

Chiller/Cooling systems

Introduction

FST offers a complete product line of chillers in the performance range of 30 – 200 kW in cooling capacity. These units are compact in design and offer maximum performance while utilizing a minimum amount of floor space. All models' sophisticated industrial design points to the great range of innovations incorporated into these powerhouses of the latest chiller generation.

Flexibility

To ensure that you get exactly what you need, the products in the FST chillers model portfolio come with a great variety of options and special equipment. The configuration options cover various thermal spray processes so the customer can select the required equipment package specifically for the respective customer demands.



Reliability

FST chillers focus on the highest quality. Thanks to the cooperation with the most renowned component manufacturers and a consistent quality management, FST chillers guarantee maximum product quality.

Energy efficiency

As different thermal spray processes frequently show load variations, the thermal load is usually not constant either. Consequently, today's chillers are often bigger than actually necessary for a major share of load profiles. Up to now, this has often entailed relatively high emissions and excessive energy costs. FST chillers apply RPM-regulated components and a control system developed to automatically adapt the cooling capacity to the thermal spray process load profile. This means that the system generates only as much capacity as is needed.

Technical Data																
Net cooling capacity [kW]*	36	43	55	66	79	88	95	101	136	160	193	212				
Refrigerant	R410A															
Change of refrigerant	6 kg			7 kg			8 kg			17 kg		21 kg				
Ambient temperature range	-25°C to 50°C															
Max. air flow rate [m3/h]	9.350		12.600		15,45		23.270			45.550		49.100				
Coolant	Water or Water/Glycol															
Tank volume	300 ltr				500 ltr				700 ltr		900 ltr					
Coolant outlet temperature	-10°C to 30°C															
Temperature constancy	± 1 K															
Coolant flow [m3/h]	5,5	7,2	9,2	11,1	12,4	14,3	16,1	18,2	21,5	27,2	32,2	35,4				
Sound level [dB(A)] **	62		55		62		59			67						
Pumping pressure	400V/3Ph/50Hz or 460V/3Ph/60Hz															
Operating current [A] *	16,4	20	25,5	34	34,1	38,7	41,7	50,2	60,3	78,2	85,1	102,5				
Power consumption [kW] *	8,3	10,9	13,9	18	18,6	21,8	24,8	29,6	33,4	44,3	50,1	59,5				
Protection class	IP 54															
Weight [kg] ***	540		550		620		650		700		720		1.100	1.200	1.300	1.400
Water connection	RP 1½"				RP 2"				DN65							
Length	1.240 mm				1.840 mm				2.665 mm		3.965 mm					
Width	830 mm						1.200 mm									
Height	2.030 mm															

* at tw2=20°C, temp=32°C, 50Hz, without pump ** in 5m distance without reflection at full speed, without air filter *** net, without charge of coolant



Added value through know-how | www.fst.nl

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