



Explosion protection

Marking ATEX	Ⓜ II 2G IIC T3 or T4 Gb (chiller) Ⓜ II 2G Ex d e [ia] IIC T4 Gb (control unit)
Certification	TÜV 06 ATEX 2958
Marking NEC 500	Class I, Div. 2, Group B, C or D, T3 or T4
NEC 505	Class I, Zone 1, Chiller: AEx px mb de IIB+H2 T3 or T4 Control Unit: AEx px de [ia] IIB+H2 T4
CEC section 18	Chiller: Ex px mb de IIB+H2 T3 or T4 Control Unit: Ex de [ia] IIB+H2 T4
Certification	CSA 2066361
Other approvals and certificates, see www.bartec.de	

Technical data

Ambient temperature	Standard:	+5 °C to +40 °C (+41 °F to +104 °F)
	Option:	-20 °C to +55 °C (-4 °F to +131 °F)
		FKS 0.5-KWS +5 °C to +35 °C other ranges on request
Protection class of prefabricated parts	IP 54 (IP 65 on request) (comparable NEMA 12, NEMA 3 on request)	
Refrigerating capacity at coolant temperature, water outlet	FKS 0.5-KWS	typical 500 W at -35 °C (-31 °F)
	FKS 1.4-KWS	typical 1.4 kW at +15 °C (+59 °F)
	FKS 2.4-KWS	typical 2.4 kW at +10 °C (+50 °F)
	FKS 4-KWS	typical 4 kW at +10 °C (+50 °F)
	FKS 6-KWS	typical 6 kW at +10 °C (+50 °F)
	FKS 10-KWS	typical 10 kW at +10 °C (+50 °F)
Refrigerant	R134a (R404 FKS 0.5-KWS)	
Coolant	Temper/water/glycol (depending on application)	

Coolant temperature range	FKS 0.5-KWS	-35 °C to +10 °C (-31 °F to +50 °F)	
	FKS 1.4-KWS to FKS 10-KWS	-5 °C to +28 °C (+23 °F to +82 °F)	
Circulation pump capacity ±10 %	FKS 0.5-KWS	400 l/h, 2 to 3 bar	
	FKS 1.4-KWS	360 l/h, 2 to 4 bar	
	FKS 2.4-KWS	450 l/h, 2 to 4 bar	
	FKS 4-KWS	600 l/h, 2 to 4 bar	
	FKS 6-KWS	1000 l/h, 2 to 3 bar	
	FKS 10-KWS	1500 l/h, 2 to 3 bar	
Nominal voltage	3 phs. AC 400 V 50 Hz/AC 440 V 60 Hz other ratings on request		
Power consumption (effective power)	FKS 0.5-KWS	1.8 kW	
	FKS 1.4-KWS	1.8 kW	
	FKS 2.4-KWS	2.3 kW	
	FKS 4-KWS	3.2 kW	
	FKS 6-KWS	4.3 kW	
	FKS 10-KWS	6.5 kW	
General alarm/fault indication	potential-free contact (1 NC + 1 NO)		
Tube fittings	FKS 0.5-KWS to FKS 2.4-KWS, ½ inch NPT		
	FKS 4-KWS to FKS 10-KWS, depending on application		
Cable connectors	M25 mains supply, M20 fault message or conduit		
	Dimensions (H x W x D)	Weight	
FKS 0.5-KWS	500 x 960 x 530 mm	150 kg	
FKS 1.4-KWS	500 x 960 x 530 mm	150 kg	
FKS 2.4-KWS	600 x 960 x 530 mm	160 kg	
FKS 4-KWS	1000 x 1100 x 700 mm	260 kg	
FKS 6-KWS	1100 x 1100 x 700 mm	290 kg	
FKS 10-KWS	1200 x 1100 x 700 mm	310 kg	

All information given on this page are considered for the standard application.

Important Notice: Chillers are subjects to continuous product improvement; specifications may be subject to change without notice.