**Explosion protection**

**Marking ATEX**

Ex II 2G IIC T3 or T4 Gb (chiller)

**Certification**

Ex II 2G Ex d e [ia] IIC T4 Gb (control unit)

TUV 06 ATEX 2958

**Marking**

NEC 500

NEC 505

Class I, Div. 2, Group B, C or D, T3 or T4

Chiller: AEx px mb de IIb+H2 T3 or T4

Control Unit: AEx px de [ia] IIb+H2 T4

Chiller: Ex px mb de IIb+H2 T3 or T4

Control Unit: Ex de [ia] IIb+H2 T4

**CEC section 18**

Certification

CSA 2066361

Other approvals and certificates, see www.bartec.com

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**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 (R449a 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)

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**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 2.3 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 600 x 960 x 530 mm 150 kg

FKS 1.4-KWS 600 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.