WHY HYBRID CONDENSERS?

Evaporative condensers are the most efficient method to condense refrigerant. Such systems however consume water which is both a scarce and valuable resource. The Hybrid Condenser technology aims to minimize water consumption yet retaining the high efficiency of evaporative condenser systems.

INTELLIGENT HYBRID CONDENSER: HXC

There are several suppliers that market hybrid condenser products by simply combining an evaporative condenser with an air-cooled extended surface coil in either a series or a parallel arrangement.

Baltimore Aircoil however can claim the world’s first truly intelligent Hybrid Condenser technology which is unmatched in the industry. A unique, smart product, the HXC Hybrid Condenser is one of a kind as it saves maximum water throughout the entire operating cycle in a very intelligent way.
Prime Surface Coil (40% less NH₃ charge)

Double row high efficiency PVC drift eliminators

Stainless steel coil with aluminium fins

Standard low noise fan

Optional for residential sound criteria

Modulating air inlet dampers

PVC Wet Deck Surface for efficient spray water cooling

Combined Inlet Shields provide superior product hygiene

Large, hinged access door allowing easy access for maintenance
HXC PRINCIPLE OF OPERATION

SUMMER PEAK OPERATION

When the ambient temperature is close to the condensing temperature or higher, the dampers are closed.

YEAR ROUND OPERATION

When the ambient temperature is a few °C below the condensing temperature, the dampers will modulate open.

Once the dry switchpoint in winter is reached, the spray pumps will be switched off, whereby no water is consumed.

1. Increased airflow to dry section
2. Reduced airflow to wet section
3. Colder ambient air boosts dry capacity
INTELLIGENT WATER SAVINGS

Significant water savings are obtained during the entire wet operation of the HXC Hybrid Condenser. The intelligent modulation of fresh air inlet dampers automatically reduces the air flow over the wet section, thus smartly reducing the water consumption.

During wet operation only minimal water savings are obtained from the wet/dry condenser as the main heat portion is rejected in the wet section of the product.

With the intelligent HXC Hybrid Condenser the switchpoint from wet to dry operation is improved, since the total airflow in the product increases when the air inlet dampers fully open.

HXC END-USER BENEFITS

- Low water consumption
- Low energy consumption
- Low noise levels
- Low NH₃ charge
- Superior hygiene
- Easy maintenance

At Baltimore Aircoil Innovation is our Passion

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