

Capacity	Pressure range	Material
86-170m ³ /h	2-7bar	Cast iron & Stainless steel

Description

A two stage liquid ring compressor with a simple robust design. With a free shaft end all options of shaft coupling, motor and DIN seals are available to adapt the pump to your industry.

Liquid ring compressor compresses medias in gas or steam form, or mixes of these, from a lower pressure to a higher pressure.

Range of application

Liquid ring compressors compresses medias in gas or steam media, as well as mixes of these, from a lower pressure to a higher pressure.

Typical industries are chemical, pharmaceutical, food, plastic and rubber industry.

Vacuum is used for distillation, drying, degassing, filling and boiling.



AT 6300-05501

Design

The compressor works according to the liquid ring principle. Fluid pumps are in some regards related with displacement pumps since the pump wheel is eccentrically located in the round pump body. When the wheel is rotating a fluid ring is created along the pump body's inner wall. In the cells (the space between the pump body's wings) inside the fluid ring rising part volumes (intake) and then decreasing volumes (outlet) will be created under one rotation. Because of the intensive contact between the gas that is transported and the operating fluid, there is only a very little increase of temperature of the gas that is transported, so that is can be described as a isothermal compression. The fluid ring compression is used especially with high intake pressure, and has a double acting construction. The pump body makes intake and compression possible two times per rotation.

Product key (example KPHA 55206 BN 041 01 0)

Pos	Description	Code	Explanation	
1-3	Pump model	KPH	Liquid ring compressor	
4	Construction	Α		
5-10	Pump size	80540-11055	One stage pump	
		55206-85227	Two stage pump	
11	Hydraulics	В		
12	Bearings	N	Two grease lubricated roller bearings	
13-15	Sealing	041	Gland packing, double	
		132	Mechanical sealing SIHI FE	
16-17	Material	01	See table below	
		42	See table below	
18	Gasket	0		
		4	Teflon	
	Only the most common combinations above			

Compressor KPHX

Material combinations

Pos	01	42		
Casing	0.6025 Cast iron	1.4408 Acid-proof steel		
Central body	0.6025 Cast iron	1.4408 Acid-proof steel		
Guide disc	0.6025 Cast iron	1.4408 Acid-proof steel		
Shaft	1.4021 Stainless steel	1.4401 Acid-proof steel		
Impeller	2.1096.01 Bronze	1.4517 Acid-proof steel		

Dimensions

Size	а	f	m1	m2	о3	Weight
55206 041	217	281	442	388	720	87
132		233			627	84

Connections

Connections	Designation	
UB	Service fluid G 1/2	
Ue	Drainage G 1/4	
Um	Pressure sensor G 1/4	

Rätten till ändringar utan föregående meddelande förbeht Armatec ansvarar inte för eventuella tryckfel eller missför Inkurnenten får knnieras endast i sin helher.