

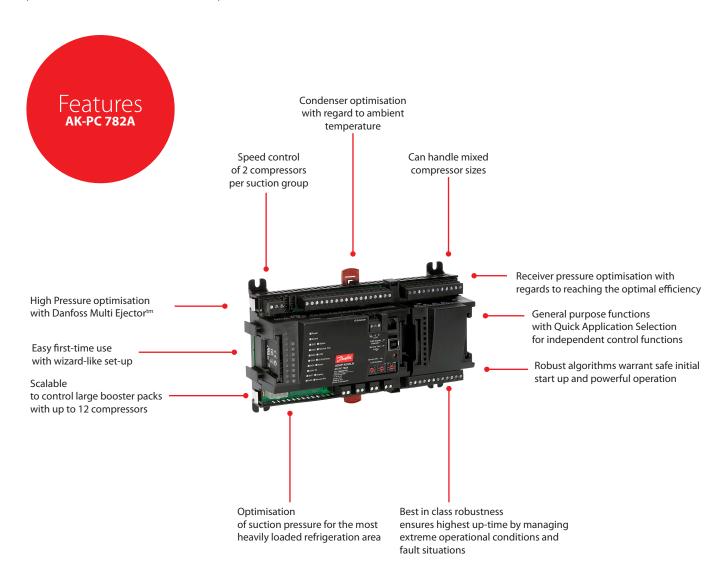
Data sheet

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.



Facts

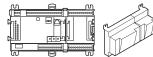
- One controller for the entire CO₂ booster pack
- High pressure control
- Danfoss Multi Ejectortm control
- Parallel compressor control
- Heat recovery functions
- Floating receiver pressure controlBuilt in RS485 Lon communication
- Oil system pressurisation and flow management



Technical data and ordering

AK-PC 782A, Capacity controller

Technical data



Features	Description						
Supply voltage	24 V DC / AC ± 20%						
Power consumption	8 V A						
	Di 1000 de la 70.95	Dissolution: 0.1 °C					
	Pt 1000 ohm / 0 °C	Accuracy: ± 0.5 ℃					
	Pressure transmitter type AKS 32R / AKS 2050 / AKS 32 (1 – 5 V)	Dissolution 1 mV					
Analogue inputs		Accuracy ± 10 mV					
	AIG 3211/ AIG 2030 / AIG 32 (1 - 3 V)	Max. connection of 5 pressure transmitters on one module					
		On at R < 20 ohm					
	Contact function (ON / OFF)	Off at R > 2K ohm					
		(Gold plated contacts not necessary)					
	Low voltage	OFF: U < 2 V					
ON / OFF supply voltage inputs	0/80 V AC / DC	ON: U > 10 V					
ON / OFF supply voltage inputs	High voltage	OFF: U < 24 V					
	0 / 260 V AC	ON: U > 80 V					
Relay outputs SPDT	AC-1 (ohmic)	5 A					
	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					
Solid state outputs	Can be used for loads that are frequently	Max. 240 V AC, Min. 48 V AC - Max. 0.5 A					
	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					
Enclosure	Material	PC / ABS					
	Enclosure	IP10, VBG 4					
	Mounting	For mounting on wall or DIN rail					
Weight with screw terminals	Modules in 100- / 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					
	UL file number	E166834					
	or me number	L100034					

Ordering

Туре	Language	Code no.
AK-PC 782A	Fnglish, German, French, Italian, Dutch, Spanish, Portuguese, Danish, Finnish, Russian, Chech, Polish, Chinese	08070192

Ordering Accessory - Extension modules and survey for inputs and outputs

Туре	Analog inputs	ON / OFF outputs		ON / OFF supply voltage (DI 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	_	-	_	-	-	X	080Z0018	
AK-XM 205A	8	8	-	-	-	-	-	-	080Z0010	
AK-XM 205B	8	8	-	-	_	-	-	X	080Z0017	
AK-XM 208C	8	-	-	-	-	-	4	-	080Z0023	
Software										
AK-ST 500	Software for operation of AK controllers									
Remote disp	olays									
EKA 163B	Display unit									
EKA 164B	Display unit with operation buttons									
MMIGRS2	Graphic display with operation									
Miscellaneo	us									
AK-CM 102	Communication modules for controllers where modules cannot be connected continuously									