

# **DUNHAM-BUSH** AMERICAS

**Boca Raton, Florida – Biotest Pharmaceutical Corporation (BPC)** is a state of the art facility located in Boca Raton where they research & manufacture bio therapeutic products with a specialization in Immunology and Hematology.

## **CHALLENGE**

At the facility in Boca Raton, BPC cannot afford any down time with their process cooling equipment. If they have a failure it could potentially cost them millions of dollars in lost production. Redundancy and reliability are a must for this equipment. The current chiller plant has three different process loop temperatures and cooling mediums; there is a -10°C loop with 35% ethylene glycol, -20°C loop with 50% ethylene glycol, and a -31°C with Paratherm LR. All three loops are very critical to the successful operation of the facility. Knowing that a failure to any of these different processes could be devastating to their bottom line, BPC decided they needed a back-up chiller for each process. The major issue with providing a back-up to each process is they only had enough space for (1) new chiller in the existing chiller room and to add another chiller room would be too costly.

## **SOLUTION**

DB Americas worked closely with the engineers at BPC to design (1) chiller that would handle all (3) processes. The Dunham-Bush industrial chiller has dual independent refrigerant circuits and compressors. In addition there are (3) independent evaporators for each of the processes. The chiller dimensions were customized to match the existing space in the chiller room so BPC was able to avoid any costly upgrades or additions. Last but not least, the unit's control center was tailored to suit any operation scheme that was thrown its way.

## **RESULTS**

Now that the facility has a back-up to each of the processes, it allows them to operate with a sense of ease. Routine maintenance can now be provided to the existing chillers without having to schedule a production shut down. Additionally, since the chiller is supplied with dual independent refrigerant circuits it can handle the process load swings from full load to light load without any issues.

## **SPECIFICS**

- Dunham-Bush industrial water cooled chiller model# IWCX75-6Q
- Dunham-Bush industrial water cooled chiller model# WHSCi160T-6Q, serves the -10°C process load
- Chiller with built in reliability (2) compressors and (2) independent circuits
- Factory witness testing and approval
- Dunham-Bush customized products tailored to suit our customers' requirements
- Products that perform ... by people who care



Products that perform. By people who care.



Products that perform. By people who care.