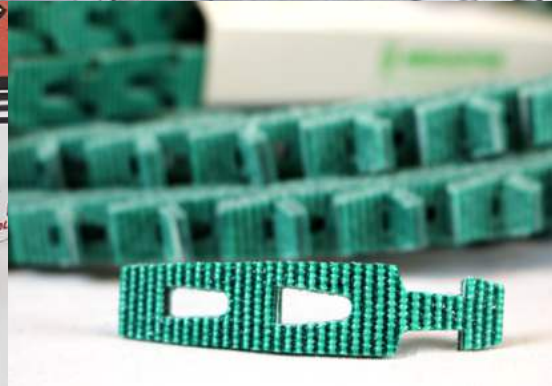


# HVAC-R: INDUSTRIAL APPLICATIONS



# HVAC-R Products by Jason Industrial

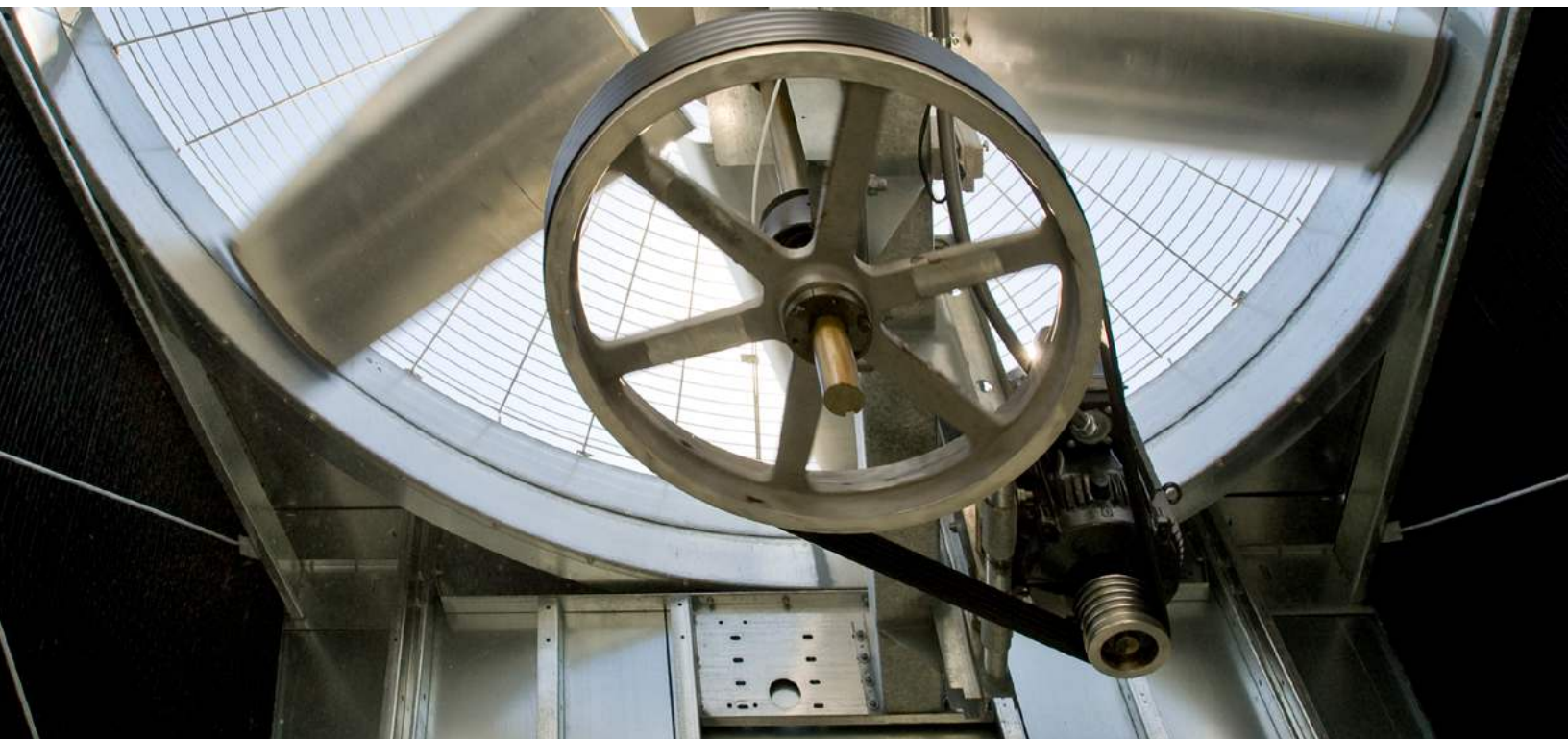


**Jason Industrial**, founded in 1958 and headquartered in Fairfield, NJ, quickly gained a solid reputation as a go-to source for power transmission belts in both the industrial and HVAC segments. Distributor partners are supported with high-quality, reliable inventory and knowledgeable customer service and a factory sales team. In subsequent decades, Jason Industrial expanded its successful Fairfield business model across the US opening distribution centers in Carol Stream, IL; Tampa, FL; Los Angeles, CA; and Portland, OR. Outside the US, expansion took place in Canada, Mexico, Brazil, Colombia and Peru.

Our Heavy-Duty Application Solutions Include:

- Singles and Banded belts – Wrapped and raw-edge cogged
- Classical Multi-Plus A & B dual-branded for fractional horsepower belts (FHP)
- Energy Saving Timing Belts – Silver to Platinum
- Accu-Link<sup>®</sup> – Urethane Link V-Belts

In 2007, Jason Industrial was acquired by Megadyne and became a part of the Megadyne group. In 2018, the Megadyne Group joined with Ammeraal Beltech to create AMMEGA. Today, Jason Industrial is a division of AMMEGA serving North, Central and South America offering HVAC belts and a wide range of both industrial and hydraulic hose, couplings, equipment and accessories.

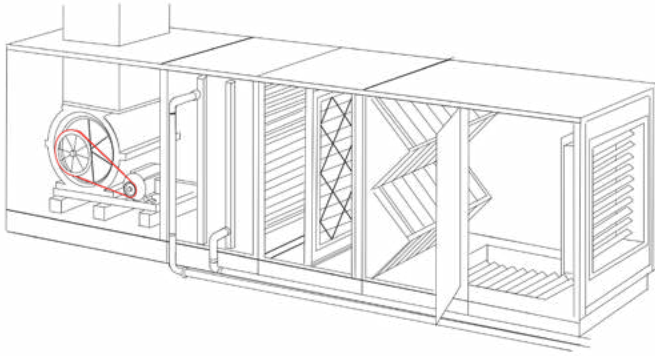


**WARNING:** This document is recognized as an Industrial Segment Brochure with its main intent to be application-product use training. While this is not a selling document, we do recognize some items include chemicals that are on the California Prop 65 list effective August 30, 2018. The chemical identified within the belts included in this document is carbon black. For more information visit [www.P65WARNINGS.ca.gov](http://www.P65WARNINGS.ca.gov)

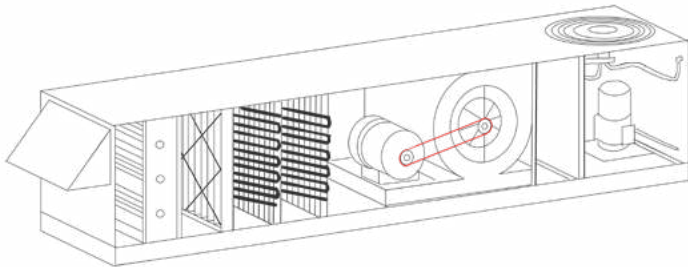




# Air Handlers



**Air Handling Units (AHU)** are used to exchange, condition and circulate air as part of a heating, ventilating and air-conditioning (HVAC) system to achieve occupancy comfort in a given space. They are normally a large metal box containing a belt-driven centrifugal blower (also known as squirrel cage fans) heating and/or cooling elements, filter racks, dampers, actuators and controls. The units are connected to a ductwork system that distributes conditioned air throughout a building. They are normally found in the basement, roof or on the floors of medium to large commercial and industrial buildings.



**Rooftop Units (RTU)** are air handlers designed for outdoor use, typically located on roofs. They are also known as packaged units (PU). The main difference is that they are usually more compact and because they are typically installed on the roof they need to be more robust and weather proof. While AHU's are often connected to a central plant such as chillers and boilers, RTU's are self contained and have everything all in one unit.

**Makeup Air Units** are larger air handlers that condition 100% outside air, and no recirculated air. They are commonly found in applications where a structure's interior requires the constant introduction of 100% outside air and the existing interior air cannot be recirculated. Hospital operating suites, restaurant kitchen exhaust systems and paint booths are good examples of makeup air unit applications. V-Belt drives can be found on the blower units.

\*Red line denotes belt placement on machine. Actual product is black.



## V-BELTS

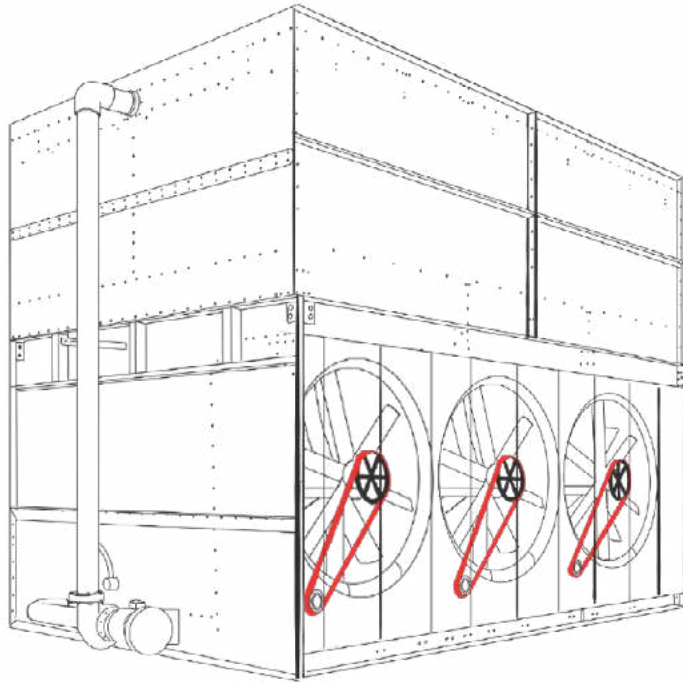
- UniMatch® Classical Multi-Plus
- UniMatch® Cogged Raw Edge Classical
- UniMatch® Deep Wedge
- UniMatch Cogged Raw Edge Deep Wedge

## BELT CROSS SECTION

- A,B
- AX,BX
- 3V, 5V
- 3VX, 5VX



# Cooling Towers



**Water Cooling Towers** are heat-rejection devices which discharge warm air from the system to the atmosphere through the cooling of water. In the HVAC industry, the term “cooling tower” is used to describe both open and closed-circuit heat-rejection equipment that is used in conjunction with a water chiller or manufacturing process applications. In operation, the condenser water flows directly over the heat transfer surface of the cooling tower. As air is introduced into the tower, a fraction of this water is evaporated, cooling the remaining water. A V-belt drive is the most common and cost effective method of driving the axial or centrifugal fan which exhausts the hot air from the system.

**Evaporative Condensers** are combined air and water-cooled condensers that offer important cost and energy-saving benefits for most refrigeration and air-conditioning systems by providing lower system temperatures than conventional systems. In an evaporative condenser, refrigerant vapor is condensed in a coil, which is continually wetted on the outside by a recirculating water system. Air is circulated over the coil, causing a small portion of the recirculating water to evaporate. The evaporation removes heat from the vapor in the coil, causing it to condense. V-Belt drives are incorporated to turn their centrifugal and axial fans.

\*Red line denotes belt placement on machine. Actual product is black.



## V-BELTS

- UniMatch® Classical Multi-Plus
- UniMatch® Cogged Raw Edge Classical
- UniMatch® Deep Wedge
- UniMatch Cogged Raw Edge Deep Wedge

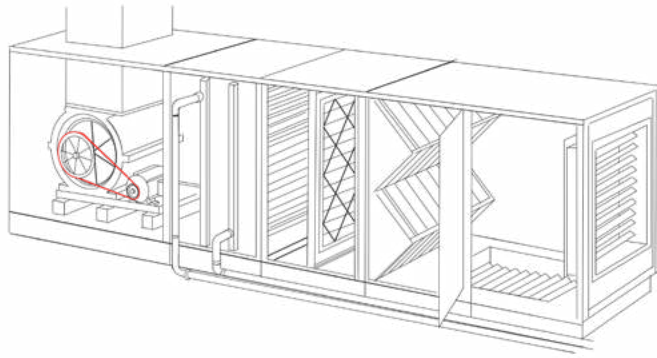
## BELT CROSS SECTION

- A,B
- AX,BX
- 3V, 5V
- 3VX, 5VX





# Clean Room Air Handling



**Clean Room Air Handling Units (CRAHU)** When it comes to clean rooms, HVAC means a lot more than comfort. The cleanroom HVAC controls the temperature and the humidity to your appropriate levels of precision, similar to standard HVAC. In addition to comfort, cleanroom HVACs differentiate themselves from conventional systems with their increased air supply, airflow patterns, use of high efficiency filters and room pressurisation. The increased air supply brings more air changes per hour with new HEPA filtered air circulating into the cleanroom many times per hour.

Clean room HVAC designs involve knowledge of regulations, cleanliness level guidelines, airflow, room pressurisation, temperature control, humidity control and accounting of activities taking place inside.



## V-BELTS

Accu-Link® Adjustable V-Belts

## BELT CROSS SECTION

3L, A,B

\*Red line denotes belt placement on machine. Actual product is black.



# About Jason Industrial

The cornerstone of Megadyne Americas was laid in 1993 when Jason Industrial and Megadyne worked together to establish Megadyne America - a urethane timing belt manufacturing plant in Charlotte, NC. In 2007, Megadyne acquired Jason Industrial. In 2014, Megadyne acquired Belt Corporation of America and acquired Sampla Belting in 2015. In 2019, Megadyne and Ammeraal Beltech merged to create the AMMEGA Group. Today these companies serve North, Central and South America, as well as globally. Our brands offer a full range of power transmission, conveyor and specialty belts, industrial and hydraulic hose, couplings, equipment and accessories. AMMEGA companies are your one-stop-shop for power transmission, conveying and fluid power needs.

[info-US@megadynegroup.com](mailto:info-US@megadynegroup.com)

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

## Locations

### **BRAZIL**

#### **Sorocaba**

Phone +55 15 2101 7700  
[Info.br@megadynegroup.com](mailto:Info.br@megadynegroup.com)

### **CANADA**

#### **Edmonton**

Phone +1 780 461 4400  
[Info.ca@megadynegroup.com](mailto:Info.ca@megadynegroup.com)

#### **Montreal**

Phone +1 514 31 2341  
[Info.ca@megadynegroup.com](mailto:Info.ca@megadynegroup.com)

#### **Toronto**

Phone +1 905 602 4400  
[Info.ca@megadynegroup.com](mailto:Info.ca@megadynegroup.com)

### **COLOMBIA**

#### **Bogotá**

Phone +57 (1) 471 0503  
[Info.co@megadynegroup.com](mailto:Info.co@megadynegroup.com)

#### **Cartagena**

Phone +57 (5) 672 997  
[Info.co@megadynegroup.com](mailto:Info.co@megadynegroup.com)

### **MEXICO**

#### **Mexico C.P.**

Phone +52 55 5587 3680  
[info.mx@megadynegroup.com](mailto:info.mx@megadynegroup.com)

### **PERU**

#### **Lima**

Phone +51 713 0069  
[info.pe@megadynegroup.com](mailto:info.pe@megadynegroup.com)

### **U.S.A**

#### **California**

Phone +1 323 265 8061  
[info.us@megadynegroup.com](mailto:info.us@megadynegroup.com)

#### **Florida**

Phone +1 813 241 4111  
[info.us@megadynegroup.com](mailto:info.us@megadynegroup.com)

#### **Georgia\***

Phone +1 770 887 9725  
[info.us@megadynegroup.com](mailto:info.us@megadynegroup.com)

### **Illinois -**

#### **Hose Distribution Center**

Phone +1 630 752 0600  
[info.us@megadynegroup.com](mailto:info.us@megadynegroup.com)  
221 S. Westgate Dr.  
Carol Stream, IL 60188

#### **New Jersey**

Phone +1 973 227 4904  
[info.us@megadynegroup.com](mailto:info.us@megadynegroup.com)  
340 Kaplan Dr  
Fairfield, NJ 07004

#### **New York\***

Phone +1 716 667 7450  
[info.us@megadynegroup.com](mailto:info.us@megadynegroup.com)

#### **North Carolina\***

Phone +1 704 583 5388  
[info.us@megadynegroup.com](mailto:info.us@megadynegroup.com)

### **Oregon**

Phone +1 503 231 7224  
[info.us@megadynegroup.com](mailto:info.us@megadynegroup.com)

### **Texas**

Phone +1 972 438 6992  
[info.us@megadynegroup.com](mailto:info.us@megadynegroup.com)

[www.megadynegroup.com](http://www.megadynegroup.com)  
[www.jasonbymeagadyne.com](http://www.jasonbymeagadyne.com)

\* Manufacturing locations

