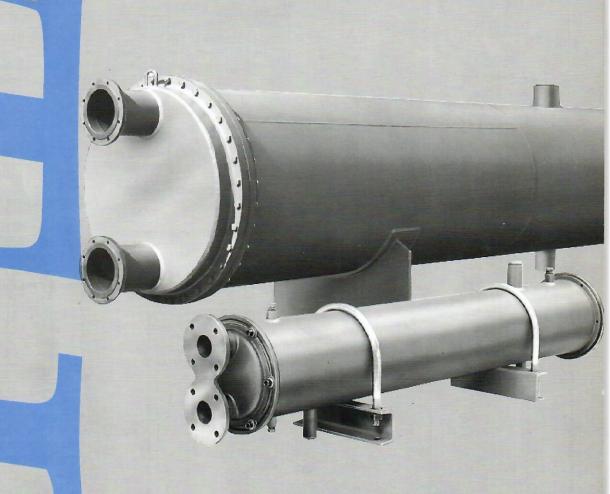
- H(C)FC models HBX, HBX-V, HC, HD and HE
- Ammonia condensers HBN and HN
- Selection programme available on request

Water Cooled

Condensers

Models HBX, HBX-V, HC, HD, HE, HBN and HN



HELPMAN





Water Cooled Condensers

HC

Model indication

165

G

Example: HC 10 - 165 - KSG

HC : Condenser with plain tube

diameter 19 mm

10 : Shell diameter code

: Effective length of the tube

in cm (nominal length)

K : Tube material code

S : Tube plate material code

: End cover material code



General information

The HC model water cooled condensers form an extensive standard series for both inland and marine cooling installations. There are 6 shell diameters in 10 standard lengths available. The condensers are suitable for all halocarbon refrigerants for a capacity range of 2 up to 165 kW at 10 K Imtd.

Due to the application of plain tubing these condensers are less sensitive to fouling. At identical capacity, the refrigerant volume of a plain tube condenser is greater than that of a finned tube condenser.

This often makes it possible to use the condenser as a liquid receiver.

Design

The condensers are built up of:

- seamless steel shell
- tube plates: steel or cupro-aluminium
- water tubes: plain tube ø19 mm material: copper or aluminium-brass
- End covers: cast iron or plastified cast iron. Water connections on one end cover. The other end cover has two connections G ¼" for purging and drainage.
- Supports are available at extra cost.
- Completely coated version available at extra cost.

For construction and testing autorities see page 3.

Material code indication

Water tubes :

K : copper

A : aluminium-brass

Tube plates :

S : steel

I : cupro-aluminium

End covers:

G: cast iron

P: plastified cast iron

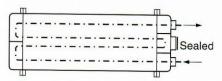
Choice of water connections

With the exception of the HC-6, the condenser end covers are suitable for two water flows.

When less water is available the outer connections are used for in-and outlet purposes and the central connection must be sealed off (single water flow).

For a higher water flow (or half the water velocity) the outer connections are designed as water inlet and the central connection as water outlet (double water flow).

Small water volume



Large water volume



10

Water Cooled Condensers

HC

Technical Data

Туре	Dimensions mm											
	Α	В	D	d	Е	F	G	H BSP female	J BSP female	M kg	N kg/m	V dm ³ /m
HC 6 HC 7 HC 8	40 47 55	35 39 40	200 219 260	159 168 219	92 108 142	20 26 28	64	1/2" 1/2" 3/4"	3¼" 1 ¼"	16 21 28	24 29 48	9.0 11.4 17.2
HC 10 HC 12 HC 13	56 63 65	42 44 47	308 345 372	267 298 324	162 220 220	54 38	84 113	1" 1 ¼" 1 ½"	1 ¼" 2" 2"	42 54 62	65 82 98	24.6 30.5 34.1

- Weight of endcovers (kg) M
- Weight of shell (kg/m) N
- Pump down capacity (dm³/m). Pump down capacities are based on 70 % of the tubes below the liquid level.

Dimensions X and Y, and the size of the refrigerant connections to be given with order.

