

Packaged Chillers

Dunham-Bush

Dunham-Bush offer a full range of packaged chillers and associated products. The range utilises scroll and screw compressor technology packaged with direct expansion or flooded evaporator designs. The chillers can be configured to provide high efficiencies, low noise and compact overall dimensions to suit most applications.

The range includes air cooled chillers, water cooled chillers and heat pump versions of both, in selected models. 'ICE-CEL®' thermal storage systems including a range with integrated chillers is also available for applications where electricity supplies are restricted.

All chillers are capacity rated in accordance with, and where appropriate tested to ARI standards. Dunham-Bush have for many years been instrumental in initiating and promoting the ARI standards for rating packaged chillers and offer a range of products with excellent full and part load efficiencies confirmed by ARI testing.

Air Cooled Packaged Chillers

ACS 37-240 kW Cooling R407C

Air cooled packaged chillers, equipped with multiple scroll compressors. Units are configured with 2 or 3 refrigerant circuits. Compact package design with low profile arrangement and optional low noise version. Direct expansion, multi circuit shell and tube evaporator. Air cooled condenser.

ACHDX 188-799 kW Cooling R407C

Air cooled packaged chillers, equipped with 1 or 2 horizontal semi hermetic screw compressors on independent refrigeration circuits. Unloading is achieved by continuously variable slide valve. Direct expansion, multi circuit shell and tube evaporator. Air cooled condenser. Micro processor control as standard.

AFHX 300-1850 kW Cooling R134a

Air cooled packaged chillers, equipped with 1, 2, or 3 horizontal semi hermetic screw compressors on a single refrigeration circuit. Single flooded evaporator which results in excellent full and part load efficiency. Air cooled condenser. Unloading is achieved by continuously variable slide valve and compressor switching. Micro processor control as standard.

AFHX-HT 288-1654 kW Cooling R134a

High ambient capability and/or improved efficiency. Air cooled packaged chillers, equipped with 1, 2, or 3 horizontal semi hermetic screw compressors on a single refrigeration circuit. Single flooded evaporator which results in excellent full and part load efficiency. Air cooled condenser with extended surface. Unloading is achieved by continuously variable slide valve and compressor switching. Micro processor control as standard.

Water Cooled Packaged Chillers

WCS 42-362 kW Cooling R407C

Water cooled packaged chillers, equipped with multiple scroll compressors. Units are configured with 2 or 3 refrigerant circuits. Compact package design with optional low noise versions available. Direct expansion, multi circuit shell and tube evaporator. Shell and tube condenser.

WXC 217-668 kW Cooling R134a

Water cooled packaged chillers equipped with 1 or 2 horizontal semi hermetic screw compressors on a single refrigeration circuit. Single flooded evaporator which results in improved full and part load efficiency. Unloading is achieved by continuously variable slide valve, and compressor switching to achieve excellent part load efficiencies.

WCHDX 182-689 kW R407C

Water cooled packaged chillers, equipped with 1 or 2 horizontal semi hermetic screw compressors on independent refrigeration circuits. Unloading is achieved by continuously variable slide valve. Direct expansion, multi circuit shell and tube evaporator. Air cooled condenser. Micro processor control as standard.

WCFX 195-1739 kW Cooling R134a

Water cooled packaged chillers, equipped with 1, 2, 3 or 4 medium screw compressors on a single refrigeration circuit. These units use a flooded evaporator which results in excellent full and part load efficiency. Water cooled condenser is an integral part of the unit. Unloading is achieved by continuously variable slide valve, and compressor switching controlled by Vision 2020i.



Controls - Vision 2020i

A micro processor controller is fitted as standard or is available as an option on all Dunham-Bush package chiller and heat pump models. The Vision 2020i controller is available with a choice of displays including a 144mm touch screen.

Remote monitoring and control via the internet is available with the NETVISOR system, and a GSM modem enables remote access. Where control and monitoring of several units is required a LAN can be setup to allow multiple unit sequencing and control, avoiding the need for additional hardware.

Heat Pumps

A range of air to water heat pumps with capacities up to 880 kW and water to water units up to 2600 kW are available from the standard product range. These units offer compact design and exceptional opportunities for energy reduction.

ICE-CEL®

The integrated Ice-Thermal storage systems are available in 4 sizes with nominal capacities from 422 kWh to 844 kWh total storage. Thermal storage can be operated in full or partial melt modes providing a solution where electrical supply is limited or where 'off peak' tariffs are available.