

Technical Data Sheet

Compressor model **HYE90MKUa**
 Voltage **220-240V 50Hz ~1**
 Refrigerant **R600a**

APPLICATION

Application Low Back Pressure
 Refrigerant R600a
 Evaporating Temp. -35,0 °C to -10,0 °C
 Expansion Capillar
 Comp. Cooling Static
 Max. ambient temp. 43,0 °C

COMPRESSOR

Displacement 9,00 cm³
 Diameter 24,30 mm
 Stroke 19,00 mm
 Net Weight 8,40 Kg
 Oil type
 Oil charge 180 cm³

MOTOR

Nominal Power 1/6 hp
 Voltage/Frequency 220-240V 50Hz
 Voltage range 187-254 V
 Type RSCR
 Phase number 1 PH
 Locked Rotor Amps (LRA) 5,40 A
 Main W. resist. at 25°C 24,80 Ω
 Start W. resist. at 25°C 20,10 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	130 kCal/h	113 W
COP	1,68 W/W	1,32 W/W
EER	1,44 kCal/Wh	1,14 kCal/Wh
Input Power	90 W	86 W
Current	0,46 A	0,44 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

Run capacitor	9 μF 450V			
Relay	Option 1			
Reference	B40-120J2			
Voltage				
Resistance				
Protector	Option 1			
Reference	QP3-12A			
Current				
Time check				
Disc temp. (Open/Close)				

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	74	62	0,35	1,39	1,19
40	-30	99	71	0,38	1,64	1,41
40	-25	131	80	0,42	1,90	1,64
40	-23,3	143	83	0,43	2,00	1,72
40	-20	169	90	0,46	2,18	1,87
40	-15	213	101	0,51	2,45	2,11
40	-10	264	113	0,56	2,72	2,34

45	-35	71	62	0,35	1,33	1,14
45	-30	96	72	0,39	1,55	1,34
45	-25	127	82	0,43	1,80	1,55
45	-23,3	139	86	0,44	1,89	1,62
45	-20	164	93	0,47	2,05	1,77
45	-15	208	105	0,52	2,31	1,98
45	-10	258	118	0,58	2,55	2,20

50	-35	67	62	0,35	1,26	1,09
50	-30	92	73	0,39	1,47	1,27
50	-25	123	84	0,43	1,70	1,46
50	-23,3	134	88	0,45	1,78	1,53
50	-20	160	96	0,48	1,94	1,66
50	-15	203	109	0,54	2,17	1,87
50	-10	253	122	0,60	2,40	2,07

55	-35	64	62	0,35	1,20	1,03
55	-30	88	73	0,39	1,39	1,20
55	-25	118	86	0,44	1,61	1,38
55	-23,3	130	90	0,46	1,68	1,44
55	-20	155	99	0,50	1,83	1,57
55	-15	198	112	0,56	2,05	1,76
55	-10	247	127	0,62	2,26	1,94

60	-35	61	62	0,35	1,14	0,98
60	-30	84	74	0,40	1,32	1,13
60	-25	114	88	0,45	1,51	1,30
60	-23,3	126	92	0,47	1,58	1,36
60	-20	150	101	0,51	1,72	1,48
60	-15	193	116	0,57	1,93	1,66
60	-10	241	132	0,64	2,13	1,83

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	81	62	0,35	1,31	1,13
40	-30	110	71	0,38	1,56	1,35
40	-25	146	80	0,42	1,82	1,57
40	-23,3	159	83	0,43	1,91	1,65
40	-20	187	90	0,46	2,08	1,79
40	-15	235	101	0,51	2,32	2,01
40	-10	289	113	0,56	2,55	2,21

45	-35	74	62	0,35	1,20	1,04
45	-30	102	72	0,39	1,42	1,23
45	-25	135	82	0,43	1,65	1,42
45	-23,3	148	86	0,44	1,73	1,49
45	-20	174	93	0,47	1,87	1,62
45	-15	220	105	0,52	2,09	1,81
45	-10	271	118	0,58	2,30	1,99

50	-35	68	62	0,35	1,09	0,95
50	-30	93	73	0,39	1,28	1,11
50	-25	124	84	0,43	1,48	1,28
50	-23,3	136	88	0,45	1,55	1,34
50	-20	161	96	0,48	1,68	1,45
50	-15	205	109	0,54	1,88	1,63
50	-10	254	122	0,60	2,07	1,79

55	-35	61	62	0,35	0,99	0,85
55	-30	84	73	0,39	1,15	0,99
55	-25	113	86	0,44	1,32	1,14
55	-23,3	125	90	0,46	1,38	1,20
55	-20	148	99	0,50	1,50	1,30
55	-15	189	112	0,56	1,68	1,45
55	-10	236	127	0,62	1,86	1,61

60	-35	55	62	0,35	0,88	0,76
60	-30	76	74	0,40	1,02	0,88
60	-25	102	88	0,45	1,17	1,01
60	-23,3	113	92	0,47	1,23	1,06
60	-20	135	101	0,51	1,33	1,15
60	-15	174	116	0,57	1,50	1,30
60	-10	219	132	0,64	1,66	1,44

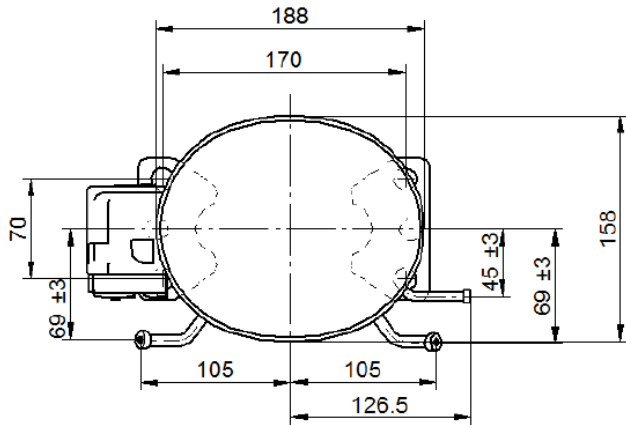
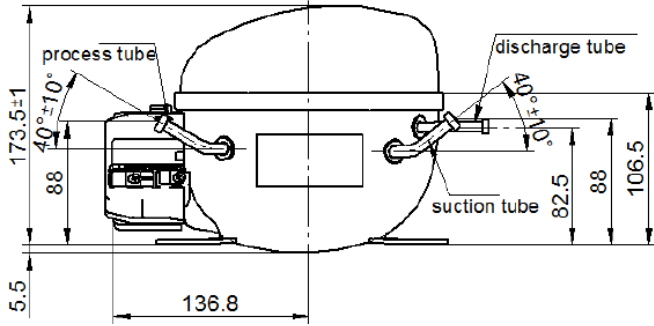
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	581,6565762659	88,6362386883	0,4522755039	5,7518055289845
2	16,9484942608	1,2880994772	0,0066269670	0,18639912934889
3	-4,4432718508	1,3360460626	0,0060084862	-0,017349394698583
4	0,1166913565	0,0161272960	0,0001098751	0,001697549539038
5	-0,0894886298	0,0381727446	0,0001716710	-0,00024833006856971

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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Technical Data Sheet

COMPRESSOR DIMENSIONS

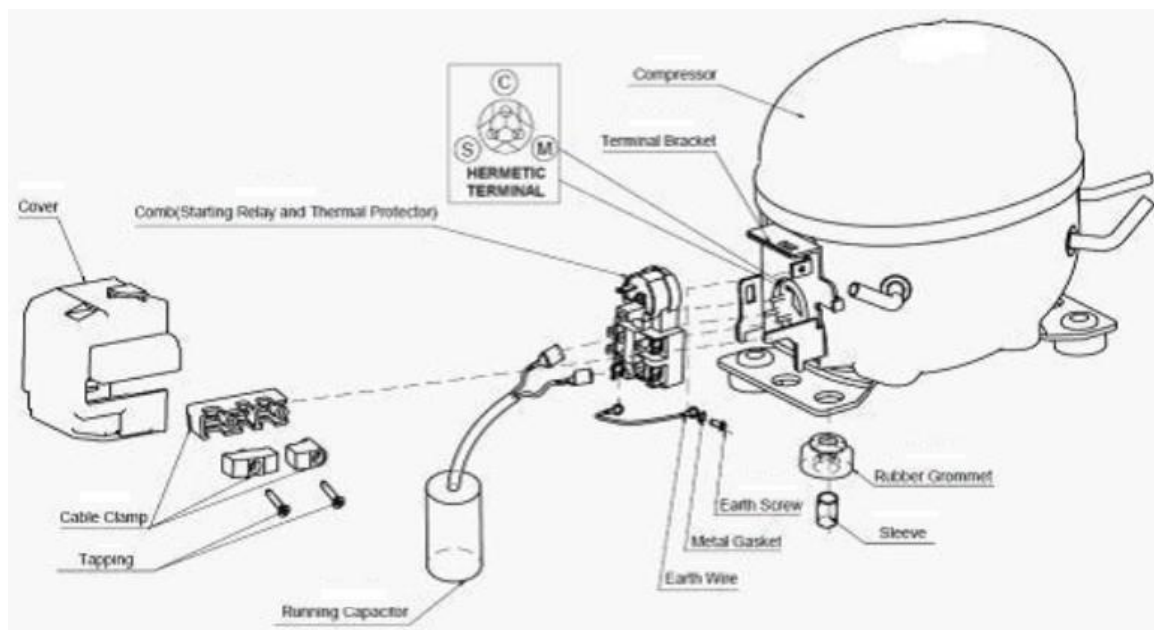
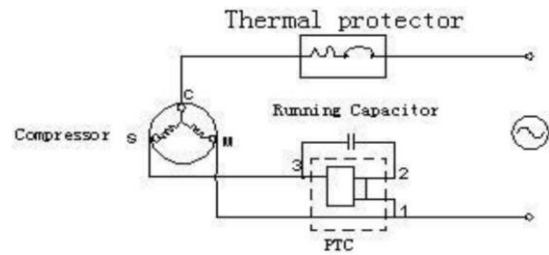


DESIGNATION INTERNAL DIAM.

1	Service	6,2 mm
2	Suction	6,2 mm
3	Discharge	4,9 mm

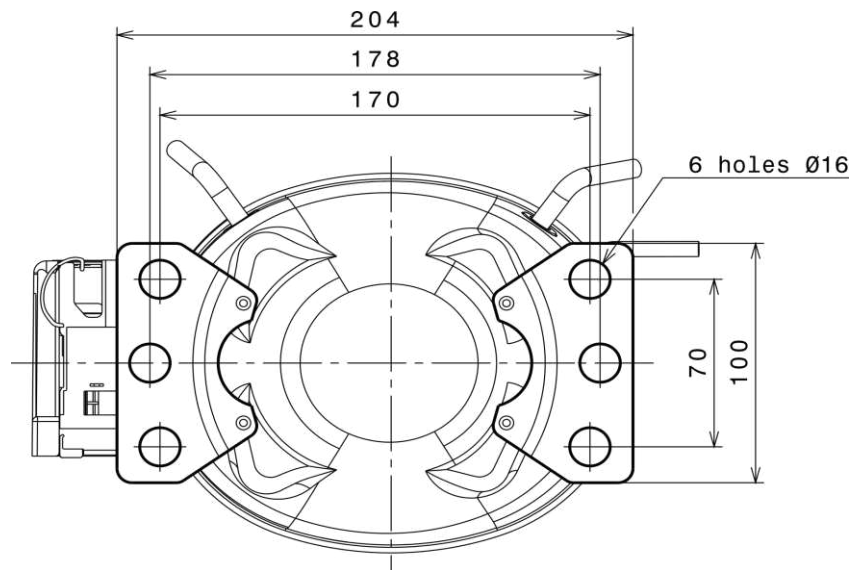
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSCR CONNECTION



Technical Data Sheet

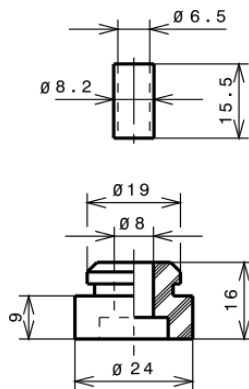
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

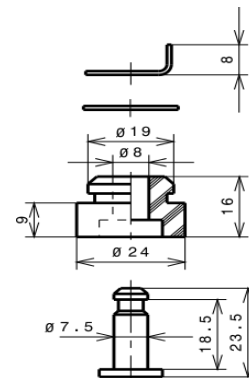
STANDARD

Ø16 holes (170x70 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R600a LBP

