperatur

1 Pcs. Diff. pressure manometer, Dwyer - Minihelic mounted , Filter

1 Pcs. Indicator thermometer, Mounted , Teil 6

~~4 Pcs. Frost protection thermostat, Loose~~

Unit dimensions

Length

4350 mm

Breadth

1040 mm

Height

1040 mm

Weight

700 kg

Änderungslegende:

Underlined values were changed~~Crossed out values were blanked~~