

# Continental Contitech V-Belts for HVAC

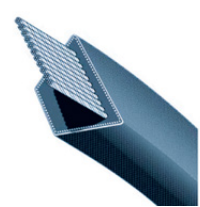
## NARROW (WEDGE) V-BELTS

Effectively handling drives from 1 to 1,000 hp, these belts rank high in horsepower-hours per dollar, the ultimate measure of drive value. The narrow-belt cross sections 3V, 5V, 8V, offer

higher power capacity for any sheave size and weight.

The narrow or “wedge” design provides more tensile member support than classical V-belts. Narrow belts handle an equivalent load, but with narrower face width and smaller diameters than the traditional classical V-belts. These features allow the use of smaller belts or fewer belts to transmit the load, an important advantage if your goal is to maximize power transmission efficiency by reducing drive weight and size.

## CLASSICAL V-BELTS

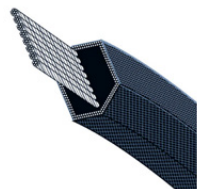


The most widely used V-belts are A,B,C, and D classical belts. Used more out of habit and convenience than design, these belts can

handle fractional to 500-hp drives, usually at the lowest cost. However, they occupy more space, and the drives weigh more than narrow-belt drives. Also, classical belts are usually less efficient than narrow belts. But their versatility and wide range of sizes and types make them an attractive alternative to wedge belts.

Many classical belts are used for replacement because it is considered too costly to replace sheaves when upgrading from classical to narrow or other belt types. Therefore, when replacing classical sheaves it is an opportune time to upgrade to narrow or other belt types.

## DOUBLE V OR HEX BELTS



in serpentine drives. A drive design using Hex belts is more complicated and Continental's V-belt engineering manual should be consulted when replacing or troubleshooting these drives.

## FHP BELTS

The 3L, 4L, and 5L light-duty FHP (Fractional Horsepower) belts are part of the classical belt line also. As the name implies, these belts are used singly on drives of 1 hp or less.

## COGGED, RAW-EDGE V-BELT

Continental has a complete offering of cogged, raw-edge belts in narrow, classical and FHP styles. Designated 3VX, 5VX, AX, BX, CX, 4L, and 5L; cogged raw-edge V-belts have higher capacity and efficiency,



and they use smaller sheaves than traditional envelope (wrapped) belts. These belts have a higher coefficient of friction and are more

aggressive, which makes them a very efficient belt for power transmission.

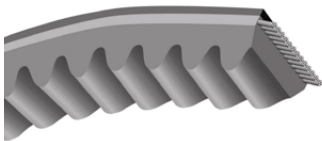
Unlike conventional fabric-covered V-belts, raw-edge belts have no cover. Thus, the cross-sectional area normally occupied by the cover is used for more load-carrying cord. Cogs on the inner surface of the belt increase air flow to enhance cooler running. They also increase flexibility, allowing the belt to operate with smaller sheaves. With classical V-belts, certain under-designed or problem drives can be upgraded to „satisfactory“ by substituting classical cogged belts for classical envelope belts without replacing sheaves.

Because of their higher coefficient of friction, cogged belts tend to be more sensitive to alignment. While envelope belts can tolerate some misalignment, cogged belts are more likely to turn over under the same conditions. Cogged belts should not be used in clutching drives, drives with severe shock loads, and drives that have changing center distances, such as shaker screens. In these applications, the aggressive nature and flexibility of cogged belts can cause vibration, belt turnover, and belt breakage.

Cogged belts should also be avoided in drives that require slippage during frequent stops and starts.

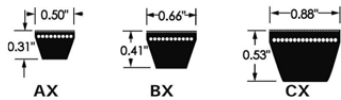
# V-Belts Specifications

## TORQUE-FLEX®

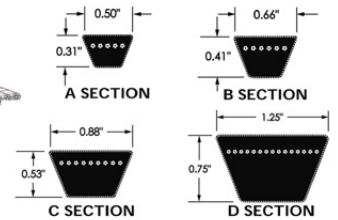


### Part No. BX75

B .66" top width, classical profile  
 X Premium cogged construction  
 75 Approx. 75" inside length,  
 cut-edge, molded cog shown



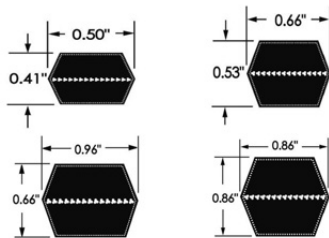
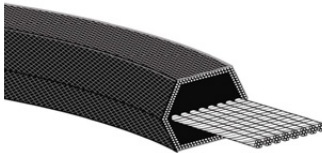
## HY-T PLUS™ (CLASSICAL)



### Part No. B75

B .66" top width, classical profile  
 75 Approx. 75" inside length

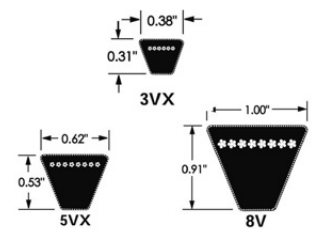
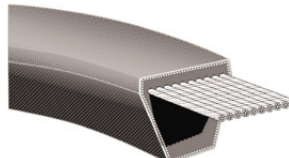
## HEX



### Part No. BB75

BB B section double classical  
 profile, 0.66" center width  
 75 Approx. 75" inside length

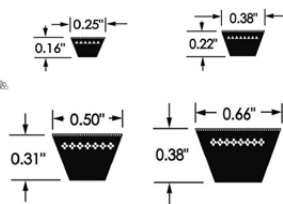
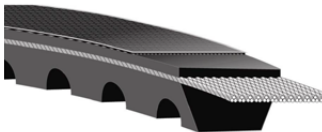
## HY-T WEDGE™



### Part No. 5V1400

5V 0.62" top width, narrow profile  
 1400 140.0" nominal outside length,  
 envelope uncogged shown

## FHP



### Part No. 4L560

4L 0.5" top width  
 560 56" nominal outside length,  
 cut-edge, molded cog shown

## LOCAL REPRESENTATIVE

Tri-Dim Filter Corporation is committed to continual product development - all descriptions, specifications and performance data are subject to change without notice. Tri-Dim products are manufactured to exacting criteria - there can be a ±5% variance in filter performance.