

BD-P

BD35/50/80F | BD250GH.2
BD35F-HD.2 | BD35F-B
BD35/50K | BD80/100CN
BD250GH.2/-HD.2 (48 V)



Compressors	Code number	Description
BD35F	101Z0200	standard compressor, mm tube connectors
BD35F inch	101Z0204	same as 101Z0200, inch tube connectors
BD35F-B	101Z0205	optimized for rough vehicle motions (especially in buses), mm tube connectors
BD35F-HD.2	101Z0216	heavy duty version which can handle extreme vibrations, mm tube connectors
BD35K (R600a)	101Z0211	mainly solar applications, mm tube connectors
BD35K-B (R600a)	101Z0214	optimized for rough vehicle motions (especially in buses), other HD applications, mm tube connectors
BD50K (R600a)	101Z0213	standard compressor, mm tube connectors
BD50F	101Z1220	standard compressor, mm tube connectors
BD50F inch	101Z0203	same as 101Z1220, inch tube connectors
BD80F	101Z0280	standard compressor, mm tube connectors
BD250GH.2	101Z0406	mm tube connectors, HBP compressor
BD80CN (R290)	101Z0403	mm tube connectors
BD100CN (R290)	101Z0401	mm tube connectors
BD250GH.2 48 V DC supply	101Z0405	for telecommunication applications (battery cooling), mm tube connectors
BD250GH.2-HD 48 V DC supply	101Z0410	for cooling and comfort cooling in trucks and vans, mm tube connectors

Electronic Unit Single Pack	Code number	Description
Standard	101N0242	for BD35F/BD50F/BD35K/BD80CN, speed setting, battery protection, ECO function, high starting torque (HST), reduced EMI and leakage current
AEO	101N0340	for BD35F/BD50F/BD80CN, Adaptive Energy Optimization
High speed	101N0390	for BD50K/BD80F/BD250GH.2/etc., Adaptive Energy Optimization, speed setting, battery protection
Solar 10-45 V DC	101N0420	for BD35F/BD50F/BD35K/BD80CN, optimized for direct solar panel operation, speed setting
AC/DC converter	101N0510	for BD35F/BD50F/BD35K/BD80CN speed setting, battery protection, integrated AC/DC converter
Automotive	101N0680	for BD35F/BD50F/BD35K/BD80CN, speed setting, battery protection, ECO function, high starting torque (HST), reduced EMI and leakage current
Telecom 48 V DC	101N0732	for BD250GH.2/-HD (48 V), 60 W fan output, ECO function

Electronic Unit I – Pack	Code number	Description
Standard	101N0243	for BD35F/BD50F/BD35K/BD80CN, speed setting, battery protection, ECO function, high starting torque (HST), reduced EMI and leakage current, 30 pcs.
AEO	101N0341	for BD35F/BD50F/BD80CN, Adaptive Energy Optimization, 30 pcs.
High speed	101N0391	for BD80F/BD250GH.2/etc., Adaptive Energy Optimization, speed setting, battery protection, 30 pcs.
Solar 10-45 V DC	101N0421	for BD35F/BD50F/BD35K/BD80CN, optimized for direct solar panel operation, speed setting, 30 pcs.
AC/DC converter	101N0511	for BD35F/BD50F/BD35K/BD80CN, speed setting, battery protection, integrated AC/DC converter, 28 pcs.
Automotive	101N0681	for BD35F/BD50F/BD35K/BD80CN, speed setting, battery protection, ECO function, high starting torque (HST), reduced EMI and leakage current 30 pcs.
Telecom 48 V DC	101N0733	for BD250GH.2/-HD (48 V), 36 pcs.

	Item	Code number	Description
Electrical (cables, sensors, etc.)	48 V DC line cord, 900 mm, 6mm ²	105N9542	accessories
	48 V DC line cord, 2000 mm, 6 mm ²	105N9540	accessories
	48 V DC line cord, 5000 mm, 6 mm ²	105N9538	accessories
	Temperature sensor, 470 mm, spade connectors	105N9612	accessories
	Temperature sensor, 1000 mm, spade connectors	105N9614	accessories
	Temperature sensor, 1500 mm, spade connectors	105N9616	accessories
	Remote kit with cable	105N9100	bracket, cover, 750 mm cable with two plugs
	Remote kit without cable	105N9210	bracket, cover, two plugs
	Secop One Wire/LIN gateway with cables	105N9518	accessories

Electrical (cables, sensors, etc.)	Communication cable, 1500 mm, AMP connector	105N9545	accessories, 100 pcs.
	Communication cable, 3000 mm, AMP connector	105N9547	accessories, 50 pcs.
	48 V DC line cord, 900 mm, 6 mm ²	105N9543	accessories, 36 pcs.
	48 V DC line cord, 2000 mm, 6 mm ²	105N9541	accessories, 36 pcs.
	48 V DC line cord, 5000 mm, 6 mm ²	105N9539	accessories, 36 pcs.
	Temperature sensor, 470 mm, spade connectors	105N9613	accessories, 200 pcs.
	Temperature sensor, 1000 mm, spade connectors	105N9615	accessories, 100 pcs.
	Temperature sensor, 1500 mm, spade connectors	105N9617	accessories, 100 pcs.
	Temperature sensor, 400 mm, AMP connector	105N9611	accessories, 200 pcs.
	Remote kit without cable	105N9200	bracket, cover and two plugs, 200 pcs.

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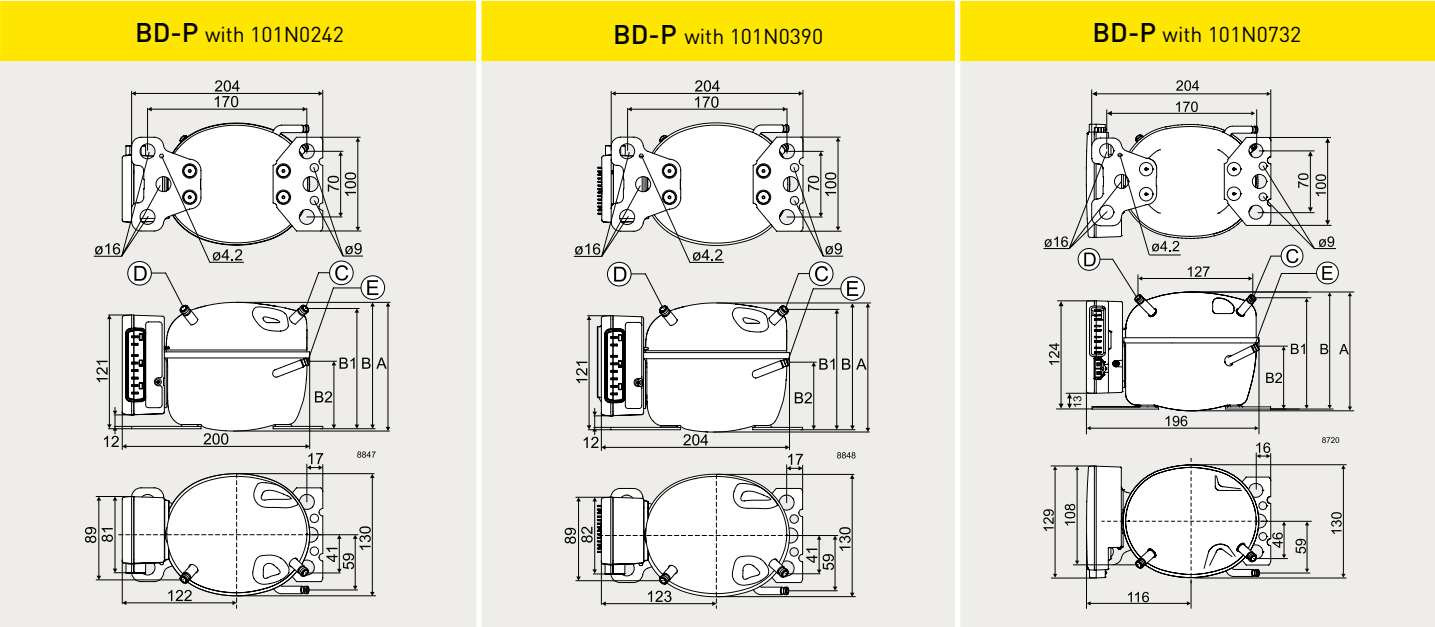
Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]							ASHRAE						Displacement	Compressor Cooling (refer to data sheet)
										LBP rating point -23.3°C / 54.4°C		MBP rating point -6.7°C / 54.4°C		HBP rating point 7.2°C / 54.4°C			
			-35	-15	-5	0	10	15	Cooling capacity [W]	COP [W/W]	Cooling capacity [W]	COP [W/W]	Cooling capacity [W]	COP [W/W]			
															[cm³]		
BD35F 2000 rpm	101Z0200	L/M/HBP	–	55	90	112	169	–	33	1.36	74	1.87	135	2.51	2.00	S	
BD35F 3500 rpm	101Z0200	L/M/HBP	–	87	153	–	–	–	51	1.16	125	1.74	–	–	2.00	S	
BD35F 2000 rpm	101Z0204	L/M/HBP	–	55	90	112	169	–	33	1.36	74	1.87	135	2.51	2.00	S	
BD35F 3500 rpm	101Z0204	L/M/HBP	–	87	153	–	–	–	51	1.16	125	1.74	–	–	2.00	S	
BD35F-B 2000 rpm	101Z0205	L/M/HBP	–	55	90	112	169	–	33	1.36	74	1.87	135	2.51	2.00	S	
BD35F-B 3500 rpm	101Z0205	L/M/HBP	–	87	153	–	–	–	51	1.16	125	1.74	–	–	2.00	S	
BD35F-HD.2 2000 rpm	101Z0216	L/M/HBP	–	55	90	112	169	–	33	1.36	74	1.87	135	2.51	2.00	S	
BD35F-HD.2 3500 rpm	101Z0216	L/M/HBP	–	87	153	–	–	–	51	1.16	125	1.74	–	–	2.00	S	
BD50F 2000 rpm	101Z1220	L/M/HBP	–	69	114	141	204	–	42	1.24	94	1.72	165	2.14	2.50	S	
BD50F 3500 rpm	101Z1220	L/M/HBP	–	117	194	–	–	–	72	1.18	160	1.62	–	–	2.50	S	
BD50F 2000 rpm	101Z0203	L/M/HBP	–	69	114	141	204	–	42	1.24	94	1.72	165	2.14	2.50	S	
BD50F 3500 rpm	101Z0203	L/M/HBP	–	117	194	–	–	–	72	1.18	160	1.62	–	–	2.50	S	
BD80F 2500 rpm	101Z0280	LBP	–	108	174	–	–	–	69	1.34	144	1.65	–	–	3.00	S	
BD80F 4400 rpm	101Z0280	LBP	–	170	274	–	–	–	107	1.20	227	1.49	–	–	3.00	S	
BD250GH.2 2500 rpm	101Z0406	L/M/HBP	–	81	137	174	273	337	46	1.07	113	1.94	216	2.79	2.50	S	
BD250GH.2 4400 rpm	101Z0406	L/M/HBP	–	158	259	321	477	574	91	1.16	214	1.77	382	2.75	2.50	S	
BD250GH.2 2500 rpm	101Z0405	L/M/HBP	–	80	137	175	273	334	50	1.14	112	1.67	216	2.62	2.50	F1	
BD250GH.2 4400 rpm	101Z0405	L/M/HBP	–	156	259	324	486	585	93	1.16	214	1.77	389	2.43	2.50	F1	
BD250GH.2-HD 2500 rpm	101Z0410	L/M/HBP	–	80	137	175	273	334	50	1.14	112	1.67	216	2.62	2.50	F1	
BD250GH.2-HD 4400 rpm	101Z0410	L/M/HBP	–	156	259	324	486	585	93	1.16	214	1.77	389	2.43	2.50	F1	

-HD = optimized for rough vehicle motions
-B = optimized for rough vehicle motions, especially in buses

Please refer to the individual compressor data sheets for the complete application range.

Compressor	Electronic unit							
	Code number	Standard 12-24 V DC 101N0242	High Speed 12-24 V DC 101N0390	AEO 12-24 V DC 101N0340	Solar 10-45 V DC 101N0420	AC/DC converter 12-24 V DC & 100-240 V AC 101N0510	Automotive 12-24 V DC 101N0680	Telecom 48 V DC 101N0732
BD35F	101Z0200	✓	-	✓	✓	✓	✓	-
BD35F (inch con.)	101Z0204	✓	-	✓	✓	✓	✓	-
BD35F-B	101Z0205	✓	-	✓	-	✓	✓	-
BD35F-HD.2	101Z0216	✓	-	✓	-	-	✓	-
BD50F	101Z1220	✓	-	✓	-	✓	✓	-
BD50F (inch con.)	101Z0203	✓	-	✓	-	✓	✓	-
BD80F	101Z0280	-	✓	-	-	-	-	-
BD250GH.2	101Z0406	-	✓	-	-	-	-	-
BD250GH.2 (48V)	101Z0405	-	-	-	-	-	-	✓
BD250GH.2-HD (48V)	101Z0410	-	-	-	-	-	-	✓

CECOMAF Capacity [W] Tc=55°C, Tliq=55°C, Tsuc=32°C Evaporating temperature [°C]						CECOMAF						Dimensions					Voltage range (refer to data sheet)
						LBP rating point -25°C / 55°C		MBP rating point -10°C / 55°C		HBP rating point 5°C / 55°C		Height [mm]		Connectors location/I.D. [mm]			
-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP	A	B	Suction	Process	Discharge	
						[W]	[W/W]	[W]	[W/W]	[W]	[W/W]			C [I.D.]	D [I.D.]	E [I.D.]	
-	44	72	90	136	-	24	1.04	57	1.54	111	2.15	137.0	135.0	6.20	6.20	5.00	9.6-17, 21.3-31.5 V DC 100-240 V, 50/60 Hz 10-45 V DC solar
-	70	122	-	-	-	36	0.87	94	1.42	-	-	137.0	135.0	6.20	6.20	5.00	
-	44	72	90	136	-	24	1.04	57	1.54	111	2.15	137.0	135.0	6.50	6.50	5.00	9.6-17, 21.3-31.5 V DC 100-240 V, 50/60 Hz 10-45 V DC solar
-	70	122	-	-	-	36	0.87	94	1.42	-	-	137.0	135.0	6.50	6.50	5.00	
-	44	72	90	136	-	24	1.04	57	1.54	111	2.15	137.0	135.0	6.20	6.20	5.00	9.6-17, 21.3-31.5 V DC 100-240 V, 50/60 Hz
-	70	122	-	-	-	36	0.87	94	1.42	-	-	137.0	135.0	6.20	6.20	5.00	
-	44	72	90	136	-	24	1.04	57	1.54	111	2.15	137.0	135.0	6.20	6.20	5.00	9.6-17, 21.3-31.5 V DC
-	70	122	-	-	-	36	0.87	94	1.42	-	-	137.0	135.0	6.20	6.20	5.00	
-	56	92	114	165	-	30	0.95	73	1.43	138	1.87	137.0	135.0	6.20	6.20	5.00	9.6-17, 21.3-31.5 V DC 100-240 V, 50/60 Hz
-	95	157	-	-	-	52	0.92	123	1.35	-	-	137.0	135.0	6.20	6.20	5.00	
-	56	92	114	165	-	30	0.95	73	1.43	138	1.87	137.0	135.0	6.50	6.50	5.00	9.6-17, 21.3-31.5 V DC 100-240 V, 50/60 Hz
-	95	157	-	-	-	52	0.92	123	1.35	-	-	137.0	135.0	6.50	6.50	5.00	
-	87	140	-	-	-	50	1.04	112	1.40	-	-	137.0	135.0	6.20	6.20	5.00	9.6-17, 21.3-31.5 V DC
-	138	221	-	-	-	78	0.94	176	1.27	-	-	137.0	135.0	6.20	6.20	5.00	
-	65	110	140	218	270	32	0.77	86	1.57	176	2.36	137.0	135.0	6.20	6.20	5.00	9.6-17, 21.3-31.5 V DC
-	128	209	259	383	460	62	0.85	166	1.43	316	2.31	137.0	135.0	6.20	6.20	5.00	
-	64	110	141	219	268	37	0.88	85	1.33	177	2.19	137.0	135.0	6.20	6.20	5.00	32-60 V DC
-	126	209	261	391	470	67	0.88	165	1.44	321	2.10	137.0	135.0	6.20	6.20	5.00	
-	64	110	141	219	268	37	0.88	85	1.33	177	2.19	137.0	135.0	6.20	6.20	5.00	32-60 V DC
-	126	209	261	391	470	67	0.88	165	1.44	321	2.10	137.0	135.0	6.20	6.20	5.00	



BD-P R1234yf



Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE						Displacement	Compressor Cooling [refer to data sheet]
									LBP rating point -23.3°C / 54.4°C		MBP rating point -6.7°C / 54.4°C		HBP rating point 7.2°C / 54.4°C			
			-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP		
									[W]	[W/W]	[W]	[W/W]	[W]	[W/W]		
BD35F 2000 rpm	101Z0200	L/M/HBP	–	59	94	114	163	–	36	1.41	76	1.88	130	2.43	2.00	S
BD35F 3500 rpm	101Z0200	L/M/HBP	–	91	152	–	–	–	57	1.20	123	1.68	–	–	2.00	S
BD35F 2000 rpm	101Z0204	L/M/HBP	–	59	93	114	163	–	36	1.41	76	1.88	130	2.43	2.00	S
BD35F 3500 rpm	101Z0204	L/M/HBP	–	91	152	–	–	–	57	1.20	123	1.68	–	–	2.00	S
BD35F-B 2000 rpm	101Z0205	L/M/HBP	–	59	93	114	163	–	36	1.41	76	1.88	130	2.43	2.00	S
BD35F-B 3500 rpm	101Z0205	L/M/HBP	–	91	152	–	–	–	57	1.20	123	1.68	–	–	2.00	S
BD35F-HD.2 2000 rpm	101Z0216	L/M/HBP	–	59	93	114	163	–	36	1.41	76	1.88	130	2.43	2.00	S
BD35F-HD.2 3500 rpm	101Z0216	L/M/HBP	–	91	152	–	–	–	57	1.20	123	1.68	–	–	2.00	S
BD50F 2000 rpm	101Z1220	L/M/HBP	–	73	116	141	201	–	46	1.33	95	1.68	161	2.10	2.50	S
BD50F 3500 rpm	101Z1220	L/M/HBP	–	128	202	–	–	–	82	1.29	165	1.62	–	–	2.50	S
BD50F 2000 rpm	101Z0203	L/M/HBP	–	73	116	141	201	–	46	1.33	95	1.68	161	2.10	2.50	S
BD50F 3500 rpm	101Z0203	L/M/HBP	–	128	202	–	–	–	82	1.29	165	1.62	–	–	2.50	S

-HD = optimized for rough vehicle motions
-B = optimized for rough vehicle motions, especially in buses

Please refer to the individual compressor data sheets for the complete application range.

CECOMAF Capacity [W] Tc=55°C, Tliq=55°C, Tsuc=32°C Evaporating temperature [°C]						CECOMAF						Dimensions					Voltage range (refer to data sheet)
						LBP rating point -25°C / 55°C		MBP rating point -10°C / 55°C		HBP rating point 5°C / 55°C		Height [mm]		Connectors location/I.D. [mm]			
-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP	A	B	Suction C (I.D.)	Process D (I.D.)	Discharge E (I.D.)	
						[W]	[W/W]	[W]	[W/W]	[W]	[W/W]						
-	45	72	88	125	-	24.8	1.08	58	1.52	105	2.04	137.0	135.0	6.20	6.20	5.00	9.6-17, 21.3-31.5 V DC 100-240 V, 50/60 Hz 10-45 V DC solar
-	70	116	-	-	-	39.3	0.92	91	1.34	-	-	137.0	135.0	6.20	6.20	5.00	
-	45	72	88	125	-	24.8	1.08	58	1.52	105	2.04	137.0	135.0	6.50	6.50	5.00	9.6-17, 21.3-31.5 V DC 100-240 V, 50/60 Hz 10-45 V DC solar
-	70	116	-	-	-	39.3	0.92	91	1.34	-	-	137.0	135.0	6.50	6.50	5.00	
-	45	72	88	125	-	24.8	1.08	58	1.52	105	2.04	137.0	135.0	6.20	6.20	5.00	9.6-17, 21.3-31.5 V DC 100-240 V, 50/60 Hz
-	70	116	-	-	-	39.3	0.92	91	1.34	-	-	137.0	135.0	6.20	6.20	5.00	
-	45	72	88	125	-	24.8	1.08	58	1.52	105	2.04	137.0	135.0	6.20	6.20	5.00	9.6-17, 21.3-31.5 V DC
-	70	116	-	-	-	39.3	0.92	91	1.34	-	-	137.0	135.0	6.20	6.20	5.00	
-	57	90	109	155	-	32.3	0.98	72	1.38	131	1.78	137.0	135.0	6.20	6.20	5.00	9.6-17, 21.3-31.5 V DC 100-240 V, 50/60 Hz
-	99	156	-	-	-	57.6	0.96	125	1.33	-	-	137.0	135.0	6.20	6.20	5.00	
-	57	90	109	155	-	32.3	0.98	72	1.38	131	1.78	137.0	135.0	6.50	6.50	5.00	9.6-17, 21.3-31.5 V DC 100-240 V, 50/60 Hz
-	99	156	-	-	-	57.6	0.96	125	1.33	-	-	137.0	135.0	6.50	6.50	5.00	

Compressor	Electronic unit					
	Code number	Standard 12-24 V DC 101N0242	AEO 12-24 V DC 101N0340	Solar 10-45 V DC 101N0420	AC/DC converter 12-24 V DC & 100-240 V AC 101N0510	Automotive 12-24 V DC 101N0680
BD35F	101Z0200	✓	✓	✓	✓	✓
BD35F (inch con.)	101Z0204	✓	✓	✓	✓	✓
BD35F-B	101Z0205	✓	✓	-	✓	✓
BD35F-HD.2	101Z0216	✓	✓	-	-	✓
BD50F	101Z1220	✓	✓	-	✓	✓
BD50F (inch con.)	101Z0203	✓	✓	-	✓	✓

