

Air handling units

Order No.: 00622043/05(modification no.2 from 02.02.00)

Customer	Elco Wolf NL	Responsible in yr.	Dhr. R. Teijgelaar
		com	
Project / commission	Stadsgevangenis Koddeweg te Hoogvliet	Pos	LBK/AVE 215.01
Responsible in our com	Monika Ziegler	Order volume	1
Your job number	891804/5		
Unit typee	Supply and exhaust air Double stacked		
Unit size supply air	KG 40 Gigant	Air volume supply air	1500 m ³ /h
Unit size exhaust air	KG 40 Gigant	Air volume exhaust air	1500 m ³ /h
Heat recovery	KGXD		
Casing design	Gigant-casing		

Supply air:

(1) Exhaust air section/empty section

Damper S internal Flexible connection S

(2) Bag filter section

Initial resistance	68 Pa	Selection resistance	118 Pa
Lamp 24 Volt (dry room), Mounted and wired Filter bag F7		Access door bag filter section	

(3) KGXD vertical

Fresh air pre-heating(heat recovery)		Heat recovery figure	69,1 %
Fresh air temperature	-10,0 °C	Heating capacity	10,4 kW
Deepest fresh air temp.	-14,1 °C	Condensate	2,5 kg/h
Exhaust air temperature	20,0 °C	Vitiated air temperature	2,8 °C
Relative humidity of exhaust air	40,0 %	Relative humidity of vitiated air	94,6 %
Data related to fresh air temp.		Pressure drop(drop elim.)	16 Pa
Supply air temperature	10,7 °C	Pressure drop fresh air	72 Pa
Relative humidity of supply air	0,0 %	Pressure drop exhaust air	72 Pa
Heat exchang.,KGXD with bypass		Drain pan with drain connection	
Bypaß damper,Bypaß damper KGXD		Drop eliminator,T 400	

(4) Fan,Standard design

Air volume	1500 m ³ /h	Fan - speed	2730 1/min
External pressure	275 Pa	Peripheral velocity	32,2 m/s
Internal pressure	201 Pa	Efficiency	80,9 %
Dynamic pressure	16 Pa	Motor - capacity	0,5/0,1 kW
Total pressure	492 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	B	Motor size	80
Fan - capacity	0,25 kW	Total sound power	82,9 dB

***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	Lamp 24 Volt (dry room), Mounted and wired
Access door	Isolator mounted and wired, AR 6/5,5
Motor protection, Without motor protection	<u>Fan pulley,</u>
Motor pulley, not adjustable, acc. to technical department	Fan pulley, Text-Nummer nicht gefunden: 353522

Exhaust air:

(3) KGXD vertical

Technical data see supply air

(5) Exhaust air section/empty section

Damper S internal

Flexible connection S

(6) Bag filter section

Initial resistance 45 Pa

Selection resistance 95 Pa

Lamp 24 Volt (dry room), Mounted and wired
Filter bag F5

Access door bag filter section

(7) Fan, Standard design

Air volume 1500 m³/h

Fan - speed 2930 1/min

External pressure 375 Pa

Peripheral velocity 34,5 m/s

Internal pressure 194 Pa

Efficiency 79,2 %

Dynamic pressure 16 Pa

Motor - capacity 0,5/0,1 kW

Total pressure 585 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 B

Motor size 80

Fan - capacity 0,31 kW

Total sound power 84,9 dB

***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

Lamp 24 Volt (dry room), Mounted and wired

Access door

Isolator mounted and wired, AR 6/5,5

Motor protection, Without motor protectionFan pulley, _____

Motor pulley, not adjustable, acc. to technical department

~~Fan pulley, Text-Nummer nicht gefunden: 353522~~

General accessory:

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

3 Pcs. Linkage external, Linkage 1 (lever)

10 Pcs. Cable inlet, Without traction relief , 6x Druck, 4x Temperatur

4 Pcs. Indicator thermometer, Mounted ,f. Teil 1, 4, 5, 7

Unit dimensions

Length 3670 mm

Breadth 710 mm

Height 1420 mm

Weight 547 kg

Änderungslegende:

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