

Data sheet

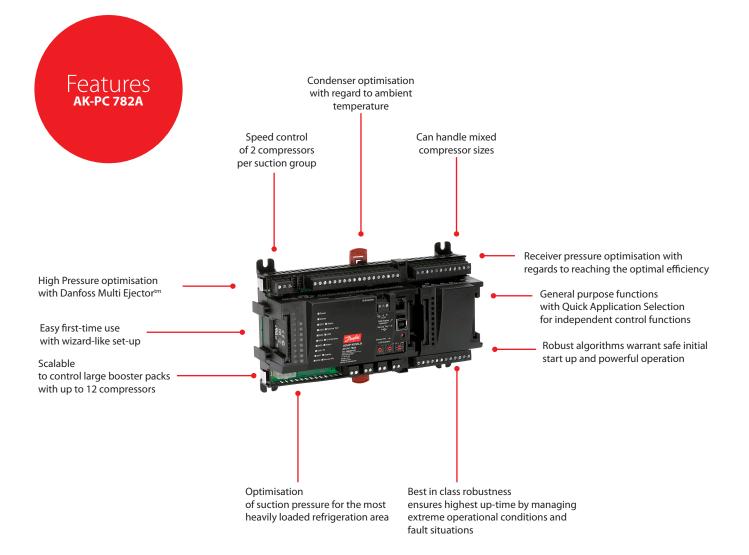
CO2 booster pack controller AK-PC 782A

The flexible AK-PC 782A pack controller delivers highest efficiency.

AK-PC 782A is a powerful and flexible controller that provides precise regulation, improved efficiency, and enhanced user friendliness for pack control in transcritical CO_2 booster packs.

The controller flexibility and efficiency makes it the obvious choice for all sizes of packs in all climates.

ENGINEERING TOMORROW



Facts

- One controller for the entire CO₂ booster pack
- High pressure control
- Danfoss Multi Ejectortm control
- Parallel compressor control
- Heat recovery functions
- Floating receiver pressure control
- Built in RS485 Lon communication
- Oil system pressurisation and flow management

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Technical data and ordering



AK-PC 782A, Capacity controller

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Technical data				
Features	Description			
Supply voltage	24 V DC / AC ± 20%			
Power consumption	8 V A			
	Pt 1000 ohm / 0 °C	Dissolution: 0.1 ℃ Accuracy: ± 0.5 ℃		
Analogue inputs	Pressure transmitter type AKS 32R / AKS 2050 / AKS 32 (1 – 5 V) Dissolution 1 mV Accuracy ± 10 mV Max. connection of 5 pressure transmitters on one module			
	Contact function (ON / OFF)	On at R < 20 ohm Off at R > 2K ohm (Gold plated contacts not necessary)		
ON / OFF supply voltage inputs	Low voltage 0 / 80 V AC / DC	OFF : U < 2 V ON: U > 10 V		
ON / OFF supply voltage inputs	High voltage 0 / 260 V AC	OFF : U < 24 V ON: U > 80 V		
	AC-1 (ohmic) 5 A			
Relay outputs SPDT	AC-15 (inductive)	3 A		
	U	Min. 24 V - Max. 230 V Low and high voltage must not be connected to the same output group		
	Can be used for loads that are frequently	Max. 240 V AC, Min. 48 V AC - Max. 0.5 A		
Solid state outputs	cut in and out e.g. unloaders, solenoid	Leak < 1 mA		
	valve	Max. 1 AKV		
	During transport	-40 – 70 °C		
Ambient temperature	During operation	-20 – 55 °C, 0 – 95% RH (non condensing) - No shock influences / vibrations		
	Material	PC / ABS		
Enclosure	Enclosure	IP10, VBG 4		
	Mounting	For mounting on wall or DIN rail		
Weight with screw terminals	Modules in100- / 200- / controller series	Approx. 200 g / 500 g / 600 g		
Approvals	Complies with EU low voltage directive and EMC requirements	LVD tested according to EN 60730 EMC tested - Immunity according to EN 61000-6-2, Emission according to EN 50081-1		
	UL file number	E166834		

Ordering

Туре	Language	Code no.
AK-PC 782A	English, German, French, Italian, Dutch, Spanish, Portuguese, Danish, Finnish, Russian, Chech, Polish, Chinese	080Z0192

Ordering Accessory - Extension modules and survey for inputs and outputs

Туре	Analog inputs	ON / OFF outputs		ON / OFF supply voltage (Dl signal)		Analog outputs	Stepper outputs	Module with switches	
	For sensors, pressure transmitters	Relay (SPDT)	Solid state	Low voltage (max. 80 V)	High voltage (max. 260 V)	0 -10 V d. c.	For valves with step control	For override of relay outputs	Code no.
Controller	11	4	4	-	_	-	-	_	-
AK-XM 101A	8	-	-	-	-	-	-	-	080Z0007
AK-XM 102A	-	-	-	8	-	-	-	-	080Z0008
AK-XM 102B	-	-	-	-	8	-	-	-	080Z0013
AK-XM 103A	4	-	-	-	-	4	-	-	080Z0032
AK-XM 204A	-	8	-	-	-	-	-	-	080Z0011
AK-XM 204B	-	8	-	-	-	-	-	х	080Z0018
AK-XM 205A	8	8	-	-	-	-	-	-	080Z0010
AK-XM 205B	8	8	-	-	-	-	-	х	080Z0017
AK-XM 208C	8	-	-	-	-	-	4	-	080Z0023
Software									
AK-ST 500	Software for operation of AK controllers							080Z0161	
Remote dis	plays								
EKA 163B	Display unit							084B8574	
EKA 164B	Display unit with operation buttons						084B8575		
MMIGRS2	Graphic display with operation						080G0294		
Miscellaneo	ous								
AK-CM 102	IM 102 Communication modules for controllers where modules cannot be connected continuously						080Z0064		