CASE STORY

THE CUSTOMER
Green Resource Engineering (GRE), based in Devon, UK, designs, develops and manufactures innovative heating and cooling systems.

THE CHALLENGE
Create two new process-cooling systems capable of operating at high temperatures and a small system capable of operating in reverse as a heat pump.

THE SOLUTION
SWEP Hypertwain™ technology and AsyMatrix™ plate design enabled the systems to operate efficiently across a wide range of duties and requirements.

THE HEAT EXCHANGERS
F120THx64, which is reversible, functioned as both the evaporator and condenser. The P250ASx84, B250ASx48, DPD300x162 and DBD300x74 were used as both evaporators and condensers.

THE RESULTS
Three systems, capable of operating as heat pumps in reverse mode, that can operate efficiently across a wide range of duty requirements and temperatures.

SWEP helps create a for GRE

SWEP
A DOVER COMPANY

Providing complete in-house capability, GRE has worked with many multinational companies, delivering efficient, cost-effective cooling solutions for individual projects. The company also manufactures a wide range of cooling equipment that can be modified to meet specific process requirements. For this project, GRE wanted to create two new process-cooling systems capable of operating at high temperatures, in addition to a small system capable of operating as a heat pump in reverse mode. The systems needed to be able to operate at full and partial load, and fit strict space restrictions. To accomplish this task, GRE requested design support, products, and project pricing from SWEP.

The role of SWEP BPHEs

A total of three systems were created to cover the range of operating duties. The first system, which is reversible, even when running in co-current mode, uses an F120THx64 as both the evaporator and condenser. The second and third systems use the P250ASx84, B250ASx48, DPD300x162, and DBD300x742 as evaporators and condensers. SWEP Hypertwain™ technology and AsyMatrix™ plate design make it possible for the systems to operate efficiently across a wide range of duties and temperatures.

Why choose SWEP?

SWEP offered the unrivalled technical support and fast response times required for a project of this complexity. The ability to customize the design to address specific space, connection, sizes, and position requirements, made it possible to use SWEP BPHE technology to meet all of the client's specifications. SWEP was also able to deliver at a competitive price.

More About Green Resource Engineering (GRE)

Green Resource Engineering (GRE), based in Devon, UK, designs, develops and manufactures innovative heating and cooling systems that employ a vast range of cutting-edge technologies. GRE's staff have many decades of specialist knowledge in a broad range of applications, including thermal management. They craft unique solutions that fulfill the most complicated of specifications.

SWEP brazed plate heat exchangers.