

High End User Panel

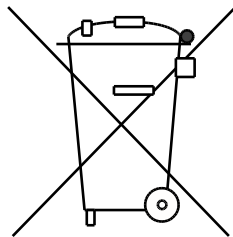
HXV 5

Service manual

Rev. 2.0

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Introduction

Overview

Introduction

This is the installation and users instruction for the Dantherm Air Handling High End User's Panel for the HXV 5 unit.
The table of content below gives you an overview of the subjects.

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Description of the display and the keys

Introduction

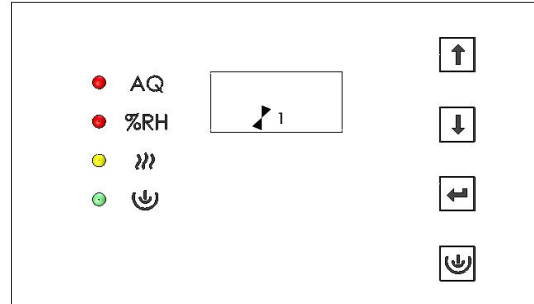
The High End User's Panel can control the HXV 5 unit.
Up to 5 High End User's Panels can be connected at the same time.
Information about operation can be read on the display.

NB

The basic panel for HXV 5 cannot be used when the High End User's Panel is installed.

Illustration

This illustrates the High End User's Panel:



Part/function

The following describes the user's panel:

Part		Function
	AQ Air Quality	Illuminates when the air quality sensor is activated
	%RH Humidity	Illuminates when the humidity sensor is activated
	Heater	Illuminates when the heater is activated
	Power on	Illuminates when power to the HXV 5 is on
	Display	Shows the menu etc.
	Arrow	Moves up one menu item
	Arrow	Moves down one menu item
	Enter	Acceptance of changes
	Key lock / - Escape	To protect against unintended settings To escape the menu and return to the main screen

Display

When the panel has not been activated for 1 minute, the display shows the actual fan speed (1-4) and the fan symbol.

Get ready for use

Introduction

This section will guide you through the mounting and installation of the High End User Panel.

Mounting and installation

Follow this procedure to mount and install the unit:

Step	1 st High end user panel	Additional High end user panel
1	Disconnect the basic user panel if one is connected to the HXV 5	Connect the 12 meter cable from the High End User Panel to the last serial connected user panel
2	Connect the 12 meter cable from the High End User Panel to the cable from the HXV 5 that was previously connected to the basic user panel	-

User's guide

Introduction


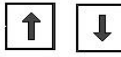

This topic will guide through customization of different settings.

Displays

Displays shown in this manual is often examples and may differ from one display to another.




More than one high end user panel, address

By use of more than one high end user panel, the following should be done: When the panel is installed it requests for its address. If the address of one of the panels needs to be changed later on, follow this procedure:

Step	Action	Key	Result
1	Press at the same time Arrow Down and Enter for 3 seconds		Addr= 5
2	Press Arrow Up/Down to address the user panel (1-6)		-
3	Press Enter to save the new setting		-

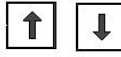

Lock/unlock keys

The keys can be locked or unlocked. Follow this procedure to lock/unlock:

Step	Action	Key	Result
1	Press the Key Lock to lock or unlock the keys		Locked keys:  1 Unlocked keys:  1

Fan speed

The fan speed is easily changed form the main screen on the display:




Step	Action	Key	Result
1	Press Arrow Up/Down to change the fan speed when in the main screen		 1

Continued overleaf

User's guide, *continued*







Read settings

Follow this procedure to read settings:

Step	Action	Key	Result
1	Press Enter to reach the menu		▶1= 40%
2	Press arrow down to read the different settings/values A complete menu structure is available in section "Menu structure and factory settings", page 10		▶2= 60%
3	Press Key Lock twice to escape the menu		▶ 1

Change of settings

Follow this procedure to change settings:

Step	Action	Key	Result
1	Press Enter		▶1= 40%
2	Press arrow down to reach the setting to be changed		▶2= 60%
3	Press Enter to select the setting to be changed		▶2= <u>60%</u>
4	Change value with Arrow Up/Down	 	▶2= <u>70%</u>
5	Confirm with Enter (You can here change the fan speed with Arrow Up/Down) Repeat step 1–5 to change more settings		▶ 1

Fan speed

Settings made on one High End User's Panel will override settings of other panels.

Air inlet temperature Settings made on one High End User's Panel will override settings of other panels.

Continued overleaf

User's guide, *continued*

Humidity

Settings made on one High End User's Panel will NOT override settings of other panels.
Humidity settings are individually.
Setting on 100 % disables the actual humidity sensor!

Air quality

Settings made on one High End User's Panel will NOT override settings of other panels.
Air quality settings are individually.
Setting on 100 disables the actual air quality sensor!

Fire place

The fireplace function is a help when e.g. the wood burning stove, fireplace or the like is to be lit.
The function disables the exhaust air fan for 15 minutes by which the inlet fan establishes an over pressure in the house, which is good for the vent in the chimney.

Reset filter timer

See the service manual for HXV 5.

Fault finding guide

Fault finding

Use this table to find the solution of a problem:

Problem	Cause	Solution
Display shows FIRE	AQ sensor has detected a value on or below 5	<ul style="list-style-type: none"> • Stop the HXV 5 • Reset HXV 5 by disconnecting it for a few seconds
Buzzer sounds	Filter timer is below value 1000	<ul style="list-style-type: none"> • Replace/clean the filter and reset the timer by pressing Enter for 3 seconds
Smoke is coming out from the wood burning stove	Low pressure in the house	<ul style="list-style-type: none"> • Activate the fireplace function. The function disables the exhaust air fan for 15 minutes by which the inlet fan establishes an over pressure in the house, which is good for the vent in the chimney.
The unit is supposed to run fan speed 4 but it automatically switches to fan speed 3 after a while	The unit automatically switches from fan speed 4 to 3 after one hour	<ul style="list-style-type: none"> • Set fan speed 4 again after one hour if needed
The fan speed sometimes changes to fan speed 3 even though it was set at fan speed 1 or 2	A humidity sensor or AQ sensor has detected a value which is higher than its set point	<ul style="list-style-type: none"> • The fan speed returns to its previous setting (1 or 2) when the humidity level or the air quality is okay again
The panel is locked	The Key Lock key has been activated	<ul style="list-style-type: none"> • Press the Key Lock key to unlock the panel

Menu structure and factory settings

Menu structure

The following table shows the complete menu structure in the panel. The factory settings (if any) of each menu item and the range is also available from the table:

Menu	Display	Factory setting	Range
Fan speed 1	↙1= 40%	40 %	35 - 55 %
Fan speed 2	↙2= 60%	60 %	60 - 90 %
Fan speed 3	↙3= 85%	95 %	95 %
Fan speed 4	↙4= 100%	100 %	100 %
T1 - Outdoor air temperature	T1= 21 °	-	*)
T2 - Supply air temperature	T2= 22 ° T2s= 18 °	18 °C	+10 - +30 °C
T3 - Warm and humid air from the house	T3= 21 °	-	*)
T4 - Exhaust air temperature	T4= 22 ° T4s= 4 °	4 °C	0 - +10 °C
%RH - Humidity	RH= 51% RHs= 75%	80 %	20 - 100 %
AQ - Air quality	AQ= 61 AQs= 25	20	0 - 100
FP - Fireplace**)	FP OFF	-	*)
Filter timer	□ TIMER 3918	-	*)
Operation time	⌘ TIMER 2	-	*)

*) Cannot be changed

***) When pressing Enter, the FirePlace function is activated and the Fire symbol is shown for 15 minutes

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