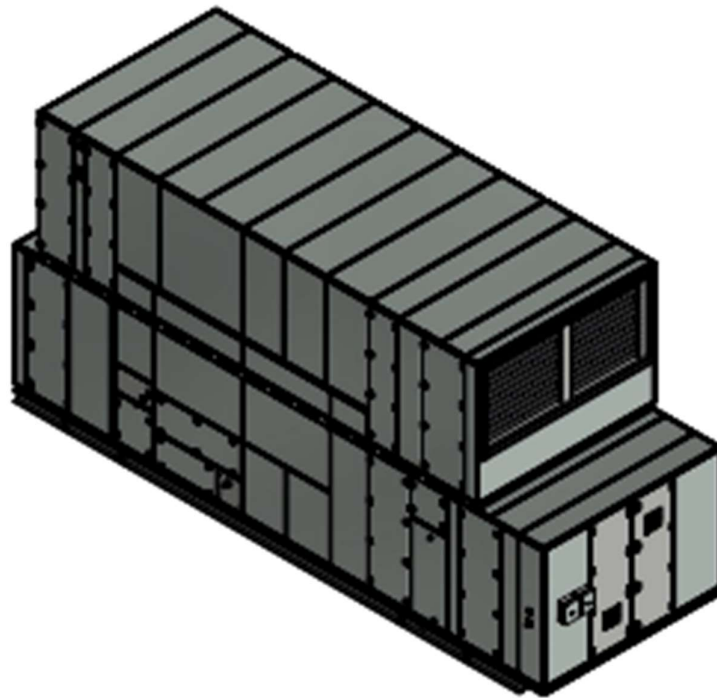


Digiplex Holtskogen AS

DHAS Blg C

Planned Service Agreement



Revision: 5

Date: 14th January 2021

Author: Karl Nursey

Approved By: Yan Evans

Revision History

Revision	Date	Changes
0	15/10/2020	Issued as an internal draft for review/comment
1	27/10/2020	Issued as a draft for Digiplex review/comment
2	19/11/2020	Issued with changes to spares list & changes as suggested by Digiplex
3	08/12/2020	Issued with further changes
4	14/12/2020	Updated spare parts list
5	14/01/2021	Changed FG Signature holder

Contents

1) Introduction	4
2) What is Included in the Agreement?	5
3) Exclusions to the Agreement	6
4) Planning, Execution and Contract Review	7
5) IEC Spares List	8
6) AHU Spares List	13
Support Area AHU	13
Data Hall AHU	15
6) Contacts	18
7) Possible Additions to the Agreement.....	19
8) Signatures of Acceptance.....	20
9) Appendices.....	21

1) Introduction

Within the Purchase Orders placed by Digiplex on FläktGroup for the design, manufacture, delivery, assembly and commissioning of IEC units there is the inclusion of a line item covering a 5-year service contract for the same IEC units. The current agreement covers IEC units supplied to DHAS Building C.

Listed below are the units covered by the current agreement:

DHAS Building C = 32 x IEC units

DHAS Building C = 3 x AHU's

The serial numbers of the IEC units & AHU's are listed in the Appendix.

In addition to the main contract, 2 off AHU's were purchased by the Principle Contractor, that also came from FläktGroup. At the request of Digiplex these AHU's also wish to be brought under a service agreement.

This document is intended to detail exactly what is included and what is excluded in the existing contract for planned service visits associated with of the IEC units.

Also included in this document are the spare parts lists previously provided for the IEC units & AHU's, details on the maintenance tasks needed along with frequency and responsibility, a proposed Service Record Report and also an Incident Form that can be used to report issues, breakdowns or queries to us.

2) What is Included in the Agreement?

The agreed prices for Planned Servicing of the IEC units & AHU's include for Labour on site and Travel time to site, including a mileage allowance only.

Please note that our pricing allows for 3 (three) planned service visits per annum per IEC unit and AHU.

The warranty for the IEC units is offered as 2 years from delivery to site (Oslo, Norway) i.e.
DHAS Building C (32 x IEC units) – end of warranty period - 14/05/2022

The warranty is offered as 1 year from delivery to site (Oslo, Norway) i.e.
DHAS Building C (3 x AHU's) – end of warranty period - 07/07/2021

This was agreed during the terms and conditions discussion and the above dates are included in the contractual Addendum to the Digiplex Terms and Conditions of Purchase.

The planned 3 times a year Planned Service Visits will be undertaken by FläktGroup Sweden Service personnel.

Planned startup for the Maintenance is January 2021.
DFAS II buildings will be maintained first then DHAS buildings, unless they can be maintained simultaneously.

Included in the Appendix is a breakdown of the Digiplex Maintenance Schedule that is needed for the IEC units and AHU's, along with frequency and responsibility for the tasks and our proposed Service Report Record.

Initially the Planned Service visits will be co-ordinated through the FläktGroup Project Manager along with the FläktGroup Sweden Service Manager. Once systems are fully in place and all parties are in agreement this can be changed so Digiplex personnel can co-ordinate directly with FläktGroup Sweden with others in copy.

3) Exclusions to the Agreement

The Service and Maintenance agreement only includes what is detailed in Section 2. The following are not included in the scope of the agreement.

(i) Water Treatment Plant – FläktGroup understands that the source of the water for the adiabatic cooling is a combination of RO water and harvested rain water. The servicing of the water treatment plant, particularly with rain water harvesting introduced, is a very specialised area and we do not have the expertise or experience to undertake this work. The capital cost of the water treatment plant was not included in our pricing.

(ii) Any special access equipment required to undertake the Service and Maintenance. This is to be provided by Digiplex.

(iii) Digiplex on site operations team to assist with distribution of filters to plant room area on arrival at site.

(iv) Removal of any waste as a result of the Service and Maintenance activities. FläktGroup engineers will assist where possible to locate all waste in the agreed location with Digiplex. Segregation of waste is not to be carried out by FläktGroup.

(v) Consumables and replacement parts which would be chargeable. Our priced Spares Parts Lists are included in Section 4 & 5 of this document. The 1st year consumables costs for the IEC's & AHU's filters is approx €23,756.97 per building, excluding transport costs.

(vi) The air filters (Ambient Side and Supply Side) would be regarded as consumables – based on experience we would expect the Ambient Side filters would require changing twice a year, and the filters on the Supply Side only once a year. Prices for spare filters are shown on the Spare Parts Price Lists in Sections 4 and 5.

(vii) No allowance for response support, callouts, site support or ad-hoc maintenance visits has been included in the agreement. These will be provided by a local partner, Ateam Inneklimaservice AS, who are located in the Oslo area.

(viii) No allowance for any critical spares is included in the agreement. The Spare Parts Lists in Sections 4 & 5 are included and may assist. We would be happy to assist with creating a list of any such parts that Digiplex wish to consider purchasing and storing on site.

During the warranty period any warranty issues are to be communicated to the FläktGroup Project Manager and FläktGroup Commissioning & Controls Manager, who will arrange the appropriate course of action to take and arrange any site presence as is necessary.

4) Planning, Execution and Contract Review

All maintenance visits are to be pre-booked and planned a minimum of 40 days prior to the actual visit, unless pre-agreed in writing from Digiplex.

To aid Digiplex with their obligations to their clients all visits are to have SOP/MOP/RAMS submitted for the works for agreement and approval prior to the works taking place, with submission no later than 40 days prior to the works.

All FläktGroup personnel for each visit will be detailed to Digiplex, with a full list of names issued no later than 10 days prior to the works.

All FläktGroup personnel attending site will be required to have completed online inductions(s), signing of T&C's (GDPR/CCTV/ND) prior to attending site, available through the following link:

<https://www.digiplex.com/portal/supplier-portal>

All forms, inductions, etc are to be completed no later than 48hrs prior to the visit taking place.

Detailed Service Reports, one for each IEC/AHU unit, are to be submitted to the Digiplex Primary Site Contact no later than 7 days after the end of the visit. A copy of our proposed report is provided in the Appendix for reference.

All invoices for the maintenance visits will be paid on 30 days net terms. All invoices are to reference the appropriate approved Purchase Order Number, as follows:

DHAS Building C IEC's – PO No. 13

DHAS Building C AHU's – PO No TBC

Any consumables needed will be subject to a separate Purchase Order with the same payment terms applicable.

An annual review of the contract is to be held as a meeting between the primary contacts of FläktGroup and Digiplex for the contract. The purpose being to improve cooperation from both parties based on experiences in the previous period, to look at performance, execution, opportunities for improvement, request to change contract etc. The first of which to take place in January 2022.

5) IEC Spares List

Article No.	Description	Amount / Unit	Unit	Single Pcs Price	Per Unit Price	Position Reference in Unit	Location in Unit
10025040	Water Flow Switch	1	Pcs	€ 301.17	€ 301.17	20B1	Sump Area
10102069	Drain Pump	1	Pcs	€ 322.70	€ 322.70	16M2	Sump Area
E147030	Drain Pump Seal Kit	1	Pcs	€37.98	€37.98	16M2	Sump Area
10102377	Ball valve 1/2"	1	Pcs	€ 38.44	€ 38.44	-	Sump Area
1011116	G4 Filter 592/592/360	12	Pcs	€ 18.54	€ 222.48	-	Fresh Air Inlet Chamber
1011117	G4 Filter 287/592/360	3	Pcs	€ 10.79	€ 32.38	-	Fresh Air Inlet Chamber
1011116	G4 Filter 592/592/360	12	Pcs	€ 18.54	€ 222.48	-	Return Air Inlet Chamber
1011117	G4 Filter 287/592/360	3	Pcs	€ 10.79	€ 32.38	-	Return Air Inlet Chamber
10197721	Winter Control Damper	2	Pcs	€ 120.16	€ 240.32	-	Fresh Air Inlet Chamber
10202423	HR Coil Bypass Damper	1	Pcs	€ 325.85	€ 325.85	-	Return Air Chamber
10202425	Exhaust Damper	1	Pcs	€ 708.95	€ 708.95	-	Exhaust Fan Chamber
10205549	Ambient Fan 3.4kW	4	Pcs	€ 1,544.86	€ 6,179.42	6M1, 7M1, 8M1 & 9M1	Exhaust Fan Chamber
10205550	Supply Fan 5.0kW	6	Pcs	€ 1,803.14	€ 10,818.83	10M1, 11M1, 12M1, 13M1, 14M1 & 15M1	Supply Fan Chamber
10208664	Adiabatic Pump	1	Pcs	€ 1,169.57	€ 1,169.57	16M1	Sump Area
E146842	Adiabatic Pump Seal Kit	1	Pcs	€258.83	€258.83	16M1	Sump Area
10208670	Strainer DN50 0.6-0.8mm	1	Pcs	€ 174.09	€ 174.09	-	Sump Area
10215486	Ethernet Extension Cable CAT6 RJ45 3.0m	1	Pcs	€ 14.42	€ 14.42	-	control panel
10229538	Water Flow Meter 24v 0-10v	1	Pcs	€ 307.21	€ 307.21	20B2	Sump Area
10262725	Plate Heat Exchanger (dry)	1	Pcs	€ 16,061.10	€ 16,061.10	-	Heat Exchanger Section

Article No.	Description	Amount / Unit	Unit	Single Pcs Price	Per Unit Price	Position Reference in Unit	Location in Unit
10263202	Damper Actuator Modulating 24v 20NM 0-10v	5	Pcs	€ 166.41	€ 832.03	19Y1, 19Y3, 18Y3, 18Y4 & 19Y1	Fresh Air Inlet, Exhaust Air Outlet Chambers & HR Coil Section (after return air filter)
E136290	Damper Actuator ON/OFF 24v 0-10v	3	Pcs	€ 309.10	€ 927.30	18Y1 & 18Y2	Supply Air & Return Air Damper Chambers
10264071	Terminal Box	1	Pcs	€ 67.63	€ 67.63	32B6	Sump Area
10264070	Water Level Sensor	1	Pcs	€ 256.88	€ 256.88	32B6	Sump Area
10264073	Water Level Rod 300mm	1	Pcs	€ 35.23	€ 35.23	32B6	Sump Area
10264074	Tube Nut for Water Level Rod	1	Pcs	€ 2.78	€ 2.78	32B6	Sump Area
10291250	LED light IP54 3W	7	Pcs	€ 45.57	€ 318.97	H1-H5	various compartments
10296395	Pressure Transducer -100 - 2500PA 0-10v/4-20mA IP65	6	Pcs	€ 165.62	€ 993.74	32B2, 32B3, 31B1 & 31B2	Supply Fan, Exhaust Fan, Return Filter and Fresh Air Filter Chambers
10296399	Temperature and Humidity Sensor IP65 24vAC -20 +80°C/0-100%RH	2	Pcs	€ 274.74	€ 549.48	26B3 & 26B1	Fresh Air Inlet & Return Air Inlet After Filters
E085766	Temperature sensor (PT1000) - 50 - +50°C	1	Pcs	€ 61.64	€ 61.64	26B2 & 26B5	Supply outlet and fresh air filter chamber
10296404	Pressure transducer (Supply and return duct) 0-250PA 0-10v IP65	1	Pcs	€ 152.34	€ 152.34	32B1	Return Air Chamber
160683	Control Cabinet Fan 150x150mm	1	Pcs	€ 123.50	€ 123.50	17M1	control panel
160687	Control Cabinet Outlet Filter 150x150mm	1	Pcs	€ 31.31	€ 31.31	-	control panel
168683	Control Cabinet Light 230v IP66	1	Pcs	€ 9.50	€ 9.50	-	control panel

Article No.	Description	Amount / Unit	Unit	Single Pcs Price	Per Unit Price	Position Reference in Unit	Location in Unit
348765	Immersion Temperature Sensor PT1000	1	Pcs	€ 96.41	€ 96.41	26B4	Sump Area
348766	Immersion Sleeve	1	Pcs	€ 81.51	€ 81.51	26B4	Sump Area
632273	Light Switch IP66	1	Pcs	€ 53.13	€ 53.13	34S1	adjacent to control panel doors
E132352	Plate Heat Exchanger (wet)	1	Pcs	€ 22,927.51	€ 22,927.51	-	Heat Exchanger Section
E132403	Fresh Water Valve DN25 24v	1	Pcs	€ 584.20	€ 584.20	20Y1	Sump Area
E132404	Drain Valve DN12 24v	1	Pcs	€ 536.05	€ 536.05	20Y3	Sump Area
E132405	Strainer DN15	1	Pcs	€ 41.72	€ 41.72	-	Sump Area
E136044	Control cabinet (left-handed unit)	1	Pcs	€ 11,768.78	€ 11,768.78	-	control panel
E136410	HR coil (left-handed unit)	1	Pcs	€ 1,962.19	€ 1,962.19	-	Return Air Chamber
E136514	Isolator	2	Pcs	€ 220.44	€ 440.88	3Q1 & 3Q2	adjacent to control panel doors
E137055	Emergency Button	1	Pcs	€ 113.66	€ 113.66	28X2	adjacent to control panel doors
U73870	Supply/Return Damper	2	Pcs	€ 847.57	€ 1,695.13	-	Supply & Return Air Chamber Sections
E139031	PLC	1	Pcs	€ 2,024.07	€ 2,024.07	23A1	control panel
	HMI	1	Pcs		€ 0.00		Separate BMS Panel
E136074	I/O Module	1	Pcs	€ 1,042.40	€ 1,042.40	29A1	control panel
E136077	Adapter for Controller and I/O Module	1	Pcs	€ 92.91	€ 92.91	-	control panel
E136841	BACnet Module	1	Pcs	€ 339.47	€ 339.47	-	control panel
E136842	SD Card	1	Pcs	€ 111.45	€ 111.45	-	control panel
286131	Control Cabinet Heater 230v 130w	1	Pcs	€ 256.10	€ 256.10	17R1	control panel

Article No.	Description	Amount / Unit	Unit	Single Pcs Price	Per Unit Price	Position Reference in Unit	Location in Unit
E136043	Control Cabinet (right-handed unit)	1	Pcs	€ 11,427.46	€ 11,427.46	-	control panel
E136411	HR Coil (right-handed unit)	1	Pcs	€ 1,905.04	€ 1,905.04	-	Return Air Chamber
E132361	Spray Bar (left)	1	Pcs	€ 2,307.02	€ 2,307.02	-	Upper Heat Exchanger Section
E132360	Spray Bar (right)	1	Pcs	€ 2,307.00	€ 2,307.00	-	Upper Heat Exchanger Section
10086262	Nozzle	40	Pcs	€ 56.34	€ 2,253.60	-	Upper Heat Exchanger Section
316402	ATS	1	Pcs	€ 4,184.85	€ 4,184.85	3K1	control panel
316446	ATS Feedback Relay Block	1	Pcs	€ 391.91	€ 391.91	-	control panel
316403	ATS Bridge	1	Pcs	€ 351.71	€ 351.71	3X3	control panel
316650	ATS Plastic caps for Power Supply Contacts	1	Pcs	€ 33.35	€ 33.35	-	control panel
218243	Circuit Breaker for UPS Power Supply	1	Pcs	€ 11.89	€ 11.89	5F1	control panel
218238	Circuit Breaker for 24V line	1	Pcs	€ 18.94	€ 18.94	5F2	control panel
218237	Circuit Breaker for Cabinet Heater and Fan	1	Pcs	€ 32.77	€ 32.77	17F1	control panel
218240	Circuit Breaker for Supply Fans	1	Pcs	€ 53.30	€ 53.30	10F1-15F1	control panel
218242	Circuit Breaker for Exhaust Fans	1	Pcs	€ 58.70	€ 58.70	6F1-9F1	control panel
218239	Circuit Breaker for Drain Pump	1	Pcs	€ 40.98	€ 40.98	16F1	control panel
218702	Feedback Drain Pump	1	Pcs	€ 24.45	€ 24.45	-	control panel
312971	FI-switch for Socket	1	Pcs	€ 182.64	€ 182.64	-	control panel
315720	Power Socket	1	Pcs	€ 26.85	€ 26.85	4X1	control panel
316406	Quint PS 24V Transformer	1	Pcs	€ 702.09	€ 702.09	5T1	control panel

Article No.	Description	Amount / Unit	Unit	Single Pcs Price	Per Unit Price	Position Reference in Unit	Location in Unit
316407	Quint UPS Management	1	Pcs	€ 575.94	€ 575.94	5K1	control panel
316408	UPS Battery	1	Pcs	€ 1,714.13	€ 1,714.13	5C1	control panel
316409	Motor Protection for 230V Transformer	1	Pcs	€ 166.26	€ 166.26	4Q1	control panel
306232	Motor Protection for Adiabatic Pump	1	Pcs	€ 269.73	€ 269.73	16Q1	control panel
316420	Feedback Adiabatic Pump	1	Pcs	€ 26.25	€ 26.25	-	control panel
60028589	Pump Contactor	1	Pcs	€ 31.44	€ 31.44	21Q1	control panel
312111	Supply Fan Enabling Relay	1	Pcs	€ 33.21	€ 33.21	24K4 & 24K5	control panel
314621	Relay Bracket	1	Pcs	€ 1.22	€ 1.22	-	control panel
305414	Relay Socket	1	Pcs	€ 10.67	€ 10.67	-	control panel
209873	Relay LED	1	Pcs	€ 12.91	€ 12.91	-	control panel
200125	Relay 230V	1	Pcs	€ 13.83	€ 13.83	-	control panel
206207	Relay 24V	1	Pcs	€ 7.25	€ 7.25	-	control panel
211741	Relay Socket	1	Pcs	€ 7.37	€ 7.37	-	control panel
209840	Relay Bracket	1	Pcs	€ 0.61	€ 0.61	-	control panel
209841	Flyback Diode for Relays	1	Pcs	€ 5.48	€ 5.48	-	control panel
215654	Transformer for 230V	1	Pcs	€ 120.90	€ 120.90	4T1	control panel
210474	Thermostat for Control Cabinet Heater	1	Pcs	€ 67.98	€ 67.98	17B1	control panel
209900	Thermostat for Control Cabinet Fan	1	Pcs	€ 67.98	€ 67.98	17B2	control panel
316521	Bracket for Acryl Glass Cover	1	Pcs	€ 30.45	€ 30.45	-	control panel
316522	Acryl Glass Protection Cover	1	Pcs	€ 198.85	€ 198.85	-	control panel

Notes

Freight costs are not included in the above prices and will be advised at the time of order.

All items are sold on an DDU Freight terms, Delivery Duty Unpaid. As such any Import duties, VAT, etc are not included in the above prices and will need to be paid by the purchaser.

Lead times will be available at time of order placement.

6) AHU Spares List

Support Area AHU

Article Number	Description of Part	Qty per Unit	Measure	Position in Unit	Price/pcs ex works
10121320	Filter Pressure Gauge 0-500pa	4	Pcs	Fresh/return filter chamber	€ 96.58
10263203	Damper Actuator 18NM 24v/24v	2	Pcs	Fresh air inlet/exhaust air outlet	€ 143.70
10280067	Rotary Heat Exchanger	1	Pcs	Rotor chamber	€ 4,211.13
10286771	Differential Pressure Switch 40-400pa	4	Pcs	Filter chambers	€ 16.78
10291250	LED Light IP54 3W	4	Pcs	Fan and filter chambers	€ 30.50
10293156	G4 Panel Filter 610x305	4	Pcs	Fresh/return filter chamber	€ 10.58
10293159	G4 Panel Filter 610x610	4	Pcs	Fresh/return filter chamber	€ 18.00
10295062	Electric Heater 3x400V/50Hz 42kW	1	Pcs	Fresh air chamber	€ 4,495.40
10296393	Temperature sensor	4	Pcs	Fresh/return air inlet, Supply outlet, Fresh air filter chamber	€ 21.43
10296395	Differential Pressure Sensor - 100-2500pa 0-10v/4-20mA IP65 24vAC	2	Pcs	Fan chambers	€ 100.63
10299346	Supply/Extract Fan 4.8kW 380/480v	2	Pcs	Fan chambers	€ 1,788.00
1042597	F7 Bag Filter 592/592/534	4	Pcs	Fresh/return filter chamber	€ 62.20
108976	Bottle Trap	1	Pcs	DX coil section	€ 12.75
2101298	F7 Bag Filter 592/287/534	4	Pcs	Fresh/return filter chamber	€ 40.50
350755	Service switch	2	Pcs	Fan chambers	€ 31.55
632273	Light Switch	1	Pcs	Fresh air inlet	€ 46.98
633090	Airflow Sensor	1	Pcs	Pre-heater chamber	€ 228.30
E140867	DX coil	1	Pcs	Supply chamber	€ 1,630.58
E140929	PLC	1	Pcs	External control cabinet	€ 6,165.58

Article Number	Description of Part	Qty per Unit	Measure	Position in Unit	Price/pcs ex works
Y14600	Damper	2	Pcs	Fresh air inlet/exhaust air outlet	€ 233.18
2500305	Main switch 4pol 100A TK2	1	Pcs	3Q1	€ 101.37
2500663	Fan with filter	1	Pcs	Control Panel	€ 217.85
2500664	Filter	1	Pcs	Control Panel	€ 68.45
2500650-1	Cabinet thermostat -10..50° C cooling	1	Pcs	3B2	€ 51.87
2501074	RJ45 for din rail	1	Pcs	17X3	€ 42.57
2500829	Power supply 85-264VAC/24VDC 5A 120W	1	Pcs	3T1	€ 126.78
2501222	Controller Carel c.pCO Large	1	Pcs	30A1	€ 1,285.55
2501224	Display Carel 7.0"	1	Pcs	17A1	€ 1,011.57
2500337	Circuit breaker 1pol B6A	3	Pcs	3F1, 3F2	€ 15.97
2500278	Circuit breaker 1pol C4A	1	Pcs	3F4	€ 44.18
2500471	Circuit breaker 3pol C10A	2	Pcs	4F1, 5F1	€ 57.53
2501620	Motor protection switch MS495 - 75A	1	Pcs	12F1	€ 678.30
2501365	Relay 024VDC 2U 08A/250V	3	Pcs	7K1	€ 17.28
2501367	Relay 0230VAC 2U 08A/250V	1	Pcs	12K1	€ 17.28
S044330	Fuse 250V 2,500 A T	1	Pcs	30F1	€ 1.33
STAZ-42-2-1-0-01	Smoke Sensor	1	Pcs	N/A	€ 258.33
STAZ-40-2	Smoke Sensor Controller	1	Pcs	3A1	€ 240.00
10296395	Supply Duct Differential Pressure Sensor 0-2500pa	2	Pcs	9B5	€ 138.02
10296395	Extract Duct Differential Pressure Sensor 0-2500pa	1	Pcs	9B6	€ 138.02

Notes

Freight costs are not included in the above prices and will be advised at the time of order.

All items are sold on an DDU Freight terms, Delivery Duty Unpaid. As such any Import duties, VAT, etc are not included in the above prices and will need to be paid by the purchaser.

Lead times will be available at time of order placement.

Data Hall AHU

Article Number	Description of Part	Qty Per Unit	Measure	Position in Unit	Price/pcs ex works
10121320	Filter Pressure Gauge 0-500pa	4	Pcs	Fresh/return filter chamber	€ 96.58
10205550	Supply/Extract Fan 5kW 380/480V	2	Pcs	Supply/exhaust fan chamber	€ 1,525.45
10263205	Damper Actuator 18NM 24v/24v	3	Pcs	Fresh air inlet/exhaust air outlet	€ 174.93
10286771	Differential Pressure Switch 40-400pa	4	Pcs	Filter chambers	€ 16.78
10288570	Rotary Heat Exchanger	1	Pcs	Rotor chamber	€ 5,263.20
10290538	Humidifier 65kg/hr	1	Pcs	Mounted at return air inlet	€ 3,020.50
10290544	Steam Lance	2	Pcs	Humidifier chamber	€ 272.80
10290549	Steam Hose	10	m	Humidifier chamber	€ 65.18
10290550	Condensate Hose	10	m	Humidifier chamber	€ 10.65
10290551	Drain Hose	1	Pcs	Humidifier chamber	€ 39.40
10291250	Interior LED Light IP54 3W	4	Pcs	Fan and filter chambers	€ 30.50
10293155	G4 Panel Filter 305x305	2	Pcs	Fresh/return filter chamber	€ 12.70
10293156	G4 Panel Filter 610x305	6	Pcs	Fresh/return filter chamber	€ 10.58
10293159	G4 Panel Filter 610x610	4	Pcs	Fresh/return filter chamber	€ 18.00
10295071	Electric Heater 3x400V/50Hz 25kW	1	Pcs	E-heater chamber	€ 3,277.13
10296395	Filter Differential Pressure Sensor -100-2500pa 0-10v/4-20mA IP65 24vAC	2	Pcs	Fan chamber	€ 100.63
10296398	Temperature Sensor 0-10v IP65 24vAC	4	Pcs	Fresh/return air inlet, Supply outlet, Fresh air filter chamber	€ 154.80
1041585	F7 Bag Filter 287/592/534	2	Pcs	Fresh/return filter chamber	€ 25.73

Article Number	Description of Part	Qty Per Unit	Measure	Position in Unit	Price/pcs ex works
1041600	F7 Bag Filter 592/592/534	4	Pcs	Fresh/return filter chamber	€ 45.63
108976	Bottle Trap	1	Pcs	Humidifier chamber	€ 12.75
2102786	F7 Bag Filter 592/287/534	4	Pcs	Fresh/return filter chamber	€ 31.50
2102818	F7 Bag Filter 287/287/534	2	Pcs	Fresh/return filter chamber	€ 18.30
350755	Service switch	2	Pcs	Fan chamber	€ 31.55
632273	Light Switch	1	Pcs	Fresh air inlet chamber	€ 46.98
633090	Airflow Sensor	1	Pcs	E-heater chamber	€ 228.30
E140927	PLC (complete control cabinet)	1	Pcs	External control cabinet	€ 7,137.83
Y14610	Damper 1600mm x 900mm	2	Pcs	Fresh air inlet/exhaust air outlet	€ 264.25
Y14647	Damper 1600mm x 640mm	1	Pcs	Fresh air inlet/exhaust air outlet	€ 1,011.33
2500977	Main Isolator Switch 4pol 180A	1	Pcs	3Q1	€ 199.50
305866	Fan with filter	1	Pcs	Control Cabinet	€ 217.85
2500664	Filter	1	Pcs	Control Cabinet	€ 68.45
2500650-1	Cabinet Thermostat -10..50° C cooling	1	Pcs	3B2	€ 51.87
2501074	RJ45 for din rail	1	Pcs	17X3	€ 42.57
2500829	Power supply 85-264VAC/24VDC 5A 120W	1	Pcs	3T1	€ 126.78
2501223	Controller Carel c.pCO Large	1	Pcs	30A1	€ 1,285.55
2501225	HMI Screen 7.0"	1	Pcs	17A1	€ 1,011.57
10284602	Circuit Breaker 1pol B6A	3	Pcs	3F1, 3F2, 3F6	€ 15.97
2500278	Circuit Breaker 1pol C4A	1	Pcs	3F4	€ 44.18
2500471	Circuit Breaker 3pol C10A	2	Pcs	4F1, 5F1	€ 57.53
2501620	Motor Protection switch MS495 - 75A	1	Pcs	23F1	€ 678.30
2501621	Motor Protection switch MS495 - 90A	1	Pcs	12F1	€ 731.50
2501365	Relay 024VDC 2U 08A/250V	3	Pcs	7K1, 23K1, 23K2	€ 17.28

Article Number	Description of Part	Qty Per Unit	Measure	Position in Unit	Price/pcs ex works
2501367	Relay 0230VAC 2U 08A/250V	1	Pcs	12K1	€ 17.28
S044330	Fuse 250V 2,500 A T	1	Pcs	30F1	€ 1.33
STAZ-42-2-1-0-01	Smoke Sensor	1	Pcs	N/A	€ 258.33
STAZ-40-2	Smoke Sensor Controller	1	Pcs	3A1	€ 240.00
E146794	Humidifier Disposable Cylinder	1	Pcs	-	€305.43

Notes

Freight costs are not included in the above prices and will be advised at the time of order.

All items are sold on an DDU Freight terms, Delivery Duty Unpaid. As such any Import duties, VAT, etc are not included in the above prices and will need to be paid by the purchaser.

Lead times will be available at time of order placement.

6) Contacts

FläktGroup

Project Manager – Karl Nursey
+44 7866 041208
karl.nursey@flaktgroup.com

Commissioning & Controls Manager – Daniel Young
+44 7702 719565
daniel.young@flaktgroup.com

FläktGroup Sweden Service Team Contact – Anders Collberg
+46 862 64972
anders.collberg@flaktgroup.com

Contract queries to be raised with Project Manager.

Digiplex

Site Address:
Digiplex Holtskogen AS
Holtskogen 31
1825 Tomter
Norway

Invoice Address:
c/o DigiPlex Norway AS
Ulvenveien 82E
0581 OSLO
Norway

Primary Site Contact:
TBC
TBC
TBC
phone TBC

Secondary Site Contact:
Site manager
Geir Vistung
gvistung@digiplex.com
phone +47 901 20 403

Operations Manager - Pal Viken
+47 916 23897
pviken@digiplex.com

Invoicing:
invoice.DHAS@digiplex.com

Contract queries to be made to Site Manager & Operations Manager.

Ateam Inneklimaservice AS

Address:
Tvetenveien 164
0671 OSLO

Contacts:
Bjornar Strandos
Oyvind Marem
+47 23 12 67 00

7) Possible Additions to the Agreement


The Planned Service Agreement excludes Response Support. To date we have not had any direct discussions or agreement regarding response times and response support (call out) for these sites.

FlaktGroup have partnered up with Ateam Inneklimaservice AS to provide support for the IEC's and AHU's. This is something that can be arranged and provided.


8) Signatures of Acceptance

The named persons below are acknowledging and accepting this Agreement.

For and on behalf of Digiplex Holtskogen AS:

Name:	Pal Rune Viken
Position:	Operations Manager
Signature:	
Date:	

For and on behalf of FläktGroup:

Name:	Yan Evans
Position:	Global Director Data Centre Solutions
Signature:	
Date:	14/01/2021

9) Appendices

DHAS Building C IEC Unit Serial Numbers List
DHAS Building C AHU Serial Numbers List

Digiplex Maintenance Schedule for IEC's
Digiplex Maintenance Schedule for AHU's

Incident Report Template

Maintenance Visit Report – Template to follow

DHAS Building C IEC Unit Serial Numbers

New Unit Name	Serial Number	New Unit Name	Serial Number
C1/DH1/IEC1	650196.0220	C1/DH2/IEC1	650196.0010
C1/DH1/IEC2	650196.0190	C1/DH2/IEC2	650196.0020
C1/DH1/IEC3	650196.0180	C1/DH2/IEC3	650196.0030
C1/DH1/IEC4	650196.0170	C1/DH2/IEC4	650196.0060
C1/DH1/IEC5	650196.0200	C1/DH2/IEC5	650196.0070
C1/DH1/IEC6	650196.0210	C1/DH2/IEC6	650196.0080
C1/DH1/IEC7	650195.0240	C1/DH2/IEC7	650196.0050
C1/DH1/IEC8	650196.0230	C1/DH2/IEC8	650196.0040

New Unit Name	Serial Number	New Unit Name	Serial Number
C2/DH3/IEC1	650196.0110	C2/DH4/IEC1	650196.3200
C2/DH3/IEC2	650196.0140	C2/DH4/IEC2	650193.0310
C2/DH3/IEC3	650196.0150	C2/DH4/IEC3	650196.0300
C2/DH3/IEC4	650196.0160	C2/DH4/IEC4	650196.0270
C2/DH3/IEC5	650195.0130	C2/DH4/IEC5	650196.0260
C2/DH3/IEC6	650196.0120	C2/DH4/IEC6	650196.0250
C2/DH3/IEC7	650196.0090	C2/DH4/IEC7	650196.0280
C2/DH3/IEC8	650196.0100	C2/DH4/IEC8	650196.0290

DHAS Building C AHU Serial Numbers

Unit Reference	Unit Serial No.
Data Hall 1&2 AHU	651987.0010
Data Hall 1&2 AHU	651987.0015
Support Area AHU	651987.0020


Digiplex Maintenance Schedule – IEC's

Digiplex - IEC Unit - Maintenance Task List & Schedule									
Task ID	Task Type	Check(s)/Action(s)	Daily	Monthly	Each Visit	Major Visit Only (Yearly)	Based on Area (Usually Yearly)	Season Change (Twice Yearly)	Every 2 Years
1. Monitoring & Reporting									
1.1	Alarms	Check alarms and notify FläktGroup point of contact using the Callout form.	DP						
2. Drain Traps									
2.1	Inspection	Check, clean and refill traps if required to ensure their operation.		DP					
3. Overall Unit									
3.1	Inspection	Check the unit for visible damage.			FG				
3.2	Inspection	Check the doors/hatches for damaged or worn gaskets/seals.			FG				
3.3	Inspection	Check for the correct operation of the door stop devices (On the pressure side).			FG				
3.4	Inspection	Check the unit for corrosion.			FG				
3.5	Inspection	Check the Alarm, Event & Maintenance logs from the IEC Unit Controller.			FG				
3.6	Cleaning	Clean (Hoover/Wipe) the unit casing to remove any build up of dust or dirt.				FG			
4. Fans									
4.1	Inspection	Check the fans for debris.			FG				
4.2	Inspection	Check the fans for damage.			FG				
4.3	Inspection	Check the fans for corrosion.			FG				
4.4	Operation	Check the fans for noise or vibration.			FG				
4.5	Cleaning	Clean (Hoover/Wipe) the fans and the fan chamber to remove any build up of dust or dirt.				FG			
4.6	Calibration	Check the Calibration of the Pressure Sensors.				FG			
5. Filters									
5.1	Inspection	Check the filters for debris.			FG				
5.2	Inspection	Check the filters for damage.			FG				
5.3	Inspection	Check the filters for corrosion.			FG				
5.4	Operation	Check the filter pressure drop readings against their design values.			FG				
5.5	Cleaning	Clean (Hoover/Wipe) the filter chamber to remove any build up of dust or dirt.				FG			
5.6	Calibration	Check the Calibration of the Pressure Sensors.				FG			
5.7	Replacement	Replace filters based on either their condition/pressure drop or usually yearly.					FG		
6. Exchangers (Coils & Plates)									
6.1	Inspection	Check the coils/plates and drain trays for debris.			FG				
6.2	Inspection	Check the coils/plates and drain trays for damage.			FG				
6.3	Inspection	Check the coils/plates and drain trays for corrosion.			FG				
6.4	Inspection	Check the coils for any sign of leaks.			FG				
6.5	Cleaning	Clean (Hoover/Wipe) any droplet eliminators, finned faces, drain trays, etc. to remove any build up of dust or dirt.				FG			
7. Dampers									
7.1	Operation	Visually check each damper moves from end to end.			FG				
7.2	Cleaning	Clean (Hoover/Wipe) the damper blades to remove any build up of dust or dirt.				FG			
8. Adiabatic Water System									
8.1	Inspection	Check the entire water system for any visible scaling, slurry, etc.			FG				
8.2	Inspection	Check the strainer and clean if required.			FG				
8.3	Inspection	Check the water level sensor rod is tight and clean if required.			FG				
8.4	Inspection	Check the spray nozzles give an even cone and clean if required.			FG				
8.5	Inspection	Check the manual drain valve operates freely.				FG			
8.6	Calibration	Check the Calibration of the Water Level & Water Temperature Sensors.				FG			
8.7	Drain & Fill	Drain down the water towards the start of winter and re-enable after winter.						DP	
8.8	Replacement	Check & if required replace the Adiabatic Pump Seal.							DP
8.9	Replacement	Check & if required replace the Adiabatic Drain Pump Seal.							DP
9. Controls & Control Panel									
9.1	Inspection	Check the Overloads settings are correct.			FG				
9.2	Inspection	Check the Main Controller for any Battery Warning Messages.			FG				
9.3	Inspection	Connect to the UPS with a Laptop and check the Battery Condition.			FG				
9.4	Operation	Run the unit at a fixed speed and check the fan current readings.			FG				
9.5	Cleaning	Clean (Hoover/Wipe) the control panel to remove any build up of dust or dirt.				FG			
9.6	Calibration	Check the Calibration of the Temperature & Humidity Sensors.				FG			

Digiplex Maintenance Schedule – AHU's

DigiPlex - AHU - Maintenance Task List & Schedule							
Task ID	Task Type	Check(s)/Action(s)	Daily	Every 2 Weeks	Monthly	Each Visit	Major Visit Only (Yearly)
1. Monitoring & Reporting							
1.1	Alarms	Check alarms and notify FläktGroup point of contact using the Callout form.	DP				
2. Drain Traps							
2.1	Inspection	Check, clean and refill traps if required to ensure their operation.			DP		
3. Overall Unit							
3.1	Inspection	Check the unit for visible damage.				FG	
3.2	Inspection	Check the doors/hatches for damaged or worn gaskets/seals.				FG	
3.3	Inspection	Check the unit for corrosion.				FG	
3.4	Inspection	Check the Alarm logs from the AHU Unit Controller.				FG	
3.5	Cleaning	Clean (Hoover/Wipe) the unit casing to remove any build up of dust or dirt.					FG
4. Fans							
4.1	Inspection	Check the fans for debris.				FG	
4.2	Inspection	Check the fans for damage.				FG	
4.3	Inspection	Check the fans for corrosion.				FG	
4.4	Operation	Check the fans for noise or vibration.				FG	
4.5	Cleaning	Clean (Hoover/Wipe) the fans and the fan chamber to remove any build up of dust or dirt.					FG
4.6	Calibration	Check the Calibration of the Pressure Sensors.					FG
5. Filters							
5.1	Inspection	Check the filters for debris.				FG	
5.2	Inspection	Check the filters for damage.				FG	
5.3	Inspection	Check the filters for corrosion.				FG	
5.4	Operation	Check the filter pressure drop readings against their design values.				FG	
5.5	Cleaning	Clean (Hoover/Wipe) the filter chamber to remove any build up of dust or dirt.					FG
5.6	Calibration	Check the Calibration of the Pressure Sensors.					FG
5.7	Replacement	Replace filters based on either their condition/pressure drop or usually yearly.					FG
6. Exchangers (Coils)							
6.1	Inspection	Check the coils and drain trays for debris.				FG	
6.2	Inspection	Check the coils and drain trays for damage.				FG	
6.3	Inspection	Check the coils and drain trays for corrosion.				FG	
6.4	Cleaning	Clean (Hoover/Wipe) any droplet eliminators, finned fans, drain trays, etc. to remove any build up of dust or dirt.					FG
7. Dampers							
7.1	Operation	Visually check each damper moves from end to end.				FG	
7.2	Cleaning	Clean (Hoover/Wipe) the damper blades to remove any build up of dust or dirt.					FG
8. Thermal Recovery Wheel							
8.1	Inspection	Check the Thermal Wheel rotates freely without rubbing.				FG	
8.2	Inspection	Check the Thermal Wheel belt is in good condition.				FG	
8.3	Inspection	Check the Thermal Wheel seals are in good condition.				FG	
8.4	Cleaning	Clean (Hoover/Wipe) the Thermal Wheel to remove any build up of dust or dirt.					FG
9. Controls & Control Panel							
9.1	Inspection	Check the Overloads settings are correct.				FG	
9.2	Operation	Run the unit at a fixed speed and check the fan current readings.				FG	
9.3	Cleaning	Clean (Hoover/Wipe) the control panel to remove any build up of dust or dirt.					FG
9.4	Calibration	Check the Calibration of the Temperature & Humidity Sensors.					FG
10. Electric Heating Coils							
10.1	Inspection	Check the coils for debris.				FG	
10.2	Inspection	Check the coils for damage.				FG	
10.3	Inspection	Check the coils for corrosion.				FG	
10.4	Cleaning	Clean (Hoover/Wipe) the elements, diffusion plates, etc. to remove any build up of dust or dirt.					FG
10.5	Calibration	Check the Calibration of the Air Velocity Sensors activation point.					FG
11. Humidifier							
11.1	Inspection	Check the Humidifier & Pipework for any leaks.		DP		FG	
11.2	Inspection	Check there are no arcs or sparks between the electrodes.		DP		FG	
11.3	Cleaning	Check and if applicable clean the Cylinder.				FG	
11.4	Replacement	If disposable Cylinders then replace.					FG

Incident Report Template

	
DigiPlex Callout Form	
Project Information	
Project/Site Name: <input type="text" value="DFAS-2 Building 2"/>	Project/Site Address: <input type="text" value="Heisvein 9, Fetsund, 1900"/>
Equipment Information	
Unit Name/Reference: <input type="text"/>	Unit Serial Number: <input type="text"/>
Incident Information	
Date Found: <input type="text" value="23 October 2020"/>	Found By: <input type="text"/>
Date Reported: <input type="text"/>	Reported By: <input type="text"/>
Contact Name: <input type="text"/>	Contact Number: <input type="text"/>
Priority	
Low (1 Week)	<input type="checkbox"/>
Medium (2-3 Days)	<input type="checkbox"/>
High (Within 24 Hours)	<input type="checkbox"/>
URGENT (Within 4 Hours)	<input type="checkbox"/>
Description	
<div style="border: 1px solid black; height: 100px;"></div>	
Specific Information	
<div style="border: 1px solid black; height: 100px;"></div>	
Cause (If Known)	
<div style="border: 1px solid black; height: 100px;"></div>	

Maintenance Visit Report

To follow

EXCEL