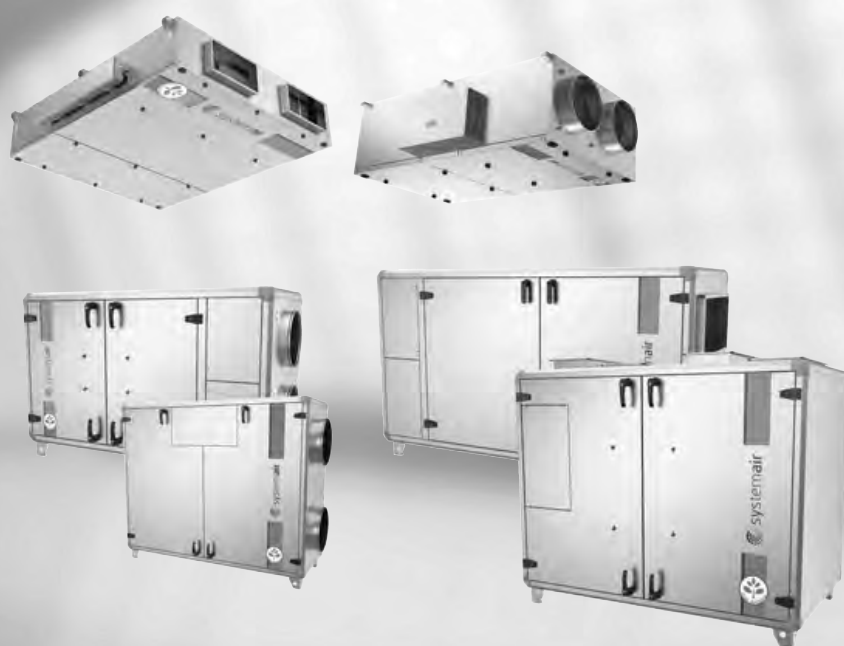


# Compact air handling units Topvex SX/C, TX/C, SC, FC, SR, TR, FR

Commissioning Record

EN

Document in original language | 20951 · A009



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# 1 Commissioning record

Company:		
Responsible:		
Customer:	Date:	Installation:
Object/Unit:	Item no.:	Installation address:
Model/Size:	Serial no.:	
Access Software version:	Operator password: 1111	Service password: 0612
	Operator password changed:	Service password changed:
Time and date set: <input type="checkbox"/>	Weekly program set: <input type="checkbox"/>	External connections (sensors, dampers, external alarm etc.) performed: <input type="checkbox"/>

## 2 Function settings

### 2.1 Airflow

Function	Default setting	Set value
<b>Airflow</b>		
Fan levels	<input checked="" type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input checked="" type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High
Fan control type	<input checked="" type="checkbox"/> Flow (CAV) <input type="checkbox"/> Pressure (VAV)	<input type="checkbox"/> Flow (CAV) <input type="checkbox"/> Pressure (VAV)
<b>Manual air control</b>		
		Supply airflow at low speed _____ % Extract airflow at low speed _____ % Supply airflow at normal speed _____ % Extract airflow at normal speed _____ % Supply airflow at high speed _____ % Extract airflow at high speed _____ %
<b>CAV airflow</b>	<input checked="" type="checkbox"/> m <sup>3</sup> /h <input type="checkbox"/> l/s <input type="checkbox"/> m <sup>3</sup> /s <input type="checkbox"/> CFM	<input type="checkbox"/> m <sup>3</sup> /h <input type="checkbox"/> l/s <input type="checkbox"/> m <sup>3</sup> /s <input type="checkbox"/> CFM
		Supply airflow at low speed _____ Extract airflow at low speed _____ Supply airflow at normal speed _____ Extract airflow at normal speed _____ Supply airflow at high speed _____ Extract airflow at high speed _____
<b>VAV airflow</b>	<input checked="" type="checkbox"/> Pa <input type="checkbox"/> in.wg (×100)	<input type="checkbox"/> Pa <input type="checkbox"/> in.wg (×100)
		Supply airflow at low speed _____ Extract airflow at low speed _____ Supply airflow at normal speed _____ Extract airflow at normal speed _____ Supply airflow at high speed _____ Extract airflow at high speed _____

## 2.2 Temperature

Function	Default setting	Set value
<b>Temperature</b>	<input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	<input type="checkbox"/> °C <input type="checkbox"/> °F
Temperature control type and set point	<input type="checkbox"/> Supply 18 ° <input checked="" type="checkbox"/> Extract 22 ° <input type="checkbox"/> Room 22 °	<input type="checkbox"/> Supply _____ ° <input type="checkbox"/> Extract _____ ° <input type="checkbox"/> Room _____ °
If outdoor comp. temp. control		
Outdoor temp/setpoint Curve point 1, 2, 3, 4:	-20 / 25 ° -10 / 23 ° 0 / 22 ° 10 / 18 °	____ ° ____ ° ____ ° ____ °
If cascade control:		
Min supply air temp. limit Max supply air temp. limit Outdoor temperature dependent switching between cascade and supply air control	14 ° 30 ° 13 °	____ ° ____ ° ____ °
<b>Cooling recovery</b>		
Mode	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off	<input type="checkbox"/> On <input type="checkbox"/> Off
Start at temp. difference	2 °	____ °
<b>Cooling</b>		
Type of cooler	<input type="checkbox"/> Water <input type="checkbox"/> DX	<input type="checkbox"/> Water <input type="checkbox"/> DX
If water cooler		
Type of feedback, pump	<input type="checkbox"/> None <input checked="" type="checkbox"/> Alarm <input type="checkbox"/> Run indication	<input type="checkbox"/> None <input type="checkbox"/> Alarm <input type="checkbox"/> Run indication
Pump stop delay	5 min	_____ min
If DX cooler		
Reduction of min limit supply air temp. when DX cooling	5 °	____ °
Control function cooling	<input type="checkbox"/> 0-10 V <input type="checkbox"/> Step controller	<input type="checkbox"/> 0-10 V <input type="checkbox"/> Step controller
If step controller		
Type of step control	<input type="checkbox"/> Sequential <input type="checkbox"/> Binary	<input type="checkbox"/> Sequential <input type="checkbox"/> Binary
Number of steps	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4

Function	Default setting	Set value
<b>Freeze protection</b>		
Type of freeze protection	<input type="checkbox"/> None <input checked="" type="checkbox"/> Temp. sensor <input type="checkbox"/> Guard	<input type="checkbox"/> None <input type="checkbox"/> Temp. sensor <input type="checkbox"/> Guard
Alarm limit when unit is running	7 °	_____ °
P-band when unit is running	5 °	_____ °
Set point when unit is stopped	20 °	_____ °
<b>HW pump control</b>		
Pump running mode	<input checked="" type="checkbox"/> Auto <input type="checkbox"/> Always running	<input type="checkbox"/> Auto <input type="checkbox"/> Always running
Type of feedback	<input type="checkbox"/> None <input checked="" type="checkbox"/> Alarm <input type="checkbox"/> Run indication	<input type="checkbox"/> None <input type="checkbox"/> Alarm <input type="checkbox"/> Run indication
Pump stop delay	5 min	_____ min
Pump running when outdoor temp. is below:	10 °	_____ °
Hysteresis to allow pump stop	1 °	_____ °

## 2.3 General

Function	Default setting	Set value
<b>General</b>		
Extended operation stop delay	0 min	_____ min
Warm start when outdoor temp. is below:	3 °	_____ °
<b>CO<sub>2</sub> control</b>	<input checked="" type="checkbox"/> No <input type="checkbox"/> Fan start/stop	<input type="checkbox"/> No <input type="checkbox"/> Fan start/stop
Supply air fan set point when CO <sub>2</sub> control	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High
Extract air fan set point when CO <sub>2</sub> control	<input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High	<input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High
Start limit	800 ppm	_____ ppm
Stop hysteresis	160 ppm	_____ ppm
Min time for CO <sub>2</sub> control	20 min	_____ min
<b>Free cooling</b>	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes
Running when day outdoor temp. is above:	22 °	_____ °
Stop when night outdoor temp. is above:	18 °	_____ °
Stop when night outdoor temp. is below:	10 °	_____ °
Stop when room temp. is below:	18 °	_____ °
Free cooling start/stop hour	Start: 00:00 Stop: 07:00	Start: _____ Stop: _____
Time to block heat output after free cooling:	60 min	_____ min
Offset from normal speed when free cooling:	SAF: 0 EAF: 0	SAF: _____ EAF: _____
<b>Support control</b>	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes
Start heating room temperature	15 °	_____ °
Stop heating room temperature	21 °	_____ °
Start cooling room temperature	30 °	_____ °
Stop cooling room temperature	28 °	_____ °
<b>Extra controller (Pre-heater)</b>	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes
Start/Stop function	<input checked="" type="checkbox"/> When defrosting <input type="checkbox"/> Always running <input type="checkbox"/> Unit running	<input type="checkbox"/> When defrosting <input type="checkbox"/> Always running <input type="checkbox"/> Unit running
Extra controller setpoint:	18 °	_____ °



Function	Default setting	Default value
<b>Exchanger defrosting mode</b> Not applied for (SF, TR, SR, FR units)	<input checked="" type="checkbox"/> Pressure monitoring	<input type="checkbox"/> Pressure monitoring
Bypass	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off	<input type="checkbox"/> On <input type="checkbox"/> Off
Stop defrosting	<input checked="" type="checkbox"/> On <input type="checkbox"/> Off	<input type="checkbox"/> On <input type="checkbox"/> Off
Outdoor temp. to allow defrosting	18 °	_____ °
Outdoor temp. for stop of supply air fan	18 °	_____ °
Max deviation exchanger pressure to start defrosting	50 %	_____ %
Hysteresis to end defrosting	60 %	_____ %
<b>Fire function</b>		
Operation mode when fire alarm	<input checked="" type="checkbox"/> Stopped <input type="checkbox"/> Continuous run <input type="checkbox"/> Only supply air fan <input type="checkbox"/> Only extract air fan <input type="checkbox"/> Running via normal start/stop conditions	<input type="checkbox"/> Stopped <input type="checkbox"/> Continuous run <input type="checkbox"/> Only supply air fan <input type="checkbox"/> Only extract air fan <input type="checkbox"/> Running via normal start/stop conditions
Supply air fan setpoint type	<input type="checkbox"/> Auto <input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High  <input type="checkbox"/> Manual output _____ % <input type="checkbox"/> Manual setpoint _____	<input type="checkbox"/> Auto <input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High  <input type="checkbox"/> Manual output _____ % <input type="checkbox"/> Manual setpoint _____
Extract air fan setpoint type	<input type="checkbox"/> Auto <input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High  <input type="checkbox"/> Manual output _____ % <input type="checkbox"/> Manual setpoint _____	<input type="checkbox"/> Auto <input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High  <input type="checkbox"/> Manual output _____ % <input type="checkbox"/> Manual setpoint _____
Outdoor air damper function	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Open <input type="checkbox"/> Closed	<input type="checkbox"/> Normal <input type="checkbox"/> Open <input type="checkbox"/> Closed
Exhaust air damper function	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Open <input type="checkbox"/> Closed	<input type="checkbox"/> Normal <input type="checkbox"/> Open <input type="checkbox"/> Closed

### 3 Setting the weekly program

Factory setting of the normal and low fan speed are:

- High fan speed 00:00 to 00:00 Monday to Sunday.
- Normal fan speed 07:00 to 16:00 Monday to Sunday.
- Low fan speed 00:00 to 24:00 Monday to Sunday.
- Settings of 00:00 to 00:00 stops the unit. E.g. changing low fan speed setting from 00:00-24:00 to 00:00-00:00 will stop the unit outside the time of normal fan speed.



**Note:**

High fan speed has priority over normal fan speed which has priority over low fan speed.

Weekday	Period	Low fan speed	Normal fan speed	High fan speed
Monday	1	_____ – _____	_____ – _____	_____ – _____
	2	_____ – _____	_____ – _____	_____ – _____
Tuesday	1	_____ – _____	_____ – _____	_____ – _____
	2	_____ – _____	_____ – _____	_____ – _____
Wednesday	1	_____ – _____	_____ – _____	_____ – _____
	2	_____ – _____	_____ – _____	_____ – _____
Thursday	1	_____ – _____	_____ – _____	_____ – _____
	2	_____ – _____	_____ – _____	_____ – _____
Friday	1	_____ – _____	_____ – _____	_____ – _____
	2	_____ – _____	_____ – _____	_____ – _____
Saturday	1	_____ – _____	_____ – _____	_____ – _____
	2	_____ – _____	_____ – _____	_____ – _____
Sunday	1	_____ – _____	_____ – _____	_____ – _____
	2	_____ – _____	_____ – _____	_____ – _____

Holiday (month. day)	Holiday (month. day)	Holiday (month. day)
1. _____ – _____	9. _____ – _____	17. _____ – _____
2. _____ – _____	10. _____ – _____	18. _____ – _____
3. _____ – _____	11. _____ – _____	19. _____ – _____
4. _____ – _____	12. _____ – _____	20. _____ – _____
5. _____ – _____	13. _____ – _____	21. _____ – _____
6. _____ – _____	14. _____ – _____	22. _____ – _____
7. _____ – _____	15. _____ – _____	23. _____ – _____
8. _____ – _____	16. _____ – _____	24. _____ – _____

## 4 Alarm configuration

Alarm settings	Def. settings	Set value
Alarm number Alarm name Action: Level: Delay:	1 Malfunction supply air fan Normal stop A 300 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	5 Malfunction extract air fan Normal stop A 300 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	43 Malfunction pump heating (SEQ-A) No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	45 Malfunction pump cooling (SEQ-C) No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	49 Malfunction pump heating 2 (SEQ-G) No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	50 Malfunction pump cooling 2 (SEQ-H) No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	52 Malfunction pump external heating/cooling cap. No action B 5 s	_____ _____ _____ _____ _____

Alarm settings	Def. settings	Set value
Alarm number Alarm name Action: Level: Delay:	53 Filter alarm supply air No action B 300 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	54 Filter alarm extract air No action B 300 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	56 Freeze protection guard Fast stop Disabled 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	58 Fire alarm Fast stop A 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	59 Smoke alarm Fast stop A 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	60 External stop Normal stop C 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	61 External alarm No action B 0 s	_____ _____ _____ _____ _____

Alarm settings	Def. settings	Set value
Alarm number Alarm name Action: Level: Delay:	63 Electric heater is overheated Normal stop A 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay: Limit:	65 Low efficiency exchanger No action Disabled 30 s 50 %	_____ _____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	66 Defrosting alarm No action Disabled 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	67 Rotary exchanger alarm Normal stop A 10 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	79 Alarm service interval No action C 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	80 Restart blocked after power on Fast stop B 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay: Limit:	81 Deviation alarm supply air temperature No action Disabled 4 min 5 °	_____ _____ _____ _____ _____ _____

Alarm settings	Def. settings	Set value
Alarm number Alarm name Action: Level: Delay: Limit:	82 Deviation alarm supply air fan No action B 4 min	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay: Limit:	83 Deviation alarm extract air fan No action B 4 min	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay: Limit:	85 Deviation alarm extra controller No action Disabled 30 min 10 °	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay: Limit:	86 High supply air temperature No action B 300 s 35 °	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay: Limit:	87 Low supply air temperature No action B 300 s 10 °	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay: Limit:	90 High room temperature No action Disabled 30 min 30 °	_____ _____ _____ _____ _____

Alarm settings	Def. settings	Set value
Alarm number Alarm name Action: Level: Delay: Limit:	91 Low room temperature No action Disabled 30 min 10 °	      
Alarm number Alarm name Action: Level: Delay: Limit:	92 High extract air temperature No action B 30 min 30 °	      
Alarm number Alarm name Action: Level: Delay: Limit:	93 Low extract air temperature No action B 30 min 10 °	      
Alarm number Alarm name Action: Level: Delay: Limit:	94 High outdoor air temperature No action Disabled 0 min 40°	      
Alarm number Alarm name Action: Level: Delay: Limit:	95 Low outdoor air temperature No action Disabled 0 min -30 °	      
Alarm number Alarm name Action: Level: Delay:	96 Freeze protection alarm 1 Fast stop A 0 s	     

Alarm settings	Def. settings	Set value
Alarm number Alarm name Action: Level: Delay:	97 Freeze protection alarm 2 Fast stop A 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	98 Freeze protection alarm 3 Fast stop A 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	113 Manual operation air handling unit No action C 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	114 Manual operation supply air No action C 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	115 Manual operation supply air fan No action C 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	116 Manual operation extract air fan No action C 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	117 Manual operation heater No action C 0 s	_____ _____ _____ _____ _____



Alarm settings	Def. settings	Set value
Alarm number Alarm name Action: Level: Delay:	118 Manual operation exchanger No action C 0 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	119 Manual operation cooler No action C 0 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	120 Manual operation damper No action C 0 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	121 Manual operation pump heater No action C 0 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	122 Manual operation pump exchanger No action C 0 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	123 Manual operation pump cooler No action C 0 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	124 Manual operation damper recirculation No action C 0 s	<hr/> <hr/> <hr/> <hr/> <hr/>

Alarm settings	Def. settings	Set value
Alarm number Alarm name Action: Level: Delay:	125 Manual operation damper outdoor air Fast stop A 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	126 Manual operation damper exhaust air No action C 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	127 Manual operation fire damper No action C 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	138 Output in manual operation No action C 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	139 Input in manual operation No action C 0 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	144 Sensor error outdoor air temperature No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	145 Sensor error intake air temperature No action B 5 s	_____ _____ _____ _____ _____

Alarm settings	Def. settings	Set value
Alarm number Alarm name Action: Level: Delay:	146 Sensor error supply air temperature No action B 5 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	147 Sensor error exhaust air temperature No action B 5 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	148 Sensor error extract air temperature No action B 5 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	149 Sensor error room temperature 1 No action B 5 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	150 Sensor error room temperature 2 No action B 5 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	151 Sensor error room temperature 3 No action B 5 s	<hr/> <hr/> <hr/> <hr/> <hr/>
Alarm number Alarm name Action: Level: Delay:	152 Sensor error room temperature 4 No action B 5 s	<hr/> <hr/> <hr/> <hr/> <hr/>

Alarm settings	Def. settings	Set value
Alarm number Alarm name Action: Level: Delay:	153 Sensor error pressure supply air No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	154 Sensor error pressure extract air No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	155 Sensor error flow supply air No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	156 Sensor error flow extract air No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	158 Sensor error pressure exchanger extract No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	159 Sensor error defrosting temperature No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	160 Sensor error freeze protection temperature 1 Normal stop A 5 s	_____ _____ _____ _____ _____

Alarm settings	Def. settings	Set value
Alarm number Alarm name Action: Level: Delay:	161 Sensor error freeze protection temperature 2 Normal stop A 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	162 Sensor error freeze protection temperature 3 Normal stop A 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	163 Sensor error CO2 room/extract air No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	177 Sensor error pressure filter supply air No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	178 Sensor error pressure filter extract air No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	179 Sensor error efficiency temperature exchanger No action B 5 s	_____ _____ _____ _____ _____
Alarm number Alarm name Action: Level: Delay:	180 Communication fault device No action C 0 s	_____ _____ _____ _____ _____







Systemair Sverige AB  
Industrivägen 3  
SE-739 30 Skinnskatteberg, Sweden

Phone +46 222 440 00  
Fax +46 222 440 99

[www.systemair.com](http://www.systemair.com)