

Danfoss



State of the Art – in Mobile Refrigeration

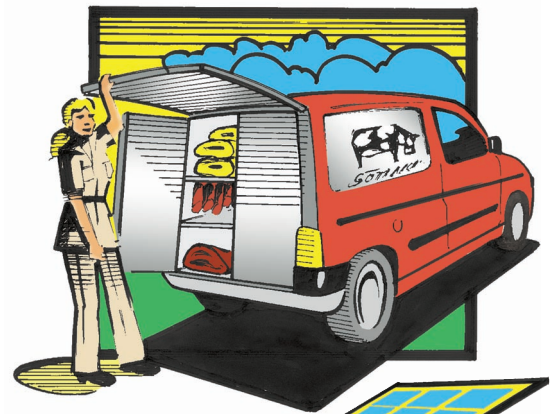
Tailored for People in Motion

Intelligent control

The BD35F/50F/80F and BD150F series 12 V and 24 V are direct current dual voltage compressors for refrigerant R134a. They can be used for both refrigerators and freezers. The compressor is controlled by an electronic unit including protection against overload and destructive battery discharge. The unit also features an internal voltage recording as well as calibration to the applied voltage (compressor monitoring).


Superior performance strengthens food safety

As people go mobile, so does food. The superior performance of the BD series safeguards food preservation by completing the vital refrigeration chain in the last link on vans and pickup trucks – unaffected by vibrations. Offers a full program for solar applications.



BD50F
12/24V DC
LBP/MBP
R134a

Danfoss **101Z**



1220
MADE IN GERMANY

Danfoss
BD50F
12/24V DC
THERMALLY
PROTECTED
SYSTEM

Efficient and reliable operation under extreme conditions.



Lasting performance thanks to minimum energy consumption.



Low weight makes the unit portable beyond traditional limits.



Silent operation, barely perceptible even to sensitive ears.



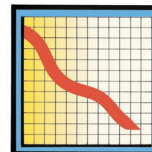
Ideal for solar energy supply thanks to an extensive voltage rate.



Compact design with integrated electronic control fits in virtually anywhere.



Energy optimisation function built in.



The extended BD series combines the lessons we learned »on the road« with more than 25 years of experience in mobile refrigeration.

Performance data BD35F 12 V d.c.

Capacity (CECOMAF)

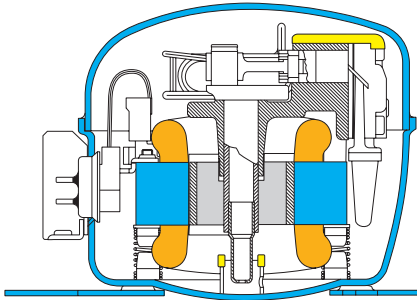
Watt

RPM/°C	-30	-25	-23.3	-20	-15	-10	-5	0	5	10
2,000	15.8	23.9	26.9	33.1	43.8	56.6	71.7	89.9	111	136
2,500	20.2	29.9	33.5	41.2	54.6	70.7	89.7	112	139	
3,000	22.5	32.4	36.5	45.4	61.8	81.7	105	133		
3,500	26.2	35.9	40.4	50.5	69.8	93.6	122			

Power consumption

Watt

RPM/°C	-30	-25	-23.3	-20	-15	-10	-5	0	5	10
2,000	17.6	23.4	25.3	28.7	33.6	38.3	43.0	48.0	53.4	59.5
2,500	23.3	30.9	33.3	37.8	44.1	50.2	56.2	62.3	68.7	
3,000	29.9	36.0	38.3	43.0	50.7	58.7	66.8	74.8		
3,500	36.0	42.8	45.4	50.8	59.5	68.5	78.5			



Performance data BD50F 12 V d.c.

Capacity (CECOMAF)

Watt

RPM/°C	-30	-25	-23.3	-20	-15	-10	-5	0	5	10
2,000	20.1	31.0	34.9	42.8	56.3	72.2	91.6	115	144*	178*
2,500	27.0	39.0	43.4	52.7	68.9	88.9	113	144*	181*	
3,000	31.0	45.4	50.6	61.5	80.7	104	134*	171*		
3,500	38.1	53.2	59.1	71.9	95.0	124*	159*			

Power consumption

Watt

RPM/°C	-30	-25	-23.3	-20	-15	-10	-5	0	5	10
2,000	25.1	31.8	34.0	38.2	44.7	51.3	58.3	65.8	74.2*	83.5*
2,500	34.1	40.5	42.9	47.8	55.8	64.7	74.3	84.8*	96.1*	
3,000	39.9	49.2	52.2	57.8	66.5	76.4	88.4*	104*		
3,500	50.2	59.3	62.5	69.0	80.2	93.4*	109*			

* Fan cooling of electronic unit compulsory

Performance data BD80F 12 V d.c.

Capacity (EN12900/CECOMAF)

Watt

RPM/°C	-30	-25	-23.3	-20	-15	-10	-5			
2,500	35.3	49.5	55.0	66.6	87.1	112	140			
3,100	41.8	59.0	65.6	79.6	104	133	168			
3,800	49.6	70.5	78.5	95.3	125	159	200			
4,400	54.8	78.0	86.7	105	138	176	221			

Power consumption

Watt

RPM/°C	-30	-25	-23.3	-20	-15	-10	-5			
2,000	40.0	50.0	53.4	60.3	71.3	83.1	96			
2,500	48.7	61.2	65.4	73.8	87.0	101	118			
3,000	59.5	75.0	80.2	90.3	106	124	145			
4,000	69.0	87.0	93.0	105	123	144	168			

Performance data BD150F 12 V d.c.

Capacity (EN12900/CECOMAF)

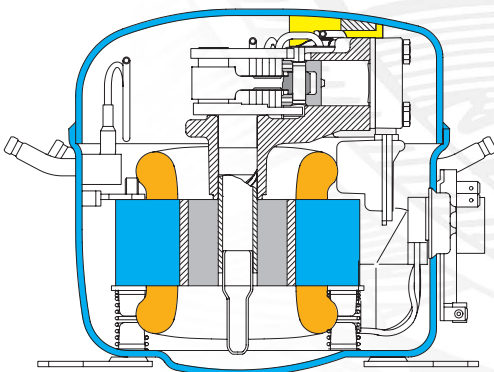
Watt

RPM/°C	-35	-30	-25	-23.3	-20	-15	-10			
2,000	47.5	66.2	90.0	99.3	120	156	190			
2,500	56.3	80.7	111	122	147	192	245			
3,000	64.2	92.8	128	141	171	222	284			
4,000	78.3	111	153	170	205	269	345			

Power consumption

Watt

RPM/°C	-35	-30	-25	-23.3	-20	-15	-10			
2,000	51.8	64.6	78.3	83.3	93.1	109	125			
2,500	63.0	79.8	97.6	104	116	136	156			
3,000	74.2	94.2	115	123	137	161	185			
4,000	96.2	120	146	155	174	203	235			



Code nos.

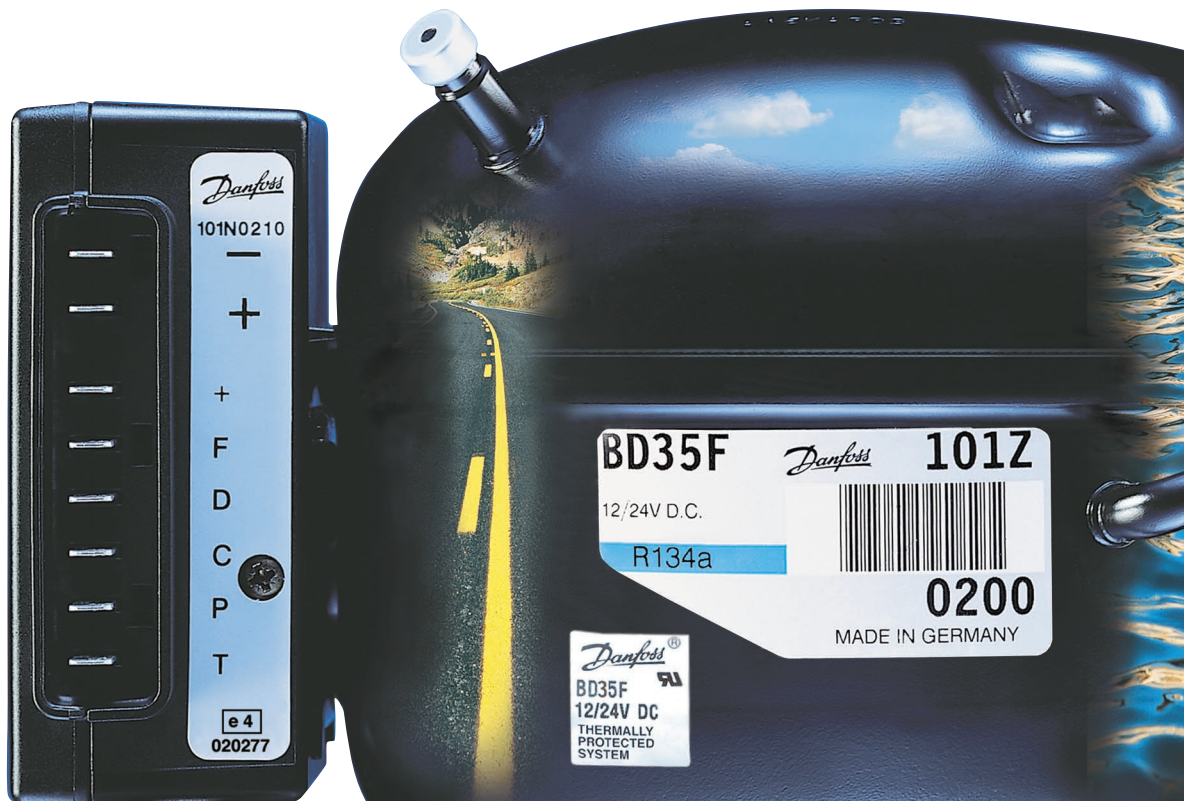
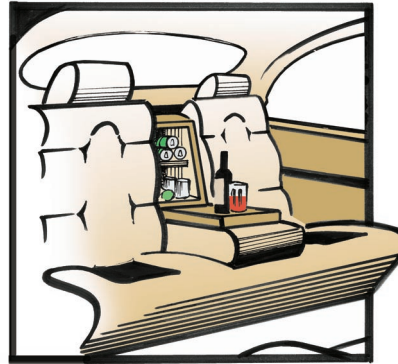
Compressor BD35F	101Z0200	Standard electronic unit BD 35F/50F
Compressor BD50F	101Z1220	- single pack
Compressor BD80F	101Z0280	BD80F
Compressor BD150F	102G4784	BD150F
		101N0210
		101N0280
		105N4220

Everybody wants to bring the comforts of modern life with them when leaving home. Danfoss has made it easier than ever



With our new and greatly improved direct current compressors for trucks, cars, boats, etc., we have transcended the barriers for mobile refrigeration applications. Never before have compressors been this efficient, used less energy and taken up less space.

And never have they run more reliably under harsh conditions – while not making the slightest noise about it.





Leading the field

The unique technology applied in the BD series of compressors for mobile refrigeration is brought about by people who are not only innovative, but also second-to-none as regards market knowledge. More than 25 years of developing direct current compressors have taught us the requirements of our customers – and their customers.

Our technological leadership is superior and further strengthened by our half century experience in household refrigeration. All within the framework of the Danfoss Group, a truly global player with manufacturing, sales and service activities in more than 120 countries worldwide.



Danfoss Compressors GmbH

Mads-Clausen-Strasse 7
Postfach 1443, D-24939 Flensburg
Telefon: (0461) 4941-0
International 049 461 4941-0
Telefax: +49 461 44715
Telex: 227 43 dancom d