

HAVERHILL OIC SAMPLE SETS
Differences between Full and Extended set

HAUPTWERK v3 SPECIFICATION - EXTENDED SET

GREAT		CHOIR	
Double Open Diapason	16	Geigen Diapason	8
Open Diapason	8	Viol di Gamba	8
Viola	8	Viol Celestes (tenor C)	8
Hohl Flute	8	Concert Flute	8
Stopped Diapason	8	Dolce	8
Principal	4	Unda Maris (tenor C)	8
Suabe Flute	4	Principal	4
Nazard	2 2/3	Stopped Flute	4
Fifteenth	2	Nazard	2 2/3
Mixture	IV	Flautina	2
Posaune	8	Tierce	1 3/5
Clarion	4	Orchestral Oboe	8
Trumpet en Chamade	8	Clarinet	8
		Trumpet	8
Swell to Great		Tuba	8
Swell octave to Great		Trumpet en Chamade (Gt)	8
Swell suboct to Great		Tremulant	
Swell to Great Melody			
Choir to Great		Choir octave	
Choir octave to Great		Choir suboctave	
Choir suboct to Great		Choir unison off	
Choir to Great Melody		Swell to Choir	
Great Basscoupler		Swell to Choir Melody	
Gt and Ped combs cpld		Choir Basscoupler	
		Choir high pressure reeds on Solo	
SWELL		PEDAL	
Bourdon	16	Double Open Wood	32
Open Diapason	8	Open Wood	16
Stop Diapason	8	Open Diapason (from Gt)	16
Viole d'Orchestre	8	Bourdon	16
Vox Angelica	8	Viola	16
Voix Celestes (tenor C)	8	Quint (from Bourdon)	10 2/3
Geigen Principal	4	Principal	8
Suabe Flute	4	Bass Flute	8
Fifteenth	2	Fifteenth	4
Mixture	IV-II	Choral Bass	4
Sesquialtera	III	Mixture	III
Contra Fagotto	16	Contra Trombone	32
Cornopear	8	Trombone	16
Oboe	8	Tromba	8
Clarion	4	Clarion	4
Tremulant			
Swell octave		Great to Pedal	
Swell suboctave		Swell to Pedal	
Swell unison off		Choir to Pedal	
Choir to Swell			
Choir to Swell Melody			
Swell Basscoupler			
Sw and Ped combs cpld			

KEY

Black - existing stops or couplers carried over without alteration from the full set
 Blue - existing samples reworked and repitched
 Red - new samples placed in the Haverhill acoustic using convolution reverb
 Green - new coupler or transfer

1. Tonal additions and alterations

Referring to the extended organ specification on the previous page, there are a total of 7 stops which make use of brand new samples and a further 15 stops created from existing material which has been re-pitched or otherwise modified.

The **Great** organ now benefits from having a separate 4 foot flute (the reworked Suabe Flute from the Choir). The Mixture has been reworked to give an extra rank, which helps greatly to even out the breaks in the stop as well as adding a little more brilliance in the middle register. The Clarion is mainly taken from the Posaune and adds a reedy brightness.

The **Swell** organ is now provided with a proper secondary principal chorus. The Mixture has been totally reworked and is now “clean” - ie with unison and quint ranks only. In conjunction with the new Fifteenth it adds an authentic English brightness to the 8 and 4 foot principal ranks. The Sesquialtera is a reworking of the original Swell mixture, pitched at 17.19.22 in the bass and 12.15.17 in the treble.

The **Choir** organ has been extensively remodelled to provide more in the way of romantic sounds as well as a proper cornet séparée. The Viol Celestes provides a keener string celeste in comparison to the Swell Voix Celestes and the Unda Maris uses the existing Dolce samples to give a flute celeste when drawn with either the Dolce or Concert Flute. The Flautina from the swell organ forms the basis of the Nazard and Tierce and with the Stopped Flute (Swell Stop Diapason) completes a useful family of small flutes on this division. A small Trumpet expands both chorus and solo options and the powerful Tuba allows the organ to tackle properly works of the many English romantic composers who call for this distinctive stop. The existing Clarinet now has a complete bottom octave - previously, it borrowed from the Orchestral Oboe below tenor C.

As with the swell, the **Pedal** organ gains a more complete principal chorus whilst the 32 foot additions are more romantic touches. The existing Harmonic Bass (Pedal Bourdon quinted with the Pedal Open) is so effective that a 10 2/3 Quint is provided to allow this effect to still be available.

2. Virtual Solo Organ

For those who are using Hauptwerk with a four (or more) manual console, a virtual solo organ has been provided. The keys are not displayed and there are no individual stops for this division, but a transfer has been provided to allow the Choir Trumpet en Chamade and the Tuba to be playable from the Solo. When the transfer is active, both of these stops are only playable on the Solo, with both being muted on the Choir organ. In addition, with the transfer active, the Choir divisional pistons have no effect on the Trumpet en Chamade or Tuba drawstops. The general pistons, however, do act upon these stops, regardless of the position of the transfer stop. In fact, the transfer stop can also be controlled via the generals.

3. Tremulants

Two speed tremulants to both Swell and Choir are now available. The fast speed is a little under 7Hz (as in the original instrument), with a new slow speed of approximately 4 Hz being provided (each tremulant has a slightly different speed, in the interests of realism). The speed selection for Swell and Choir tremulants may be independently set.

In addition, a lot of work has been undertaken to improve the regulation and realism of the tremulants in comparison with the original Full set release.

4. Crescendo Pedal

A fully programmable, 30 stage crescendo pedal has been provided, which acts upon all stops and many couplers. The crescendo facility operates independently of any drawn stops, so as the pedal is opened and closed, the existing stop selection is not changed.

An indicator is provided, so that operation of the crescendo pedal may be observed.

5. Additional couplers

A variety of additional couplers are featured, including various Melody couplers. A melody coupler will only couple the highest note through, whereas a bass-coupler couples through the lowest note.

6. Separate Trumpet en Chamade ranks

Optionally, it is possible to load the Great and Choir Trumpet en Chamade as two separate and independent ranks, allowing each to be voiced separately with Hauptwerk's voicing tools (Advanced Edition only). It is still possible to load just one instance of the Trumpet en Chamade as in the Full set if memory is at a premium.

7. More divisional pistons

Each division has a total of 8 divisional pistons - the Full set had only 6.

8. Improved stop graphics

The graphical display of the stops has been improved to help stop name legibility as well as making the difference between in and out clearer. Displays of both 1280 x 1024 and 1024 x 768 are still supported and left and right hand jamb views are provided to support multi monitor setups.

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