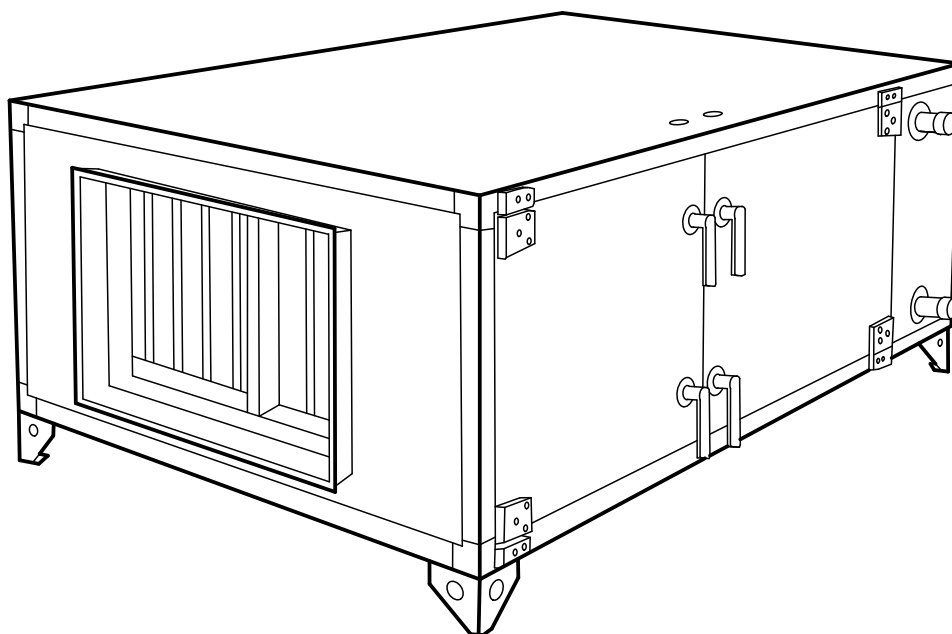


DVCompact Supply Unit



GB Commissioning Record

Contents

1 Commissioning Instructions.....	1
2 Commissioning Protocol.....	2

1 Commissioning Instructions

General

Systemair assemblies are tested and function tested at the factory before delivery. The automation is factory preset and a special document titled Test and control chart accompanies aggregate supply (a copy of the document is also filed with the manufacturer). This chart shows the settings applied.

A thorough inspection of the unit is done by the manufacturer before delivery. The unit should still be checked again by an electrician before deployment.

It is important that any changes to settings recorded in the commissioning protocol.

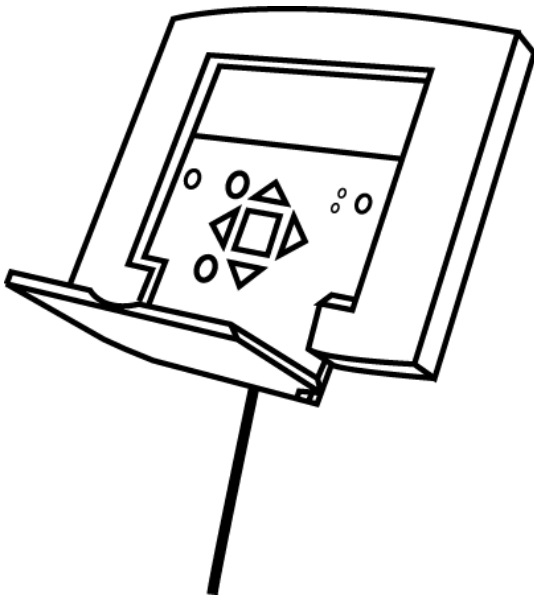


Fig. 1 Regulator

Before starting the unit

- The units are delivered in sections, fitted with quick connectors for the control and motor cables between each section. Make sure that these couplings are connected.
- **DVCompact** is equipped in different ways, for example, with water heater or electric heating coil. The control unit is fitted with cables towed out of the unit. Make sure that these cables are connected according to the schedule. The units are supplied with a master switch, which is also the point at which the electrician will connect the unit to the mains. Check voltage - measure between all phases and between all phases and earth. Electric Heating Batteries supplied for a separate power supply. Also check all phases.
- **Supply air sensor** is mounted in the channel. Check that this sensor is not damaged and is far enough away from the heating coil.
- **Control panel with display** is included with the delivery (pickled in the cabinet) and shall be connected to the bus cable.

Turn on main switch and fuses in the electrical cabinet. Wait a few minutes while the control panel loads all values. Any error messages is shown on the display.

The unit should now be ready to start.

2 Commissioning Protocol

Company:

Responsible:

Customer	Date	Installation
Object/Unit	Item	Installation address
Model	Serial number	

Time and date set:

Weekly program set:

External connections (sensors, dampers, external alarm, etc.) performed:

Function	Default setting	Set value
Temp. (°C)		
Regulatory Function Temp.	Supply <input checked="" type="checkbox"/> Room <input type="checkbox"/> Outside compensatory supply air temp. <input type="checkbox"/>	Supply <input type="checkbox"/> Room <input type="checkbox"/> Outside compensatory supply air temp. <input type="checkbox"/>
Outdoor temperature compensation (supply air)		
Set point	<u>21,0</u> °C	_____ °C
Breakpoint 1, 2 and 3	<u>-20,0 / 25,0</u> _____ <u>-10,0 / 23,0</u>	____ / ____ _____ / _____
Breakpoint 4, 5 and 6	<u>-5,0 / 23,0</u> _____ <u>5,0 / 20,0</u>	____ / ____ _____ / _____
Breakpoint 7 and 8	<u>10,0 / 18,0</u> _____	____ / ____ _____
Low set point supply air	<u>14,0</u> °C	_____ °C
High set point supply air	<u>30,0</u> °C	_____ °C
Temperature for switching between supply-and cascade control	<u>13,0</u> °C	_____ °C

Function	Default setting	Set value
Airflow		
Fan control	Airflow (m ³ /h) <input type="checkbox"/> Pressure (Pa) <input type="checkbox"/>	Airflow (m ³ /h) <input type="checkbox"/> Pressure (Pa) <input type="checkbox"/>
Setpoint normal ¹	Inlet fan _____	Inlet fan _____
Setpoint reduced ¹	Inlet fan _____	Inlet fan _____
Outdoor temperature compensation	Lower point <u>-22</u> °C <u>-500</u> m ³ /h Higher point <u>3</u> °C <u>0</u> m ³ /h	Lower point _____ °C _____ m ³ /h Higher point _____ °C _____ m ³ /h

1. The airflow and pressure is according to the calculation in the technical description

Setting the weekly program

- Times for normal and reduced fan speed is factory set as shown below.
- Period 1. 07:00 to 16:00 Monday to Friday, normal fan speed. 00:00 to 00:00 Saturday-Sunday and holidays.
- Period 2. 00:00 to 00:00 Monday to Sunday and public holidays. 00:00 to 00:00 off period.
- **OBS!** Normal fan speed has priority over a reduced fan speed.

Weekday	Period	Normal fan speed	Reduced 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)	Holiday (month.day)
1. _____ . _____ — _____ . _____	7. _____ . _____ — _____ . _____	13. _____ . _____ — _____ . _____	19. _____ . _____ — _____ . _____
2. _____ . _____ — _____ . _____	8. _____ . _____ — _____ . _____	14. _____ . _____ — _____ . _____	20. _____ . _____ — _____ . _____
3. _____ . _____ — _____ . _____	9. _____ . _____ — _____ . _____	15. _____ . _____ — _____ . _____	21. _____ . _____ — _____ . _____
4. _____ . _____ — _____ . _____	10. _____ . _____ — _____ . _____	16. _____ . _____ — _____ . _____	22. _____ . _____ — _____ . _____
5. _____ . _____ — _____ . _____	11. _____ . _____ — _____ . _____	17. _____ . _____ — _____ . _____	23. _____ . _____ — _____ . _____
6. _____ . _____ — _____ . _____	12. _____ . _____ — _____ . _____	18. _____ . _____ — _____ . _____	24. _____ . _____ — _____ . _____

Function	Default setting	Set value
Night Cooling Location Activation at outdoor temperatures higher than Stopped at outdoor night temperatures higher than Stopped at outdoor night temperatures lower than Stopped at room temperatures lower than	On <input type="checkbox"/> Off <input checked="" type="checkbox"/> <u>22</u> °C <u>15</u> °C <u>5</u> °C <u>18</u> °C	On <input type="checkbox"/> Off <input type="checkbox"/> ____ °C ____ °C ____ °C ____ °C
CO₂—adjustment Active Shortest running time Activation Level	Never <input checked="" type="checkbox"/> At off time channel <input type="checkbox"/> Always <input type="checkbox"/> At on time channel <input type="checkbox"/> <u>20</u> min Half speed <u>800</u> ppm Full speed <u>1000</u> ppm Difference (below half-speed, fan stops) <u>160</u> ppm	Never <input type="checkbox"/> At off time channel <input type="checkbox"/> Always <input type="checkbox"/> At on time channel <input type="checkbox"/> ____ min Half speed ____ ppm Full speed ____ ppm Difference (below half-speed, fan stops) ____ ppm
Fire Function Supply fans at fire Fire entry	No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Sealing <input checked="" type="checkbox"/> Breaking <input type="checkbox"/>	No <input type="checkbox"/> Yes <input type="checkbox"/> Sealing <input type="checkbox"/> Breaking <input type="checkbox"/>

Function	Default setting	Set value
HW Heat Pump Pump end (generating sets off) Stop Delay Pump stop at outdoor temperature Hysteresis Hours for exercising	On <input type="checkbox"/> Off <input checked="" type="checkbox"/> <u>5</u> min <u>10</u> °C <u>1</u> °C <u>15</u> h	On <input type="checkbox"/> Off <input type="checkbox"/> ____ min ____ °C ____ °C ____ h
Cooling, cold water pump Stop Delay	<u>5</u> min	____ min
Other Extended operation	<u>60</u> min	____ min

Alarm settings	Def.setting	Set value	Alarm settings	Def.setting	Set value
1. Malfunction, supply fan Class Delay The unit stopped at alarm	A 120 s No		10. Moisture Deviation Class Delay The unit stopped at alarm	Not active 0 s No	
2. Malfunction, P1-heat, HW-pump (HW-units) Class Delay The unit stopped at alarm	Not active 5 s No		11. High inlet air temperature Class Delay The unit stopped at alarm High inlet air temperature	B 300 s No 35°C	
3. Malfunction, P1-cooling (Cold water pump) Class Delay The unit stopped at alarm	Not active 5 s No		12. Low inlet air temperature Class Delay The unit stopped at alarm Low inlet air temperature	A 300 s No 35°C	
4. Filter guard Class Delay The unit stopped at alarm	B 180 s No		13. Inlet fan, upper limit Class Delay The unit stopped at alarm	Not active 0 s No	
5. Pressure sensor Class Delay The unit stopped at alarm	Not active 5 s No		14. Inlet fan, lower limit Class Delay The unit stopped at alarm	Not active 0 s No	
6. External freeze guard Class Delay The unit stopped at alarm	Not active 0 s No		15. High room temperature Class Delay The unit stopped at alarm High room temperature	Not active 0 s No 30°C	
7. Fire alarm Class Delay The unit stopped at alarm	A 0 s No		16. Low room temperature Class Delay The unit stopped at alarm Low room temperature	Not active 0 s No 10°C	
8. External switch Class	C		17. Overheating, electric heating (Off on HW-units) Class	A	

Alarm settings	Def.setting	Set value	Alarm settings	Def.setting	Set value
Delay The unit stopped at alarm	0 s No		Delay The unit stopped at alarm	0 s Yes	
9. External alarm Class Delay The unit stopped at alarm	B 0 s No		18. Freeze protection Class Delay The unit stopped at alarm	Not active 0 s No	

Alarm settings	Def.setting	Set value	Alarm settings	Def.setting	Set value
19. Low freeze protection temperature (Applies to HW-units) Class Delay The unit stopped at alarm Freezing limit	A 0 s Yes 2°C		27. Inlet fan, freq. conv. manual Class Delay The unit stopped at alarm	Not active 0 s No	
20. Sensor failure Class Delay The unit stopped at alarm	B 5s No		28. Heating coil in manual mode Class Delay The unit stopped at alarm	Not active 0 s No	
21. Fire dampers Class Delay The unit stopped at alarm	Not active 0 s No		29. Cooling coil in manual mode Class Delay The unit stopped at alarm	Not active 0 s No	
22. Inlet fan, control errors Class Delay The unit stopped at alarm Largest diff. between must / is value	B 15 min Yes 200 Pa		30. P1-heat in manual mode (Only for HW-units) Class Delay The unit stopped at alarm	Not active 0 s No	
23. Inlet fan, external operating Class Delay The unit stopped at alarm	Not active 1200 s No		31. P1-Cooling in manual mode Class Delay The unit stopped at alarm	Not active 0 s No	
24. Ventilation in manual mode Class Delay The unit stopped at alarm	Not active 0 s No		32. Fire dampers manual Class Delay The unit stopped at alarm	Not active 0 s No	

Alarm settings	Def.setting	Set value	Alarm settings	Def.setting	Set value
25. Supply air control in manual model Class Delay The unit stopped at alarm	Not active 0 s No		33. Error on internal battery Class Delay The unit stopped at alarm	A 0 s No	
26. Supply fan in manual mode Class Delay The unit stopped at alarm	Not active 0 s No				

Systemair AB reserves the right to make changes and improvements to the contents of this manual without prior notice.



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