

# Award winning chillers and heat recovery systems

WHRL have developed an innovative range of award-winning chillers and heat recovery systems, specifically designed for the dairy industry.

Our industrial grade chillers are designed for the most harsh and extreme climate conditions and deliver industry leading efficiencies in both cooling and hot water heat recovery.

Our systems have been deployed on many of the largest dairy farms in the USA.



## Product Range

**WHRL**cool®



**STAY**cool

# PCAX Range

## Large Outdoor Packaged Chillers

- 40 Ton – 120 Ton
- Outdoor Rated -20F to +125F
- Single and Dual Circuit
- Energy Efficient Scroll Compressors
- Dual – 4 Compressors
- Single – 2 Compressors
- Variable Speed EC Fan Motors
- Electronic Expansion Valves
- Stainless Steel Braised Plate Evaporators
- PLC & Touchscreen Controls with Remote Access



Following the outstanding success of our small packaged chillers, we have responded to our customers who wanted to see all of the usual WHRL controls and high quality component technologies built into a very robust, compact, large scale chiller.

The units arrive fully charged with freon and are easy to install.

Modular pump and tank packages are available for all sizes of dairy.

## New Product Range !

Multiple units can be linked together and operated as master and slave.

Heat recovery packages are available for the entire range.

Highly efficient, intelligent chillers ready for any conditions.

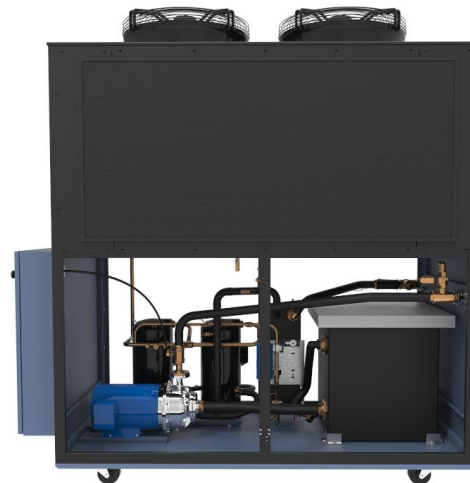


## PCA Range Small Packaged Chillers

- 5 Ton – 30 Ton
- Outdoor Rated -20°F to +125°F
- Energy Efficient Scroll Compressors
- Includes Pump, Tank, Evaporator and Condenser
- Easy to Install 'Plug and Play'
- PLC & Touchscreen Controls
- Also Available as Water-Cooled
- Heat Recovery Available

Our popular, robust and highly efficient packaged chillers are ideal for all sizes of dairies. Replacing an old chiller, increasing capacity or moving from tank cooling to direct cooling, this flexible range will have a match for you.

Many dairies have also been very successful at converting older milk tanks from freon to glycol. If your tank is leaking freon, WHRL has a solution that will extend the life of your tank.



## PCV Range Variable Speed Packaged Chillers

- 5 Ton – 30 Ton
- Outdoor Rated -20°F to +125°F
- Variable Speed Scroll Compressors for Ultimate Part Load Efficiency
- Includes Pump, Tank, Evaporator and Condenser
- Easy to Install 'Plug and Play'
- PLC & Touchscreen Controls
- Also Available as Water-Cooled
- Heat Recovery Available
- Ideal for Robotic Farm Applications

# CA & CW Range

## Air-Cooled & Water Cooled Central Chillers

- 10 Ton – 240 Ton
- Single and Dual Circuit
- Energy Efficient Scroll Compressors
- Dual – 4 Compressors
- Single – 2 Compressors
- Separate External Air Cooled Condensers
- Water Cooled Condensers available
- Variable Speed EC Fan Motors
- Electronic Expansion Valves
- Stainless Steel Braised Plate Evaporators
- PLC & Touch Screen Controls with Remote Access
- Integral Glycol Tank and Pumps Available
- Integral Heat Recovery Available



This industrial grade range is a favorite of our large dairies. The modular design allows us to configure systems to provide for ultimate redundancy.

Our unique programming allows us to intelligently control the compressor staging, electronic expansion valves and fan motors to ensure that our chillers deliver the most effective cooling, whilst not wasting a scrap of electricity.

Built with service and longevity in mind, with high quality components and easy access.

Link in our patented heat recovery system to drive huge savings and exceptional hot water volumes.



## Glycol Tank & Pump Skids

- 400 -2,100 Gallons
- Stainless Steel Tank
- Divided with Hot Side and Cold Side for Smoother Cooling
- 3 Pump Set up - Chiller Pump, Process Pump and Standby
- Designed to perfectly match any chiller system
- PLC & Touchscreen Controls



## Plate Coolers

- 71 – 354 Plates
- Dual Coolant, -Well Water and Glycol
- 4 Passes – 2 on Well Water Side and 2 on Glycol Side
- Designed to match our entire chiller range and all dairies.
- Custom Built Options Available

## Cooling Towers

- 40 – 240 Tons
- Designed perfectly to match our water cooled chiller range
- Smart Filters and Chemical Dosing Systems Available
- Durable, Corrosion Resistant and Low Maintenance
- Save water and Control your Condensing Temperatures





## Heat Recovery Systems

The *WHRLflo* Heat Recovery Process is a patented system designed to significantly reduce and on some dairies completely eliminate the energy cost used to heat water for cleaning the processing equipment.



- Significantly Increase Hot Water Availability. We aim to at least double the usual hot water storage on the dairy
- Significantly Reduce or Eliminate Propane or Gas Usage
- Reduce Electricity Usage via Reduced Mass Flow of the Refrigerant
- Robust Double Walled Desuperheaters which Guarantee Potable Water and Reduce Maintenance



- 1,000 – 7,500 Gallon Hot Water Storage Tanks
- Single, Double and Treble Heat Recovery Circuit Options
- Mechanically Cleanable Desuperheaters
- Inline Back Up Heaters for Redundancy
- Vented Hot Water Storage with Pump System
- Integrated on Chiller or Separate Skids



## Vacuum Pump Exchangers

- Generate Potable Hot Water from the Heat in your Vacuum Exhaust
- Up to 30,000 BTU's per Hour
- Connections sizes available to fit all vacuum pumps
- Ideal for providing additional free heat to your hot water system
- Reduces the unwanted heat in your plant room



## Digital Phase Convertors

- Convert Single Phase Power to 3 Phase Power with our Robust Phase Convertors
- Allows our chiller range to be used on Single Phase operations
- Easy Installation



## Sand Filters

- Stainless Steel with Conical Mesh Filter
- Differential Pressure Alarm
- Automatic Timer Flush
- Alternative Screen Sizes available to suit all particle sizes
- Ideal for preventing sand and other debris from entering condensers, cooling towers and hot water systems.





## Our Service

Working alongside our service partners, we pride ourselves on our after sales service. We provide a 24 Hour Help Desk and Remote Access Support.

Our expert team can also provide on site assistance for sizing and equipment selection and installation and start up.

Working with our partners we can provide tailored service and maintenance plans to protect the reliability and lifetime of your equipment.

## Contact Us

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