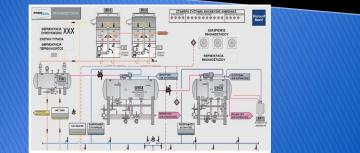


# Cloud-based SCADA system + Temperature control system





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Adsorber 1 Twes Wolkerkus Envitruppiy EVEA	Adsorber 2 Stephan Come -+ Wolkarius Envitoroppiy EVBA	Advoter 2 Burger (page -	Scubber 1 Nedcerl prove	Scrubber 2 Nedcref Drave -+	Scubber 3 Reduced Score -+	er hour age
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A051 Van Bessem	ADS3 Van Resson	AD53 Van Bessen (craze) -*	Adsorber Dessert (craw -	Scubler Heepeld	Adverter Gebel	Arpressure Scutter Krippe an hour age
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# Our offer:

- 1. A cloud based (service) platform to be in contact with the cooling installation(s) of your connected clients
- 2. An advanced SCADA portal for your (existing) cooling installation(s) for a complete range of modern functions
- 3. Reasonable priced





# How does it work



- Together with your engineers we design a cloud-based portal for your installation(s).
- In the control panel of the cooling installation we install a router which is in contact with your cooling program and communicates with the cloud-based platform.
- You will remain in charge on which data will be displayed and which settings can be made by customers.
- 4. The system is set on line. Data will be saved, and all the functions are available.
- A service platform will be created for your connected installation(s).

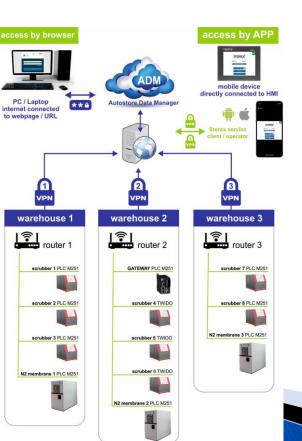


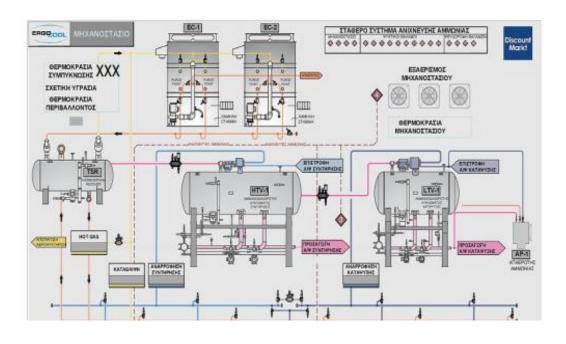




# **Cloud** based platform

- Cloud based platform with advanced SCADA system for your temperature control system
- Graphic will be tailor made as option

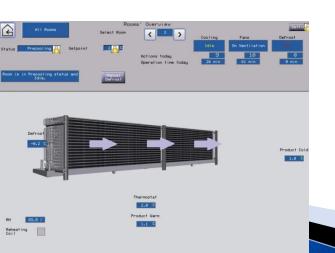


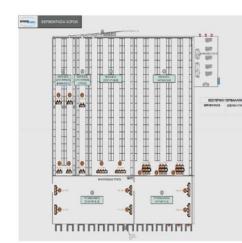


#### STOREX CONTROLLED ATMOSPHERE

### Advantages of Storex Cloud based SCADA system

- No need for a PC
- All your connected systems present in one network
- Everywhere accessible on PC, Laptop, Mobile devices with internet access
- Advanced security system and VPN
- Automatic back-ups integrated in the system.
- Safe and easy exchange of data with third parties, using API
- The implementation of AI models for analysis of these data





# Easy access to all connected cooling systems



In your central portal you easily select and visit all your connected cooling installations

DATA MANAGER CONTROLLED ATMOSPHERE		은 A Profile Log of A	Peter dministrator						
DASHBOARD	TEMPLATES DESIGNER	DEVICES PARAMETERS							
panies New company New user									
Company	þStorex bv		~						
Users Adm-en	Glass Brothers Glass Brothers/ST500		^						
Eleni Ibrahim Culcu	Goeree Golturo	Golturo							
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Kristof	Graham Hewitt Grob Gemuese Grundler GmbH								
Lieuwe Lieuwe Bakker	Grundler Gribbe	Address	•						
Remco		Mail notifications for alarms	On						
Service Center		Mail recipients for alarms pieter.meiresone@gmail.com pieter.meiresone@	vub.ac.be						
Wilfried		SMS notifications for alarms	Off						
Dealer Client relatio	nships	SMS recipients for alarms +3247	8373377						
Company Board Ove	erview	ApiKey         549WTfHSMZ-qPbONsbBxUoW2tlzOgxo6pIQA	24NvOic-						
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### Service platform

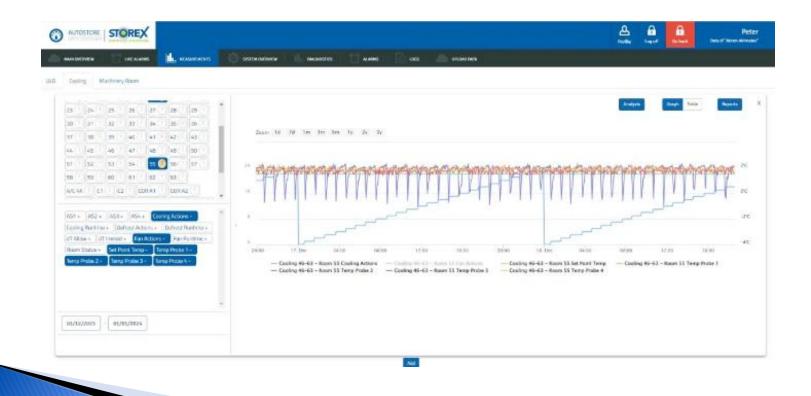
- Your own tailor-made cloud-based service center.
- Clear overview of information and alarms of all connected installations

AUTOSTORE DATA MANAGER					Profile Log off Go back	Data of "Service Center"
SERVICE CENTER PLOG OVERVIEW	USERS					
Notifications O2 Reduction						Recent activated alarms
Haecker Online	Adsorber Uijttewaal	Adsorber Feijtel Online	Adsorber 1 Thiermann	Adsorber 2 Thiermann	Adsorber 1 Niederthanner	Check Airfilter Scrubber Spithoven an hour ago
Status	Status	Status	Status	Status	Status	
				A <b></b> A <b>-</b> A <b>-</b>		Room 02-CO2
Last seen moments ago	Last seen moments ago ->	Last seen moments ago ->	Last seen moments ago	Last seen moments ago	Last seen moments ago	an hour ago
Adsorber 1 Yves Online	Adsorber 2 Stephan Online	Adsorber 2 Burger Online	Scrubber 1 Nedcool Online	Scrubber 2 Nedcool Online	Scrubber 3 Nedcool Online	
Fruitsupply BVBA	Fruitsupply BVBA					Correction facto
Status	Status	Status	Status	Status	Status	out of range Adsorber Sartorius
						an hour ago
Last seen moments ago ->	Last seen moments ago ->	Last seen moments ago ->	Last seen moments ago	Last seen moments ago	Last seen moments ago	
ADS1 Van Rossum Online	ADS2 Van Rossum Online	ADS3 Van Rossum Online •	Adsorber Bossaert Online	Scrubber Hoogveld Online	Adsorber Geibel Online	Airpressure Scrubber Knippers an hour ago
Status	Status	Status	Status	Status	Status	
						Adsorber stoppe Scrubber Knippers
Last seen moments ago ->	Last seen moments ago	Last seen moments ago	Last seen moments ago	Last seen moments ago	Last seen moments ago	an hour ago
Adsorber Birkenhof Online	Scrubber 1 Van Riel Online	Adsorber Sartorius Online •	Adsorber 1 Louisse Online	Scrubber Kardux Online	Scrubber Knippers Online	Room O2-CO2 Adsorber Feijtel
Status	Status	Status	Status	Status	Status	2 hours ago
Last seen moments ago ->	Last seen moments ago 🔹	Last seen moments ago ->	Last seen moments ago ->	Last seen moments ago ->	Last seen moments ago ->	Pressure in Adsorber



# Clear graphs of all data

- Real time monitoring of relevant data and data storage
- Advance graph program to select and present historical data



### Data and settings



#### Complete overview of data and (changeable) settings

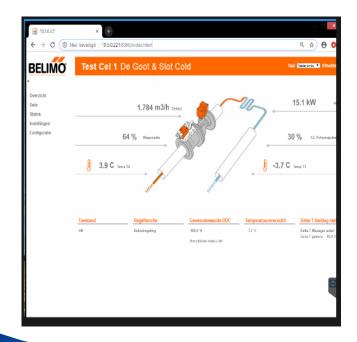
#### **Cooling Rooms**

Room	KAT1.1 🖍	KAT1.2 🖍	KAT1.3 🖍	КРЕЗ.1	KPE3.2	MAN4.1 🖍	MAN4.2 🖍	MAN4.3 💉	MAN4.4 🖋	PR05.1 💉	PR05.2	PR06.1 🖍	PR06.2 🖍	PR06.3	PR06.4	SYN2.1 🖍	SYN2.2 🖍
Roomstatus	Precooling	Precooling	Precooling	Off	Off	Precooling	Precooling	Precooling	Precooling	Precooling	Precooling	Precooling	Precooling	Precooling	Precooling	Precooling	Precooling
Temp. Setpoint	-20.5 °C	-21.4 °C	-20.5 °C	10.0 °C	10.0 °C	4.0 °C	4.0 °C	2.0 °C	2.0 °C	-5.0 °C	-5.0 °C	4.0 °C	4.0 °C	4.0 °C	7.0 °C	3.9 °C	3.8 °C
dT Start allowed	1.5 °C	1.5 °C	1.5 °C	0.5 °C	0.5 °C	1.5 °C	1.5 °C	1.5 °C	1.5 °C	2.0 °C	2.0 °C	2.0 °C	2.0 °C	2.0 °C	2.0 °C	1.5 °C	1.5 °C
dT Start immediately	2.5 °C	2.5 °C	2.5 °C	1.0 °C	1.0 °C	2.5 °C	2.5 °C	2.5 °C	2.5 °C	3.0 °C	3.0 °C	3.0 °C	3.0 °C	3.0 °C	3.0 °C	2.5 °C	2.5 °C
Thermostat	-19.7 °C	-21.7 °C	-20.3 °C	11.2 °C	10.4 °C	4.7 °C	4.6 °C	3.1 °C	3.0 °C	-4.5 °C	-4.2 °C	3.9 °C	3.7 °C	4.6 °C	8.8 °C	4.8 °C	4.7 °C
Defrost	-30.1 °C	-29.0 °C	-29.2 °C	10.5 °C	10.4 °C	-5.0 °C	-5.6 °C	-6.6 °C	-6.5 °C	-9.9 °C	-9.0 °C	2.3 °C	1.3 °C	-6.5 °C	-8.8 °C	2.5 °C	0.2 °C
Product 1	-21.2 °C	-21.2 °C	-21.2 °C	10.5 °C	10.4 °C	4.5 °C	4.5 °C	3.3 °C	3.3 °C	-4.4 °C	-4.4 °C	5.6 °C	5.6 °C	5.6 °C	5.6 °C	5.7 °C	5.7 °C
Product 2	-21.3 °C	-21.3 °C	-21.3 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	5.7 °C	5.7 °C
Product 3	-3.6 °C	-2.6 °C	-16.7 °C	10.6 °C	10.4 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	-3.1 °C	-3.3 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C	0.0 °C
Actual Cooling Status	Room is in Precooling status and runs normally.	Room is in precooling status and idle	Room is in Precooling status and runs normally.	This room is off	This room is off	Room is in Precooling status and runs normally.	Room is in precooling status and idle	Room is in Precooling status and runs due to high temperature.	Room is in Precooling status and runs normally.	Room is in precooling status and idle	Room is in precooling status and idle						
Alarm Status	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm
Cooling valve status	Cooling	Idle	Cooling	Off	Off	Cooling	Cooling	Cooling	Cooling	ldle	Idle	Idle	Idle	Cooling	Cooling	Idle	Idle
Fan Status	On Cooling	Idle	On Cooling	Off	Off	On Cooling	On Cooling	On Cooling	On Cooling	Idle	Idle	Idle	Idle	On Cooling	On Cooling	Idle	Idle
Defrost Status	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Cooling Actions	20:	7:	11:	0:	0:	12 :	7:	6:	8:	12 :	11:	1:	1:	8:	12:	6:	5:
Cooling runtime	241 m	209 m	157 m	0 m	0 m	98 m	44 m	83 m	256 m	82 m	60 m	18 m	0 m	254 m	45 m	34 m	43 m
e		-		~	~		-	-	-					-		-	-



### Connect with p.e. Mycom compressor or Danfoss thermostat

Reading ( changeable ) settings and information







# Easy access to various

 Access to switch to multiple cooling systems via portal of the client

#### Select one of the present locations and connect

												-
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ı.		MEMBRANE	LIVE ALARMS	SYSTEM OVERVIEW	DIAGNOSTICS ALARMS		SS UPLOAD DATA					
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	Adsorber 1											
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	Room Status		Act	tive	Active		Empty	1	impty		Active	
	Product		Del	licious	Delicious		Delicious		Other		Gala	
	O2 Target		1.8	3%	1.8 %		21.0 %		.8 %		1.8 %	
	O2 Measured		3.7	1 %	4.5 %		•				7.4 %	
	CO2 Target		1.0	)%	1.5 %		2.0 %		1.5 %		1.0 %	
	CO2 Measured		1.1	%	1.7 %		*	-			1.1 %	
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	Adsorber 2											
	Room			545	<b>≠</b> 546	1	547	548		1549	)	1
	Room Status			Empty	Active		Empty	Active		Act	ive	
	Product			Gala	Other		Gala	Gala		Gal	a	
	O2 Target			1.8 %	1.8 %		21.0 %	2.0 %		1.8	%	
	O2 Measured			*	4.2 %		•	2.0 %		3.7	%	
	CO2 Target			1.5 %	1.0 %		1.5 %	1.0 %		1.0	%	
	CO2 Measured			×	1.0 %		•	1.0 %		1.0	%	
	Status N2 Injection			Off	Off		Off	Off		Off		
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	Runtime Aeration			0 s	0 s		0 s	5 s		0 s		
	D N			515 ·····								

### Daily reports, alarms by Email/SMS



- Sending daily reports on relevant information (free programmable)
- Handy program for sending selected alarms by e-mail / sms

Alarm by SMS	Chilas Bay sportput adults to share better DC	Daily	repor	t			100
Alarm by SMS	Start Genedictappen Creasi Day report					0	Aste
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# Your benefits in short :

- SCADA platform which is easy to connect with existing cooling systems and plc's through Modbus
- Maximum flexibility to safeguard multiple locations with any mobile device
- Modern SCADA portal for your clients
- Cloud-based, so ready for AI models
- Safe and easy exchange of data with third parties , using API
- Your own tailor-made cloud-based service center , using open-source software





### **Temperature Control system**







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	Ŀ		Rooms '	'Settings	
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### Main components

- A powerful software program for accurate temperature measurement & control + PLC and communication cards
- Can modules + PT1000 temperature sensors
- Remote control via App and SCADA platform
- PLC, Touchscreen + router build-in control box of cooling system
- Optional relative humidity RH sensors with high accuracy in the range 90-100%
- With pressure sensor the effect of cooling actions can be followed





### Functions (settings) of the cooling equipment

Function	Remark
Temperature	<ul> <li>Setting room temperature per 0.1 degree in range -10 to +40 °C</li> <li>Differential setting between a minimum of 0.2 and 3.0 Kelvin/Celsius</li> <li>May / should and relay scheme in cooling</li> <li>Possibility to group rooms in cooling</li> <li>Setting of number of rooms that are allowed to cool simultaneously of the cooling unit</li> </ul>
Air circulation	<ul> <li>Adjustable per room</li> <li>Automatic circulation</li> <li>Continuous circulation</li> <li>Adjustable circulation time after cooling action</li> <li>Interval circulation (between cooling actions) with adjustable time for circulation and pause/time out</li> <li>Link circulation to specific control (including absorption scrubber) through potential free contact</li> </ul>
Defrost	<ul> <li>Adjustable per room</li> <li>Type defrost adjustable per cooler (hot glycol or air)</li> <li>Defrosting frequency adjustable based on interval time (fixed absolute time or linked to cooling hours)</li> <li>Adjustable specific defrost times</li> <li>Termination of defrosting both on temperature (block sensor) and time (maximum time)</li> <li>Adjustable dripping times</li> <li>Adjustable freezing times (after defrost)</li> <li>Defrosting the allowable number of cells simultaneously</li> </ul>



# **Data and Setting**

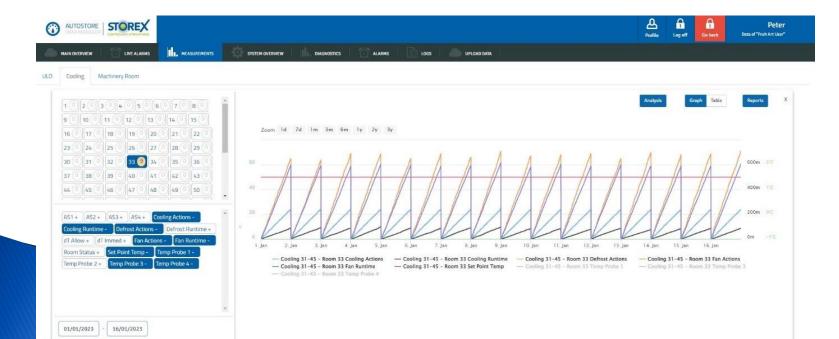
#### Complete overview

Cooling 31	-45																	
Room	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	COR B1	COR B2	COR B3
Roomstatus	Off	Precooling	Precooling	Precooling	Precooling	Off	Off	Off	Off	Precooling	Precooling	Off	Off	Off	Off	Off	Off	Off
Temp. Setpoint	5.0 °C	4.9 °C	4.9 °C	4.9 °C	4.9 °C	5.0 °C	5.0 °C	5.0 °C	1.5 °C	20.0 °C	5.0 °C	1.0 °C	1.0 °C	1.5 °C	1.0 °C	15.0 °C	15.0 °C	15.0 °C
dT Start allowed	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C	0.5 °C
dT Start immediately	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C	1.0 °C
Thermostat	16.2 °C	5.3 °C	5.0 °C	5.4 °C	4.8 °C	15.7 °C	17.6 °C	16.4 °C	18.4 °C	18.4 °C	4.7 °C	16.6 °C	18.0 °C	17.7 °C	18.1 °C	16.0 °C	16.6 °C	17.8 °C
Defrost	16.6 °C	4.8 °C	3.3 °C	4.9 °C	3.5 °C	16.7 °C	18.3 °C	16.9 °C	18.4 °C	17.6 °C	4.1 °C	17.2 °C	18.6 °C	18.4 °C	18.7 °C	15.8 °C	16.2 °C	17.6 °C
Product 1	13.8 °C	5.6 °C	4.8 °C	6.5 °C	4.5 °C	14.9 °C	14.9 °C	16.4 °C	17.5 °C	19.4 °C	4.9 °C	16.4 °C	16.9 °C	16.5 °C	16.8 °C	16.0 °C	16.6 °C	17.8 °C
Product 2	14.4 °C	4.4 °C	5.2 °C	4.7 °C	5.6 °C	14.8 °C	14.7 °C	15.7 °C	16.6 °C	18.4 °C	4.8 °C	16.1 °C	17.0 °C	16.6 °C	17.4 °C	16.0 °C	16.6 °C	17.8 °C
Actual Cooling Status	This room is off	Room is in precooling status and idle	This room is off	This room is off	This room is off	This room is off	Alarm	Room is in precooling status and idle	This room is off	This roo is off								
Alarm Status	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	Room Temperature Too Low	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarm	No Alarn
Cooling valve status	Off	Idle	Idle	Idle	Idle	Off	Off	Off	Off	Idle	Idle	Off	Off	Off	Off	Off	Off	Off
Fan Status	Off	Idle	ldle	Idle	On Ventilation	Off	Off	Off	Off	Idle	Idle	Off	Off	Off	Off	Off	Off	Off
Defrost Status	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Cooling Actions	0:	24 :	32 :	34 :	31:	0:	0:	0:	0:	3:	15 :	0:	0:	0:	0:	0:	0:	0:
Cooling runtime	0 m	50 m	56 m	34 m	60 m	0 m	0 m	0 m	0 m	3 m	15 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m
Fan actions	0:	94 :	135 :	115:	105 :	0:	0:	0:	0:	35 :	76 :	0:	0:	0:	0:	0:	0:	0:
Fan runtime	0 m	314 m	322 m	247 m	327 m	0 m	0 m	0 m	<mark>0 m</mark>	241 m	183 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m
Defrost actions	0:	0:	0:	0:	0:	0:	0:	0:	0:	0:	0:	0:	0:	0:	0:	0:	0:	0:
Defrost runtime	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m
Cooling actions yesterday	0:	37 :	47 :	45 :	60 :	0:	0:	0:	0:	1:	21:	0:	0:	0:	0:	0:	0:	0:
Cooling runtime yesterday	0 m	85 m	76 m	45 m	125 m	0 m	0 m	0 m	0 m	1 m	22 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m
Fan actions yesterday	0:	137 :	163 :	145 :	143 :	0:	0:	0:	0:	21:	99 :	0:	0:	0:	0:	0:	0:	0:



### Available data and settings

- Target temperature setpoint and readings of temperature sensors
- Cooling time, cooling actions, both from actual date as total of previous day
- Ventilation time, ventilations actions, both from actual date as total of previous day
- > Defrost actions, defrost time, both from actual date as total of previous day
- Alarms, daily reports
- All data easy accessible via App and ADM on one platfrom





### Storex App

ØM

10 h

Def 8

22 h

0 m

#### • The App is a copy of the present touchscreen

Vijeo-Designer Runtime 6.1.2.348	Kijeo-Designer Runtime 6.1.2.348         Rooms' Settings         ABC       11         2       12         3       13         4       14         5       15         GHI       16         7       17         8       18         9       19         10       20	Vijeo-Designer Runtime 6.1.2.348       Image: 2/4         Rooms' Settings       Page: 2/4         Select Room       Image: 2/4         Room Status       Image: 2/4         Image: 2/4       Image: 2/4         Room Status       Image: 2/4         Room Status       Image: 2/4         Room Status       Image: 2/4         Image: 2/4       Image: 2/4         Image: 2/4       Image: 2/4         Image: 2/4       Image: 2/4
Vijeo-Designer Runtime 6.1.2.348	Vijeo-Designer Runtime 6.1.2.348	Rooms' Overview Safect floor Safect floor Safect floor Colling Fane Defrost Safect floor Colling Fane Defrost Safect floor Safect floor Safect floor Colling Fane Defrost Safect floor Safect floor Saf
Defrost TypeElectricTemp. No Defrost5.0 CTime drain 110 secTemp. Stop Defrost10.0 CTime drain 210 secTime Prevent.20 secTime freeze10 secTime Min. Defrost30 minTime Max. Defrost80 minDefrost based onReal TimeDef 110mDef 240mDef 370m	Time Afterventilation 30 sec Ventilation when Idle Yes Ventilation Time OFF 15 min Ventilation Time On 5 min Can be Forced cooling Yes Temp Setpoint Reduction 1.0 C (0 - 2 C)	Derror tor Derror tor Derror tat Derror



# Your benefits in short :

- Complete temperature control system
- Complete range of functions on board
- Modern Cloud based SCADA portal
- Remote control via App
- Accessories easy to integrate; Gas analysers, RH, pressure
- Open-source software, easy to adapt
- Reasonable priced





## Feel free to contact us

Telephone: +31 (0)78 6733648 Email: info@storex.nl

Beneden Havendijk 89 3295 XB 's Gravendeel The Netherlands

