

Technical Data Sheet

Compressor model **B65CL**
 Voltage **220-240V 50Hz ~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 6,50 cm³
 Diameter 21,00 mm
 Stroke 18,80 mm
 Net Weight 5,45 Kg
 Oil type ISO VG 10 MINER
 Oil charge 130 cm³

MOTOR

Nominal Power 1/8 hp
 Voltage/Frequency 220-240V 50Hz
 Voltage range 187-255 V
 Type RSIR
 Phase number 1 PH
 Locked Rotor Amps (LRA) 3,22 A
 Max. Cont. Current (MCC) 0,68 A
 Main W. resist. at 25°C 30,40 Ω
 Start W. resist. at 25°C 16,95 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	90 kCal/h	79 W
COP	1,40 W/W	1,10 W/W
EER	1,20 kCal/Wh	0,95 kCal/Wh
Input Power	75 W	72 W
Current	0,52 A	0,50 A

APPROVALS

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

Relay	Option 1			
Reference	JPQII-15			
Voltage	220-240 V			
Resistance	Ω			
Protector	Option 1			
Reference	BT30-125			
Current				
Time check				
Disc temp. (Open/Close)	125,00 / 61,00 °C			

This product is approved for R290 and R600a regarding explosion safety according to standard EN 60335-1 and EN 60335-2-34

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	57	55	0,43	1,21	1,04
40	-30	73	62	0,46	1,37	1,18
40	-25	95	70	0,50	1,58	1,36
40	-23,3	104	73	0,51	1,66	1,43
40	-20	122	78	0,54	1,81	1,56
40	-15	155	88	0,58	2,06	1,77
40	-10	194	98	0,64	2,30	1,98

45	-35	54	55	0,43	1,15	0,99
45	-30	70	62	0,46	1,30	1,12
45	-25	91	70	0,50	1,50	1,29
45	-23,3	99	73	0,51	1,57	1,35
45	-20	117	80	0,54	1,72	1,48
45	-15	150	89	0,59	1,95	1,67
45	-10	188	100	0,65	2,18	1,88

50	-35	51	54	0,43	1,09	0,94
50	-30	66	62	0,46	1,23	1,06
50	-25	86	71	0,50	1,41	1,21
50	-23,3	95	74	0,52	1,48	1,27
50	-20	112	81	0,55	1,62	1,39
50	-15	144	91	0,60	1,84	1,58
50	-10	181	102	0,66	2,07	1,78

55	-35	48	54	0,43	1,03	0,89
55	-30	62	62	0,46	1,16	1,00
55	-25	82	72	0,50	1,33	1,14
55	-23,3	90	75	0,52	1,40	1,20
55	-20	107	82	0,55	1,53	1,31
55	-15	138	92	0,61	1,74	1,50
55	-10	175	104	0,67	1,96	1,68

60	-35	45	54	0,43	0,98	0,84
60	-30	59	63	0,46	1,09	0,94
60	-25	78	72	0,51	1,25	1,07
60	-23,3	85	76	0,52	1,31	1,13
60	-20	102	83	0,56	1,44	1,24
60	-15	133	94	0,61	1,64	1,41
60	-10	169	106	0,68	1,85	1,59

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	62	55	0,43	1,13	0,98
40	-30	82	62	0,46	1,31	1,14
40	-25	106	70	0,50	1,52	1,31
40	-23,3	116	73	0,51	1,59	1,38
40	-20	136	78	0,54	1,73	1,50
40	-15	171	88	0,58	1,95	1,69
40	-10	212	98	0,64	2,16	1,87

45	-35	57	55	0,43	1,04	0,90
45	-30	74	62	0,46	1,19	1,03
45	-25	97	70	0,50	1,38	1,19
45	-23,3	106	73	0,51	1,44	1,25
45	-20	125	80	0,54	1,57	1,36
45	-15	158	89	0,59	1,77	1,53
45	-10	197	100	0,65	1,97	1,70

50	-35	51	54	0,43	0,95	0,82
50	-30	67	62	0,46	1,07	0,93
50	-25	88	71	0,50	1,23	1,07
50	-23,3	96	74	0,52	1,29	1,12
50	-20	114	81	0,55	1,41	1,22
50	-15	145	91	0,60	1,60	1,38
50	-10	182	102	0,66	1,79	1,54

55	-35	46	54	0,43	0,85	0,74
55	-30	60	62	0,46	0,95	0,82
55	-25	79	72	0,50	1,10	0,95
55	-23,3	86	75	0,52	1,15	0,99
55	-20	103	82	0,55	1,26	1,09
55	-15	132	92	0,61	1,43	1,24
55	-10	167	104	0,67	1,61	1,39

60	-35	41	54	0,43	0,76	0,65
60	-30	52	63	0,46	0,84	0,72
60	-25	69	72	0,51	0,96	0,83
60	-23,3	76	76	0,52	1,01	0,87
60	-20	92	83	0,56	1,11	0,96
60	-15	120	94	0,61	1,27	1,10
60	-10	153	106	0,68	1,44	1,24

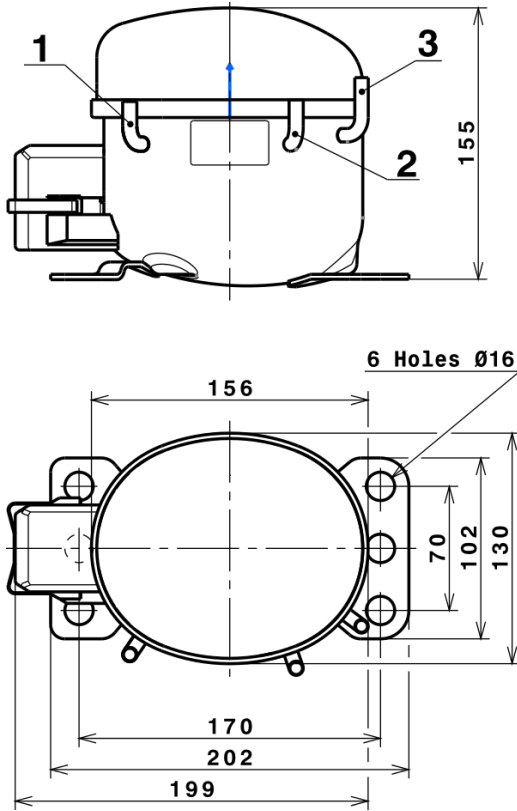
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	453,0324600135	99,4091686648	0,6513343042	4,5962239590866
2	13,5869195712	1,7160186319	0,0110306362	0,15365928326644
3	-3,7768280791	0,5998207157	0,0033494983	-0,020144241522063
4	0,1036187514	0,0159472464	0,0001502794	0,0014969622812441
5	-0,0767642524	0,0190827023	0,0001034250	-0,00035291952723668

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
----------	---

Technical Data Sheet

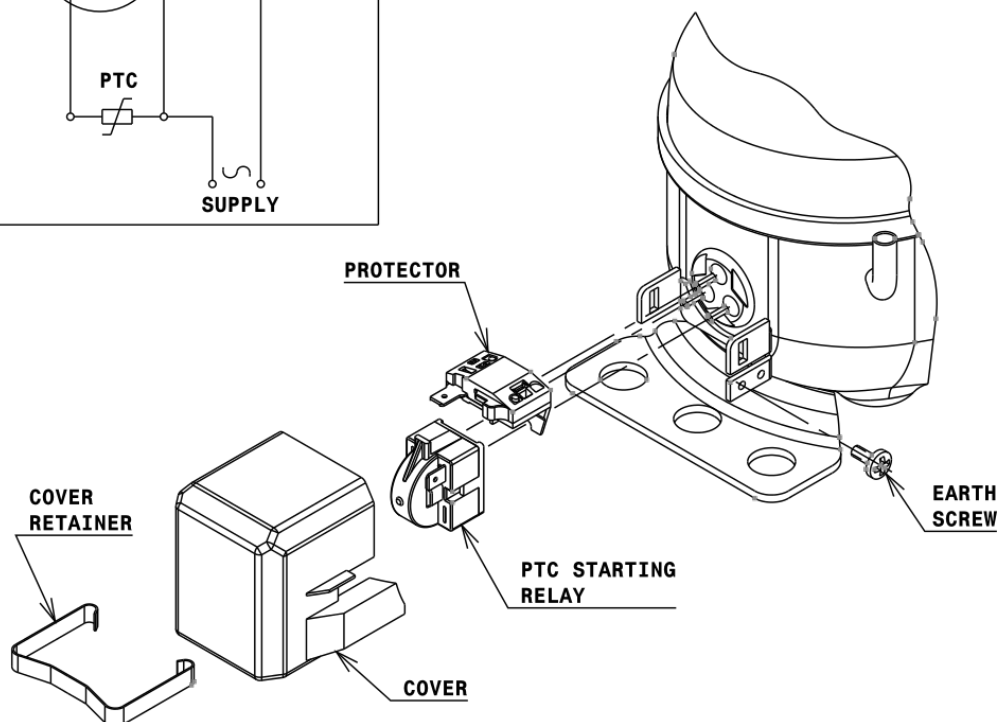
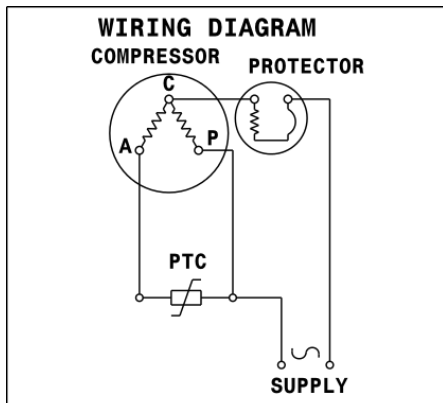
COMPRESSOR DIMENSIONS



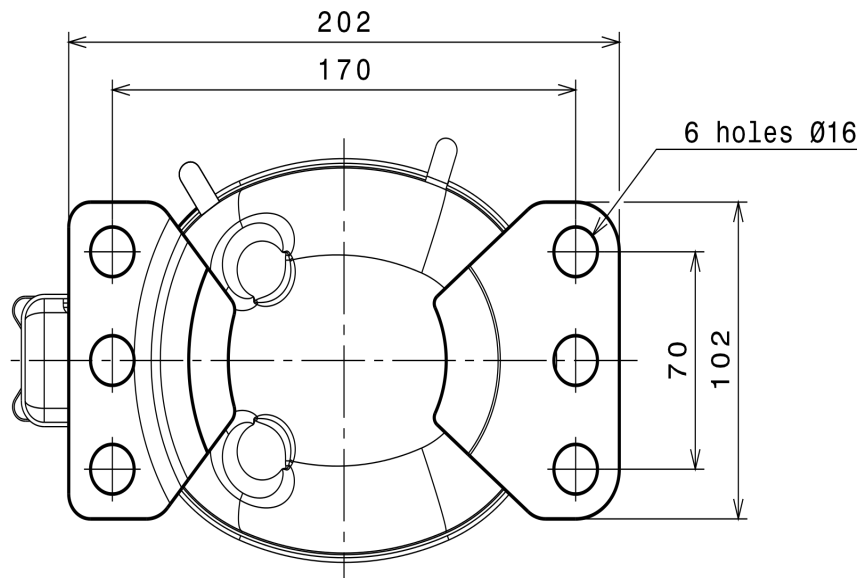
DESIGNATION	INTERNAL DIAM.
1 Suction	6,1 mm
2 Service	6,1 mm
3 Discharge	5,1 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

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



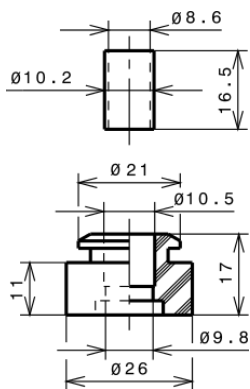
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø16 holes (170x70 net)



SOA

SOA R600a LBP

