

B52CL Technical Data Sheet

Compressor model **B52CL**
 Voltage **220-240V 50/60Hz ~1**
 Refrigerant **R600a**

APPLICATION

Application Low Back Pressure
 Refrigerant R600a
 Evaporating Temp. -35,0 °C to -15,0 °C
 Expansion Capillar
 Comp. Cooling Static
 Max. ambient temp. 43,0 °C

COMPRESSOR

Displacement 5,20 cm³
 Diameter 21,00 mm
 Stroke 15,20 mm
 Net Weight 4,60 Kg
 Oil type ISO VG 10 MINER
 Oil charge 120 cm³

MOTOR

Nominal Power 1/10 hp
 Voltage/Frequency 220-240V 50Hz
 Voltage range 187-255 V
 Type RSIR
 Phase number 1 PH
 Locked Rotor Amps (LRA) 3,60 A
 Max. Cont. Current (MCC) 0,94 A
 Main W. resist. at 25°C 32,04 Q
 Start W. resist. at 25°C 15,10 Q

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	69 kCal/h	60 W
COP	1,16 W/W	0,91 W/W
EER	1,00 kCal/Wh	0,79 kCal/Wh
Input Power	69 W	66 W
Current	0,74 A	0,72 A

TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T _e)	-23,3 °C	-25,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	32,0 °C	55,0 °C
Ambient temp. (T _{amb.})	32,0 °C	32,0 °C
Suction temp. (T _{suction})	32,0 °C	32,0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

	Option 1	Option 2		
Relay				
Reference	JPQII-15 (019)	QP2-15 (019)		
Voltage	V	V		
Resistance	Q	Q		
Protector			Option 3	
Reference	BT37-120 (126)	BT37-120A61D3 (126)	DRB15N61A1 (126)	
Current	3,70 A	3,70 A	3,70 A	
Time check	7-16 seg	7-16 seg	7-16 seg	
Disc temp. (Open/Close)	120,00 / 61,00 °C	120,00 / 61,00 °C	120,00 / 61,00 °C	

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ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	43	50	0,61	1,00	0,86
40	-30	56	56	0,65	1,15	0,99
40	-25	72	64	0,70	1,32	1,14
40	-23,3	79	66	0,72	1,38	1,19
40	-20	93	72	0,76	1,51	1,30
40	-15	117	80	0,82	1,70	1,46
40	-10	146	90	0,89	1,89	1,62

45	-35	41	50	0,61	0,95	0,81
45	-30	53	57	0,66	1,08	0,93
45	-25	69	64	0,71	1,25	1,07
45	-23,3	76	67	0,73	1,31	1,13
45	-20	89	73	0,77	1,43	1,23
45	-15	114	82	0,83	1,61	1,38
45	-10	142	92	0,90	1,79	1,54

50	-35	38	50	0,61	0,89	0,77
50	-30	50	57	0,66	1,02	0,88
50	-25	66	65	0,71	1,18	1,01
50	-23,3	72	68	0,73	1,23	1,06
50	-20	86	74	0,77	1,35	1,16
50	-15	110	84	0,84	1,52	1,31
50	-10	137	94	0,92	1,70	1,46

55	-35	36	50	0,61	0,84	0,72
55	-30	47	58	0,66	0,96	0,82
55	-25	63	66	0,72	1,11	0,95
55	-23,3	69	69	0,74	1,16	1,00
55	-20	82	75	0,78	1,27	1,09
55	-15	106	85	0,85	1,44	1,24
55	-10	133	96	0,93	1,61	1,39

60	-35	34	50	0,61	0,78	0,67
60	-30	45	58	0,66	0,90	0,77
60	-25	60	67	0,72	1,04	0,89
60	-23,3	66	70	0,75	1,09	0,94
60	-20	79	76	0,79	1,20	1,03
60	-15	102	87	0,86	1,36	1,17
60	-10	129	98	0,94	1,53	1,31

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	47	50	0,61	0,94	0,81
40	-30	62	56	0,65	1,10	0,95
40	-25	81	64	0,70	1,27	1,10
40	-23,3	88	66	0,72	1,33	1,15
40	-20	103	72	0,76	1,44	1,25
40	-15	129	80	0,82	1,61	1,39
40	-10	160	90	0,89	1,77	1,53

45	-35	43	50	0,61	0,86	0,74
45	-30	56	57	0,66	0,99	0,86
45	-25	74	64	0,71	1,15	0,99
45	-23,3	81	67	0,73	1,20	1,04
45	-20	95	73	0,77	1,31	1,13
45	-15	120	82	0,83	1,46	1,26
45	-10	149	92	0,90	1,62	1,40

50	-35	39	50	0,61	0,77	0,67
50	-30	51	57	0,66	0,89	0,77
50	-25	67	65	0,71	1,03	0,89
50	-23,3	73	68	0,73	1,08	0,93
50	-20	87	74	0,77	1,17	1,02
50	-15	111	84	0,84	1,32	1,14
50	-10	138	94	0,92	1,47	1,27

55	-35	35	50	0,61	0,69	0,60
55	-30	45	58	0,66	0,79	0,68
55	-25	60	66	0,72	0,91	0,79
55	-23,3	66	69	0,74	0,96	0,83
55	-20	79	75	0,78	1,05	0,91
55	-15	101	85	0,85	1,19	1,03
55	-10	127	96	0,93	1,33	1,15

60	-35	30	50	0,61	0,61	0,52
60	-30	40	58	0,66	0,69	0,60
60	-25	53	67	0,72	0,80	0,69
60	-23,3	59	70	0,75	0,84	0,73
60	-20	71	76	0,79	0,93	0,80
60	-15	92	87	0,86	1,06	0,91
60	-10	117	98	0,94	1,19	1,03

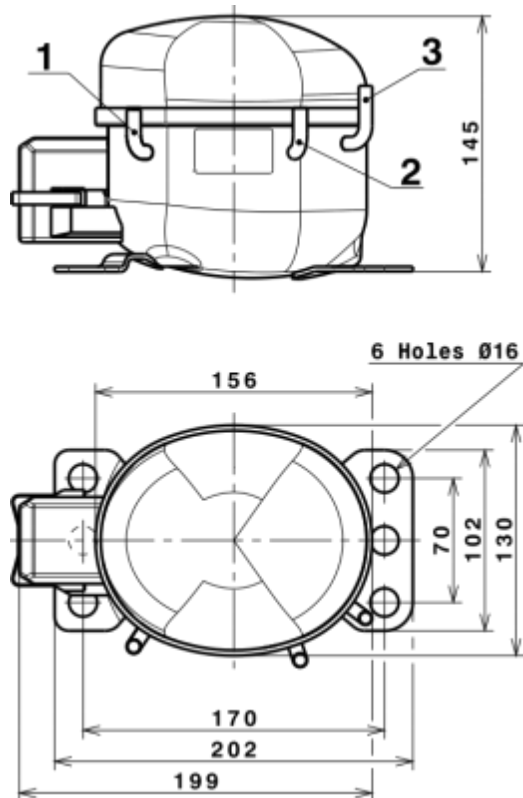
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	334,6557238115	91,3776242663	0,8978503571	3,3705665628203
2	9,8740593085	1,7391053257	0,0126245580	0,11073489489829
3	-2,7241207485	0,5725911697	0,0040904480	-0,013491269511352
4	0,0736586830	0,0167726212	0,0001315511	0,0010661266704037
5	-0,0539650762	0,0163597477	0,0001168699	-0,00021230799720862

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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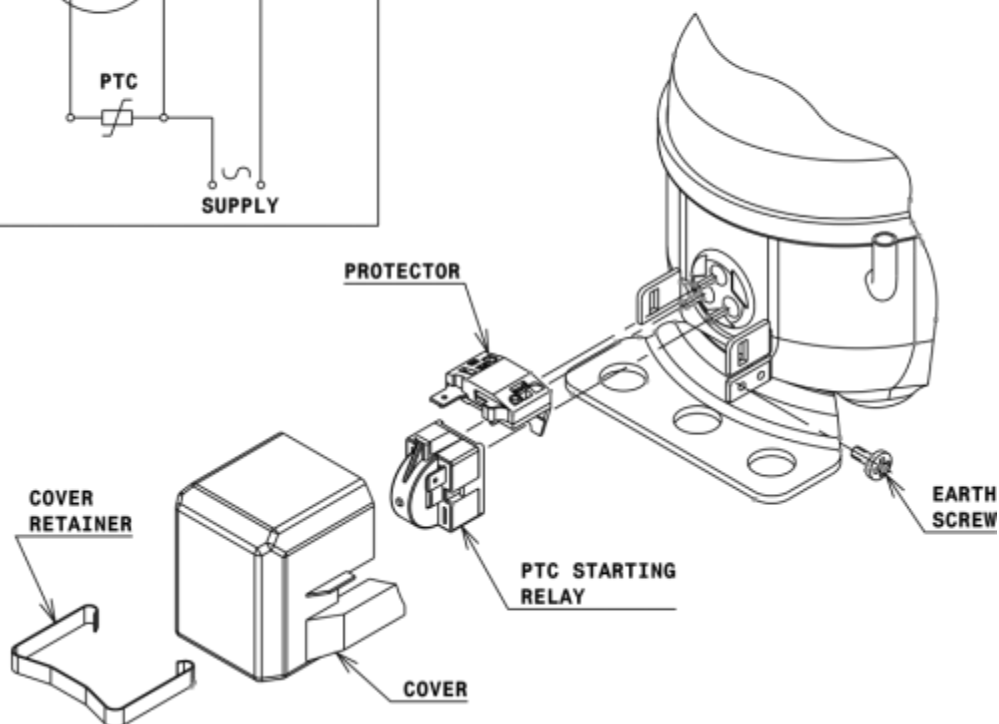
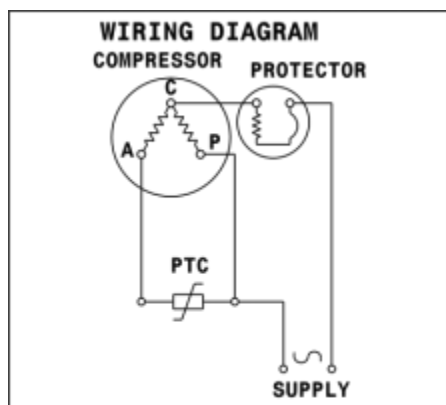
COMPRESSOR DIMENSIONS



	DESIGNATION	INTERNAL DIAM.
1	Suction	6,1 mm
2	Service	6,1 mm
3	Discharge	5,1 mm

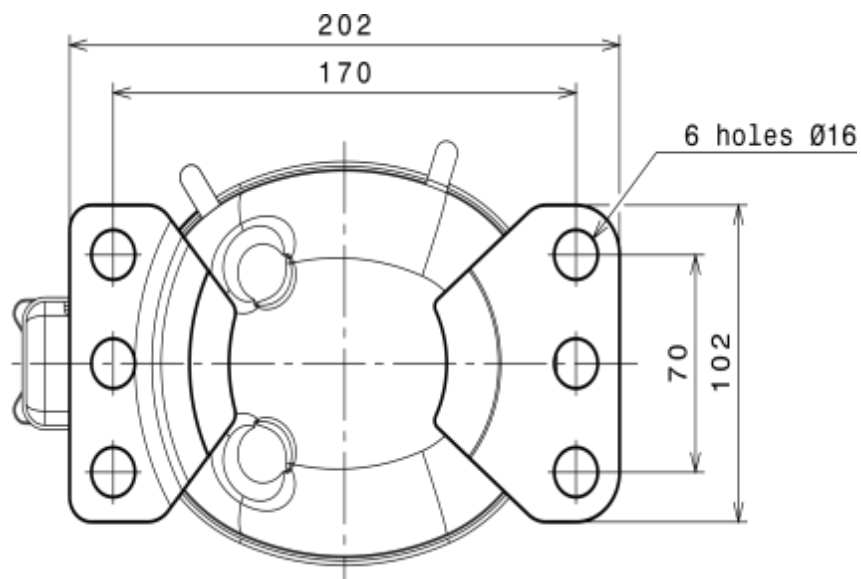
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSIR CONNECTION (PTC) (B, Small L ranges)



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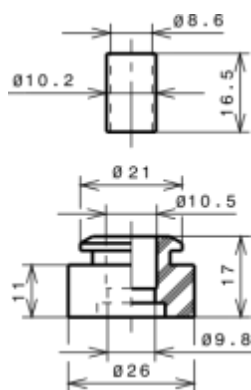
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø16 holes (170x70 net)



SOA

SOA R600a LBP

