

Air handling units

Order No.: 00622043/01

Customer	Elco Wolf NL	Responsible in yr.	Dhr. R. Teijgeler
		com	
Project / commission	Stadsgevangenis Koddeweg	Pos	LBK 211.01
	te Hoogvliet		
Responsible in our	Monika Ziegler	Order volume	1
com			
Your job number	891804/1		
Unit typee	Supply air Horizontal		
Unit size supply air	KG 250 Gigant	Air volume supply air	14600 m³/h
Casing design	Gigant-casing		

Supply air:

(1) Exhaust air section/empty section

Damper S internal Flexible connection S

(2) Short bag filter section

Initial resistance	44 Pa	Selection resistance	144 Pa
Short filter bags F7		Access door short-bag filter section	
Lightning 24 Volt, Mounted and wired			

(3) Heating section

Heat exchanger typee	1 Cu/Al LT	Medium on temp.	90,0 °C
Connection (inlet/outlet)	1 1/2	Medium off temp.	70,0 °C
Air-on temperature	-10,0 °C	Medium flow rate	8,35 m³/h
Air-off temperature	25,0 °C	Antifreeze percentile	0 %
Capacity (total)	189,1 kW	Pressure drop medium	11,5 kPa
Air pressure drop	19 Pa		
Flange/counterflange, DN 40			

(4) Fan, Standard design

Air volume	14600 m³/h	Fan - speed	1146 1/min
External pressure	225 Pa	Peripheral velocity	33,6 m/s
Internal pressure	231 Pa	Efficiency	79,4 %
Dynamic pressure	37 Pa	Motor - capacity	4,5/1,1 kW
Total pressure	493 Pa	Motor - speed	1500/750 1/min
Impeller	Backward inclined	Motor - voltage	3*400 V
Fan type	T-HLZ 560	Motor-current*	12,0/4,8 A
Discharge position	A	Motor size	132
Fan - capacity	2,52 kW	Total sound power	82,4 dBA

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

Access door	Lamp 24 Volt (dry room), Mounted and wired
Motor protection, Without motor protection	Isolator mounted and wired, AR 6/5,5
Fan pulley, not adjustable, acc. to technical department	Motor pulley, not adjustable, acc. to technical department

(5) Empty section with air diffusor

Selection resistance 31 Pa
Air diffusor, Pressure side, Standard

(6) Attenuator type 3

Selection resistance 17 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. Frost protection thermostat, Loose
2 Pcs. Cable inlet, Without traction relief, f. Register	4 Pcs. Cable inlet, Without traction relief, f. Filter u. Venti
1 Pcs. Diff. pressure manometer, Dwyer - Minihelic mounted, f. Filter	2 Pcs. Indicator manometer, Mounted, f. Leerteil 1 + 5

Unit dimensions

Length	3730 mm	Breadth	3350 mm
Height	1640 mm	Weight	1286 kg