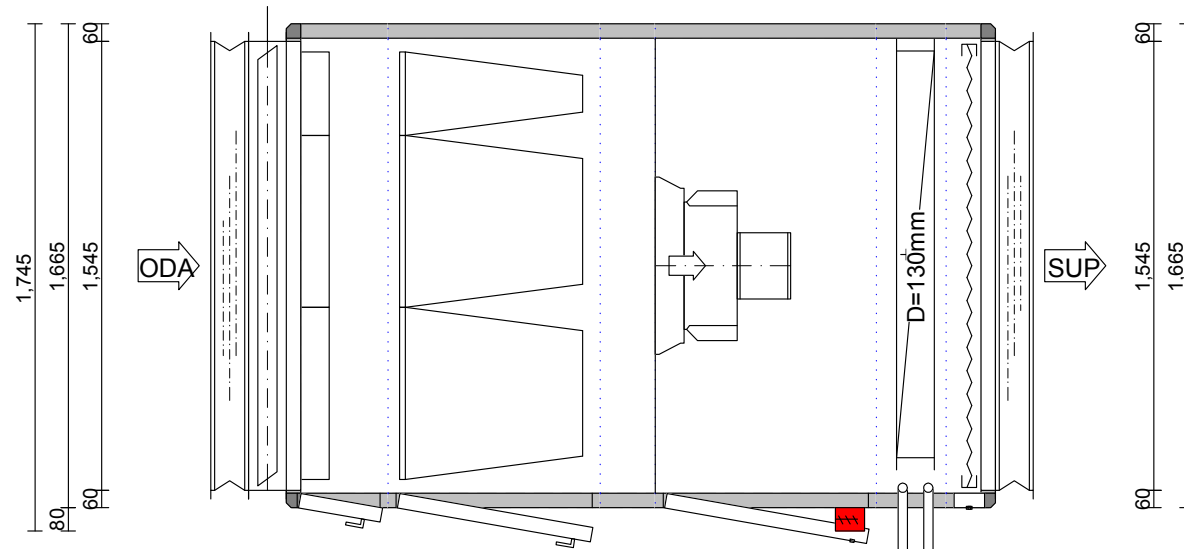
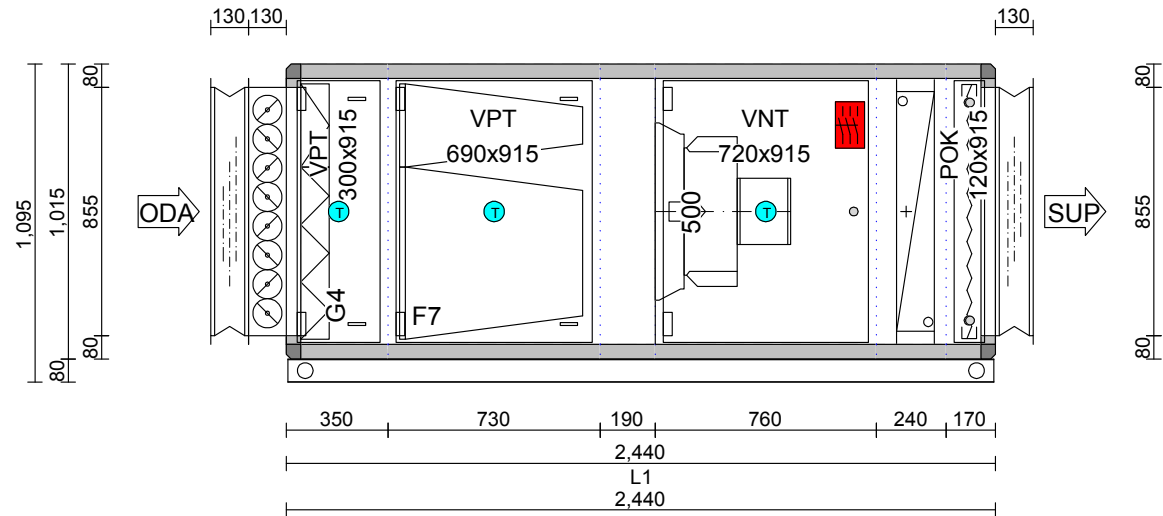




For information only!

AirCalc++ 3.20.130/2 - D.V.3.9.070 - 10001 - 4/18/2018

	pos. no. 01	Description AHU-01			Supply	Exhaust	Offer no	
				Unit size	15/9 d50		SQ_539902.0	
	Project Reading		Client LIndab UK	Airflow [m³/h]	11,160		Designed by	Thomas Ge
				Tot. press. drop [Pa]	609		Date	4/18/2018
arrangement:		KNNL d50 15/9 - FK, FTT, L, VF, EW, FR					Weight netto/brutto [kg]	50

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Offer **SQ_539902.XZ**
From date **4/18/2018**

Project **Reading**
Position **01 - AHU-01**
Agent **Thomas Getchell**
Date **4/18/2018**

General data

Serie **Klimair2/Topair**
Type **Indoor Unit**
access side **right**
weight netto/brutto [kg] **505 / 516**
SFPs [W/m3/s] **994** SFPv [W/m3/s] **742**
SFPint [W/m3/s] **171**
ErP id.code **UVU** Fan eff. [%] **51.43**
Recirculation [%]
winter outdoor des. temp. [°C] **-5.00** air density [kg/m³] **1.20**
arrangement **KNNL d50 15/9 - FK, FTT, L, VF, EW, FR**

EUROVENT energy Efficiency Class
Designed for wet conditions



ErP 2016 **ErP 2018**
Ready **Ready**



Casing data

Panel outside	galvanized steel	Insulation	mineral wool - 100.00 kg/m3
Panel inside	galvanized steel	panel thickness	50.0 mm
Panel inside bottom	galvanized steel	mechanical stability	D1
Corners	Aluminium	leakage	L3[R]
Profiles	Aluminium	thermal transmittance	T2
Guides	galvanized steel	thermal bridges	TB3
		CAL [M] at -400Pa	0.02 % CAL [M] at +700Pa 0.02 %

Unit data

Supply

Unit size **15/9**
Airflow [m³/h] **11,160**
air velocity [m/s] **2.16**
ext. press. drop [Pa] **200**
Dimensions [mm] **2,440.0 x 1,665.0 x 1,015.0**

Exhaust

Unit size
Airflow [m³/h]
air velocity [m/s]
ext. press. drop [Pa]
Dimensions [mm]

Sections data - supply

Offer	SQ_539902.XZ				
Position	01 - AHU-01				

FK Panel filter					L = 300.0 mm		dp = 105 Pa	
Class		G4						
Pressure drop [Pa]								
Clean	32	Dirty	150	Average	91			
filter length [mm]		98.0						
Filter surface [m2]		2.43						
air velocity [m/s]		2.40						
		Type of unit						
Accessories		Differential manometer - Magnahelic 0 - 500 Pa						
Door - negative pressure					Dimensions [mm] 300.0 x 915.0			
Opening		E - frontal full			Dimensions [mm] 1,545.0 x 855.0			
Damper					Dimensions [mm]		1,545.0 x 855.0 x 130.0	
Actuated by		Suitable for actuator						
Frame	GI	Blades		AL		Airtight		No
Pressure drop [Pa]		14				Class EN 1751		2
		Type of unit						
Flexible canvas					Dimensions [mm] 1,545.0 x 855.0 x 130.0			
Type	HM			temperatur [°C]	80.00			
measuring hole								

FTT Bag Filter					L = 690.0 mm		dp = 169 Pa	
Class		F7			Filter surface [m2]		24.35	
Pressure drop [Pa]					Bag length [mm]		630.0	
Clean	88	Dirty	250	Average	169			
air velocity [m/s]		2.40						
Filter media type		Synthetic						
Filter energy class (EN 779:2012)		E						
Energy consumption [kWh/a]								
		Type of unit						
Accessories		Differential manometer - Magnahelic 0 - 500 Pa						
Door - negative pressure					Dimensions [mm] 690.0 x 915.0			
measuring hole								

L Length data		L = 150.0 mm		dp = 0 Pa	
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Offer	SQ_539902.XZ
Position	01 - AHU-01

VF Plug fan				L = 720.0 mm	dp = 0 Pa
impeller diameter [mm]	VF - 500.			Motor size	114 EC-Type
Number of fans	1			Efficiency class	IE4
Pressure drop [Pa]	Static 511			Protection	IP54
external 200	Dynamical 98	Total 609		Insulation class	F
sound power [dB(A)]	91.6			Power [kW]	5.400
Speed [1/m]	1,863			Speed [1/m]	2,130
shaft power [kW]	Control voltage [V] 8.70			Current [A]	8.17
Absorbed power [kW]	3.080	SFP [W/m3/s] 994		voltage [V]	3x400 / 50
efficiency [%]					
Outlet connection [mm]	610.0 x 610.0				
air velocity [m/s]	14.89				
K factor [m2s/h]	195				

- The fan system effect is taken into account in the fan performance

Door - positive pressure		Dimensions [mm] 720.0 x 915.0	
Opening	L - fan horizontal	Dimensions [mm] 610.0 x 610.0	
on/off motor switch		Protection	IP65
Typ		auxiliary contact	Yes with cabling
measuring hole			

EW Heating coil H2O / Glycol				L = 200.0 mm		dp = 37 Pa	
Air temperature [°C]				Medium		Water	
Inlet	-5.00	Outlet	22.00	Medium temperature [°C]			
air velocity [m/s]		2.68		Inlet	80.00	Outlet	60.00
Air pressure drop [Pa]		37		Medium flowrate [l/s]		1.2400	
Capacity [kW]		101.71		Medium velocity [m/s]		1.00	
Fin space [mm]		4.0		Medium pressure drop [kPa]		9.50	
Type		EW - CU/AL/FEZ/FEL					
Connection		Screwed					
Inlet		Outlet					

FR Anti frost frame			L = 120.0 mm	dp = 0 Pa
Panel with stoppers			Dimensions [mm]	120.0 x 915.0
Opening E - frontal full			Dimensions [mm]	1,545.0 x 855.0
Flexible canvas			Dimensions [mm]	1,545.0 x 855.0 x 130.0
Type	HM	temperatur [°C]	80.00	

Noise data										
octave band sound power level [dB]										Dist.2 [m]
Frequency [Hz]	63	125	250	500	1000	2000	4000	8000	Sum [dB(A)]	Sum [dB(A)]
Casing	70.0	71.0	75.0	72.0	68.0	54.0	46.0	37.0	72.8	58.8
Inlet	77.0	79.0	84.0	75.0	73.0	68.0	65.0	67.0	79.4	65.4
Outlet	79.0	83.0	91.0	87.0	82.0	77.0	74.0	74.0	88.4	74.4

Counter baseframe	low 80 mm	galvanized steel
Accessories	Antivibration pad - MAFUND	
Accessories	EUROVENT	

Offer	SQ_539902.XZ
Position	01 - AHU-01

Accessories	Designed for Wet conditions
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Delivery sections			
no.	Sections	dimensions (W x H x L) [mm]	Weight netto/brutto [kg]
1	FK, FTT, L, VF, EW, FR	1,665.0 x 1,015.0 x 2,440.0	505 / 516
All specifications are net data without overhang of pallets, base frame , roof , hood or coil tube connections			
Total			505 / 516

Offer **SQ_539902.XZ**
from date **4/18/2018**
project **Reading**
position **01 - AHU-01**

Fan - Supply air

Type	GR50C-ZID.GL.CR3			Motor size	114
Number of fans	1			Efficiency class	IE4
Airflow [m³/h]	11,160			Power [kW]	5.400
Pressure drop [Pa]				Speed [1/m]	2,130
external 200	Dynamical 98	Total 609			
Speed [1/m]	1,863			Current [A]	8.17
shaft power [kW]				voltage	3x400 / 50
Absorbed power [kW]	3.080				
Control voltage [V]	8.70				
K factor [m2s/h]	195				

